

Long-Term Trends in Cancer Mortality in the United States, 1930–1998

Supplement to Cancer

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BACKGROUND. Progress against cancer can be examined by analyzing long-term trends in cancer incidence and mortality. The recent directive from the U.S. Department of Health and Human Services to adopt the 2000 U.S. standard population for the age adjustment of death rates prompted the American Cancer Society to update historical cancer mortality statistics using the new standard.

METHODS. Mortality data were abstracted by race, gender, year, and age at death for 1930 through 1959 from annual volumes of *Vital Statistics of the United States*. For 1960 through 1998, these data were obtained from data tapes provided by the National Center for Health Statistics. Two U.S. standard million populations (1970 and 2000) were used to calculate age-adjusted rates. Average annual percent change was estimated for each decade by site, gender, and age, and the statistical significance of the change was assessed at $p < 0.05$.

RESULTS. After long-term increases or mostly level trends that date from the 1930s for some sites, death rates for cancers of the lung (in males), prostate, female breast, colon-rectum, pancreas, leukemia, and ovary were decreasing in the 1990s. Liver cancer death rates were increasing in the 1990s. Throughout the study period, death rates for female lung cancer increased, while death rates for stomach and uterine cancers declined.

CONCLUSIONS. The trends of decreasing cancer death rates for the leading cancer sites in the 1990s are encouraging. However, surveillance researchers must continue to monitor these declines to assess whether the progress seen in this decade persists. Efforts also must be made to study the sites with increasing trends and identify potential underlying causes. *Cancer* 2003;97(11 Suppl):3133–3275.

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Progress against cancer can be examined by analyzing long-term trends in cancer incidence and death rates. Trends may reflect changes in population and individual cancer risk behaviors, long-term adjustments to societal norms, evolving technology, introduction of new cancer screening modalities, or consensus development of treatment guidelines followed by the increased adoption of a new treatment protocol.¹ For example, increasing cigarette use among U.S. men born in 1895 through the 1940s was followed by increased lung cancer incidence and death rates 20–50 years later.² Changes in societal norms, such as less environmental tobacco smoke at work and in public places, limited youth access to tobacco, and increased taxes on tobacco products, have influenced lung cancer trends.³ Other trends may reflect changes in technology—advances in refrigeration and food preservation may have contributed to decreasing stomach cancer death rates.⁴ The uptake of new and effective screening examinations among populations with historically low use often leads to increased identification of early-stage lesions and, because early-stage disease often is treated successfully, decreased cancer

death rates. For example, increasing mammography screening in the mid-1980s was followed by increased trends in rates of ductal carcinoma in situ and declining trends in breast cancer death rates beginning in 1990.^{5,6} The stage at cancer diagnosis may be influenced not only by improvements in screening modalities but also by availability of and access to health-care. New and effective treatment protocols, such as progressively more effective central nervous system prophylaxis for acute lymphoblastic leukemia in children, may lead to improved survival and reduced death rates.⁷

Since 1963, the annual American Cancer Society (ACS) publication *Cancer Facts & Figures* has included long-term trends in cancer death rates from 1930 through 1998.^{8,9} The recent directive from the U.S. Department of Health and Human Services to adopt the 2000 U.S. standard population for age adjustment of death rates motivated the ACS to update these cancer mortality statistics by using the more current standard population. The ACS also wanted to make detailed statistics, particularly for deaths occurring before 1960, more accessible to researchers and the public. The current monograph provides cancer death counts and rates (crude, age-specific, and age-adjusted to the 1970 and 2000 U.S. standard populations) for 10 cancer sites plus all sites combined from 1930 through 1998 by age and gender.

METHODS

Mortality Data

Mortality data were abstracted by race, gender, year, and age at death for 1930 through 1959 from annual volumes of *Vital Statistics of the United States*.^{10–13} For 1960 through 1998, these data were obtained from data tapes provided by the National Center for Health Statistics (NCHS) of the Centers for Disease Control and Prevention (CDC).¹⁴

Cause of death due to specific cancers was coded on death certificates according to the prevailing International Classification of Diseases (ICD). The Fourth Revision was used for deaths in 1930 to 1938; the Fifth Revision for 1939 to 1948; the Sixth Revision for 1949 to 1957; the Seventh Revision for 1958 to 1967; the Eighth Revision, adapted for use in the United States, for 1968 to 1978; and the Ninth Revision for 1979 to 1998.^{15–20} Over the 69 years covered by the current analysis, the codes used to describe cancer sites changed many times. To allow analysis of comparable trends over time, efforts were made to define the cancer sites consistently over the six editions of the ICD (Appendices A–B). For this reason, some sites were broadly defined for the entire study period. In the text, colon-rectum refers to colon, rectum, anal canal, and small intes-

tine; liver refers to liver, gallbladder, and biliary passages; lung refers to lung, bronchus, trachea, and pleura; ovary refers to ovary, fallopian tube, and broad ligament; and uterus refers to uterine cervix, uterine corpus, and uterus not otherwise specified.

Population Data

Population data were abstracted from U.S. Bureau of the Census Series PE-11 for 1930 to 1939, Series P25-311 for 1940 to 1959, Series P25-519 for 1960 to 1969, Series P25-917 for 1970 to 1979, Series P25-1095 for 1980 to 1989, and the U.S. Census website for 1990 to 1998.^{21–26} In all years, the population data included U.S. residents; the data for 1940 to 1979 also included armed forces overseas. For decade-years 1930 to 1950, population data were based on July census estimates; for decade-years 1960 to 1990, population data were based on April census estimates, and for other years, population data were based on July intercensal estimates.

Analysis

The 1930 to 1939 population data had been classified into 16 5-year age groups, with 75 years and older as the oldest age category.²¹ Therefore, the mortality data and standard populations for this decade were modified to reflect this age classification in the calculation of age-specific and age-adjusted rates. From 1940 onward, however, the mortality and population data were reported for 18 5-year age groups, with 85 years and older as the oldest age category.^{22–26}

Data on deaths occurring in Alaska and Hawaii were not reported until those two locations achieved statehood. Therefore, the data presented here exclude mortality and population data from Alaska before 1959 and from Hawaii before 1960.

In 1930 to 1932, all existing states except Texas met the national criteria for completeness of death registration. Although 8 cities in Texas—Beaumont, Dallas, El Paso, Fort Worth, Galveston, Houston, San Antonio, and Waco—met national standards, the mortality data for these cities and the population data for all of Texas were excluded for 1930 to 1932.

Three types of death rates were calculated for the current monograph: crude (or unadjusted), age-adjusted by the direct method to the U.S. standard million population,²⁷ and age-specific. Rates are expressed as deaths per 100,000 persons and are presented by cancer site and gender. Age-specific death counts and rates are presented for 5-year age groups except the youngest (birth to 19 years) and oldest (75 years and older for 1930 to 1939 and 85 years and older for 1940 to 1998). Rates are not presented for age and gender subgroups with death counts of fewer than five.

Two U.S. standard million populations—the 1970 and 2000 populations—were used to calculate age-adjusted rates.²⁸ These standard populations, presented in Table 1 by 5-year age groups, routinely are used to calculate age-adjusted cancer rates. Other agencies that report mortality statistics for cancer and other diseases frequently have used a standard million population based on 10-year age groups.²⁸

The average annual percent change (AAPC) was estimated by fitting a linear regression line to the natural logarithm of the annual rates (r) using calendar year (x) as a regressor variable.²⁹ If $\ln(r) = mx + b$ is the resulting regression equation (with slope m and y -intercept b) and j indexes the number of years from 1 to n , then the estimated slope is

$$m = \frac{n \sum_{j=1}^n [x_j \ln(r_j)] - (\sum_{j=1}^n x_j)(\sum_{j=1}^n \ln(r_j))}{n \sum_{j=1}^n [x_j^2] - (\sum_{j=1}^n x_j)^2}$$

and $\text{AAPC} = 100(e^m - 1)$. Testing the hypothesis that the AAPC equals zero is equivalent to testing the hypothesis that the slope of the line represented by the equation $\ln(r) = mx + b$ equals zero; that is, the rate is not increasing or decreasing. The test statistic, m/SE_m , where SE_m is the estimated standard error of m , has a t distribution with degrees of freedom equal to the number of calendar years minus 2. This calculation assumes that the rates changed at a constant rate over the entire calendar-year interval, although the validity of this assumption was not evaluated in the current monograph.⁶ Statistical significance was assessed at $p < 0.05$. Other comparisons described in the results were not tested for statistical significance. All data tables and figures are available online from URL: <http://www.cancer.org>.

Cautions in the Interpretation of Long-Term Trends Data

Trends in cancer mortality may reflect changes in population and individual cancer risk factors, adjustments to societal norms, technological advances, and new screening and treatment protocols. In addition, changes in legislation, death registration, cause of death classification, data collection definitions and operations, and statistical methods may have influenced the observed trends.¹ All of these possible explanations need to be considered in trying to interpret the data.

Trends in cancer mortality need to be scrutinized thoroughly to ensure they are not due to changes in the completeness and accuracy of death reporting or changes in coding practices. For example, in the United States, improvements in death registration in the 1930s may have contributed to the increases in cancer death rates observed at that time. In the United

States, the vital records and statistics systems began at the local level in the 18th century and progressed to the state level during the 19th century before developing into a national system in the 1930s.³⁰ To be included in the national vital statistics system, a state was required to adopt the recommended death certificate and the model law as well as to obtain 90% completeness of death registration.³¹ By 1930, 47 of the existing 48 states and the District of Columbia met these qualifications; in 1933, Texas also met the necessary criteria. In 1959 and 1960, Alaska and Hawaii, respectively, reported data to the national vital statistics system. The government agencies responsible for vital statistics long have emphasized the importance of high-quality data and quality control, including tests for completeness and accuracy, queries on incomplete or inconsistent entries on records, updates to classification systems, and improvement in the timeliness and utility of the data.^{30,31}

Valid comparison and interpretation of cancer trends requires knowledge of changes in data collection definitions and operations.¹ Since the 1930s, numerous adjustments have been made to the rules for classifying underlying cause of death, definitions of specific cancers, criteria for malignancy, and even the ICD.^{15–20} Of all the operational factors, temporal changes in ICD rubrics could influence trends in cancer death rates the most.¹ ICD has undergone 10 revisions since it was first published in 1900. ICD-10, which was implemented for the first time with the publication of preliminary 1999 mortality statistics in 2001, is the most recent.^{32,33} The effects of changes in ICD classification and rules often are measured in comparability studies.^{34–37} For accurate interpretation of trends over time, both consistent categorization of related anatomic sites and comparability of cause of death across ICD revisions must be considered for each cancer. Under early ICD rubrics, specific cancers generally were more inclusive of related anatomic detail (e.g., ovary also included broad ligament and fallopian tube); under later ICD rubrics, codes for these related anatomic sites were added.

Combining multiple related sites together can present challenges in the interpretation of mortality trends over time. Appendix A provides the details of the site changes over time for six editions of the ICD. The sites that were aggregated in this study but not aggregated in recent cancer statistics reports⁶ were: *colon-rectum*, which refers to colon, rectum, anal canal, and small intestine; *liver*, which refers to liver, gallbladder, and biliary passages; *lung*, which refers to lung, bronchus, trachea, and pleura; *ovary*, which refers to ovary, fallopian tube, and broad ligament; and *uterus*, which refers to uterine cervix, uterine corpus, and uterus not otherwise specified (Appendix A).

Recent compilations of statistics for colon-rectum do not include small intestine and anal canal; for liver, recent compilations do not include gallbladder; for lung, they do not include pleura and trachea; for ovary, they do not include fallopian tube and broad ligament; and for uterus, data are separated into uterine cervix and uterine corpus, including uterus not otherwise specified.⁶ Some specific subsites may account for only a small proportion of the deaths for the aggregate site and consequently have minimal effect on the magnitude of the overall rate and trends (e.g., ovary and fallopian tube); in contrast, other specific subsites may account for a large proportion of the deaths for the aggregate sites and affect both the magnitude of the overall rate and the trends (e.g., uterine cervix and uterine corpus).

Finally, statistical methods and analysis, such as updates to the standard population used for age adjustment, can affect the magnitude and trends of age-adjusted cancer rates.²⁸ Age adjustment is a statistical method that eliminates differences in age structures and allows for comparison of rates across time or among groups with different characteristics. Cancer incidence and death rates routinely have been age-adjusted to the 1970 U.S. standard population or to the world standard population,^{6,38} but in 2001, NCHS of the CDC presented preliminary rates for deaths occurring in 1999 that were age-adjusted to the 2000 U.S. standard population.^{28,33} Cancer death rates based on the 2000 standard generally are higher than rates based on the 1970 standard, because the U.S. population has aged considerably since 1970 and now has larger proportions of the population in the middle and older age groups, in which cancer rates are higher. Because the standard populations serve as the weights for calculation of age-adjusted rates, differences in the age structures of the 1970 and 2000 populations directly affect the weighting scheme. Compared with the 1970 standard, the 2000 standard emphasizes death rates at older ages, when mortality is higher, and thus yields age-adjusted rates that are higher than those previously published. The higher death rates based on the 2000 standard do not, however, indicate higher absolute risk, which is best measured using crude death rates. Because age-adjusted death rates measure relative mortality (as opposed to absolute risk), the relative risks will be similar regardless of the standard population used.

Rates for persons who died at age 85 years or older should be interpreted with caution. First, because the 5-year age groups for the standard populations used for age-adjustment of rates do not extend beyond age 85 years,^{6,38} the rate for this age group cannot be age-adjusted to remove the effects of aging in the

population. Second, this age group has a lower percentage of histologically confirmed cancers than younger age groups, so that the death certificate may indicate cancer when cancer is not present. Evidence for this assertion is derived from the large percentage of death-certificate-only cases among persons age 85 years and older.

The choice of standard population can also affect trends in rates.²⁸ The effect is minimal when trends in age-specific rates are parallel and greater when age-specific trends diverge over time. For example, death rates for cancer at all sites combined are significantly decreasing among persons age 75 years and younger but increasing among older persons.³⁹ The 2000 standard emphasizes trends in older age groups,²⁸ whereas the 1970 standard emphasizes trends in the younger age groups; for example, declining trends for many cancer sites may appear greater using the 1970 standard compared with the 2000 standard. Regardless of the standard population used, age-adjusted rates average the age-specific mortality across age groups and may obscure important age-specific trends. Thus, when trend data are examined for causes of death characterized by diverging age-specific trends, the age-specific trends (rather than age-adjusted trends) should be the primary focus of the analysis.

RESULTS AND DISCUSSION BY CANCER SITE

Among the 10 selected cancer sites, the proportional contribution to overall cancer mortality appeared to decline over the past 7 decades for colon-rectum, liver, stomach, and uterus, and appeared to increase for lung (Table 2). From the 1930s through the 1990s, the proportion due to stomach cancer and cancer of the uterus appeared to decrease substantially: among males, stomach cancer accounted for about 24.6% of cancer deaths in the 1930s but only about 2.9% of cancer deaths in the 1990s, and among females, the proportion appeared to decline from about 14.5% to 2.2% for stomach cancer and from about 20.9% to 4.3% for uterine cancer. Declines in colorectal and liver cancers appeared to be smaller: for both males and females, colorectal cancer accounted for about 15% of cancer deaths in the 1930s and 11% in the 1990s, and liver cancer accounted for about 7% in the 1930s and 3% in the 1990s. In contrast, lung cancer appeared to account for about 5.3% of cancer deaths in males and 2.0% of cancer deaths in females in the 1930s, but by the last decade of the century, these percentages appeared to have increased substantially, to about 33.1% among males and 22.8% among females. The proportion of deaths due to pancreatic cancer among males appeared to increase slightly into the 1960s and then to decrease, but appeared to in-

crease throughout all 7 decades among females. The proportions of cancer deaths due to leukemia and ovarian cancer also appeared to increase into the 1950s and 1960s and then to decrease. The contributions of female breast cancer and prostate cancer to overall cancer mortality did not appear to vary appreciably over the seven decades. Similarly, the proportion of cancer deaths due to cancer at other sites was approximately level at about 30% among males and 23% among females from the 1950s through the 1990s, although proportions for other specific sites were not examined individually.

Results and discussion of the rate and trend analyses for selected cancers follow: all cancer sites combined, female breast, colon-rectum, leukemia, liver, lung, ovary, pancreas, prostate, stomach, and uterus. Of note, although the rates presented are age-adjusted to both the 1970 and 2000 standard populations, only the rates adjusted to the 2000 standard population are described in the Results and Discussion sections.

All Cancer Sites Combined

Year (ICD Version)	ICD Codes
1930–1938 (ICD-4)	45–53, 72a
1939–1948 (ICD-5)	45–55, 74a, 74b
1949–1957 (ICD-6)	140.0–205
1958–1967 (ICD-7)	140.0–205
1968–1978 (ICD-8A)	140.0–207.9
1979–1998 (ICD-9)	140.0–208.9

Results

In the 1930s, cancer death rates age-adjusted to 2000 for all sites combined were higher among females than among males (Fig. 1; Table 3). By 1940, the rates were similar. From the 1940s through the 1980s, the rates among males exceeded and increasingly diverged from the rates among females. Except for the 1990s, rates among males significantly increased in all decades studied (Fig. 2). The rate of increase for males was greatest in the 1930s and then progressively slowed in subsequent decades; by the 1990s, the rates decreased significantly, by an average of 1.3% per year (Fig. 2).

Among females, cancer death rates were stable during the 1930s and then decreased during the next three decades (Fig. 2). The decline was followed by a leveling off in the 1970s and then by a statistically significant increase in the 1980s. In the last decade of the 20th century, rates among females again declined significantly.

Trends over time in cancer death rates for all sites combined varied by gender and by age. Except for the 1990s, cancer death rates among males age 60 years and older generally increased throughout the study

period (Fig. 3; Tables 4, 5). Among younger men, rates generally increased during the 1930s and 1940s before leveling off and beginning to decline (Fig. 3; Table 5). In the 1970s, rates were significantly declining for men younger than age 45 years (Table 5). By the 1990s, cancer death rates were decreasing in all age groups of males; declines were statistically significant except among males ages 20 to 29 years.

Trends by age over time in cancer death rates among females were different than those observed among males (Fig. 4; Tables 5, 6). Among females age 70 years and older, rates generally decreased from the 1930s through the late 1960s, leveled off, and then increased from the late 1970s onward (Table 5). The trends among females ages 55 to 69 years were similar, except for decreasing rates in the 1990s. Among younger women, cancer death rates for all sites combined generally were decreasing after the 1940s.

Throughout all seven decades, cancer death rates increased with age for both males and females, and the age-specific occurrence of cancer was similar for both genders (Figs. 5–8). From the 1940s through the 1990s, the peak age range at death was 85 years and older for both males and females. Among males, age-specific rates in a given decade generally were higher for each successive decade (Figs. 5, 6). For example, rates among males ages 80 to 84 years ranged from 1410.5 to 1517.5 per 100,000 in the 1940s, compared with 2040.3 to 2229.5 per 100,000 in the 1990s (Table 4). Age-specific rates among females did not follow the same pattern (Fig. 7; Table 6).

Discussion

After long-term increases dating from the 1930s, cancer death rates for all sites combined declined in the 1990s. Joinpoint analyses of trends from 1973 to 1999 indicated that increasing trends reversed to decline in 1993.⁶ Among males, cancer death rates decreased by 1.5% per year from 1992 through 1999. Trends among females were less pronounced, with an average annual decline of 0.6% from 1992 to 1999. By the mid-1990s, cancer death rates were declining for the 4 cancers that account for more than 50% of all cancer deaths (lung, prostate, female breast, and colon-rectum), except for lung cancer in women. In addition, cancer death rates for most of the remaining top 10 sites (pancreas in males, leukemia, stomach, ovary, and brain and other nervous system) also were decreasing.⁴⁰

Trends in lung cancer death rates have a strong influence on trends for all cancer sites combined.³⁹ In the current study, 5.3% of all cancer deaths in males and 2.0% of all cancer deaths in females were due to lung cancer in the 1930s. By the 1990s, lung cancer accounted for 33.1% of all cancer deaths in males and 22.8% of all

cancer deaths in females (Table 2). Thus, the decrease in overall cancer death rates among males in the 1990s reflects the decrease in lung cancer death rates that began in 1990; declines in prostate and colorectal cancer death rates in the 1990s also contribute to the decreasing trend for all sites combined.^{6,39,40} The recent decrease among females in the 1990s is due primarily to the decrease in breast cancer death rates that began in 1989, the long-term decline in colorectal cancer death rates that began in the late 1940s, and the more recent decrease in lung cancer mortality among women younger than age 65 years.^{39,40}

Female Breast Cancer

Year (ICD Version)	ICD Codes
1930–1938 (ICD-4)	50
1939–1948 (ICD-5)	50
1949–1957 (ICD-6)	170
1958–1967 (ICD-7)	170-
1968–1978 (ICD-8A)	174_
1979–1998 (ICD-9)	174.0–174.6, 174.8–174.9

Results

In 1998, the death rate for female breast cancer was 27.9 per 100,000 (Table 7). Breast cancer death rates increased significantly in the 1930s, were approximately level from the 1940s through the 1970s, increased significantly in the 1980s, and then decreased significantly in the 1990s (Figs. 9, 10; Table 7).

Trends over time in breast cancer mortality varied by age (Fig. 11; Tables 8, 9). Among females ages 30 to 59 years, rates generally were level or increasing from the 1930s through the 1960s, declined in the 1970s, leveled off, and then declined significantly in the late 1980s and 1990s. Among older females, rates were level or decreasing in the 1940s and 1950s, increased significantly in the 1980s, and then decreased significantly in the 1990s. In the 1990s, rates significantly decreased across all ages, except for women younger than age 30 years, who experienced nonsignificant declines, and women age 85 years and above, who had approximately level rates (Table 9).

In each of the seven decades, breast cancer death rates increased with age and consistently peaked among the oldest women (Figs. 12, 13); however, the shape of the age-specific curve varied slightly over time. Among females ages 45 to 64 years, age-specific rates were higher in the 1960s and through the 1970s than in the 1990s. Among older women, age-specific rates were higher during the 1980s and 1990s than during the 1960s and 1970s.

Discussion

The National Cancer Institute reported a significant decline in breast cancer mortality that began in 1989.^{6,41,42} Breast cancer death rates peaked at about 33 per 100,000 in the late 1980s, decreased on average by 1.4% per year in the early part of the 1990s, and then decreased more rapidly (by 3.2% per year) from 1995 to 1999.⁶ Possible explanations offered for the recent decline include the increased use of adjuvant therapies and the increasingly widespread inclusion of breast cancer screening in routine medical care.^{41,42}

Before this downturn, the long-term trend in breast cancer death rates had been described as relatively stable,^{41,43,44} even back as far as the 1930s,⁴⁴ except for some variations that probably were related to birth cohort patterns that, in turn, may have reflected temporal changes in reproductive behaviors.⁴⁵ Several recent studies reported slightly increasing rates averaging 0.2% per year ($p < 0.05$) from 1973 to 1989.^{46–48} However, joinpoint analyses of death rates from 1973 to 1999 found approximately level rates from 1973 through 1979 and then significantly increasing rates from 1979 through 1989 (0.6% per year).⁶ This more detailed examination of the trends indicated that the slightly increasing trend previously reported for the entire period from 1973 to 1989 was confined to the 1980s.

The reasons for the increasing trends in breast cancer death rates in the 1980s are not well understood, although they appear to be confined primarily to women age 60 years and older.^{45,48} The increasing trends may be related to other established risk factors for breast cancer, possibly including changes in reproductive patterns, use of hormone replacement therapy, and postmenopausal obesity.

Internationally, breast cancer rates vary substantially, with the highest rates found in the United States, Canada, and Northern Europe, and the lowest rates found among Asian and African women.^{49–51} Evidence that factors in early life influence risk is suggested by migration studies.⁴⁹ Breast cancer incidence and death rates among migrant populations appear to increase substantially after arrival in the United States.

Cancer of the Colon, Rectum, Anal Canal, and Small Intestine

Year (ICD Version)	ICD Codes
1930–1938 (ICD-4)	46c, 46d
1939–1948 (ICD-5)	46c, 46d, 46e
1949–1957 (ICD-6)	152, 153, 154
1958–1967 (ICD-7)	152.0, 152.7–152.9, 153.0–153.3, 153.7–153.9, 154-

(continued)

(continued)

Year (ICD Version)	ICD Codes
1968–1978 (ICD-8A)	152.0–152.2, 152.8–152.9, 153.0–153.3, 153.8–153.9, 154.0–154.2
1979–1998 (ICD-9)	152.0–152.3, 152.8–152.9, 153.0–153.9, 154.0–154.2, 154.8, 159.0

Results

In the 1930s, death rates for cancers of the colon, rectum, anal canal, and small intestine (hereafter referred to as *colon-rectum*) were slightly higher among females than among males, and trends for both genders were significantly increasing (Figs. 14, 15; Table 10). Beginning in the late 1930s, however, the rate of increase among females began to slow, and in the 1940s, rates among females crossed over the rates among males. After rates among females peaked at 35.2 per 100,000 in 1947, they declined significantly in all subsequent decades (Fig. 15; Table 10). Among males, death rates for colorectal cancer peaked in 1948 at 35.8 per 100,000 but then were approximately level for the next three decades before declining significantly in the 1980s and 1990s (Figs. 14, 15; Table 10). In 1998, the colorectal cancer death rate was 26.1 per 100,000 among males and 18.6 per 100,000 among females (Table 10).

Examination of temporal trends in mortality from colorectal cancer by age also revealed differences by gender (Figs. 16, 17; Tables 11–13). In the 1930s, rates increased significantly among both males and females age 40 years and older (Table 12). Among females, rates began to decline for some age groups in the 1940s. Thereafter, except for some leveling off among the oldest women in the 1950s through the 1980s, rates among females generally decreased from the late 1940s until the 1990s, regardless of age (Fig. 17; Tables 12, 13). In contrast, declines among males were not consistent across different ages until the 1980s and 1990s (Fig. 16; Table 12). Decreases in colorectal cancer death rates among males began earlier among younger men than among older men. In the 1980s and 1990s, rates among males were decreasing in most age groups.

In each of 7 decades, colorectal cancer death rates increased with age for both males and females, except for males age 85 years and older in the 1940s (Figs. 18–21). That is, the peak age range at death from this cancer was 85 years and older, with the same exception that was mentioned previously. In general, except for the 1930s and 1940s, age-specific rates among females in each successive decade were lower than rates for females of the same ages in the previous decade (Fig. 21). Among males, age-specific rates in the 1990s generally were lower than rates for males of the same ages in other decades (Fig. 19).

Discussion

Reasons for the declines in colorectal cancer mortality rates likely differ for recent years compared with earlier years. Since the early 1970s, advances have been made in the treatment of colorectal cancer, and these advances have had the potential to bring about reductions in colorectal cancer mortality.^{42,52} Surgical techniques, including ‘no-touch’ procedures developed during the 1970s and 1980s, lowered the morbidity and mortality from abdominoperineal resection,⁴² and adjuvant chemotherapy became more widely used after a 1990 consensus conference.^{42,53} Colorectal cancer screening may have contributed to the decline in mortality in recent years through detection of disease at an earlier stage,⁵⁴ although the prevalence of colorectal screening has not been high.⁴²

The extent to which other protective factors,⁴² such as genetics⁵⁵ and increased fruit and vegetable consumption,⁵⁶ aspirin use,⁵⁷ physical activity,^{58,59} and hormone replacement therapy for women,⁶⁰ contribute to either recent or earlier declines in colorectal cancer incidence and mortality is not well understood. Why the decline among females began about 3 decades before the decline among males is also not clear but may be related to estrogen use (first prescribed to women in the 1940s)⁶¹ and aspirin use (women have a higher prevalence of analgesic drug use).⁶² Further research is needed to understand these differences.

Colorectal cancer rates vary widely internationally.^{50,51} Incidence and death rates are highest in the developed regions of the world—Australia, New Zealand, North America, Northern and Western Europe, and Japan—and lowest in Asia and Africa. Geographic variation in colorectal cancer rates may be related to environmental factors, particularly diet. Studies in migrant populations also support diet as a contributing factor^{63,64}; cancer rates in migrant populations rapidly approach those in the host country populations, frequently during the migrants’ generation.⁴³

Leukemia

Year (ICD Version)	ICD Codes
1930–1938 (ICD-4)	72a
1939–1948 (ICD-5)	74a, 74b
1949–1957 (ICD-6)	204
1958–1967 (ICD-7)	204.0–204.4
1968–1978 (ICD-8A)	204.0–204.1, 204.9, 205.0–205.1, 205.9, 206.0–206.1, 206.9, 207.0–207.2, 207.9
1979–1998 (ICD-9)	202.4, 204.0–204.2, 204.8–204.9, 205.0–205.3, 205.8–205.9, 206.0–206.2, 206.8–206.9, 207.0–207.2, 207.8, 208.0–208.2, 208.8–208.9

Results

Male and female death rates for leukemia increased significantly from the 1930s through the 1960s and decreased slightly from the 1970s through the 1990s (Figs. 22, 23; Table 14). Rates among females declined significantly in the last 3 decades, while the decline among males was significant only during the 1980s (Fig. 23). The leukemia death rate peaked at 11.3 per 100,000 in the late 1960s for males, and in 1998, the rate was 10.1 per 100,000 (Table 14). Among females, the rate peaked in 1968 at 6.9 per 100,000, and in 1998, the rate was 5.9 per 100,000.

Trends in leukemia death rates varied over time by age but did not differ appreciably by gender. For persons younger than age 20 years, rates generally increased in the 1930s and 1940s, leveled off during the 1950s and 1960s, and then decreased in the next three decades (Tables 15–17). In the 1980s and 1990s, rates were significantly decreasing for nearly all age groups younger than age 20 years (Table 16). Rates for persons ages 20 to 59 years increased during the 1930s and 1940s, leveled off during the 1950s, and then continued to be level or declined during the later decades. For persons ages 60 to 69 years, leukemia death rates were significantly increasing from the 1930s through about the 1950s and then generally leveled off in the decades that followed. For persons ages 70 to 79 years, rates increased through the 1960s or 1970s before leveling off. Finally, for males age 80 years and older, leukemia death rates continued to increase through the 1970s and then leveled off (Fig. 24; Table 16). For females ages 80 to 84 years, trends increased through the 1960s and then were approximately level; for older females, trends increased in all decades except the 1970s and the 1990s (Figs. 24, 25; Table 16).

Age-specific patterns of leukemia death rates varied across all seven decades (Figs. 26–29). For both genders, the age range in which rates peaked increased from 75 to 79 years in the 1940s to 85 years and older from the 1960s through the 1990s. In general, from the 1930s through the 1950s and 1960s, leukemia death rates for each age group generally were higher in each successive decade (Tables 17, 19). From the 1970s through the 1990s, death rates for each age group were lower in each successive decade than for persons younger than about age 60 years (Tables 17, 19) and were similar across these decades for older persons, except for those age 80 years and older (Figs. 27, 29).

Discussion

The four major subtypes of leukemia—acute lymphoblastic leukemia, chronic lymphocytic leukemia, acute myeloid leukemia, and chronic myeloid leukemia—

were given increased attention in medical records and on death certificates only after the implementation of ICD-8 in 1968 (Appendix A).⁶⁵ Despite the refinement in ICD coding, death certificates may not contain the leukemia cell type, and the level of specification varies substantially within countries and internationally.

The four cell-type groupings of leukemia have different incidence and mortality patterns by age.⁶⁵ Acute lymphoblastic leukemia peaks once in early childhood (age 2 to 4 years) and again in the elderly (age 85 years and older), whereas chronic myeloid leukemia shows rapid increases between young adulthood (age 25 to 29 years) and the elderly (age 80 to 84 years). In studies that considered all leukemia combined, death rates from leukemia varied by age: these studies reported decreases among children and adolescents beginning in the 1950s, smaller declines among young adults, stability among the middle-aged, and increases among the elderly.^{66,67}

Decreased leukemia death rates in the youngest age groups generally have been attributed to advances in therapies,⁶⁶ particularly for acute lymphoblastic leukemia. Childhood leukemia mortality has decreased significantly since the mid-20th century in the United States and in most countries.⁶⁵

Increased leukemia death rates among adults have been attributed to several different factors, including improvements in cancer registration and diagnosis,⁶⁶ increased cigarette smoking,⁶⁶ exposure to hazardous occupational factors such as benzene, styrene, and butadiene,⁶⁵ environmental agents,^{65,67} and ionizing radiation.⁶⁸ Steady increases in the incidence of acute myeloid leukemia in developed countries and in industrial metropolitan areas suggest the effects of occupational or environmental factors.⁶⁵ Dairy farming, raising poultry or livestock, and selected crops (including soybean, corn, and grains) may expose farm workers to crop and animal insecticides, herbicides, and fertilizers, as well as viruses.

Cancer of the Liver, Gallbladder, and Biliary Passages

Year (ICD Version)	ICD Codes
1930–1938 (ICD-4)	46e
1939–1948 (ICD-5)	46f
1949–1957 (ICD-6)	155, 156
1958–1967 (ICD-7)	155.0–155.1, 155.8, 156– (or 156.1)
1968–1978 (ICD-8A)	155.0–155.1, 156.0–156.2, 156.9, 197.8
1979–1998 (ICD-9)	155.0–155.2, 156.0–156.2, 156.8–156.9

Results

From the 1930s through the early 1960s, death rates for cancers of the liver, gallbladder, and biliary passages (hereafter referred to as *liver cancer*) were higher in females than in males; thereafter, rates were higher

in males (Fig. 30; Table 18). In 1998, the liver cancer death rate was 8.0 per 100,000 in males and 4.4 per 100,000 in females. Rates among males declined significantly from the 1930s through the 1970s but then increased significantly, by 1.1% per year in the 1980s and by 2.0% per year from 1990 to 1998 (Fig. 31). The lowest rate for males was in the mid-to-late 1970s (5.9 deaths per 100,000) (Table 18). Rates among females decreased significantly from the 1930s through the 1980s and then increased significantly in the 1990s (0.6% per year) (Fig. 31). The lowest rate for females occurred in the late 1980s (4.1 deaths per 100,000) (Table 18).

Among males, trends over time in liver cancer mortality varied by age but generally decreased from the 1930s into the 1970s and then began to increase (Fig. 32; Tables 19, 20). For males ages 40 to 84 years, rates generally decreased during the 1930s through the 1970s (Table 20). During the 1990s, however, the rates increased sharply, with the largest significant increases observed among males ages 40 to 54 (ages 40 to 44, 3.6% per year; ages 45 to 49, 9.2% per year; ages 50 to 54, 4.9% per year) (Table 20).

Temporal trends in liver cancer mortality among females also varied by age but generally decreased from the 1930s to the 1970s before leveling off or increasing in later decades (Fig. 33; Tables 20, 21). The decreases were sharper and were sustained for a longer time than were the decreases observed among males (Table 20). During the 1930s through the 1970s, rates among females were significantly decreasing in nearly all age groups 35 years and older. By the 1990s, trends were approximately level in most age groups, except for significantly decreasing trends among females ages 45 to 49 years and significantly increasing trends among females ages 60 to 69 and 75 to 79 years.

Patterns of age-specific liver cancer death rates varied across all seven decades and were different for males and females (Figs. 34–37). In general, age-specific rates in a given decade were lower for each successive decade, except for males in the 1990s. Among males, rates peaked at ages 80 to 84 years during the 1940s and 1950s but at age 85 years and older during later decades (Fig. 34). For males age 85 years and older, the rate in the 1990s fell between the rates from the 1940s and 1950s. Among females, liver cancer death rates peaked at ages 80 to 84 years in the 1940s and at age 85 years and older thereafter (Fig. 36). Rates in the 1990s among females were similar to those in the 1980s.

Discussion

Liver cancer occurs predominantly in males, whereas gallbladder cancer is more frequent in females.⁶⁹ A primary risk factor for gallbladder cancer is the pres-

ence of gallstones, which have been associated with obesity, multiple pregnancies, and exogenous estrogens.⁷⁰

Although liver cancer is one of the three most common causes of cancer mortality in the world, it is rare among adults born in the United States.⁶⁹ Worldwide, the hepatitis B virus is associated with 80% of liver cancers.⁶⁹ Studies of Chinese and Japanese male migrants to the United States show that liver cancer death rates are higher than those in U.S. white populations, possibly because of hepatitis B exposure in Asia.⁷¹ In geographic locations where hepatitis B prevalence is low, hepatitis C infection is likely to be the major risk factor for liver cancer.⁶⁹ In Western countries such as the United States, where hepatitis B or C infection is uncommon, about 3–10% of liver cancers are associated with cirrhosis induced by alcohol. In the United States, alcohol consumption increased from the end of Prohibition in 1933 to a peak in the early 1980s, and it has decreased since then.⁷² The increase in liver cancer death rates among males beginning in the 1980s may be related to the increases in alcohol and tobacco consumption observed during the 1930s through the 1970s.⁷³ Other risk factors for liver cancer include aflatoxin exposure, occupational vinyl chloride exposure, and oral contraceptive use.⁶⁹

Cancer of the Lung, Bronchus, Trachea, and Pleura

Year (ICD Version)	ICD Codes
1930–1938 (ICD-4)	47b, 47c
1939–1948 (ICD-5)	47b–47f
1949–1957 (ICD-6)	162, 163
1958–1967 (ICD-7)	162.0–162.2, 162.8, 163–
1968–1978 (ICD-8A)	162.0–162.1, 163.0
1979–1998 (ICD-9)	162.0, 162.2–162.5, 162.8–162.9, 163.0–163.1, 163.8–163.9

Results

From the 1940s through the 1990s, death rates for cancer of the lung, bronchus, trachea, and pleura (hereafter referred to as *lung cancer*) were 2 to 5 times greater among males than among females (Fig. 38; Table 22). Rates among males increased significantly throughout the first 6 decades and then reversed to decline significantly in the 1990s by about 1.6% per year (Fig. 39). The rate of increase among males slowed in each decade from 10.8% per year in the 1930s to 0.7% per year in the 1980s. The number of deaths due to lung cancer in males also declined during the 1990s. The largest number of lung cancer deaths was 92,885, in 1993, compared with 91,776 in 1998 (Table 22). In contrast, rates among females in-

creased throughout the entire study period. The rate of increase was low in the 1950s, was more than 6% per year during the 1960s and 1970s, and appeared to be slowing again in the 1990s (1.4% per year) (Fig. 39).

Trends in lung cancer death rates varied by gender and age (Figs. 40, 41; Tables 23–25). Among males who were at least 85 years old, rates increased through the 1980s, although more slowly, and appeared to level off in the 1990s (Fig. 40; Table 24). Among males ages 60 to 84 years, rates increased from the 1930s through the 1980s before beginning to decline. Among younger men, rates peaked in earlier decades. Lung cancer death rates increased throughout the study period for females age 65 years and older (Fig. 41; Tables 24, 25); in all decades except the 1950s, these rates were significantly increasing (Table 24). Although the rates among these females were significantly increasing in the 1990s, the rate of increase was less than what was seen in the 1980s. Among females ages 45 to 59 years, rates generally increased from the 1930s through the 1980s before decreasing significantly in the 1990s (Table 24). The average annual percent decrease in the 1990s ranged from 1.6% per year among females ages 55 to 59 years to 4.2% per year among females ages 45 to 49 years.

From the 1930s through the 1990s, age-specific lung cancer death rates among males were progressively higher in each successive decade (Figs. 42, 43). During the 1930s and 1940s, rates among males were less than 100 per 100,000, regardless of age (Fig. 42). By the 1980s and 1990s, however, rates were about 170 per 100,000 among males ages 55 to 59 years and nearly 600 per 100,000 among males ages 80 to 84 years (Fig. 42; Table 23). Across decades, the changing patterns of age-specific lung cancer death rates among females lagged behind the corresponding rates among males (Figs. 42–45). Among females, age-specific rates remained below 50 per 100,000 through the 1960s; by the 1990s, however, rates among females ages 55 to 59 years were about 78 per 100,000 and were more than 200 per 100,000 among females ages 80 to 84 years (Fig. 44; Table 25). Among males, the peak age range increased from 60 to 64 years in the 1940s to 80 to 84 years in the 1990s (Fig. 42); among females, the peak age varied over time (Fig. 44).

Discussion

As much as 90% of all lung cancer is caused by tobacco smoking, including active cigarette smoking, pipe and cigar smoking, and exposure to environmental tobacco smoke.^{39,74,75} Other exposures, such as radon and asbestos, also increase risk.⁷⁶ The epidemic of lung cancer in the 20th century largely reflects birth cohort patterns of active cigarette smoking.^{77,78} The uptake in cigarette smoking occurred first among males and

later among females and then for several decades followed a generational pattern in which successive birth cohorts began smoking at progressively younger ages and a larger proportion of adults became smokers.² Among men born from 1895 through World War II, 70–80% were cigarette smokers at some time during their lifetime, and many smoked heavily. The prevalence of smoking among women lagged behind the prevalence among men and peaked at 55% in the cohort of women born between 1935 and 1944.

Experimentation with cigarette smoking and nicotine addiction usually occurs in adolescence or during early adulthood, and patterns of smoking behaviors established then tend to persist as the birth cohort ages.⁷⁹ This phenomenon accounts for the clear birth cohort progression in smoking prevalence and the progression in age-specific lung cancer death rates 20 to 50 years later. The pattern of declining lung cancer death rates in males and the leveling off of lung cancer death rates in females reflect historical patterns of cigarette smoking.^{77,78}

Cancer of the Ovary, Fallopian Tube, and Broad Ligament

Year (ICD Version)	ICD Codes
1930–1938 (ICD-4)	49a
1939–1948 (ICD-5)	49a, 49b
1949–1957 (ICD-6)	175
1958–1967 (ICD-7)	175.0–175.1, 175.8–175.9
1968–1978 (ICD-8A)	183.0–183.1, 183.9
1979–1998 (ICD-9)	183.0, 183.2–183.5, 183.8–183.9

Results

Death rates for cancer of the ovary, fallopian tube, and broad ligament (hereafter referred to as *ovarian cancer*) significantly increased from the 1930s through the 1950s, leveled off during the 1960s, declined significantly in the 1970s, and leveled off in the 1980s (Figs. 46, 47; Table 26). In the 1990s, ovarian cancer death rates again were significantly declining, by an average of 0.9% per year. Rates peaked in 1969 and 1970, at 10.5 deaths per 100,000; in 1998, the rate was 8.9 deaths per 100,000.

Trends over time in ovarian cancer death rates varied by age (Fig. 48; Tables 27, 28). Rates for the oldest women increased throughout the entire study period, although the rate of increase declined over time from 5.9% per year in the 1940s to 0.5% per year in the 1990s (Table 28). Trends among females ages 75 to 84 years generally increased from the 1930s through the 1980s and were level thereafter. Trends among females ages 65 to 74 years were increasing from the 1930s through the 1950s, level in the 1960s and 1970s, increasing in the 1980s, and decreasing in the 1990s. Patterns among females

younger than age 65 years were similar to trends among females of all ages combined, including increases in the early decades followed by approximately level rates in the 1960s and declines in later decades. From the 1970s through the 1990s, ovarian cancer death rates were significantly decreasing for most women ages 35 to 64 years.

Patterns of age-specific ovarian cancer death rates varied across all seven decades (Figs. 49, 50). The peak age range increased from 65 to 69 years in the 1930s to 80 to 84 years in the 1990s. Across all decades, age-specific rates among females age 70 years and older were progressively higher in each succeeding decade (Fig. 50).

Discussion

Similar patterns of decline in ovarian cancer death rates have been observed among young women internationally.⁸⁰ These decreases may be related to increased use of oral contraceptives, increases in oophorectomy, or changes in treatment protocols. The widespread use of oral contraceptives in the 1960s may have contributed to the declines⁸⁰; the pill has been shown to decrease the risk of ovarian cancer by half, and the protection may last as long as 15 years after discontinuation of use.⁸¹ In addition, from 1988 through 1993, the percentage of females who had a hysterectomy with concomitant bilateral oophorectomy increased significantly, thereby reducing the number of females at risk of developing ovarian cancer.⁸²

Changes over time in how ovarian cancer is diagnosed and treated also may have influenced trends in ovarian cancer death rates. Improved access to care, tumor visualization, and consequent microscopic confirmation of disease may have contributed to decreasing rates among young females.⁸⁰ Compared with diagnoses made in earlier time periods, more aggressive diagnosis and treatment in recent decades probably occurred at an earlier stage of disease, leading to better survival. Improvements in treating germ cell tumors, the predominant type of ovarian cancer in women younger than age 45 years, also may have played a role.

In contrast, the increasing trends in ovarian cancer death rates among older females may be related to stage of disease at diagnosis and to changes in fertility patterns during the first half of the 20th century. Diagnoses of ovarian cancer among older women usually occur at a more advanced stage and thus may contribute to the still-increasing trends at these ages.⁸³

Moreover, low parity has been associated with an increased risk of developing and dying of ovarian can-

cer,^{84–86} and in the United States, from the mid-1910s to the mid-1940s (before the introduction of oral contraceptives), fertility declined from approximately 3.5 to 2 children per woman.⁸⁷

Cancer of the Pancreas

Year (ICD Version)	ICD Codes
1930–1938 (ICD-4)	46f
1939–1948 (ICD-5)	46g
1949–1957 (ICD-6)	157
1958–1967 (ICD-7)	157–
1968–1978 (ICD-8A)	157.0, 157.8–157.9
1979–1998 (ICD-9)	157.0–157.4, 157.8–157.9

Results

Pancreatic cancer death rates among males increased significantly from the 1930s through the 1960s, were stable in the 1970s, and declined significantly beginning in the 1980s (Figs. 51, 52; Table 29). The rate peaked in 1968, at 14.2 per 100,000; in 1998, the rate was 12.3 per 100,000. Pancreatic cancer death rates among females increased significantly from the 1930s through the 1970s and appeared to be level during the 1980s and 1990s. In 1998, the rate among females was 9.3 per 100,000.

Trends over time varied by age among males (Fig. 53; Tables 30, 31). Pancreatic death rates for men younger than age 45 years remained low throughout the 7 decades (Table 30). For males ages 45 to 79 years, rates generally increased from the 1930s through the 1960s and then leveled off, with significant declines in some age groups in subsequent decades. For males age 80 years and older, steep increasing trends in the early decades were followed by a slower but still upward progression into the 1970s and 1980s, followed by a subsequent leveling off.

Declines in pancreatic cancer death rates were not observed for as many age groups among females compared with what was seen among males (Fig. 54; Tables 31, 32). For women younger than age 45 years, rates remained low throughout the study period (Table 32). Among females ages 45 to 59 years, rates appeared to increase from the 1930s through the 1950s or 1960s and then declined from the 1970s into the 1990s; in general, trends were not statistically significant. Rates for females ages 60 to 69 years increased from the 1930s through the 1960s, followed by a leveling of death rates through the 1990s. Rates for females ages 70 to 79 years old showed a steady upward progression from the 1930s through the 1950s, a slower, nonsignificant upward progression during the 1960s through the 1980s, and a leveling off in the 1990s. For females age 80 years and older, rates gen-

erally increased throughout the study period, except in the 1960s.

Patterns of age-specific pancreatic cancer death rates varied by gender across all seven decades (Figs. 55–58). Among males, age-specific rates in a specific decade generally were higher in each successive decade from the 1930s through the 1950s; in later decades, patterns in age-specific rates across decades were more variable (Fig. 56). Among females, age-specific rates generally were higher in each successive decade (Fig. 58). For both genders, rates peaked at ages 80 to 84 years in the 1940s and at age 85 years and older from the 1960s through the 1990s (Figs. 55, 57).

Discussion

The single most consistent risk factor for pancreatic cancer is cigarette smoking.^{88–90} Per capita cigarette consumption in the United States increased dramatically in the 1940s, peaked in 1963, and then decreased after publication of the first U.S. Surgeon General's report in 1964, which linked cigarette smoking to lung cancer.^{75,91} (The 1989 Surgeon General's report mentions the relationship between smoking and other site-specific cancers, including cancer of the pancreas.⁷⁵) Although different in magnitude, the patterns for male and female pancreatic cancer death rates are similar to those for lung cancer death rates. Cigarette smoking peaked among males before it did among females; the subsequent declines in smoking may explain some of the recent decline in pancreatic cancer death rates among males and the stabilization of rates among females. However, the reasons for the downturn in male pancreatic cancer rates, which began in the 1960s, are not understood fully; smoking prevalence in males was only beginning to decline at that time.³⁹ Other factors that may increase the risk of pancreatic cancer include alcohol,⁹² diet,⁸⁸ and a history of diabetes mellitus.⁹³

Pancreatic cancer is difficult to diagnose. In addition to the possible effects of smoking, the increasing trends observed among females over all 7 decades and among males from the 1930s through the 1960s may be related to greater accuracy in diagnosis, as evidenced through increases in microscopically confirmed cases during this time.⁴³

The occurrence of pancreatic cancer varies 30-fold internationally.⁸⁹ The highest death rates occur in Northern Europe and the United States, and the lowest rates occur in Asia. Mortality rates in Japan currently are comparable to rates in Western countries.

Cancer of the Prostate

Year (ICD Version)	ICD Codes
1930–1938 (ICD-4)	51c
1939–1948 (ICD-5)	51b
1949–1957 (ICD-6)	177
1958–1967 (ICD-7)	177–
1968–1978 (ICD-8A)	185_
1979–1998 (ICD-9)	185_

Results

Prostate cancer death rates increased significantly in the 1930s and 1940s, were level in the next 2 decades, and increased again in the 1970s and 1980s before reversing to decline significantly in the 1990s (Figs. 59, 60; Table 33).

Trends over time in prostate cancer mortality varied by age (Fig. 61; Tables 34, 35). In the 1930s, prostate cancer death rates were significantly increasing among males ages 50 to 54 years and age 60 years and older (Table 35). In the 1940s, rates increased significantly among males age 75 years and older. No clear age-specific patterns were observed from the 1950s through the 1960s. In the 1970s, prostate cancer rates were significantly increasing among males age 80 years and older, but in the 1980s, the age range of significantly increasing rates was markedly expanded—rates were significantly increasing among males age 55 years and older. However, between 1990 and 1998, prostate cancer death rates reversed to decline significantly in all age groups that had experienced increasing rates in the 1980s, except for the oldest age group.

In all 7 decades, prostate cancer death rates increased with age; that is, the peak age range at death was 85 years and older (Figs. 62, 63). Except for the oldest age groups (80 to 84 years and 85 years and older), rates at specific ages did not change appreciably over time (Fig. 63).

Discussion

The etiology of prostate cancer is not well understood but has been postulated to be related to hormonal factors, family history, and diet.⁹⁴ Understanding the influence of specific factors on trends in prostate cancer death rates is challenging, and specific temporal trends may be related to screening, treatment, and other factors.^{95–101}

Interpretations regarding the effects of screening on the recent declines in prostate cancer mortality have been controversial.^{96–100} Declining trends in the incidence of late-stage disease^{96,97} and increasing trends in local/regional-stage disease⁹⁷ may be related to screening, treatment, misclassification of cause of death, or other factors. The recent decline, however, could occur only with very short lead times and there-

fore probably cannot be explained by screening.⁹⁸ In addition, the regions of the United States with the greatest decreases in prostate cancer mortality appear to be the ones with relatively low use of screening,⁹⁹ and mortality trends in several countries are inconsistent with an effect of screening.^{100,101}

The influence of treatment such as radiation, brachytherapy, cryotherapy, and nerve-sparing radical prostatectomy on mortality and quality of life are similarly unclear.^{46,96} Substantial evidence for use of androgen suppression therapies in treating late-stage prostate cancer is available from clinical trials,¹⁰¹ and the adoption of these treatments may have contributed to recent declines in prostate cancer death rates.

Finally, the declines may be an artifact resulting from the misattribution of cause of death.⁹⁸ Attribution bias could have occurred if the cause of death was labeled incorrectly as prostate cancer for men with a recent diagnosis who should have been coded as dying of other causes. A fixed proportion of cases with misattributed causes of death would result in a mortality pattern that approximately corresponded to the incidence pattern of an increase followed by a decline in the 1990s.

Cancer of the Stomach

Year (ICD Version)	ICD Codes
1930–1938 (ICD-4)	46b
1939–1948 (ICD-5)	46b
1949–1957 (ICD-6)	151
1958–1967 (ICD-7)	151-
1968–1978 (ICD-8A)	151.0–151.1, 151.8–151.9
1979–1998 (ICD-9)	151.0–151.6, 151.8–151.9

Results

Over the 7 decades of the study, stomach cancer death rates among males declined significantly, by 85% (from 46.3 per 100,000 in 1930 to 6.8 per 100,000 in 1998) (Fig. 64; Table 36). The largest declines occurred during the 1950s (3.6% per year) and 1960s (4.1% per year) (Fig. 65). Similarly, stomach cancer death rates for females decreased significantly, by 90%, over the same time period, from 35.2 per 100,000 in 1930 to 3.4 per 100,000 in 1998 (Fig. 64; Table 36). The largest declines in female stomach cancer death rates occurred during the 1950s (−4.4% per year) and 1960s (−4.5% per year) (Fig. 65).

For both genders, trends in stomach cancer death rates decreased for all age groups throughout the study period (Figs. 66, 67; Tables 37–39). With few exceptions, the rates of decline were statistically significant for all age groups in each decade (Table 38).

The rates for males ages 80 to 84 years were higher than the rates for males age 85 years and older from 1940 through 1944, similar from 1945 through 1954, and lower for the remainder of the study period (Fig. 66). The rates of decline among males and females were greater in the earlier decades than in later decades.

Patterns of age-specific death rates for stomach cancer in males and females varied across all seven decades (Figs. 68–71). Among males, the peak age range increased from 80 to 84 years in the 1940s to 85 years and older beginning in the 1950s (Fig. 68). Among females, the peak age range remained consistent at age 85 years and older from the 1940s onward (Fig. 70). Age-specific rates for a given decade generally were lower than the rates for the same ages in the previous decade (Figs. 69, 71).

Discussion

Declining stomach cancer incidence and death rates have been observed internationally.¹⁰² The rapid decline in rates suggests an influence of primarily environmental rather than genetic factors.¹⁰³ Findings from migrant studies, in which second-generation migrants have stomach cancer rates similar to the rates observed in the host country rather than in their native country, provide further evidence of an environmental influence.¹⁰³ Additionally, healthier eating habits (e.g., increased fruit and vegetable consumption, decreased consumption of foods preserved with salt or by smoking), decreases in salt intake, and widespread availability of refrigeration may have contributed to declines in stomach cancer death rates.¹⁰² In addition, rates of *Helicobacter pylori* infection, a cause of chronic active gastritis and a contributing factor in the development of stomach cancer, have been reduced by improved sanitation and more adequate housing.¹⁰⁴

Cancer of the Uterus

Year (ICD Version)	ICD Codes
1930–1938 (ICD-4)	48, 55b
1939–1948 (ICD-5)	48a, 48b
1949–1957 (ICD-6)	171, 172, 173, 174
1958–1967 (ICD-7)	171-, 172-, 173-, 174-
1968–1978 (ICD-8A)	180_, 181_, 182.0, 182.9
1979–1998 (ICD-9)	179_, 180.0–180.1, 180.8–180.9, 181_, 182.0–182.1, 182.8

Results

Death rates for cancer of the uterine cervix, corpus, and uterus not otherwise specified (hereafter referred to as *uterus*) declined dramatically over time; rates in the 1930s (36.3 per 100,000 in 1930) were 5 times higher than rates in the 1990s (7.2 per 100,000 in 1998)

(Fig. 72; Table 40). The largest changes in rates occurred during the 1950s (-3.1% per year), 1960s (-3.5% per year), and 1970s (-3.6% per year) (Fig. 73).

Trends in rates varied over time by age. Rates declined significantly in nearly all females age 25 years and older from the 1940s through the 1980s (Fig. 74; Tables 41, 42). In the 1990s, rates declined among females age 30 years and older, but the declines were statistically significant only for those ages 30 to 44, 50 to 59, and 65 to 79 years. Uterine cancer death rates increased by 3.1% per year from 1990 through 1998 for females ages 25 to 29 years, although the trend was not statistically significant.

Patterns of age-specific death rates for uterine cancers varied across all seven decades (Figs. 75, 76). The peak age was 80 to 84 years in the 1940s and 85 years and older beginning in the 1950s. Throughout the study period, age-specific rates in each successive decade were lower than in the previous decade (Fig. 76). During the 1930s, females younger than age 45 years had rates that were less than 20 per 100,000; by the 1990s, females younger than age 65 years had rates that were less than 20 per 100,000.

Discussion

Although the risk factors, etiology, and prevention strategies for cervical cancer are different than those for cancer of the uterine corpus, mortality due to these cancers (plus uterus not otherwise specified) was combined in the current analysis, because separating causes of death reported with respect to these sites was not possible in the early decades. It is noteworthy that the proportion of uterine cancers not specifically categorized as cervix or corpus on death certificates affects the magnitude of the rates for uterine cervix and corpus, although the proportion of tumors not specified as one or the other has decreased markedly over time.⁴⁶

Mortality due to cancers of the uterine cervix and corpus has been declining since the late 1940s.^{42,43} Joinpoint analyses demonstrated that cervical cancer mortality rates declined significantly, by 4.6% per year from 1973 through 1982 and by 1.6% per year from 1982 through 1997; the average annual decline of 5.4% from 1997 to 1999 was not statistically significant.⁶ Also, death rates due to cancer of the uterine corpus (also called endometrial cancer) declined significantly, by 1.6% per year from 1973 through 1989 and by 0.4% per year from 1989 through 1999.⁶ Joinpoint analyses of this time interval by age revealed that the largest decrease occurred among women younger than age 50 years from 1973 through 1985 (rate of decrease, 5.0% per year).

The overall decline in death rates for cervical cancer probably is attributable primarily to the introduc-

tion of the Papanicolaou (Pap) test in the 1950s and its subsequent broad use, which resulted in increased detection of precancerous lesions of the cervix and earlier detection of invasive tumors.¹⁰⁵ A similar early detection tool does not exist for endometrial cancer, but improved treatment methods over time may have influenced the declining trends in endometrial cancer death rates.¹⁰⁶

Exogenous hormones may have influenced trends in uterine cancer mortality rates. Widespread introduction of oral contraceptives during the 1960s may have played a role in the decreases in endometrial cancer death rates in recent decades.¹⁰⁶ Oral contraceptive use decreases the risk of developing endometrial cancer by half, and this protection lasts at least 15 years after use is stopped.¹⁰⁷ The literature regarding the relationship between the pill and cervical cancer has been more difficult to assess,¹⁰⁸ but widespread pill use probably did not have a large impact on cervical cancer trends.

Similarly, estrogen replacement therapy did not appear to have a large effect on trends in endometrial cancer mortality. Although a trend of increasing endometrial cancer incidence followed the trend of increasing use of estrogen replacement therapy, particularly among perimenopausal and postmenopausal women, there was not a concomitant increase in endometrial cancer mortality.¹⁰⁶

The slowing in the rate of decline in uterine cancer death rates during the 1980s and 1990s may have been influenced by the steadily high prevalence of Pap smear screening in the population in the 1990s¹⁰⁹ and by approximately level rates of hysterectomy.⁸² Hysterectomy is one of the most frequently performed surgeries among U.S. females,^{82,110} and it reduces the number of women who are at risk for developing this cancer.

REFERENCES

1. Muir CS, Fraumeni JF Jr., Doll R. The interpretation of time trends. In: Doll R, Fraumeni JF Jr., Muir CS, editors. Trends in cancer incidence and mortality. Plainview (NY): Cold Spring Harbor Laboratory Press, 1994.
2. Burns DM, Lee L, Shen LZ, et al. Cigarette smoking behavior in the United States. In: Smoking and Tobacco Control Program, National Cancer Institute, editor. Changes in cigarette-related disease risks and their implication for prevention and control. Smoking and Tobacco Control Monograph No. 8. Bethesda: National Cancer Institute, 1997.
3. Koh HK. The end of the "tobacco and cancer" century [editorial]. *J Natl Cancer Inst.* 1999;9:660-661.
4. Correa P, Chen VW. Gastric cancer. In: Doll R, Fraumeni JF Jr., Muir CS, editors. Trends in cancer incidence and mortality. Plainview (NY): Cold Spring Harbor Laboratory Press, 1994.
5. Ernster VL, Barclay J, Kerlikowske K, Grady D, Henderson C. Incidence of and treatment for ductal carcinoma in situ of the breast. *JAMA.* 1996;275:913-918.

6. Ries LAG, Eisner MP, Kosary CL, et al., editors. SEER cancer statistics review, 1973–1999. Bethesda: National Cancer Institute, 2002.
7. Ries LAG, Smith MA, Gurney JG, et al., editors. Cancer incidence and survival among children and adolescents: United States SEER Program 1975–1995. Bethesda: National Cancer Institute, 2000.
8. American Cancer Society. Cancer facts & figures 1963. Atlanta: American Cancer Society, 1963.
9. American Cancer Society. Cancer facts & figures 2003. Atlanta: American Cancer Society, 2003.
10. U.S. Department of Commerce, Bureau of the Census. Mortality statistics. Washington: U.S. Government Printing Office, 1930–1936.
11. U.S. Department of Commerce, Bureau of the Census. Vital statistics of the United States, Part I. Washington: Government Printing Office, 1937–1944.
12. Federal Security Agency, Public Health Service, National Office of Vital Statistics. Vital statistics of the United States, Part I. Washington: Government Printing Office, 1945–1949.
13. U.S. Department of Health, Education, and Welfare, Public Health Service, National Office of Vital Statistics. Vital statistics of the United States. Volume II. Washington: Government Printing Office, 1950–1959.
14. Centers for Disease Control and Prevention, National Center for Health Statistics. Multiple cause of death public use data files. Hyattsville (MD): National Center for Health Statistics, 1960–1998.
15. U.S. Department of Commerce, Bureau of the Census. Manual of the International List of Causes of Death based on the Fourth Decennial Revision by the International Commission. Washington: U.S. Government Printing Office, 1931.
16. U.S. Department of Commerce, Bureau of the Census. Manual of the International List of Causes of Death (5th edition) and Joint Causes of Death (4th edition). Washington: U.S. Government Printing Office, 1939.
17. World Health Organization. Manual of the International Statistical Classification of Diseases, Injuries, and Causes of Death, Sixth Revision of the International Lists of Diseases and Causes of Death, adopted 1948. Volume 1. Geneva: World Health Organization, 1948.
18. World Health Organization. Manual of the International Classification of Diseases, Injuries, and Causes of Death, based on the recommendations of the Seventh Revision Conference, 1955, and adopted by the Ninth World Assembly under the WHO Nomenclature Regulations. Volume 1. Geneva: World Health Organization, 1957.
19. U.S. Department of Health and Welfare, National Center of Health Statistics. Manual of the International Statistical Classification of Diseases, Injuries, and Causes of Death, adapted for use in the United States, Eighth Revision. Volume 1. Washington: U.S. Government Printing Office, 1967.
20. 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.
21. U.S. Bureau of the Census. Estimates of population of the United States, by age, race, and sex: 1900 to 1979 for Series PE-11 [computer file]. Sent on diskette by the U.S. Bureau of the Census [received April 25, 1995].
22. U.S. Bureau of the Census. Estimates of the population of the United States, by single years of age, color, and sex: 1900 to 1959. Current Population Reports Series P-25, No. 311. Washington: U.S. Government Printing Office, 1965.
23. U.S. Bureau of the Census. Estimates of the population of the United States, by age, sex, and race: April 1, 1960 to July 1, 1973. Current Population Reports Series P-25, No. 519. Washington: U.S. Government Printing Office, 1974.
24. 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, 1982.
25. U.S. Bureau of the Census. U.S. population estimates, by age, sex, race, and Hispanic origin: 1980 to 1991. Current Population Reports series P25-1095. Washington: U.S. Government Printing Office, 1993.
26. U.S. Bureau of the Census. U.S. monthly population estimates by single year of age, sex, race, and Hispanic origin, 1990 to 1998 [monograph online]. Available from URL: <http://www.census.gov/population/www/estimates/uspope.html> [accessed February 27, 2001].
27. Fleiss JL. Statistical methods for rates and proportions (2nd edition). New York: John Wiley & Sons, 1981.
28. Anderson RN, Rosenberg HM. Age standardization of death rates: implementation of the year 2000 standard. *Natl Vital Stat Rep.* 1998;47:1–16, 20.
29. Kleinbaum DG, Kupper LL, Muller KE. Applied regression analysis and other multivariable methods, second edition. Boston: PWS-Kent, 1988.
30. U.S. Vital Statistics System. History and organization of the vital statistics system. Volume 1. Hyattsville (MD): U.S. Vital Statistics System, 1950:1–19.
31. Hetzel AM. U.S. Vital Statistics System, major activities and developments, 1950–95. Hyattsville (MD): Centers for Disease Control and Prevention, National Center for Health Statistics, 1997.
32. Anderson RN, Minino SM, Hoyert DL, Rosenberg HM. Comparability of cause of death between ICD-9 and ICD-10: preliminary estimates. *Natl Vital Stat Rep.* 2001;49:1–31.
33. Kochanek KD, Smith BL, Anderson RN. Deaths: preliminary data for 1999. *Natl Vital Stat Rep.* 2001;49:1–49.
34. Faust MM, Dolman AB. Comparability ratios based on mortality statistics for the Fifth and Sixth Revisions: United States, 1950. Vital statistics—special reports. Volume 51, No. 3. Washington: Public Health Service, 1964.
35. Faust MM, Dolman AB. Comparability of mortality statistics for the Sixth and Seventh Revisions: United States, 1958. Vital statistics—special reports. Volume 51, No. 4. Washington: Public Health Service, 1965.
36. Klebba AJ. 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. Washington: National Center for Health Statistics, 1975.
37. Klebba AJ. 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. Volume 28, No. 11 [supplement]. Hyattsville (MD): National Center for Health Statistics, 1980.
38. Chen VW, Wu XC, editors. Cancer in North America, 1991–1995. Volume Two, Mortality. Sacramento: North American Association of Central Cancer Registries, 1999.
39. Wingo PA, Ries LAG, Giovino GA, et al. Annual report to the nation on the status of cancer, 1973–1996, with a special section on lung cancer and tobacco smoking. *J Natl Cancer Inst.* 1999;91:675–690.

40. Howe HL, Wingo PA, Thun MJ, et al. Annual report to the nation on the status of cancer (1973–1998), featuring cancers with recent increasing trends. *J Natl Cancer Inst.* 2001; 93:824–842.
41. Smigel K. Breast cancer death rates decline for white women. *J Natl Cancer Inst.* 1995;87:173.
42. Ries LAG, Wingo PA, Miller DS, et al. The annual report to the nation on the status of cancer, 1973–1997, with a special section on colorectal cancer. *Cancer.* 2000;88:2398–2424.
43. Devesa SS, Silverman DT, Young JL, et al. Cancer incidence and mortality trends among whites in the United States, 1947–84. *J Natl Cancer Inst.* 1987;79:701–770.
44. Kelsey JL, Horn-Ross PL. Breast cancer: magnitude of the problem and descriptive epidemiology [review]. *Epidemiol Rev.* 1993;15:7–16.
45. Tarone RE, Chu KC. Implications of birth cohort patterns in interpreting trends in breast cancer rates. *J Natl Cancer Inst.* 1992;84:1402–1410.
46. Wingo PA, Ries LAG, Rosenberg HM, Miller DS, Edwards BK. Cancer incidence and mortality, 1973–1995: a report card for the U.S. *Cancer.* 1998;82:1197–1207.
47. Miller BA, Ries LAG, Hankey BF, Kosary CL, Edwards BK, editors. Cancer statistics review: 1973–1989. Bethesda: National Cancer Institute, 1992.
48. Chu KC, Tarone RE, Kessler LG, et al. Recent trends in U.S. breast cancer incidence, survival, and mortality. *J Natl Cancer Inst.* 1996;88:1571–1579.
49. Henderson BE, Pike MC, Bernstein L, Ross RK. Breast cancer. In: Schottenfeld D, Fraumeni JF Jr., editors. Cancer epidemiology and prevention. New York: Oxford University Press, 1996.
50. Parkin DM, Pisani P, Ferlay J. Global cancer statistics. *CA Cancer J Clin.* 1999;49:33–64.
51. Ferlay J, Parkin DM, Pisani P. GLOBOCAN: cancer incidence and mortality worldwide, Version 1.0 [monograph online]. Available from URL: <http://www-dep.iarc.fr/resour/globo2000sof.htm> [accessed January 2000].
52. National Cancer Institute. Colon cancer (PDQ®) treatment—health professionals [monograph online]. Available from URL: http://cancernet.nci.nih.gov/pdq/pdq_treatment.shtml [accessed January 1, 2000].
53. NIH Consensus Conference. Adjuvant therapy for patients with colon and rectal cancer. *JAMA.* 1990;264:1444–1450.
54. Winawer SJ, Zauber AG, Ho MN, et al. Prevention of colorectal cancer by colonoscopic polypectomy. *N Engl J Med.* 1993;329:1977–1981.
55. Lynch HT, Lynch JF. Genetics of colonic cancer. *Digestion.* 1998;59:481–492.
56. Popkin BM, Siega-Riz AM, Haines PS. A comparison of dietary trends among racial and socioeconomic groups in the United States. *N Engl J Med.* 1996;335:716–720.
57. Thun MJ, Namboodiri MM, Heath CW Jr. Aspirin use and reduced risk of fatal colon cancer. *N Engl J Med.* 1991;325: 1593–1596.
58. Slattery ML. Diet, lifestyle, and colon cancer. *Semin Gastrointest Dis.* 2000;11:142–146.
59. Marrett LD, Theis B, Ashbury FD. Workshop report: physical activity and cancer prevention. *Chronic Dis Can.* 2000; 21:143–149.
60. Calle EE, Miracle-McMahill HL, Thun MJ, Heath CW Jr. Estrogen replacement therapy and risk of fatal colon cancer in a prospective cohort of postmenopausal women. *J Natl Cancer Inst.* 1995;87:517–523.
61. Scalley EK, Henrich JB. An overview of estrogen replacement therapy in postmenopausal women. *J Womens Health.* 1993;2:289–294.
62. Chrischilles EA, Lemke JH, Wallace RB, Drube GA. Prevalence and characteristics of multiple analgesic drug use in an elderly study group. *J Am Geriatr Soc.* 1990;38:979–984.
63. Haenszel W, Kurihara M. Studies of Japanese migrants. I. Mortality from cancer and other diseases among Japanese in the United States. *J Natl Cancer Inst.* 1968;40:43–68.
64. McMichael AJ, McCall MG, Hartshorne JM, Woodings TL. Patterns of gastro-intestinal cancer in European migrants to Australia: the role of dietary change. *Int J Cancer.* 1980; 25:431–437.
65. Linet MS, Cartwright RA. The leukemias. In: Schottenfeld D, Fraumeni JF Jr., editors. Cancer epidemiology and prevention. New York: Oxford University Press, 1996.
66. Kinlen LJ. Leukaemia. In: Doll R, Fraumeni JF Jr., Muir CS, editors. Trends in cancer incidence and mortality. Plainview (NY): Cold Spring Harbor Laboratory Press, 1994.
67. Groves FD, Linet MS, Devesa SS. Patterns of occurrence of the leukaemias. *Eur J Cancer.* 1995;31A:941–949.
68. Groves FD, Linet MS, Devesa SS. Epidemiology of leukemia: overview and patterns of occurrence. In: Henderson ES, Lister TA, Greaves MF, editors. Leukemia (6th edition). Philadelphia: W.B. Saunders Company, 1996.
69. London WT, McGlynn KA. Liver cancer. In: Schottenfeld D, Fraumeni JF Jr., editors. Cancer epidemiology and prevention. New York: Oxford University Press, 1996.
70. Fraumeni JF Jr., Devesa SS, McLaughlin JK, Stanford JL. Biliary tract cancer. In: Schottenfeld D, Fraumeni JF Jr., editors. Cancer epidemiology and prevention. New York: Oxford University Press, 1996.
71. Rosenblatt KA, Weiss NS, Schwartz SM. Liver cancer in Asian migrants to the United States and their descendants. *Cancer Causes Control.* 1996;7:345–350.
72. Greenfield TK, Midanik LT, Rogers JD. A 10-year national trend study of alcohol consumption, 1984–1995: is the period of declining drinking over? *Am J Public Health.* 2000;90:47–52.
73. Stuver SO, Trichopoulos D. Liver cancer. In: Doll R, Fraumeni JF Jr., Muir CS, editors. Trends in cancer incidence and mortality. Plainview (NY): Cold Spring Harbor Laboratory Press, 1994.
74. U.S. Department of Health and Human Services. The health consequences of smoking: cancer. A report of the Surgeon General. Rockville (MD): U.S. Department of Health and Human Services, Public Health Service, Office on Smoking and Health, 1982.
75. U.S. Department of Health and Human Services. Reducing the health consequences of smoking: 25 years of progress. A report of the Surgeon General. Rockville (MD): Centers for Disease Control and Prevention, Center for Chronic Disease Prevention and Health Promotion, Office on Smoking and Health, 1989.
76. Samet JM, editor. Epidemiology of lung cancer. New York: Marcel Dekker, 1994.
77. Shopland DR. Tobacco use and its contribution to early cancer mortality with a special emphasis on cigarette smoking. *Environ Health Perspect.* 1995;103(Suppl 8):131–142.
78. Tolley HD, Crane L, Shipley N. Smoking prevalence and lung cancer death rates. In: Smoking and Tobacco Control Program, National Cancer Institute, editor. Strategies to control tobacco use in the United States—a blueprint for public health action in the 1990s. Smoking and Tobacco Control Monograph No. 1. Bethesda: National Cancer Institute, 1991.

79. U.S. Department of Health and Human Services. Preventing tobacco use among young people: a report of the Surgeon General. Atlanta: Centers for Disease Control and Prevention, National Center for Chronic Disease Prevention and Health Promotion, Office on Smoking and Health, 1994.
80. Mant JWF, Vessey MP. Ovarian and endometrial cancers. In: Doll R, Fraumeni JF Jr., Muir CS, editors. Trends in cancer incidence and mortality. Plainview (NY): Cold Spring Harbor Laboratory Press, 1994.
81. The Cancer and Steroid Hormone Study of the Centers for Disease Control and the National Institute of Child Health and Human Development. The reduction in risk of ovarian cancer associated with oral contraceptive use. *N Engl J Med*. 1987;316:650–655.
82. Lepine LA, Hillis SD, Marchbanks PA, et al. Hysterectomy surveillance—United States, 1980–1993. *MMWR CDC Surveill Summ*. 1997;46:1–15.
83. Yancik R. Ovarian cancer, age contrasts in incidence, histology, disease stage at diagnosis, and mortality [review]. *Cancer*. 1993;71:517–523.
84. dos Santos Silva I, Swerdlow AJ. Recent trends in incidence of and mortality from breast, ovarian, and endometrial cancers in England and Wales and their relation to changing fertility and oral contraceptive use. *Br J Cancer*. 1995;72:485–492.
85. Koper NP, Kiemeny LALM, Massuger LFAG, Thomas CMG, Schijf CPT, Verbeek ALM. Ovarian cancer incidence (1989–1991) and mortality (1954–1993) in the Netherlands. *Obstet Gynecol*. 1996;88:387–393.
86. Nagy S, Ming EE, Devesa SS, Hartge P, Whittemore AS. Declining ovarian cancer rates in U.S. women in relation to parity and oral contraceptive use. *Epidemiology*. 2000;11:102–105.
87. Centers for Disease Control and Prevention. Achievements in public health, 1900–1999: family planning. *MMWR Morb Mortal Wkly Rep*. 1999;48:1073–1080.
88. Howe GR. Pancreatic cancer. In: Doll R, Fraumeni JF Jr., Muir CS, editors. Trends in cancer incidence and mortality. Plainview (NY): Cold Spring Harbor Laboratory Press, 1994.
89. Anderson KE, Potter JD, Mack TM. Pancreatic cancer. In: Schottenfeld D, Fraumeni JF Jr., editors. Cancer epidemiology and prevention. New York: Oxford University Press, 1996.
90. Tominaga S, Kuroishi T. Epidemiology of pancreatic cancer. *Semin Surg Oncol*. 1998;15:3–7.
91. Giovino GA, Schooley MW, Zhu B-P, et al. Surveillance for selected tobacco-use behaviors—United States, 1900–1994. *MMWR CDC Surveill Summ*. 1994;43:1–43.
92. Zheng W, McLaughlin JK, Gridley G, et al. A cohort study of smoking, alcohol consumption, and dietary factors for pancreatic cancer. *Cancer Causes Control*. 1993;4:477–482.
93. Calle EE, Murphy TK, Rodriguez C, Thun MJ, Heath CW Jr. Diabetes mellitus and pancreatic cancer mortality in a prospective cohort of United States adults. *Cancer Causes Control*. 1998;9:403–410.
94. Ross RK, Schottenfeld D. Prostate cancer. In: Schottenfeld D, Fraumeni JF Jr., editors. Cancer epidemiology and prevention. New York: Oxford University Press, 1996.
95. Devesa SS, Blot WJ, Stone BJ, Miller BA, Tarone RE, Fraumeni JF Jr. Recent cancer trends in the United States. *J Natl Cancer Inst*. 1995;87:175–182.
96. Hankey BF, Feuer EJ, Clegg LX, et al. Cancer surveillance series: interpreting trends in prostate cancer. Part I. Evidence of the effects of screening in recent prostate cancer incidence, mortality, and survival rates. *J Natl Cancer Inst*. 1999;91:1017–1024.
97. Feuer EJ, Merrill RM, Hankey BF. Cancer surveillance series: interpreting trends in prostate cancer. Part II. Cause of death misclassification and the recent rise and fall in prostate cancer mortality. *J Natl Cancer Inst*. 1999;91:1025–1032.
98. Etzioni R, Legler JM, Feuer EJ, Merrill RM, Cronin KA, Hankey BF. Cancer surveillance series: interpreting trends in prostate cancer. Part III. Quantifying the link between population prostate-specific antigen testing and recent declines in prostate cancer mortality. *J Natl Cancer Inst*. 1999;91:1033–1039.
99. Brawley OW. Prostate carcinoma incidence and patient mortality. *Cancer*. 1997;85:840–842.
100. Wilt TJ. Prostate carcinoma practice patterns: what do they tell us about the diagnosis, treatment, and outcomes of patients with prostate carcinoma? *Cancer*. 2000;88:1277–1281.
101. Oliver SE, May MT, Gunnell D. International trends in prostate-cancer mortality in the “PSA era.” *Int J Cancer*. 2001;92:893–898.
102. Nomura AMY. Stomach cancer. In: Schottenfeld D, Fraumeni JF Jr., editors. Cancer epidemiology and prevention. New York: Oxford University Press, 1996.
103. Howson CP, Hiyama T, Wynder EL. The decline in gastric cancer: epidemiology of an unplanned triumph [review]. *Epidemiol Rev*. 1986;8:1–27.
104. Correa P. Human gastric carcinogenesis: a multistep and multifactorial process—First American Cancer Society Award Lecture on Cancer Epidemiology and Prevention. *Cancer Res*. 1992;52:6735–6740.
105. Schiffman MH, Brinton LA, Devesa SS, Fraumeni JF Jr. Cervical cancer. In: Schottenfeld D, Fraumeni JF Jr., editors. Cancer epidemiology and prevention. New York: Oxford University Press, 1996.
106. Grady D, Ernster VL. Endometrial cancer. In: Schottenfeld D, Fraumeni JF Jr., editors. Cancer epidemiology and prevention. New York: Oxford University Press, 1996.
107. The Cancer and Steroid Hormone Study of the Centers for Disease Control and the National Institute of Child Health and Human Development. Combination oral contraceptive use and the risk of endometrial cancer. *JAMA*. 1987;257:796–800.
108. Bernstein L, Henderson BE. Exogenous hormones. In: Schottenfeld D, Fraumeni JF Jr., editors. Cancer epidemiology and prevention. New York: Oxford University Press, 1996.
109. Blackman DK, Bennett EM, Miller DS. Trends in self-reported use of mammograms (1989–1997) and Papanicolaou tests (1991–1997)—Behavioral Risk Factor Surveillance System. *MMWR CDC Surveill Summ*. 1999;48:1–22.
110. Irwin KL, Peterson HB, Hughes JM, Gill SW. Hysterectomy among women of reproductive age, United States, update for 1981–1982. *MMWR Morb Mortal Wkly Rep*. 1986;35:1ss–6ss.

TABLE 1
The 1970 and 2000 U.S. Standard Populations

Age Group (Years)	1970 ^a	2000 ^b
0-4	84,416	69,135
5-9	98,204	72,533
10-14	102,304	73,032
15-19	93,845	72,169
20-24	80,561	66,478
25-29	66,320	64,529
30-34	56,249	71,044
35-39	54,656	80,762
40-44	58,958	81,851
45-49	59,622	72,118
50-54	54,643	62,716
55-59	49,077	48,454
60-64	42,403	38,793
65-69	34,406	34,264
70-74	26,789	31,773
75-79	18,871	26,999
80-84	11,241	17,842
85+	7,435	15,508
All ages	1,000,000	1,000,000

^a The 1970 U.S. standard population includes residents of the 50 states, the District of Columbia, and armed forces overseas.

^b The 2000 U.S. standard population includes residents of the 50 states and the District of Columbia.

TABLE 2
Percent Distribution of Cancer Deaths, by Gender, Decade, and Cancer Site, 1930-1998

Males										
Decade	Colon, Rectum, and Small Intestine	Leukemia	Liver, Gall Bladder, and Biliary Passages	Lung, Bronchus, Trachea, and Pleura	Pancreas	Stomach	Prostate	Uterine cervix, corpus, and not otherwise specified	Ovary, Fallopian Tube, and Broad Ligament	Other ^a
1930s	15.9	3.1	6.9	5.3	3.5	24.6	10.3			30.4
1940s	16.9	4.1	5.2	10.6	4.3	17.9	11.2			29.9
1950s	14.3	5.0	3.5	17.8	5.3	11.5	10.6			32.1
1960s	13.1	4.9	2.9	25.4	5.7	7.1	9.9			31.1
1970s	12.2	4.2	2.4	31.8	5.3	4.6	9.9			29.7
1980s	11.5	3.9	2.3	34.0	4.7	3.4	10.7			29.5
1990s	10.4	3.9	2.8	33.1	4.6	2.9	12.1			30.2
Females										
Breast										
1930s	14.7	2.0	8.0	2.0	2.4	14.5	17.3	20.9	3.6	14.6
1940s	16.6	2.9	6.3	3.0	3.0	10.5	17.9	18.1	4.8	16.8
1950s	16.4	4.0	4.7	3.6	4.0	7.4	18.6	13.4	6.1	21.8
1960s	16.4	4.3	3.8	5.7	5.0	5.2	19.5	10.1	6.5	23.5
1970s	15.7	3.9	3.0	11.2	5.3	3.6	19.5	6.9	6.3	24.6
1980s	13.8	3.7	2.5	17.8	5.4	2.7	18.6	5.0	5.5	25.0
1990s	11.7	3.5	2.6	22.8	5.5	2.2	17.1	4.3	5.3	24.9

^a Other includes buccal cavity and pharynx, esophagus, other digestive tract, larynx, other genital organs, kidney, bladder, skin, brain, bones, and all other undefined sites.

Source: Vital Statistics of the United States [ref. 10-14]; see also *Cautions in the Interpretations of Long-Term Trends Data*.

TABLE 3
Deaths and Death Rates for All Cancer Sites, by Gender and Year of Death, 1930-1998, United States

Year	Males				Females			
	Number		Rate		Number		Rate	
		Crude	1970 ^a	2000 ^b		Crude	1970 ^a	2000 ^b
1930	52,773	88.9	133.9	164.5	63,921	110.3	156.1	189.8
1931	54,058	90.5	134.4	165.5	65,640	112.3	155.8	189.4
1932	56,465	94.0	137.2	168.9	67,910	115.4	157.2	191.3
1933	60,395	95.3	137.8	169.8	71,172	114.4	154.8	188.3
1934	63,510	99.7	141.8	175.0	74,321	118.6	156.9	190.4
1935	64,986	101.4	142.2	175.6	76,215	120.7	157.6	191.8
1936	67,631	104.9	145.1	179.9	78,610	123.6	159.3	194.8
1937	69,573	107.4	146.3	181.2	79,100	123.5	156.5	191.1
1938	72,260	110.8	148.9	184.7	81,080	125.5	156.9	191.7
1939	74,981	114.1	151.2	187.3	83,360	127.9	157.6	192.7
1940	78,409	118.2	155.4	193.3	85,069	129.3	157.6	193.8
1941	79,363	118.6	154.5	192.6	85,766	129.0	154.7	190.0
1942	81,037	119.9	153.8	191.5	87,797	130.5	154.6	190.5
1943	82,595	120.5	153.6	191.8	89,911	131.8	154.5	190.4
1944	85,621	123.4	155.4	193.1	91,490	132.6	153.0	188.2
1945	89,448	127.7	158.8	197.9	94,320	134.9	153.8	189.4
1946	92,656	131.2	161.1	201.0	95,957	135.6	152.9	189.0
1947	97,834	136.0	166.0	207.1	99,270	137.5	154.2	191.1
1948	102,456	140.1	170.1	212.7	102,368	139.3	154.8	191.8
1949	104,032	140.0	167.4	208.1	102,293	136.7	149.7	184.8
1950	106,971	141.7	167.8	208.1	103,762	136.3	147.6	181.9
1951	110,034	143.4	168.7	208.8	105,491	136.1	146.0	180.0
1952	114,807	147.2	172.3	213.1	108,470	137.5	146.3	180.5
1953	118,827	150.0	174.4	215.8	110,252	137.4	144.9	179.0
1954	122,539	152.1	176.0	217.7	112,130	137.2	143.3	176.9
1955	126,268	154.1	177.2	218.9	114,413	137.5	142.3	175.9
1956	130,765	156.9	180.3	223.4	116,592	137.5	141.3	174.5
1957	134,400	158.5	181.4	223.9	118,783	137.5	140.5	173.7
1958	134,778	156.4	178.7	220.5	119,648	136.1	138.2	170.6
1959	139,078	158.7	180.9	223.3	120,969	135.1	136.2	168.0
1960	143,543	161.3	183.9	226.7	124,084	136.4	137.1	169.6
1961	147,157	162.2	184.9	228.5	126,345	135.9	135.4	167.3
1962	150,009	162.9	185.9	229.8	128,553	136.1	134.7	166.2
1963	154,288	165.4	188.9	233.4	131,074	136.6	134.4	166.0
1964	156,913	166.0	189.3	233.4	132,664	136.2	133.1	164.1
1965	161,422	168.8	192.7	238.0	136,166	138.0	133.6	164.7
1966	164,975	170.7	194.6	240.4	138,761	138.8	133.3	164.5
1967	169,164	173.4	197.0	243.4	141,819	140.2	133.3	164.1
1968	173,050	175.8	199.3	246.2	144,415	141.2	133.1	163.8
1969	175,422	176.7	199.9	247.1	146,382	141.6	132.2	162.8
1970	179,383	179.3	202.4	250.0	150,050	143.8	133.2	163.6
1971	183,091	180.3	202.7	251.0	152,914	144.1	132.0	162.1
1972	187,672	182.9	205.0	253.6	156,458	145.8	132.3	162.4
1973	190,487	184.0	205.4	254.8	159,110	146.8	131.8	161.5
1974	195,873	187.6	208.0	258.0	163,088	149.0	132.3	162.1
1975	198,594	188.5	207.3	257.6	165,517	149.6	131.1	160.9
1976	204,534	192.4	210.0	261.3	171,153	153.2	132.6	162.6
1977	209,517	195.2	211.5	263.7	175,388	155.3	132.9	162.9
1978	215,007	198.3	213.4	266.8	180,142	157.8	133.5	163.8
1979	220,015	200.8	214.4	268.2	183,380	158.8	132.8	162.9
1980	225,948	205.3	217.4	272.5	190,561	163.6	135.6	166.6
1981	227,885	204.4	215.1	269.7	194,209	164.6	135.1	165.9
1982	233,864	207.7	217.2	272.9	199,931	167.9	136.5	167.4
1983	238,383	209.8	218.0	274.1	204,603	170.3	137.1	168.3
1984	242,790	211.7	218.8	275.1	210,702	173.9	138.9	170.6
1985	246,914	213.4	219.2	275.7	214,649	175.7	139.3	171.0

(continued)

TABLE 3
(continued)

Year	Males				Females			
	Number	Rate			Number	Rate		
		Crude	1970 ^a	2000 ^b		Crude	1970 ^a	2000 ^b
1986	250,559	214.4	219.2	276.0	218,817	177.5	139.7	171.6
1987	254,653	215.9	219.4	276.4	222,274	178.8	139.6	171.5
1988	258,088	216.7	219.2	276.9	226,960	181.0	140.2	172.5
1989	263,309	218.9	220.2	278.5	232,843	184.0	141.4	174.2
1990	268,283	221.2	221.9	281.5	237,039	185.9	142.1	175.5
1991	272,380	221.5	219.8	279.1	242,277	187.5	142.1	175.6
1992	274,838	220.9	217.4	276.4	245,740	188.2	141.5	175.0
1993	279,375	222.1	216.6	275.8	250,529	189.8	141.6	175.4
1994	280,465	220.8	213.6	272.0	253,845	190.5	141.3	175.2
1995	281,611	219.5	210.2	268.4	256,844	190.9	140.6	174.7
1996	281,898	217.7	206.6	263.7	257,635	189.8	138.9	172.8
1997	281,110	214.9	202.0	258.1	258,467	188.7	137.1	170.9
1998	282,065	213.6	198.5	253.4	259,467	187.7	135.3	169.0

^a Rates are per 100,000 and are age-adjusted to the 1970 U.S. standard population.^b Rates are per 100,000 and are age-adjusted to the 2000 U.S. standard population.Source: Vital Statistics of the United States [ref. 10-14]; see also *Cautions in the Interpretations of Long-Term Trends Data*.

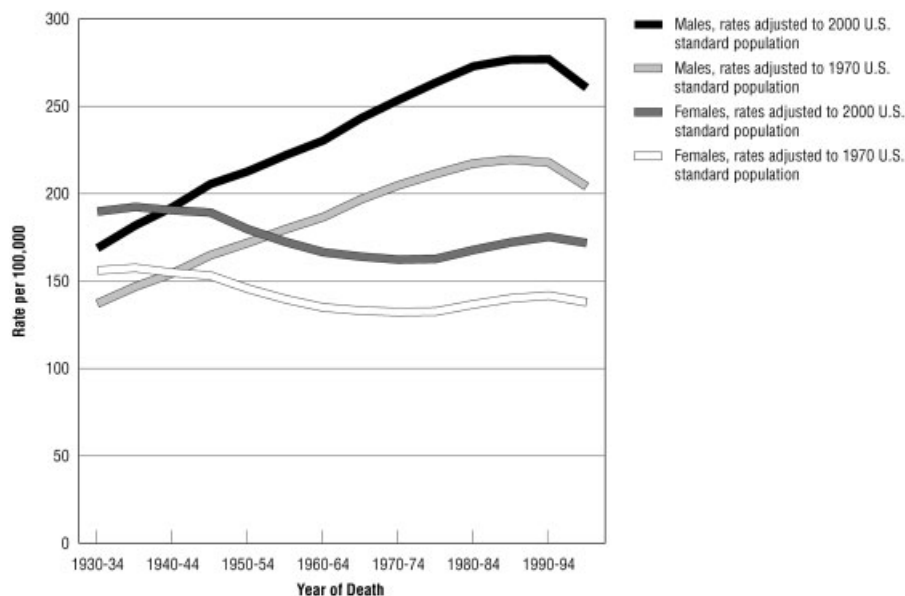


FIGURE 1. Death rates for all cancer sites, by gender and year of death, 1930–1998, United States. Source: *Vital Statistics of the United States*^{10–14}; see also the section entitled “Cautions in the Interpretation of Long-Term Trends Data” in the current article.

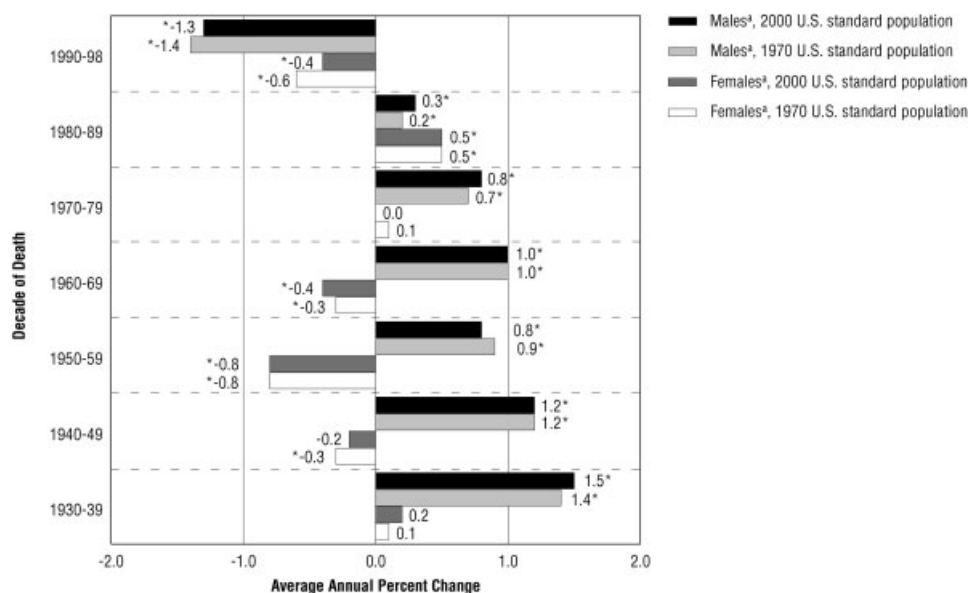


FIGURE 2. Average annual percent change^a in death rates for all cancer sites, by gender and decade of death, 1930–1998, United States. ^aAverage annual percent change is based on rates adjusted to 2000 or 1970 U.S. standard population. *Average annual percent change is significantly different from zero ($p < 0.05$). Source: *Vital Statistics of the United States*^{10–14}; see also the section entitled “Cautions in the Interpretation of Long-Term Trends Data” in the current article.

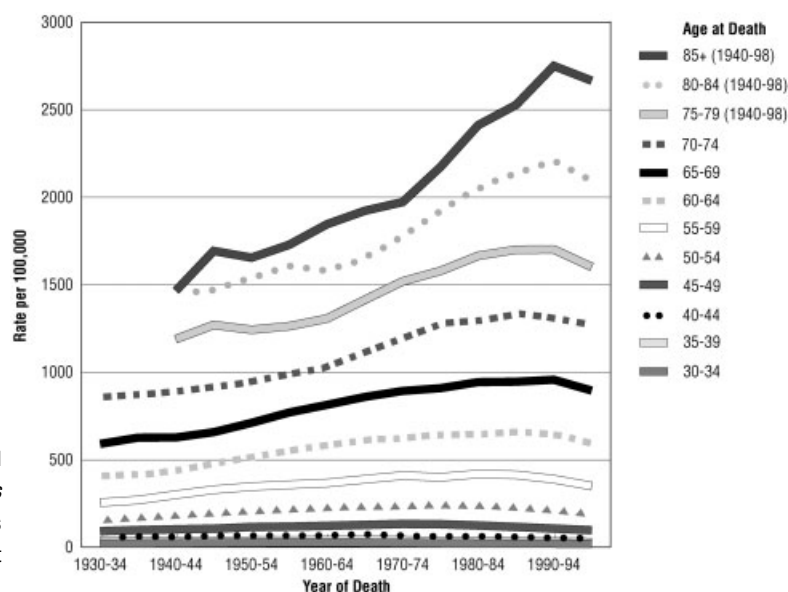


FIGURE 3. Male death rates for all cancer sites, by age at and year of death, 1930–1998, United States. Source: *Vital Statistics of the United States*^{10–14}; see also the section entitled “Cautions in the Interpretation of Long-Term Trends Data” in the current article.

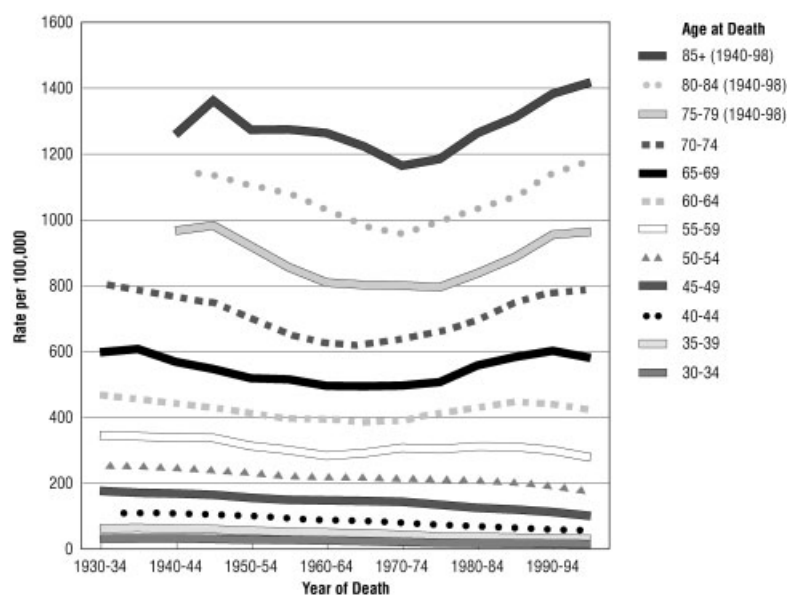


FIGURE 4. Female death rates for all cancer sites, by age at and year of death, 1930–1998, United States. Source: *Vital Statistics of the United States*^{10–14}; see also the section entitled “Cautions in the Interpretation of Long-Term Trends Data” in the current article.

TABLE 4
Male Deaths and Death Rates^a for All Cancer Sites, by Age at and Year of Death, 1930-1998, United States

Year	0-19		20-24		25-29		30-34		35-39		40-44		45-49		50-54		55-59		60-64		65-69		70-74		75-79 ^b		80-84 ^b		85+ ^b		
	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	
1930	1127	5.0	309	6.1	426	9.2	665	15.3	1141	25.5	2030	50.9	3098	87.7	4781	157.9	6138	260.3	7433	395.2	8193	593.7	7900	821.2	-	-	-	-	-	-	-
1931	1169	5.2	349	6.8	440	9.3	638	15.1	1167	26.3	1996	49.0	3212	90.0	4640	150.8	6113	250.6	7527	391.8	8314	587.6	8246	841.4	-	-	-	-	-	-	-
1932	1130	5.0	339	6.5	446	9.4	634	14.4	1188	27.2	2047	49.2	3359	93.0	4648	155.7	6343	259.7	8112	414.1	8439	590.0	8505	857.4	-	-	-	-	-	-	-
1933	1251	5.3	394	7.1	447	8.8	696	14.9	1237	27.3	2205	50.1	3529	92.1	5258	160.2	6659	247.4	8442	404.9	9228	593.1	9297	880.0	-	-	-	-	-	-	-
1934	1342	5.7	399	7.2	504	9.8	763	16.1	1257	28.0	2210	49.7	3754	96.1	5388	167.9	7077	256.9	8867	414.0	9589	598.9	9464	887.0	-	-	-	-	-	-	-
1935	1247	5.4	385	7.1	502	9.6	685	14.2	1248	27.7	2301	51.7	3828	96.0	5590	165.3	7301	260.3	8916	404.7	10228	621.8	9594	877.8	-	-	-	-	-	-	-
1936	1266	5.6	423	7.5	494	9.4	728	14.9	1300	28.7	2450	55.3	3974	97.9	5633	170.0	7427	261.0	9305	411.5	10485	620.8	9986	877.8	-	-	-	-	-	-	-
1937	1336	5.8	422	7.5	514	9.7	759	15.4	1285	28.3	2397	54.4	3985	96.6	6026	171.4	7738	269.1	9881	418.9	10851	625.8	10887	870.3	-	-	-	-	-	-	-
1938	1369	6.0	425	7.5	584	10.9	829	16.6	1353	29.2	2410	54.9	4135	99.1	6315	175.3	8044	274.8	9828	417.5	11265	632.6	10529	879.6	-	-	-	-	-	-	-
1939	1487	6.5	449	7.9	591	10.9	863	17.2	1343	28.6	2487	56.5	4237	100.9	6566	177.9	8439	283.2	10376	434.3	11551	630.2	10847	878.3	-	-	-	-	-	-	-
1940	1593	7.0	531	9.2	602	11.0	846	16.6	1348	28.2	2531	57.0	4387	103.6	6851	182.1	8904	292.9	10807	444.7	12047	639.4	11580	906.1	8940	1228.0	5992	1410.5	2305	1449.7	1939
1941	1668	7.3	482	8.2	624	11.3	866	16.8	1370	28.4	2426	54.0	4363	102.6	6761	177.8	9147	295.2	10805	437.4	12172	629.7	11751	887.7	8919	1195.6	5444	1479.3	2420	1466.7	1941
1942	1552	6.8	508	8.5	660	11.8	917	17.6	1391	28.5	2440	53.7	4423	103.1	7062	183.6	9408	297.9	11127	435.5	12567	632.8	11887	883.1	8937	1163.7	5633	1490.2	2472	1437.2	1942
1943	1649	7.1	495	8.1	621	11.0	906	17.2	1451	29.3	2502	54.3	4384	101.1	7191	184.8	9663	300.9	11336	433.5	12528	614.7	12271	887.3	9266	1176.7	5570	1443.0	2688	1510.7	1943
1944	1735	7.4	514	8.5	674	11.6	926	17.3	1456	29.0	2505	53.7	4505	102.8	7465	189.8	10232	313.6	12046	450.7	13066	622.3	12529	882.9	9646	1186.5	5662	1437.1	2679	1463.9	1944
1945	1794	7.7	565	9.4	673	11.5	994	18.2	1479	30.0	2642	56.0	4483	101.2	7589	190.7	10717	322.7	12521	457.6	13655	635.4	12982	886.6	10348	1229.0	5933	1455.5	3018	1571.9	1945
1946	1834	7.8	544	9.1	662	11.2	988	18.1	1544	30.0	2532	52.9	4630	103.9	7886	196.5	10849	321.3	13051	466.8	14026	637.0	13725	915.0	10661	1238.4	6126	1431.3	3263	1648.0	1946
1947	1949	8.0	572	9.8	682	11.6	967	17.5	1609	30.7	2808	57.8	4673	104.3	8128	200.9	11275	327.6	14019	489.8	15101	669.4	14209	944.5	11579	1282.3	6659	1473.2	3538	1727.2	1947
1948	2003	8.0	540	9.3	729	12.2	1037	18.6	1616	30.2	2829	57.3	4912	108.2	8322	204.3	11957	340.7	14598	497.9	15560	674.8	14904	949.3	12277	1314.5	7208	1517.5	3919	1822.8	1948
1949	2113	9.1	628	10.9	847	14.1	1100	19.5	1884	34.5	2968	59.2	5062	111.9	8284	201.6	11902	331.7	14828	493.4	15814	668.8	14918	929.9	12231	1263.5	7356	1477.1	3820	1682.8	1949
1950	2386	9.1	571	9.9	882	14.8	1165	20.4	1844	33.2	2987	58.6	5148	113.2	8367	202.3	12162	333.6	15503	508.5	16409	672.2	15440	942.0	12280	1225.5	7799	1508.5	3951	1632.6	1950
1951	2503	9.3	664	11.6	869	14.5	1143	19.7	1784	31.8	3033	58.7	5205	112.6	8674	208.7	12381	341.9	15631	504.4	17347	693.3	15675	930.8	12705	1222.8	7728	1474.8	4324	1663.1	1951
1952	2472	9.0	617	11.0	849	14.2	1197	20.2	1741	30.7	3232	61.6	5481	116.0	8629	207.0	13082	349.8	16498	521.6	18333	717.0	16419	945.8	13335	1243.9	8320	1561.0	4547	1641.5	1952
1953	2518	8.8	621	11.3	866	14.6	1138	19.4	1924	32.7	3324	62.6	5710	118.7	8867	212.9	13482	359.0	17040	528.5	18896	723.2	17905	949.5	13866	1256.0	8556	1567.0	4849	1680.6	1953
1954	2664	9.1	586	10.9	862	14.6	1245	20.6	1885	32.8	3318	61.7	5761	117.4	9108	213.5	13181	348.3	17392	531.2	19896	745.4	19113	973.8	1452	1362.3	8893	1394.5	5134	1672.3	1954
1955	2852	9.4	642	12.1	838	14.4	1198	19.7	1928	33.2	3194	58.8	5932	118.5	9324	215.9	13393	349.9	17869	538.2	20719	763.1	18785	973.5	14851	1288.2	9302	1394.7	5387	1678.2	1955
1956	2808	9.0	572	10.9	851	14.7	1256	20.7	1906	32.3	3472	63.2	5958	117.3	9516	216.9	14002	361.6	18702	556.1	20835	756.8	19414	977.5	15570	1295.3	10084	1653.8	5781	1757.1	1956
1957	2919	9.0	577	11.0	832	14.6	1252	20.8	1884	31.4	3450	62.1	6041	117.1	9919	221.3	14000	360.0	18996	562.0	21943	792.0	20668	1013.1	15743	1288.6	10148	1613.4	5909	1743.1	1957
1958	2931	8.8	593	11.1	766	13.8	1300	21.7	2080	34.5	3473	61.9	6107	116.7	10103	221.5	14058	353.3	19672	556.1	21961	770.0	20681	988.6	13917	1247.4	10155	1579.3	5965	1700.0	1958
1959	3110	9.1	609	11.2	764	14.0	1294	21.8	2023	33.7	3588	63.5	6376	120.2	10394	223.3	14699	362.0	19734	562.1	22509	778.9	21463	990.2	16437	1240.5	10461	1587.4	6238	1762.8	1959
1960	3191	9.1	574	10.4	884	15.9	1235	20.9	2138	34.8	3609	63.1	6430	119.7	10813	228.2	15154	367.1	19505	572.2	23071	787.1	22490	1024.3	17373	1278.4	10756	1617.4	6308	1742.5	1960
1961	3203	8.8	620	10.8	812	15.1	1224	21.0	2069	33.7	3683	63.4	6518	120.4	10904	224.5	15172	359.5	19812	577.4	23928	810.3	22945	1023.9	18173	1283.5	11187	1598.1	6866	1840.8	1961
1962	3105	8.4	659	11.0	741	13.8	1189	20.6	2089	34.3	3738	63.4	6710	123.3	11234	227.8	15808	366.3	20201	584.7	24900	815.2	23453	1027.3	18501	1291.1	11421	1577.5	7030	1879.7	1962
1963	3241	8.6	687	10.8	759	13.9	1220	21.5	2131	35.2	3816	63.9	6840	124.1	11438	229.1	16415	371.8	20550	590.0	24592	833.3	24380	1052.7	19248	1323.8	11681	1563.7	7233	1923.9	1963
1964	3181	8.3	667	10.0	828	15.0	1218	21.9	2154	36.0	4081	67.6	6823	125.0	11742	232.5	16700	370.5	21421	607.7	24362	823.9	24673	1054.9	19248	1346.5	11988	1550.8	7122	1840.3	1964
1965	3130	8.1	695	10.1	813	14.5	1135	20.6	2156	36.5	4064	67.1	6859	125.3	11873	232.8	17379	379.2	21934	612.2											

Article continues on next page.

TABLE 5
Average Annual Percent Change in Death Rates for All Cancer Sites, by Gender and Age at Death, 1930-1998, United States

Age	1930-39	1940-49	1950-59	1960-69	1970-79	1980-89	1990-98
Males							
0-4	3.3*	1.3	-1.3*	-4.3*	-4.8*	-4.1*	-3.3*
5-9	3.8*	2.1*	1.1	-0.9*	-4.2*	-4.2*	-3.2*
10-14	2.5	3.3*	1.4*	-1.1	-2.4*	-2.7*	-2.6*
15-19	1.1	2.5*	-0.1	-0.2	-3.1*	-3.0*	-2.3*
20-24	2.4*	2.1*	0.4	-0.8	-3.7*	-2.9*	-0.2
25-29	1.8*	1.7*	-0.4	-1.0	-2.3*	-1.8*	-1.1
30-34	1.2	1.4*	0.9*	-0.6	-2.7*	-0.5	-1.7*
35-39	1.3*	1.6*	0.4	0.7*	-2.2*	-0.9*	-2.2*
40-44	1.6*	0.7	0.7*	1.2*	-1.4*	-1.6*	-1.5*
45-49	1.4*	0.8*	0.5*	0.9*	-0.1	-1.4*	-2.0*
50-54	1.7*	1.5*	1.0*	0.6*	0.9*	-0.9*	-2.3*
55-59	1.1*	1.7*	0.7*	1.1*	-0.3*	-0.2	-2.3*
60-64	0.8*	1.6*	1.3*	0.9*	0.6*	0.5*	-1.9*
65-69	1.0*	0.8*	1.6*	1.1*	0.4*	0.0	-1.3*
70-74	0.6*	0.6*	0.8*	1.5*	1.3*	0.4*	-0.7*
75-79 ^a		1.0*	0.3	1.5*	0.8*	0.4*	-1.3*
80-84 ^a		0.3	0.8*	0.6*	1.7*	0.9*	-1.0*
85+ ^a		2.5*	0.8*	0.9*	2.0*	1.0*	-0.7*
Age	1930-39	1940-49	1950-59	1960-69	1970-79	1980-89	1990-98
Females							
0-4	3.8*	1.3	-1.2*	-3.3*	-4.9*	-2.1*	-3.1*
5-9	3.7*	3.4*	0.2	-1.2	-4.6*	-3.2*	-2.8*
10-14	3.3*	1.9	0.9	-1.5*	-3.6*	-2.8*	-1.3
15-19	1.9*	1.5	-1.1	-1.5*	-3.6*	-2.5*	-2.5*
20-24	1.3	1.3	-1.2*	0.0	-3.1*	-1.3	-0.7
25-29	1.7*	-0.6	-1.3*	-2.1*	-3.0*	-1.6*	-0.8
30-34	0.1	-1.0*	-0.6	-1.3*	-2.1*	-1.1*	-1.1*
35-39	0.5	-0.5	-1.1*	-1.0*	-2.6*	-0.8*	-1.5*
40-44	-0.1	-1.0*	-1.5*	-0.4*	-1.7*	-1.2*	-1.9*
45-49	-0.5	-0.6*	-0.8*	-0.3*	-1.3*	-1.0*	-2.5*
50-54	-0.1	-0.5*	-0.8*	0.0	-0.1	-0.5*	-2.1*
55-59	-0.2	-0.1	-0.9*	0.5*	-0.2	0.0	-1.7*
60-64	-0.4*	-0.5*	-0.9*	-0.4*	1.2*	0.7*	-1.0*
65-69	0.1	-0.9*	-0.2	-0.1	0.5	1.0*	-0.7*
70-74	-0.4	-0.6*	-1.4*	-0.3	0.7*	1.4*	0.3
75-79 ^a		0.1	-1.4*	-0.3	-0.2	1.2*	0.2
80-84 ^a		-0.2	-0.4*	-1.0*	0.6*	0.7*	0.7*
85+ ^a		1.3*	-0.1	-0.6*	0.3	0.8*	0.5*

* Average annual percent change is significantly different from zero ($p < 0.05$).

^a Rates cannot be calculated for 75-79, 80-84, and 85+ because population data are only available for 75+ from 1930 to 1939.

Source: Vital Statistics of the United States [ref. 10-14]; see also *Cautions in the Interpretations of Long-Term Trends Data*.

TABLE 6
Female Deaths and Death Rates* for All Cancer Sites, by Age at and Year of Death, 1930-1998, United States

Year	0-19		20-24		25-29		30-34		35-39		40-44		45-49		50-54		55-59		60-64		65-69		70-74		75-79 ^b		80-84 ^b		85+ ^b		
	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	
1930	846	3.8	316	6.0	702	14.8	1428	32.8	2385	59.6	4255	114.3	5641	173.6	6893	250.0	7724	356.8	8104	460.2	7876	595.8	7487	799.9	-	-	-	-	-	-	1390
1931	876	3.9	318	6.0	625	12.9	1422	32.4	2800	62.3	4298	112.4	5866	177.7	7122	252.7	7724	343.3	8384	465.6	8255	606.1	7365	787.6	-	-	-	-	-	-	1391
1932	932	3.8	367	6.9	656	13.4	1415	31.9	2728	63.8	4234	107.8	6062	181.8	7426	239.1	7724	347.0	8386	464.9	8377	596.2	8024	813.8	-	-	-	-	-	-	1392
1933	882	3.8	340	6.0	729	13.9	1449	30.6	2807	63.1	4402	105.0	6065	171.2	7700	254.4	8382	330.2	9136	463.8	8976	597.6	8409	884.7	-	-	-	-	-	-	1393
1934	947	4.1	410	7.2	788	14.9	1507	31.3	2862	64.4	4692	110.2	6508	173.7	8014	260.5	8797	342.3	9673	475.3	9215	594.1	8777	818.8	-	-	-	-	-	-	1394
1935	954	4.2	383	6.9	840	15.7	1577	32.2	2949	65.9	4554	106.2	6527	173.8	7964	254.5	9066	343.2	9657	458.8	9860	616.3	8852	802.5	-	-	-	-	-	-	1395
1936	1029	4.5	357	6.2	859	15.9	1578	31.8	2981	66.2	4687	109.1	6496	170.8	8253	238.9	9047	338.7	9882	455.6	10271	622.1	9050	785.3	-	-	-	-	-	-	1396
1937	1037	4.5	385	6.8	768	14.1	1642	32.7	2982	65.2	4770	111.1	6614	170.1	8117	248.1	9201	339.5	9985	445.7	10398	609.1	9234	795.9	-	-	-	-	-	-	1397
1938	1048	4.6	397	6.8	869	15.7	1617	31.8	2872	61.5	4819	112.0	6653	168.0	8466	253.2	9391	341.4	10287	451.6	10606	594.5	9490	781.1	-	-	-	-	-	-	1398
1939	1121	5.0	406	6.9	900	16.1	1673	32.6	3065	64.0	4792	110.6	6886	171.5	8615	250.9	9720	347.3	10497	452.8	10897	594.8	9698	770.4	-	-	-	-	-	-	1399
1940	1226	5.5	433	7.3	854	15.1	1756	33.8	3015	62.5	4810	108.6	7006	172.7	8750	248.7	9655	321.9	10670	451.9	11119	585.8	10088	793.3	7863	1000.4	4796	1144.6	2675	1267.8	1490
1941	1220	5.5	391	6.6	865	15.1	1721	32.7	2912	59.3	5035	112.8	7136	173.2	8810	245.7	9763	335.3	10686	439.9	11380	589.8	10092	770.9	7888	956.3	4906	1338.3	2675	1215.9	1491
1942	1255	5.5	403	6.7	777	13.4	1726	32.3	3123	62.6	4824	106.3	6944	165.9	9118	246.6	10209	339.2	11090	443.8	11458	567.8	10969	760.5	8065	965.7	5159	1554.1	3003	1036.7	1492
1943	1209	5.4	433	7.2	795	13.6	1655	30.6	3088	60.0	5046	109.5	7200	170.0	9323	230.6	10443	339.2	11281	439.5	11514	553.8	10904	756.7	8386	983.5	5376	1168.7	3026	1268.1	1493
1944	1241	5.5	403	6.7	880	14.9	1755	32.8	3282	64.1	5208	111.3	7051	163.3	9230	243.9	10866	345.3	11416	433.2	11971	559.1	11191	753.1	8438	934.2	5395	1145.4	3072	1242.9	1494
1945	1345	5.9	427	7.1	809	13.6	1724	31.1	3270	62.7	5012	105.4	7294	166.5	9424	244.5	11184	347.1	11780	435.0	12448	563.0	11371	738.9	9253	984.4	5606	1339.4	3322	1277.7	1495
1946	1396	6.1	412	6.9	805	13.4	1773	31.6	3276	61.7	4957	102.6	7369	166.3	9494	242.4	11176	339.1	11821	426.0	12340	542.4	12019	756.4	937	977.2	5850	1331.5	3685	1354.8	1496
1947	1496	6.3	394	6.6	819	13.5	1773	31.2	3392	59.0	5178	105.5	7404	165.7	9701	244.0	11228	332.3	12298	432.4	12836	547.8	12411	756.8	10061	998.3	6373	1165.1	4064	1416.0	1498
1948	1513	6.3	445	7.5	877	14.2	1702	29.5	3302	59.8	5047	101.2	7282	161.9	9722	240.9	11814	340.8	12774	438.1	13261	549.8	12852	760.0	10638	1060.3	6753	1170.4	4314	1423.8	1498
1949	1622	6.7	506	8.6	885	14.4	1792	30.7	3312	58.7	5207	102.6	7466	164.9	9742	237.6	11723	321.1	12612	421.8	13241	533.3	12684	726.1	10524	955.0	6572	1077.4	4303	1332.2	1499
1950	1884	7.4	496	8.5	962	15.4	1744	29.5	3307	57.6	5302	102.9	7278	159.5	9579	230.7	11681	321.9	12886	424.0	13550	521.6	12878	716.6	10652	927.1	7071	1033.1	4420	1273.8	1950
1951	1879	7.2	489	8.5	926	14.9	1738	29.2	3272	56.4	5330	101.6	7281	156.3	9621	234.7	11744	315.5	13010	417.1	13810	516.1	13061	701.8	11117	925.6	7291	1095.7	4623	1239.7	1951
1952	2014	7.5	468	8.3	976	15.9	1822	29.7	3328	56.9	5236	98.1	7430	155.5	9675	234.8	12005	317.2	13280	412.0	14097	514.1	13727	709.4	11659	933.5	7522	1093.3	4971	1263.7	1952
1953	1942	7.0	438	7.9	880	14.4	1761	28.4	3150	53.4	5425	100.0	7480	153.2	9908	232.9	11966	311.3	13590	407.5	14691	522.4	13997	695.7	11790	910.4	8054	1249.1	5212	1263.7	1953
1954	2048	7.2	465	8.6	849	14.1	1738	28.1	3194	53.8	5423	96.5	7747	154.8	9987	231.4	11647	300.7	13783	403.8	15022	520.7	14379	683.7	12153	904.9	8201	1086.4	5420	1263.4	1954
1955	2065	7.0	425	8.0	860	14.5	1714	27.2	3301	55.0	5508	96.8	7800	152.5	9777	223.3	12034	305.6	13824	398.2	15435	522.7	14706	670.9	12520	898.8	8438	1077.7	5852	1291.8	1955
1956	2270	7.5	406	7.7	830	14.1	1834	29.2	3223	52.8	5426	96.0	7907	151.9	9991	221.6	12172	304.5	14302	399.8	15698	516.9	14908	655.9	12662	876.9	8882	1086.0	6044	1277.8	1956
1957	2184	7.0	407	7.7	821	14.2	1829	28.4	3180	51.2	5352	91.8	7959	150.4	10411	227.6	12218	301.6	14488	399.4	16054	516.9	15204	648.1	12969	861.7	9289	1085.4	6470	1304.4	1957
1958	2313	7.2	418	7.8	763	13.5	1687	27.2	3314	52.7	5340	92.3	7924	147.3	10281	219.9	12276	297.1	14301	391.4	16467	516.2	15576	643.9	13005	831.0	9409	1077.8	6546	1268.2	1958
1959	2272	6.8	417	7.6	775	14.0	1713	27.9	3317	52.3	5211	88.0	7981	146.2	10434	218.0	12489	295.5	14382	389.7	16427	502.4	15670	635.3	13462	820.9	9452	1052.6	6739	1268.8	1959
1960	2307	6.8	403	7.3	736	13.3	1666	26.3	3235	50.5	5392	91.0	8299	150.3	10722	220.1	12478	290.2	14658	394.1	16640	498.7	16303	633.5	14168	836.4	9942	1086.6	7166	1263.8	1960
1961	2469	7.0	394	6.9	740	13.5	1583	26.4	3288	51.4	5381	88.0	8326	149.1	10912	217.4	12404	280.2	14859	392.9	16991	490.2	16901	633.5	14293	806.1	10234	1047.5	7338	1273.5	1961
1962	2502	7.0	420	7.0	700	12.8	1546	26.3	3162	49.7	5410	87.9	8237	146.3	11288	220.1	12715	279.1	13945	395.4	17308	500.8	17207	622.8	14789	806.8	10534	1025.7	7867	1284.3	1962
1963	2476	6.8	478	7.5	752	13.6	1434	24.9	3137	50.5	5438	87.2	8419	148.1	11222	215.7	13328	286.3	15128	393.2	17189	482.1	17761	623.2	13254	807.9	10847	1001.0	8030	1280.7	1963
1964	2360	6.4	512	7.7	732	13.0	1519	26.8	3077	49.5	5598	88.4	8370	145.6	11805	223.5	13485	262.0	15224	389.7	17288	498.5	17802	608.0	13475	794.0	11222	996.6	8090	1238.9	1964
1965	2373	6.3	509	7.4	733	12.8	1519	27.1	2911	47.5	5649	88.7	8304	145.9	11895	222.0	14032	265.1	15333	391.9	17515	498.5	18551	621.1	16905	810.4	11576	984.4	8447	1234.9	1965
1966	2354	6.2	508	7.3	733	12.4	1418	25.4	2880	47.3	5565	86.8	8732	147.4	11950	220.0	14359	286.7	15780	385.3	17609	494.6	18746	618.3	16650	801.6	12141	992.7	8996	1325.9	1966
1967	2347	6.2	559	7.4	730	12.0	1331	23.8	2808	47.9	5508	86.8	8856	146.7	12099	219.8	14755	290.3	16388	387.5	18267	497.5	19253	</							

(continued)

TABLE 6
(continued)

	0-19		20-24		25-29		30-34		35-39		40-44		45-49		50-54		55-59		60-64		65-69		70-74		75-79 ^b		80-84 ^b		85+ ^b		
Year	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	
1970	2103	5.6	579	6.8	815	11.9	1301	22.3	2847	46.4	5120	83.0	9132	145.6	12649	219.5	15960	306.2	17567	302.3	19248	497.0	19816	626.3	18747	823.7	13952	988.5	10587	1152.0	1970
1971	1986	5.2	612	6.8	820	11.6	1347	21.8	2400	42.4	5120	84.5	9045	144.0	12724	215.7	16058	308.3	18309	306.3	19615	497.1	19961	627.5	19008	791.7	14371	938.7	11320	1183.1	1971
1972	1800	5.1	556	6.2	886	11.3	1388	21.8	2866	45.3	4942	82.8	8980	144.3	12916	213.6	16260	305.9	18692	303.6	20684	503.2	20894	648.9	19038	798.5	14902	947.4	12064	1178.2	1972
1973	1863	4.9	579	6.3	838	10.6	1416	21.3	2511	43.7	4589	78.0	8860	143.4	13084	212.5	16681	311.2	19550	393.0	21154	498.3	20743	639.0	19652	800.2	15434	937.1	12342	1154.5	1973
1974	1747	4.7	543	5.8	887	10.8	1423	20.5	2300	42.8	4591	79.2	8653	141.5	13172	211.7	16705	310.0	20179	404.3	21504	490.6	21663	666.1	19844	790.9	16294	961.1	13182	1155.3	1974
1975	1663	4.5	561	5.8	893	10.1	1417	19.8	2351	39.6	4436	77.8	8448	139.1	13193	211.6	17051	303.8	20206	401.6	21820	481.0	22113	661.3	20448	788.6	16771	988.9	14205	1157.3	1975
1976	1541	4.2	575	5.8	922	10.2	1488	20.3	2407	36.6	4223	74.2	8078	134.8	13421	215.0	17470	305.2	21007	413.0	23234	500.4	22778	666.2	21136	793.7	17447	973.6	15406	1194.3	1976
1977	1490	4.1	515	5.1	872	9.5	1570	19.8	2370	37.7	4250	74.4	8020	135.7	13267	214.3	17993	305.4	21487	418.3	24216	511.3	23460	659.5	21549	794.3	18117	990.0	16186	1185.5	1977
1978	1401	3.9	550	5.3	900	9.6	1544	18.8	2384	35.5	4341	75.1	7867	134.8	13260	215.4	18175	301.8	21981	423.4	24750	570.4	24750	670.4	24290	800.9	18533	1009.4	17194	1191.5	1978
1979	1383	3.9	567	5.4	858	8.9	1579	18.4	2566	37.1	4207	71.5	7418	128.7	13067	214.1	18334	301.0	22062	416.5	25602	526.5	25289	660.8	23182	799.9	19062	1018.8	18124	1191.6	1979
1980	1357	3.8	553	5.2	943	9.6	1689	18.8	2673	37.6	4271	71.6	7266	128.5	12931	212.4	18881	307.5	22917	423.0	26489	542.8	27080	686.4	24172	820.5	18736	1080.1	19571	1255.4	1980
1981	1346	3.8	520	4.8	905	8.9	1711	18.1	2661	36.4	4247	69.2	7086	125.7	12658	210.4	18894	310.8	22979	419.2	27146	597.3	27461	676.5	25302	830.4	20320	1028.3	20555	1246.5	1981
1982	1347	3.9	601	5.6	905	8.7	1742	18.4	2837	35.9	4367	68.7	7137	126.5	12773	207.6	18941	312.4	24334	430.1	28013	580.5	28558	688.6	26987	842.2	20926	1031.3	21536	1252.1	1982
1983	1293	3.7	564	5.2	915	8.6	1691	17.6	2927	35.8	4550	67.9	7031	122.6	11989	207.7	19040	314.6	24831	435.0	28398	561.3	30113	712.2	26909	836.2	21549	1031.1	22775	1275.2	1983
1984	1164	3.4	489	4.6	953	8.9	1780	17.9	3157	36.9	4830	69.5	7212	123.4	11828	208.8	18903	315.9	25564	441.7	29326	574.9	30894	713.8	28266	856.3	22777	1058.9	23764	1265.9	1984
1985	1125	3.3	524	5.0	924	8.5	1833	18.2	3139	35.2	4786	66.7	7413	124.9	11663	207.9	18573	317.4	26297	449.6	29648	572.1	31868	731.4	29158	862.2	23339	1053.2	24424	1281.4	1985
1986	1129	3.3	482	4.7	950	8.7	1785	17.3	3316	35.2	5031	68.7	7414	122.2	11449	205.7	17956	304.7	26941	446.5	30561	582.1	33036	751.3	30068	889.0	24071	1053.4	25417	1294.8	1986
1987	1099	3.2	440	4.4	923	8.5	1833	17.4	3315	35.2	5003	63.1	7615	121.3	11498	206.5	17736	308.8	23913	447.3	31133	580.3	33088	744.3	31866	886.5	24847	1054.2	26441	1305.7	1987
1988	1081	3.1	457	4.7	850	7.8	1802	16.8	3410	35.5	5258	64.0	7812	118.2	11409	201.5	17500	312.5	23925	447.8	31673	584.9	33955	753.9	32018	887.4	26331	1084.9	27459	1323.3	1988
1989	1108	3.2	463	4.9	869	8.1	1852	17.0	3295	33.5	5518	64.2	7887	115.4	11526	199.8	16997	308.9	25531	445.2	32834	597.4	34844	766.8	33661	924.9	27359	1084.8	28778	1346.7	1989
1990	1066	3.0	423	4.5	872	8.2	1845	16.8	3388	33.8	5710	64.1	8287	116.3	11656	200.2	16670	304.2	25196	443.7	33332	599.6	35347	771.6	34920	940.2	28401	1112.0	28914	1371.6	1990
1991	1023	2.9	435	4.6	820	7.9	1883	16.9	3464	33.5	5897	62.1	8358	113.3	11563	193.4	16898	311.5	25945	444.3	33198	599.7	36298	770.2	36020	949.1	28571	1123.9	31787	1381.3	1991
1992	1022	2.9	445	4.8	885	8.9	1837	16.5	3353	33.3	5823	61.2	8647	110.6	11956	192.9	16940	299.1	24371	439.2	33290	583.3	37552	783.7	36896	945.6	30804	1146.8	32714	1388.2	1992
1993	1021	2.8	425	4.6	825	8.4	1738	15.8	3342	30.7	5729	58.9	8895	110.1	12339	188.6	16366	294.4	23955	440.8	33203	602.9	39413	785.9	37610	969.1	31679	1152.4	34914	1406.7	1993
1994	1004	2.7	388	4.3	773	8.1	1772	15.9	3474	31.4	5788	58.0	9245	108.8	12627	186.2	16555	290.5	22627	435.5	33123	606.0	39278	794.1	38058	970.1	32997	1177.2	35510	1387.1	1994
1995	934	2.5	370	4.2	757	8.0	1734	15.8	3391	32.0	5834	56.9	9485	106.7	12888	183.8	16753	283.8	22878	429.3	32190	583.9	39756	796.4	38764	976.2	33578	1173.2	37318	1416.6	1995
1996	955	2.6	390	4.5	799	8.4	1734	16.2	3406	30.1	5938	56.6	9516	101.4	12833	179.2	16516	279.5	22625	427.8	31598	586.2	39287	791.3	39099	967.5	34529	1180.9	39406	1415.1	1996
1997	1009	2.7	369	4.3	756	8.0	1567	15.0	3467	30.5	6075	56.3	9351	99.4	13369	171.7	16886	277.7	22218	418.0	34967	573.2	38794	786.3	39825	957.8	34525	1173.9	39715	1428.1	1997
1998	920	2.4	392	4.5	706	7.6	1587	15.6	3422	30.1	6008	54.4	9247	96.3	13429	166.3	17206	269.9	22151	419.0	29627	589.9	38879	786.7	40600	956.6	34525	1180.6	40486	1414.6	1998

^a Rates are per 100,000.^b Rates cannot be calculated for 75-79, 80-84, and 85+ because population data are only available for 75+ from 1950 to 1999.Source: Vital Statistics of the United States [ref. 10-14]; see also *Cautions in the Interpretations of Long-Term Trends Data*.

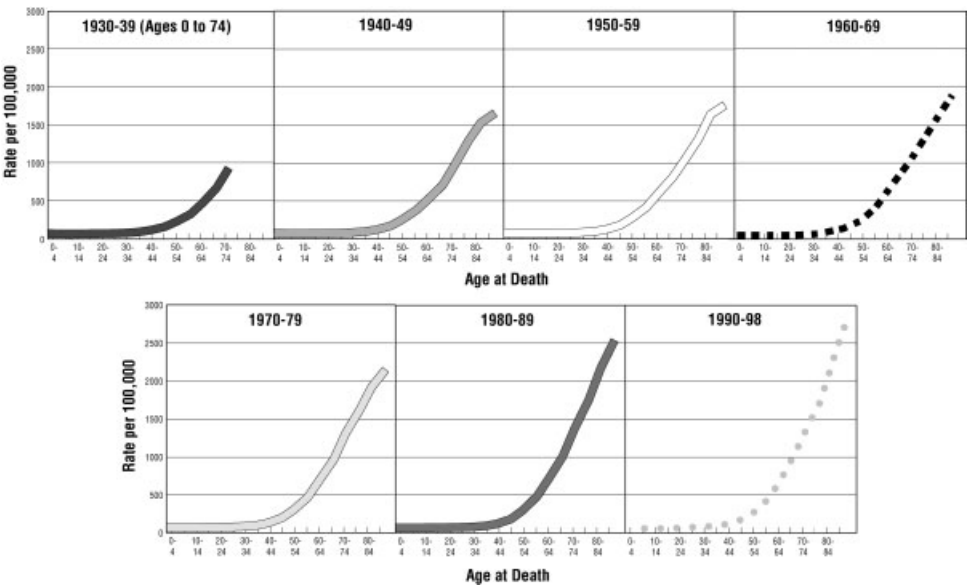


FIGURE 5. Male age-specific death rates for all cancer sites, separated by age at and decade of death, 1930–1998, United States. Source: *Vital Statistics of the United States*^{10–14}; see also the section entitled “Cautions in the Interpretation of Long-Term Trends Data” in the current article.

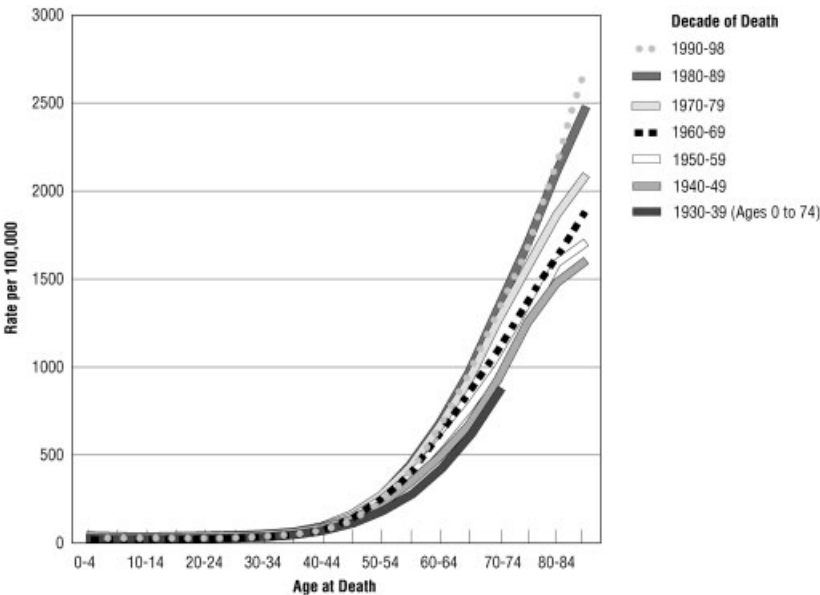


FIGURE 6. Male age-specific death rates for all cancer sites, by age at and decade of death, 1930–1998, United States. Source: *Vital Statistics of the United States*^{10–14}; see also the section entitled “Cautions in the Interpretation of Long-Term Trends Data” in the current article.

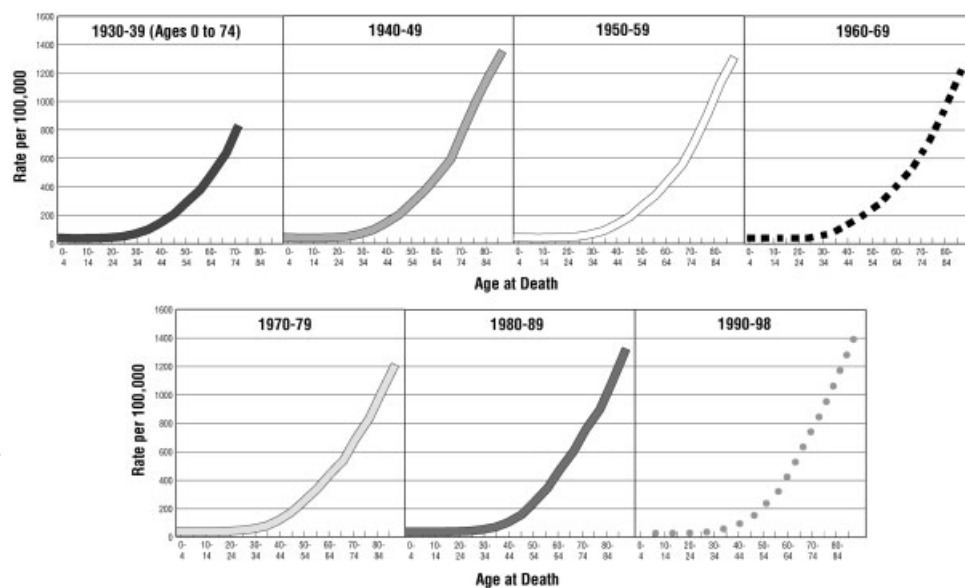


FIGURE 7. Female age-specific death rates for all cancer sites, separated by age at and decade of death, 1930–1998, United States. Source: *Vital Statistics of the United States*^{10–14}; see also the section entitled “Cautions in the Interpretation of Long-Term Trends Data” in the current article.

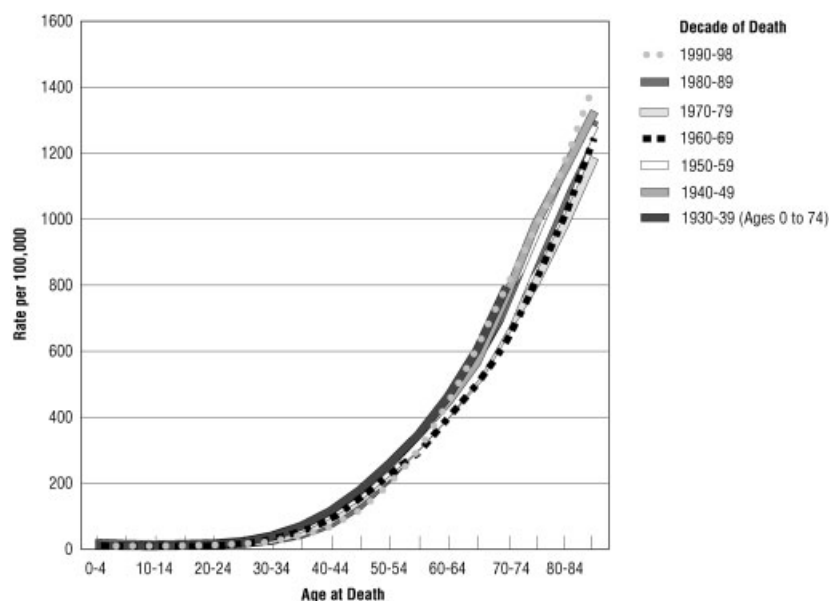


FIGURE 8. Female age-specific death rates for all cancer sites, by age at and decade of death, 1930–1998, United States. Source: *Vital Statistics of the United States*^{10–14}; see also the section entitled “Cautions in the Interpretation of Long-Term Trends Data” in the current article.

TABLE 7
Female Deaths and Death Rates for Cancer of the Breast, by Year of
Death, 1930-1998, United States

Year	Number	Rate		
		Crude	1970 ^a	2000 ^b
1930	10,699	18.5	25.1	30.1
1931	11,183	19.1	25.4	30.6
1932	11,615	19.7	25.7	30.9
1933	12,316	19.8	25.7	30.8
1934	13,010	20.8	26.4	31.6
1935	13,064	20.7	26.0	31.3
1936	13,537	21.3	26.5	32.0
1937	13,757	21.5	26.2	31.6
1938	14,315	22.2	26.8	32.4
1939	14,712	22.6	26.9	32.5
1940	15,308	23.3	27.6	33.8
1941	15,316	23.0	26.8	32.7
1942	15,735	23.4	26.8	32.8
1943	15,924	23.4	26.7	32.6
1944	16,160	23.4	26.2	32.0
1945	16,896	24.2	26.9	32.9
1946	17,274	24.4	26.8	33.0
1947	17,817	24.7	27.0	33.5
1948	18,928	25.8	28.0	34.6
1949	18,320	24.5	26.1	31.9
1950	18,734	24.6	26.0	31.9
1951	18,958	24.5	25.7	31.6
1952	19,664	24.9	25.9	31.6
1953	20,342	25.3	26.2	32.2
1954	20,679	25.3	26.0	31.8
1955	21,708	26.1	26.6	32.5
1956	22,054	26.0	26.3	32.3
1957	22,459	26.0	26.2	32.1
1958	22,460	25.5	25.6	31.3
1959	22,871	25.5	25.5	31.1
1960	23,755	26.1	26.0	31.8
1961	24,311	26.2	25.9	31.7
1962	24,733	26.2	25.8	31.4
1963	25,139	26.2	25.8	31.2
1964	25,936	26.6	26.0	31.6
1965	26,805	27.2	26.4	32.0
1966	27,304	27.3	26.4	31.9
1967	27,985	27.7	26.5	32.1
1968	28,816	28.2	26.8	32.4
1969	28,830	27.9	26.4	31.7
1970	29,652	28.4	26.7	32.2
1971	29,969	28.2	26.3	31.7
1972	31,162	29.0	26.9	32.3
1973	31,850	29.4	27.0	32.4
1974	32,132	29.4	26.7	32.1
1975	32,158	29.1	26.3	31.6
1976	33,119	29.6	26.5	31.8
1977	34,481	30.5	27.0	32.5
1978	34,329	30.1	26.5	31.7
1979	34,400	29.8	26.0	31.2
1980	35,641	30.6	26.5	31.8
1981	36,483	30.9	26.6	31.9
1982	37,414	31.4	26.8	32.2
1983	37,979	31.6	26.7	32.1
1984	39,472	32.6	27.3	32.9
1985	40,093	32.8	27.5	33.0
1986	40,539	32.9	27.3	32.9

(continued)

TABLE 7
(continued)

Year	Number	Rate		
		Crude	1970 ^a	2000 ^b
1987	40,899	32.9	27.1	32.7
1988	42,172	33.6	27.5	33.2
1989	42,837	33.9	27.5	33.2
1990	43,391	34.0	27.5	33.3
1991	43,583	33.7	27.0	32.7
1992	43,068	33.0	26.2	31.7
1993	43,555	33.0	25.9	31.5
1994	43,644	32.7	25.5	31.1
1995	43,844	32.6	25.2	30.8
1996	43,091	31.7	24.3	29.8
1997	41,943	30.6	23.3	28.5
1998	41,737	30.2	22.7	27.9

^a Rates are per 100,000 and are age-adjusted to the 1970 U.S. standard population.

^b Rates are per 100,000 and are age-adjusted to the 2000 U.S. standard population.

Source: Vital Statistics of the United States [ref. 10-14]; see also *Cautions in the Interpretations of Long-Term Trends Data*.

TABLE 8
Female Deaths and Death Rates* for Cancer of the Breast, by Age at and Year of Death, 1930-1998, United States

Year	0-19		20-24		25-29		30-34		35-39		40-44		45-49		50-54		55-59		60-64		65-69		70-74		75-79 ^b		80-84 ^b		85+ ^b	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate
1930	8	0.0	18	0.3	55	1.2	233	5.3	530	12.2	905	24.3	1221	37.6	1428	51.8	1530	70.7	1375	78.1	1135	85.9	928	98.9	-	-	-	-	-	-
1931	7	0.0	12	0.2	56	1.2	238	5.4	569	13.2	980	25.6	1280	38.3	1474	52.3	1575	70.0	1429	79.3	1187	87.2	1011	105.0	-	-	-	-	-	-
1932	7	0.0	21	0.4	72	1.5	224	5.0	563	13.2	901	22.9	1410	42.3	1624	56.7	1599	68.5	1459	79.0	1212	86.3	1090	110.5	-	-	-	-	-	-
1933	5	0.0	17	0.3	71	1.4	258	5.4	593	13.3	991	23.6	1384	38.5	1717	56.7	1695	67.7	1387	80.6	1371	91.3	1059	101.3	-	-	-	-	-	-
1934	7	0.0	23	0.4	84	1.6	249	5.2	588	13.3	1026	24.1	1536	42.4	1795	58.4	1729	67.3	1723	84.7	1422	91.7	1209	112.8	-	-	-	-	-	-
1935	7	0.0	14	0.2	87	1.6	227	4.6	631	14.6	1034	24.1	1409	38.0	1693	54.1	1788	68.1	1705	81.0	1525	95.3	1187	107.6	-	-	-	-	-	-
1936	5	0.0	17	0.3	92	1.7	267	5.4	601	13.3	1051	24.5	1422	37.4	1779	55.8	1625	68.3	1730	79.7	1381	95.8	1215	106.8	-	-	-	-	-	-
1937	*	**	11	0.2	85	1.6	259	5.2	637	13.9	1101	25.6	1533	39.4	1719	52.8	1629	67.5	1783	80.0	1656	97.0	1244	105.9	-	-	-	-	-	-
1938	*	**	15	0.3	84	1.5	284	5.6	640	13.7	1082	25.1	1594	38.0	1807	54.1	1928	70.1	1854	81.4	1691	95.6	1342	110.5	-	-	-	-	-	-
1939	11	0.0	18	0.3	81	1.4	269	5.2	624	13.2	1118	25.8	1599	39.8	1814	52.8	2016	72.0	1919	82.8	1786	97.5	1335	106.0	-	-	-	-	-	-
1940	7	0.0	15	0.3	87	1.5	306	5.9	650	13.5	1131	25.8	1683	41.5	1903	54.1	1883	65.7	2002	84.8	1827	96.3	1505	115.1	1118	142.2	752	176.5	429	203.3
1941	6	0.0	11	0.2	99	1.7	293	5.6	608	12.4	1163	26.1	1679	40.8	1873	52.2	1989	67.7	1891	79.5	1896	96.9	1547	114.8	1091	134.4	713	165.4	408	185.5
1942	5	0.0	20	0.3	89	1.5	332	6.2	680	13.6	1144	25.2	1682	39.7	1976	54.1	2008	68.3	2027	79.0	1926	92.6	1633	113.3	1220	133.6	744	166.4	458	198.1
1943	*	**	14	0.2	93	1.6	289	5.0	648	12.8	1125	24.4	1597	37.6	2006	53.9	2103	68.3	2027	79.0	1926	92.6	1633	113.3	1220	133.6	744	166.4	458	198.1
1944	*	**	14	0.2	100	1.7	303	5.5	705	13.7	1246	26.6	1684	39.0	1939	51.2	2167	68.9	1998	75.8	1953	91.2	1617	108.8	1200	132.9	782	166.0	443	179.4
1945	7	0.0	15	0.3	86	1.4	311	5.6	721	13.8	1188	25.0	1754	40.0	2007	52.9	2127	66.0	2109	77.9	2089	94.5	1746	113.5	1355	144.1	831	188.9	510	196.2
1946	*	**	16	0.3	102	1.7	326	5.8	739	14.3	1208	25.0	1772	38.6	2025	51.7	2214	67.2	2161	77.9	2020	88.8	1870	117.7	1367	140.1	866	173.3	583	214.3
1947	6	0.0	16	0.3	85	1.4	351	6.2	743	13.7	1287	26.2	1783	39.9	2150	54.1	2208	65.3	2178	76.6	2010	85.8	1885	114.9	1464	144.1	958	175.1	684	238.3
1948	*	**	18	0.3	123	2.0	329	5.7	850	15.4	1256	25.2	1799	40.0	2273	56.3	2408	69.5	2215	76.0	2204	95.5	1969	116.4	1618	153.1	1024	177.5	732	241.6
1949	*	**	20	0.3	114	1.8	368	6.3	807	14.3	1345	26.5	1829	40.4	2217	54.1	2433	68.3	2242	75.0	2148	86.5	1826	104.7	1450	131.6	885	146.7	615	190.4
1950	*	**	16	0.3	93	1.5	367	6.2	822	14.3	1438	27.9	1861	40.8	2213	53.3	2354	64.9	2310	76.0	2129	81.9	1971	104.7	1540	134.0	896	146.0	665	191.6
1951	7	0.0	9	0.2	107	1.7	335	5.6	803	13.8	1388	26.1	1836	39.4	2212	52.9	2395	64.3	2353	75.4	2225	83.1	1910	102.6	1599	133.1	1080	162.9	708	192.9
1952	9	0.0	17	0.3	116	1.9	375	6.1	837	14.3	1478	27.7	1929	40.4	2295	54.6	2565	67.8	2469	76.6	2211	80.6	2054	106.1	1625	130.1	969	140.8	704	182.4
1953	6	0.0	17	0.3	96	1.6	381	6.2	840	14.2	1491	27.5	2064	42.2	2355	53.3	2488	65.1	2447	73.6	2404	85.5	2114	105.1	1677	128.5	1150	180.6	799	198.8
1954	5	0.0	14	0.3	97	1.6	403	6.4	804	13.5	1469	26.7	2146	42.9	2349	54.4	2482	64.3	2369	75.3	2434	84.4	2213	105.2	1716	127.8	1138	132.1	824	192.1
1955	7	0.0	16	0.3	105	1.8	360	5.7	856	14.3	1615	29.0	2219	43.4	2496	57.0	2802	66.1	2674	76.5	2562	86.1	2352	103.5	1888	135.5	1189	151.9	890	196.5
1956	9	0.0	10	0.2	95	1.6	362	5.8	854	14.0	1632	28.9	2292	44.0	2429	54.4	2666	66.7	2729	76.3	2601	86.1	2352	103.5	1839	127.4	1242	151.8	936	197.9
1957	*	**	9	0.2	101	1.7	387	6.2	842	13.5	1494	26.1	2346	44.3	2589	56.6	2580	63.7	2845	78.4	2713	87.3	2356	100.4	1658	123.5	1343	136.4	967	198.0
1958	6	0.0	16	0.3	88	1.6	359	5.8	886	14.3	1595	27.6	2299	42.5	2629	56.2	2738	66.3	2672	73.1	2718	85.2	2351	97.2	1851	118.3	1306	146.6	943	182.4
1959	*	**	10	0.2	91	1.6	411	6.7	886	13.7	1513	25.8	2299	42.1	2670	55.8	2830	67.0	2802	75.9	2737	87.3	2403	96.2	1879	114.6	1314	146.3	1039	191.0
1960	5	0.0	14	0.3	95	1.7	352	5.8	905	14.1	1584	26.7	2377	43.0	2861	60.8	2815	65.4	2877	77.1	2799	84.1	2492	97.6	2008	118.5	1381	150.9	1088	191.9
1961	*	**	10	0.2	84	1.5	371	6.2	895	14.0	1615	26.7	2354	42.1	3018	60.1	2847	64.3	2875	76.3	2878	84.5	2688	97.8	2148	121.2	1443	147.7	1154	194.9
1962	8	0.0	11	0.2	81	1.5	379	6.4	871	13.7	1539	25.3	2479	44.0	3041	59.4	3022	63.3	2912	76.5	2875	86.1	2655	96.1	2088	113.9	1502	146.3	1144	188.2
1963	7	0.0	17	0.3	95	1.7	308	5.3	880	14.0	1625	26.0	2483	43.7	3109	59.8	3179	67.8	3037	78.9	2980	85.3	2736	96.0	2068	108.5	1464	136.3	1149	183.3
1964	*	**	27	0.4	108	1.9	376	6.6	896	14.4	1635	25.8	2541	44.2	3340	63.2	3244	67.3	3064	78.4	2994	84.7	2775	94.8	2175	111.6	1524	135.3	1230	188.4
1965	*	**	15	0.2	89	1.6	346	6.2	834	13.6	1745	27.4	2309	43.1	3348	62.5	3494	71.0	3215	80.6	3034	84.8	2887	96.7	2378	118.2	1665	141.6	1241	181.4
1966	*	**	22	0.3	94	1.6	330	5.9	797	13.2	1718	27.0	2385	43.8	3387	62.4	3570	71.3	3570	84.4	3102	85.6	2900	95.6	2402	115.6	1648	134.8	1273	177.3
1967	5	0.0	18	0.2	105	1.7	332	5.9	823	13.9	1664	26.2	2887	44.5	3443	62.5	3641	71.7	3570	84.4	3175	86.5	2942	96.1	2470	114.9	1725	135.6	1381	181.7
1968	7	0.0	11	0.1	116	1.8	348	6.1	838	14.4	1690	26.9	2733	45.4	3655	61.9	3624	74.6	3487	79.8	3332	89.4	3092	100.2	2641	119.3	1741	132.3	1435	187.4
1969	*	**	19	0.2	100	1.5	322	5.6	718	12.5	1710	27.5	2782	44.7	3403	60.0	3797	73.4	3749	83.2	3448	88.1	3072	98.9	2554	112.6	1808	132.6	1445	170.2

(continued)

TABLE 8
(continued)

Year	0-19		20-24		25-29		30-34		35-39		40-44		45-49		50-54		55-59		60-64		65-69		70-74		75-79 ^b		80-84 ^b		85+ ^b	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate
1970	*	**	18	0.2	126	1.8	373	6.4	794	13.9	1628	26.4	2801	44.7	3527	61.2	3963	76.0	3638	79.2	3489	90.1	3077	98.2	2778	122.1	1913	135.7	1522	165.6
1971	7	0.0	26	0.3	129	1.8	335	5.6	711	12.5	1581	26.1	2889	42.8	3528	59.8	3996	75.8	3864	81.5	3494	88.1	3133	98.5	2820	118.9	1965	131.1	1678	171.8
1972	*	**	14	0.2	172	2.2	350	5.6	684	12.0	1556	26.1	2786	44.8	3688	61.0	3976	74.8	4122	85.1	3726	90.7	3418	107.2	2824	116.1	2088	132.7	1752	171.8
1973	5	0.0	29	0.3	116	1.5	374	5.6	813	14.2	1420	24.1	2725	44.1	3675	59.7	4094	76.4	4122	83.7	4017	94.6	3531	108.8	2915	118.7	2176	132.1	1838	171.9
1974	*	**	23	0.2	139	1.7	401	5.8	767	13.1	1389	24.0	2671	43.7	3708	59.6	4142	75.9	4207	84.3	3977	90.7	3481	105.4	2991	119.2	2261	134.0	1969	172.6
1975	6	0.0	21	0.2	133	1.5	383	5.3	740	12.5	1420	24.9	2588	42.3	3616	58.0	4066	72.6	4191	83.3	4007	88.3	3688	107.7	3085	119.4	2287	132.1	2022	164.8
1976	*	**	14	0.1	137	1.5	382	5.2	716	11.8	1322	23.2	2486	41.5	3745	60.0	4254	74.3	4438	87.2	4245	91.4	3699	108.2	3080	116.0	2398	133.8	2190	168.8
1977	*	**	15	0.1	124	1.4	484	6.1	747	11.9	1323	23.2	2481	42.0	3797	61.3	4467	75.8	4447	86.6	4537	95.8	3890	109.4	3190	117.6	2564	140.1	2412	176.7
1978	8	0.0	20	0.2	112	1.2	448	5.5	780	11.7	1331	23.0	2409	41.3	3685	59.9	4438	74.0	4584	88.3	4289	89.2	4072	110.3	3361	116.1	2482	135.0	2386	165.3
1979	*	**	18	0.2	130	1.4	462	5.4	853	12.3	1418	24.1	2210	36.3	3571	58.5	4370	71.5	4437	83.8	4590	94.4	4024	105.1	3242	111.9	2578	137.8	2482	163.8
1980	5	0.0	11	0.1	143	1.5	471	5.3	926	13.0	1416	23.8	2160	37.9	3510	57.6	4627	75.4	4867	86.1	4734	97.0	4186	106.1	3478	118.1	2668	138.2	2638	168.2
1981	*	**	16	0.1	124	1.2	525	5.5	916	12.5	1428	23.3	2127	37.7	3476	57.8	4534	74.2	4709	84.8	4959	100.3	4443	109.5	3649	119.8	2731	138.2	2839	172.2
1982	11	0.0	13	0.1	134	1.3	540	5.7	998	12.6	1472	23.2	2091	37.1	3368	57.0	4800	75.9	4889	85.7	4966	99.4	4516	108.9	3897	125.7	2864	141.0	3052	177.4
1983	10	0.0	21	0.2	141	1.3	512	5.3	976	11.9	1509	22.5	2077	36.2	3208	55.6	4519	74.7	5151	90.2	5013	99.1	4749	112.3	3946	122.6	2962	141.7	3183	178.2
1984	5	0.0	13	0.1	148	1.4	534	5.4	1195	14.0	1675	24.1	2124	36.3	3174	56.0	4496	75.1	5217	90.1	5237	102.7	4922	114.5	4231	128.2	3134	145.7	3365	182.1
1985	*	**	19	0.2	112	1.0	515	5.1	1164	13.0	1639	23.1	2309	38.9	3124	55.7	4470	75.7	5425	92.8	5230	101.3	5035	115.6	4353	128.7	3271	147.6	3402	178.5
1986	*	**	13	0.1	134	1.2	520	5.0	1258	13.3	1805	24.7	2279	37.6	3049	54.8	4192	71.8	5334	91.5	5438	103.3	5202	118.3	4375	128.4	3351	146.7	3582	182.5
1987	*	**	14	0.1	132	1.2	540	5.1	1267	13.5	1785	22.5	2371	37.8	3066	55.1	4096	71.3	5311	91.7	5419	101.0	5245	117.9	4356	128.2	3474	147.4	3638	173.7
1988	*	**	10	0.1	126	1.2	536	5.0	1259	13.1	1879	22.9	2473	37.4	3146	55.6	4172	74.4	5270	91.0	5512	101.8	5379	119.5	4688	128.4	3829	157.8	3906	188.2
1989	*	**	7	0.1	137	1.3	517	4.7	1195	12.2	2078	24.2	2566	37.5	3144	54.5	3950	71.8	5010	87.4	5723	104.1	5481	120.6	5101	138.9	3854	154.2	4072	190.5
1990	*	**	13	0.1	122	1.1	507	4.6	1189	12.0	2171	24.4	2614	37.3	3208	55.1	3954	70.3	4918	86.6	5843	105.1	5481	119.6	5176	138.4	3892	156.3	4230	196.7
1991	*	**	12	0.1	131	1.3	516	4.6	1203	11.6	2151	22.6	2682	37.5	3142	52.5	3824	70.3	4931	87.5	5670	102.4	5475	116.4	5159	135.9	4165	138.3	4510	195.9
1992	*	**	6	0.1	120	1.2	489	4.4	1183	11.2	2047	21.5	2784	35.7	3205	51.7	3541	64.8	4560	82.2	5576	101.4	5718	118.7	5069	131.7	4154	154.7	4588	191.9
1993	*	**	14	0.2	104	1.1	442	4.0	1065	10.1	2031	20.9	2912	34.7	3341	51.1	3588	64.5	4353	80.1	5397	98.0	5599	114.5	5383	139.0	4304	156.6	5081	204.7
1994	*	**	11	0.1	88	0.9	463	4.2	1182	10.8	2004	20.1	2916	34.3	3436	50.7	3514	61.7	4189	78.4	5281	96.6	5721	115.7	5283	134.9	4513	161.0	5021	196.1
1995	*	**	11	0.1	102	1.1	446	4.1	1205	10.8	1998	19.5	3051	34.3	3329	50.3	3624	62.8	4117	77.4	5065	93.5	5699	114.2	5202	131.0	4474	156.3	5319	201.5
1996	*	**	18	0.2	101	1.1	438	4.1	1100	9.7	1996	19.0	3058	32.6	3358	46.9	3823	61.3	3919	74.1	4774	88.6	5479	110.4	5218	128.4	4490	154.6	5516	202.2
1997	*	**	10	0.1	108	1.1	411	3.9	1100	9.7	1991	18.4	2923	31.1	3574	45.9	3905	58.9	3756	70.7	4482	84.4	5149	104.4	4988	120.2	4357	148.1	5478	197.0
1998	*	**	*	*	87	0.9	421	4.1	1083	9.6	1915	17.3	2765	28.8	3574	44.3	3835	58.4	3746	69.2	4263	82.0	5201	105.2	5082	120.5	4388	147.2	5581	193.0

^a Rates are per 100,000.^b Rates cannot be calculated for 75-79, 80-84, and 85+ because population data are only available for 75+ from 1930 to 1939.

*Number of deaths is fewer than 5.

** Rate is not calculated since number of deaths is fewer than 5.

Source: Vital Statistics of the United States [ref. 10-14]; see also *Cautions in the Interpretations of Long-Term Trends Data*.

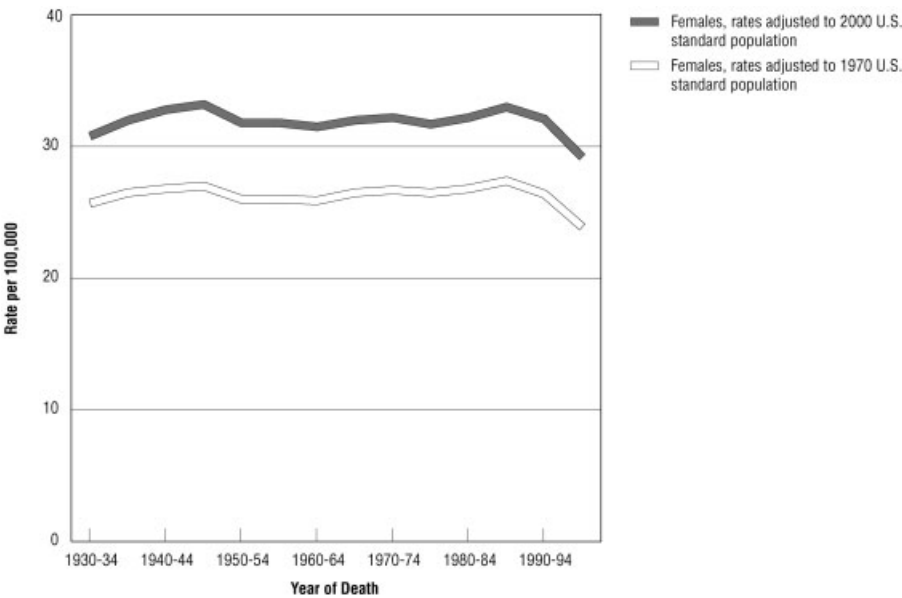


FIGURE 9. Female death rates for cancer of the breast, by year of death, 1930–1998, United States. Source: *Vital Statistics of the United States*^{10–14}; see also the section entitled “Cautions in the Interpretation of Long-Term Trends Data” in the current article.

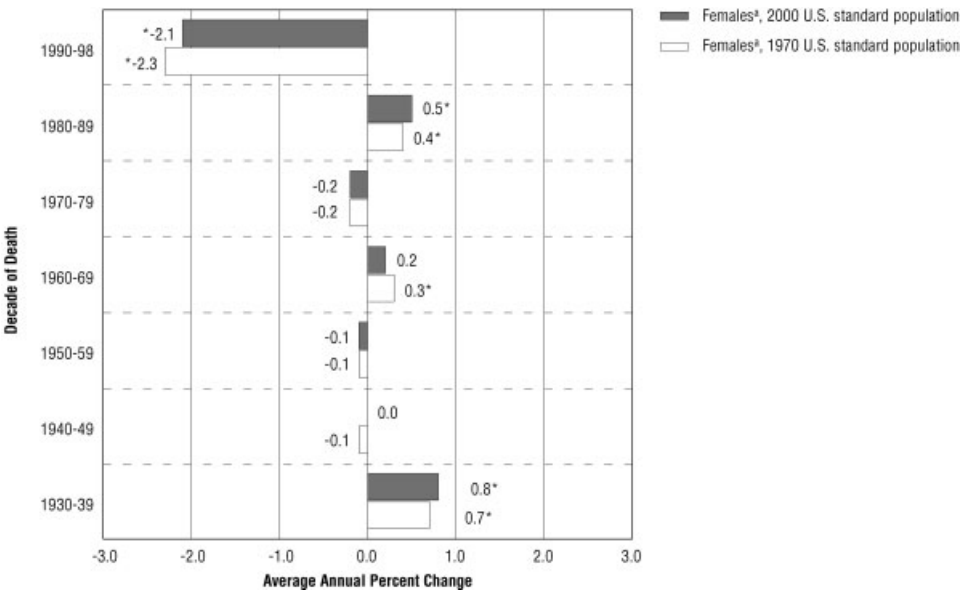


FIGURE 10. Average annual percent change^a in female death rates for cancer of the breast, by decade of death, 1930–1998, United States. ^aAverage annual percent change is based on rates adjusted to 2000 or 1970 U.S. standard population. *Average annual percent change is significantly different from zero ($p < 0.05$). Source: *Vital Statistics of the United States*^{10–14}; see also the section entitled “Cautions in the Interpretation of Long-Term Trends Data” in the current article.

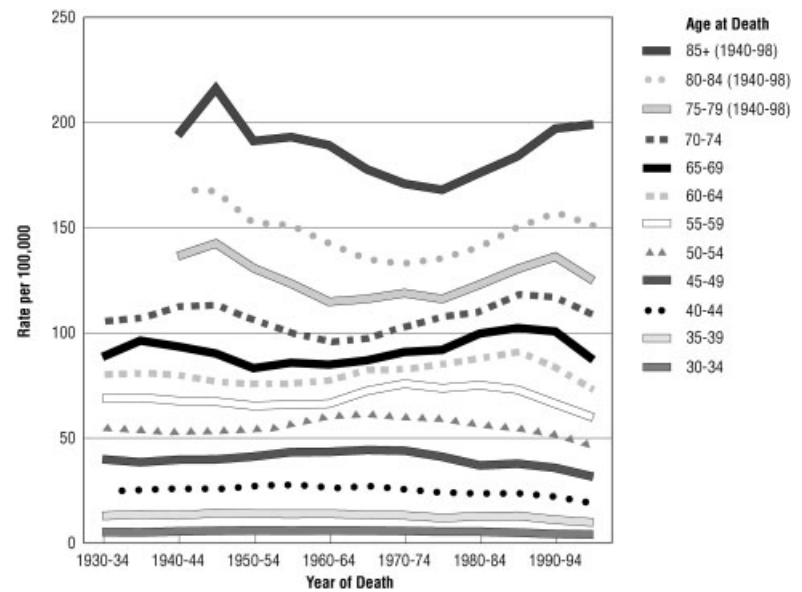


FIGURE 11. Female death rates for cancer of the breast, by age at and year of death, 1930–1998, United States. Source: *Vital Statistics of the United States*^{10–14}; see also the section entitled “Cautions in the Interpretation of Long-Term Trends Data” in the current article.

TABLE 9
Average Annual Percent Change in Female Death Rates for Cancer of the Breast, by Age at Death, 1930-1998, United States

	1930-39	1940-49	1950-59	1960-69	1970-79	1980-89	1990-98
Age							
0-19	-3.3	na	-5.1	-4.4	na	-14.8	na
20-24	-2.5	3.3	-1.9	-0.7	-4.5	-3.4	-5.9
25-29	3.0*	1.3	0.0	0.1	-4.9*	-1.5	-2.2
30-34	0.0	0.8	0.5	-0.3	-0.9	-1.5*	-1.7*
35-39	0.8	1.5*	-0.3	-0.6	-1.3	0.2	-2.7*
40-44	0.6	0.1	-0.2	0.4	-1.4*	0.1	-3.8*
45-49	-0.1	-0.1	0.9*	0.5*	-1.3*	0.1	-2.9*
50-54	0.0	0.3	0.6*	0.3	-0.2	-0.6*	-2.4*
55-59	0.1	0.2	0.2	1.6*	-0.5*	-0.5*	-2.6*
60-64	0.4	-1.1*	0.0	1.1*	0.8*	0.6	-2.9*
65-69	1.6*	-0.9	0.5	0.5*	0.4	0.6*	-3.1*
70-74	0.5	-0.3	-1.2*	0.2	0.9*	1.4*	-1.6*
75-79 ^a		0.4	-1.5*	-0.2	-0.6*	1.3*	-1.8*
80-84 ^a		-0.6	-0.1	-1.4*	0.4	1.3*	-0.7*
85+ ^a		1.5	0.0	-1.2*	-0.2	1.1*	0.1

* Average annual percent change is significantly different from zero ($p < 0.05$).

^a Rates cannot be calculated for 75-79, 80-84, and 85+ because population data are only available for 75+ from 1930 to 1939.

na = not applicable; estimated annual percent change was not calculated because one or more age-specific rates was equal to zero.

Source: Vital Statistics of the United States [ref. 10-14]; see also *Cautions in the Interpretations of Long-Term Trends Data*.

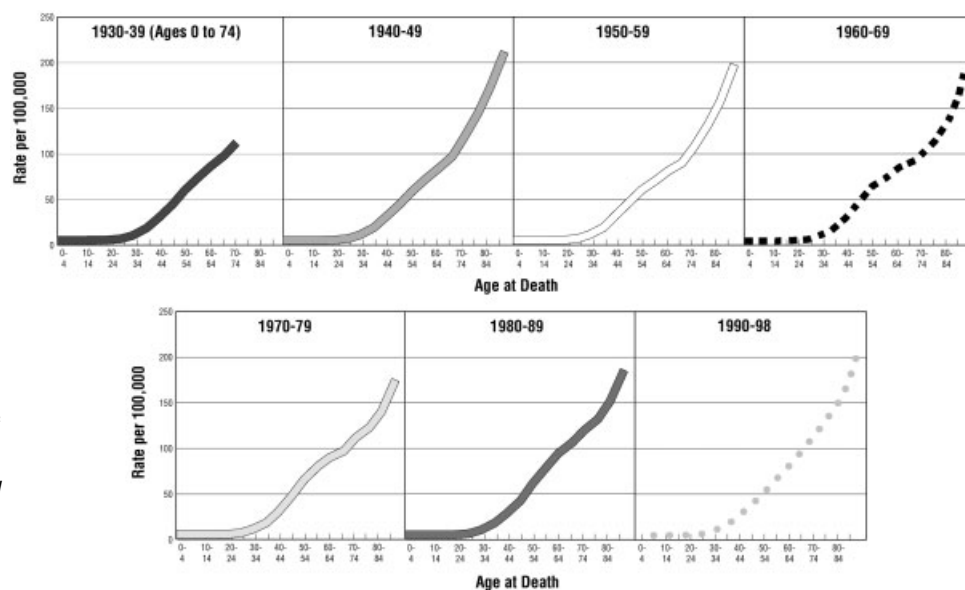


FIGURE 12. Female age-specific death rates for cancer of the breast, separated by age at and decade of death, 1930–1998, United States. Source: *Vital Statistics of the United States*^{10–14}; see also the section entitled “Cautions in the Interpretation of Long-Term Trends Data” in the current article.

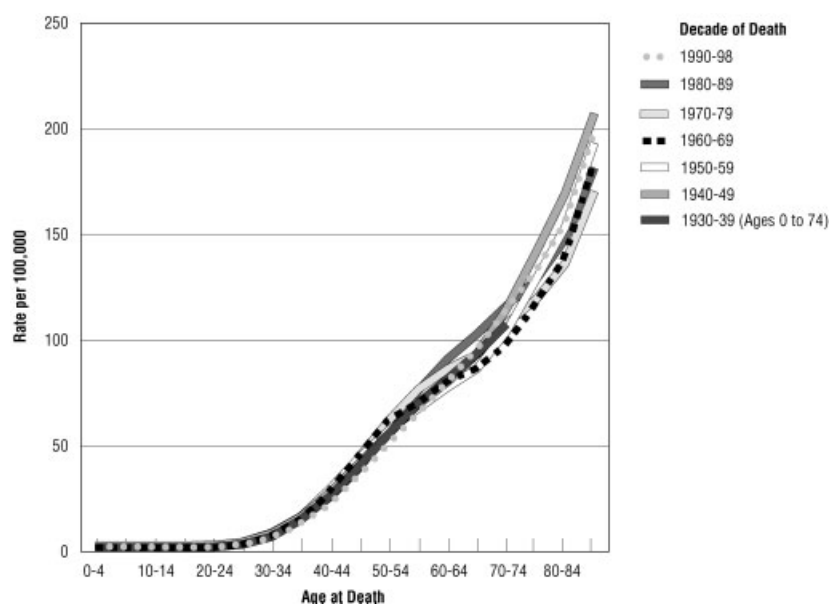


FIGURE 13. Female age-specific death rates for cancer of the breast, by age at and decade of death, 1930–1998, United States. Source: *Vital Statistics of the United States*^{10–14}; see also the section entitled “Cautions in the Interpretation of Long-Term Trends Data” in the current article.

TABLE 10
Deaths and Death Rates for Cancer of the Colon, Rectum, Anal Canal, and Small Intestine, by Gender and Year of Death,
1930-1998, United States

Year	Males				Females			
	Number	Rate			Number	Rate		
		Crude	1970 ^a	2000 ^b		Crude	1970 ^a	2000 ^b
1930	7,531	12.7	18.9	23.0	8,505	14.7	21.9	27.1
1931	7,823	13.1	19.3	23.7	8,981	15.4	22.4	27.7
1932	8,535	14.2	20.6	25.2	9,359	15.9	22.9	28.5
1933	9,266	14.6	21.0	25.7	10,078	16.2	23.1	28.7
1934	10,050	15.8	22.2	27.1	10,795	17.2	24.0	29.7
1935	10,252	16.0	22.3	27.5	11,274	17.9	24.4	30.2
1936	10,806	16.8	22.9	28.2	11,881	18.7	25.3	31.5
1937	11,588	17.9	24.3	29.9	12,284	19.2	25.5	31.9
1938	12,312	18.9	25.3	31.2	12,821	19.8	26.0	32.4
1939	12,808	19.5	25.9	32.1	13,342	20.5	26.4	33.0
1940	13,371	20.2	26.5	32.8	13,679	20.8	26.6	33.5
1941	13,447	20.1	26.2	32.5	13,894	20.9	26.4	33.1
1942	13,820	20.4	26.4	32.7	14,071	20.9	26.1	33.1
1943	14,506	21.2	27.0	33.6	14,968	21.9	27.0	34.1
1944	14,844	21.4	27.2	33.7	15,450	22.4	27.1	34.3
1945	15,570	22.2	28.0	34.9	15,949	22.8	27.2	34.5
1946	15,847	22.4	27.8	34.8	16,392	23.2	27.2	34.5
1947	16,388	22.8	28.2	35.5	16,947	23.5	27.5	35.2
1948	16,820	23.0	28.3	35.8	17,212	23.4	27.1	34.8
1949	16,282	21.9	26.9	34.2	16,976	22.7	25.9	33.2
1950	16,356	21.7	26.3	33.1	17,027	22.4	25.2	32.3
1951	16,220	21.1	25.5	32.3	17,400	22.5	24.9	31.9
1952	16,937	21.7	26.0	32.8	17,581	22.3	24.5	31.5
1953	17,341	21.9	26.1	33.0	18,048	22.5	24.5	31.4
1954	17,525	21.8	25.7	32.6	18,509	22.6	24.3	31.2
1955	17,979	21.9	25.9	33.1	18,866	22.7	24.1	31.1
1956	18,507	22.2	26.1	33.3	19,087	22.5	23.7	30.4
1957	18,727	22.1	25.9	33.0	19,519	22.6	23.5	30.4
1958	18,811	21.8	25.6	32.6	19,679	22.4	23.2	29.9
1959	19,129	21.8	25.5	32.6	20,090	22.4	22.9	29.5
1960	19,532	21.9	25.7	32.9	20,629	22.7	23.1	29.8
1961	19,974	22.0	25.7	32.9	21,131	22.7	22.9	29.5
1962	20,080	21.8	25.6	32.9	21,355	22.6	22.5	29.0
1963	20,184	21.6	25.3	32.5	21,660	22.6	22.3	28.8
1964	20,652	21.8	25.5	32.7	21,840	22.4	21.9	28.3
1965	21,265	22.2	26.0	33.5	22,013	22.3	21.5	27.8
1966	21,392	22.1	25.8	33.2	22,775	22.8	21.7	28.1
1967	21,409	21.9	25.5	32.7	22,819	22.6	21.2	27.4
1968	21,872	22.2	25.7	33.1	23,228	22.7	21.1	27.3
1969	22,402	22.6	26.1	33.7	23,510	22.7	20.9	27.0
1970	22,520	22.5	26.0	33.5	24,145	23.1	21.0	27.0
1971	22,764	22.4	25.7	33.1	24,247	22.9	20.4	26.4
1972	23,408	22.8	26.0	33.5	24,570	22.9	20.1	26.1
1973	23,039	22.3	25.3	32.8	25,162	23.2	20.1	26.0
1974	24,212	23.2	26.2	33.8	25,791	23.6	20.1	26.1
1975	24,165	22.9	25.6	33.1	25,895	23.4	19.7	25.5
1976	24,905	23.4	26.0	33.7	26,824	24.0	19.8	25.8
1977	25,339	23.6	25.9	33.6	26,932	23.9	19.4	25.2
1978	26,048	24.0	26.2	34.2	27,934	24.5	19.5	25.5
1979	26,474	24.2	26.1	34.0	28,085	24.3	19.2	25.0
1980	27,065	24.6	26.3	34.4	28,412	24.4	19.0	24.9
1981	26,915	24.1	25.6	33.4	28,564	24.2	18.6	24.4
1982	27,400	24.3	25.6	33.5	28,743	24.1	18.3	23.9
1983	27,967	24.6	25.7	33.6	28,966	24.1	18.0	23.6

(continued)

TABLE 10
(continued)

Year	Males				Females			
	Number	Rate			Number	Rate		
		Crude	1970(a)	2000(b)		Crude	1970(a)	2000(b)
1984	28,468	24.8	25.7	33.6	29,989	24.8	18.3	24.0
1985	28,669	24.8	25.5	33.2	29,883	24.5	17.8	23.5
1986	28,472	24.4	25.0	32.6	29,372	23.8	17.3	22.7
1987	28,832	24.4	24.9	32.4	29,418	23.7	17.0	22.3
1988	28,476	23.9	24.2	31.6	29,271	23.3	16.6	21.8
1989	28,634	23.8	23.9	31.3	29,377	23.2	16.2	21.5
1990	29,014	23.9	24.0	31.5	29,184	22.9	15.9	21.1
1991	28,626	23.3	23.1	30.2	29,297	22.7	15.7	20.7
1992	28,801	23.1	22.7	29.8	29,262	22.4	15.3	20.3
1993	28,749	22.9	22.2	29.1	29,786	22.6	15.3	20.3
1994	29,067	22.9	22.0	28.8	29,485	22.1	14.9	19.8
1995	29,043	22.6	21.6	28.2	29,782	22.1	14.8	19.7
1996	28,566	22.1	20.8	27.2	29,321	21.6	14.3	19.1
1997	28,699	21.9	20.5	26.8	29,203	21.3	14.0	18.7
1998	28,622	21.7	20.0	26.1	29,489	21.3	14.0	18.6

^a Rates are per 100,000 and are age-adjusted to the 1970 U.S. standard population.^b Rates are per 100,000 and are age-adjusted to the 2000 U.S. standard population.**Source:** Vital Statistics of the United States [ref. 10-14]; see also *Cautions in the Interpretations of Long-Term Trends Data*.

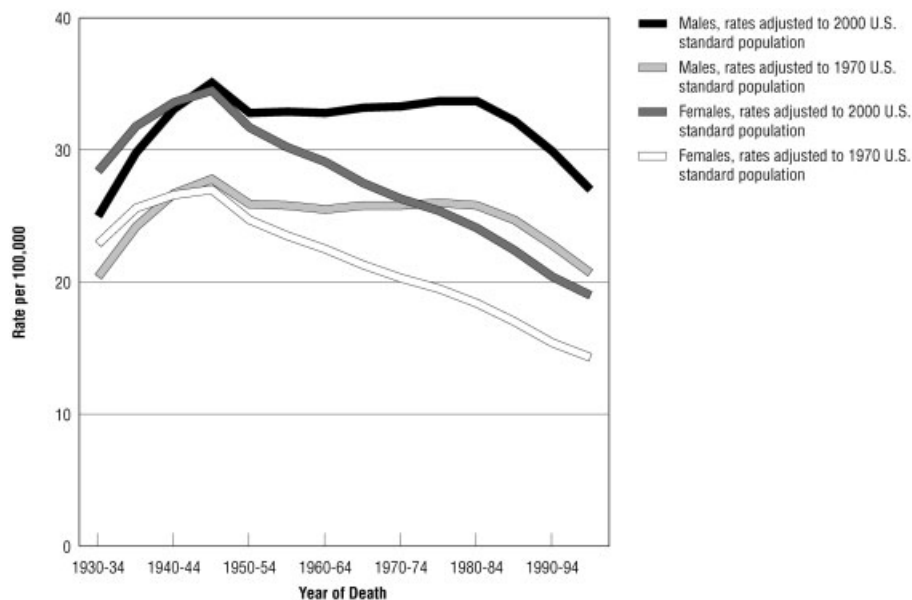


FIGURE 14. Death rates for cancer of the colon, rectum, anal canal, and small intestine, by gender and year of death, 1930–1998, United States. Source: *Vital Statistics of the United States*^{10–14}; see also the section entitled “Cautions in the Interpretation of Long-Term Trends Data” in the current article.

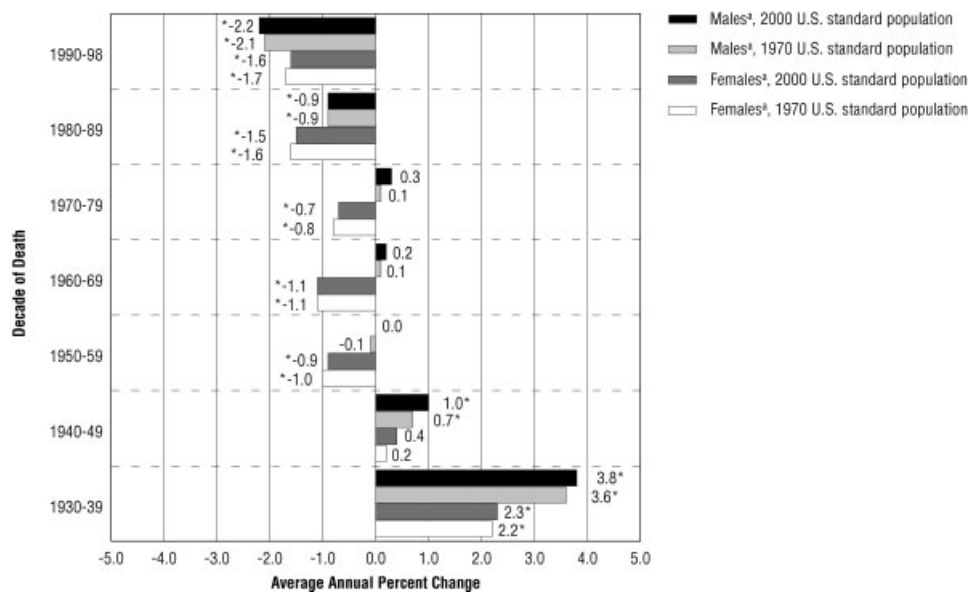


FIGURE 15. Average annual percent change^a in death rates for cancer of the colon, rectum, anal canal, and small intestine, by gender and decade of death, 1930–1998, United States. ^aAverage annual percent change is based on rates adjusted to 2000 or 1970 U.S. standard population. *Average annual percent change is significantly different from zero ($p < 0.05$). Source: *Vital Statistics of the United States*^{10–14}; see also the section entitled “Cautions in the Interpretation of Long-Term Trends Data” in the current article.

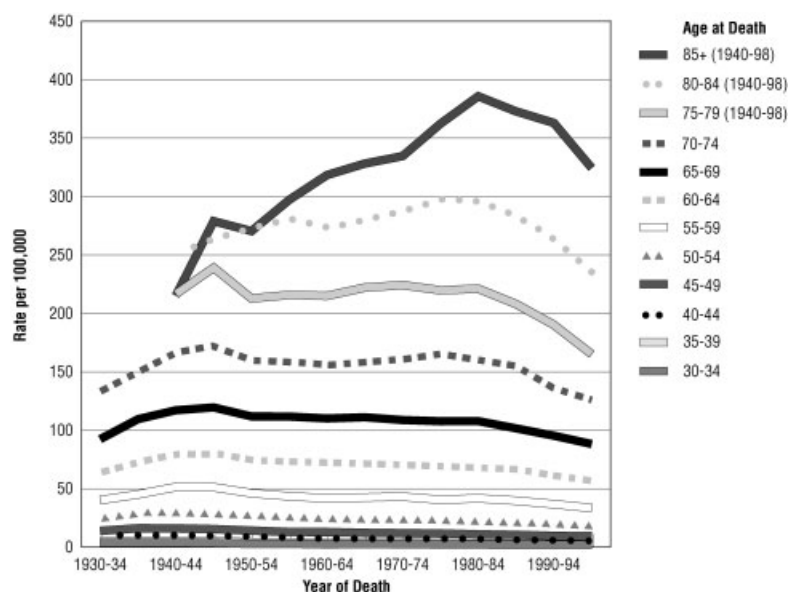


FIGURE 16. Male death rates for cancer of the colon, rectum, anal canal, and small intestine, by age at and year of death, 1930–1998, United States. Source: *Vital Statistics of the United States*^{10–14}; see also the section entitled “Cautions in the Interpretation of Long-Term Trends Data” in the current article.

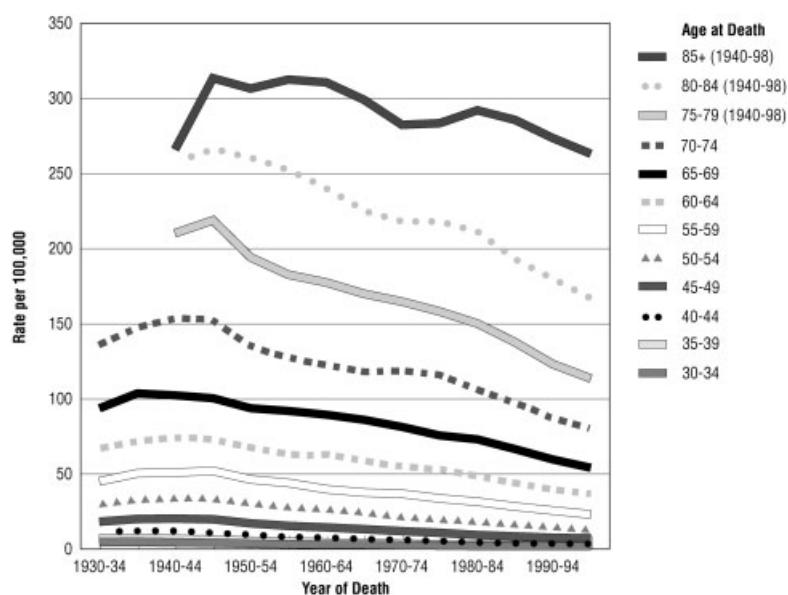


FIGURE 17. Female death rates for cancer of the colon, rectum, anal canal, and small intestine, by age at and year of death, 1930–1998, United States. Source: *Vital Statistics of the United States*^{10–14}; see also the section entitled “Cautions in the Interpretation of Long-Term Trends Data” in the current article.

TABLE 11
Male Deaths and Death Rates^a for Cancer of the Colon, Rectum, Anal Canal, and Small Intestine, by Age at and Year of Death, 1930-1998, United States

Year	0-19		20-24		25-29		30-34		35-39		40-44		45-49		50-54		55-59		60-64		65-69		70-74		75-79 ^b		80-84 ^b		85+ ^b	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate
1930	40	0.2	42	0.8	68	1.5	118	2.7	176	3.9	313	7.8	429	12.1	710	23.5	960	40.7	1103	58.6	1212	87.8	1111	115.5	-	-	-	-	-	-
1931	50	0.2	36	0.7	66	1.4	97	2.2	201	4.5	327	8.0	516	14.5	683	22.5	883	36.2	1095	57.0	1240	87.6	1243	126.8	-	-	-	-	-	-
1932	47	0.2	29	0.6	69	1.4	115	2.6	195	4.5	327	7.9	507	14.0	770	24.7	1047	41.6	1309	66.8	1292	88.8	1272	128.2	-	-	-	-	-	-
1933	58	0.2	34	0.6	80	1.6	136	2.9	196	4.3	354	8.0	526	13.7	839	25.6	1057	39.3	1363	65.4	1472	94.6	1473	140.7	-	-	-	-	-	-
1934	42	0.2	36	0.6	70	1.4	141	3.0	228	5.1	363	8.2	614	15.7	885	28.9	1193	43.3	1497	69.9	1639	102.4	1562	146.4	-	-	-	-	-	-
1935	41	0.2	40	0.7	68	1.3	121	2.5	232	5.2	408	9.2	623	15.6	846	25.0	1179	42.0	1492	67.7	1690	102.7	1549	141.7	-	-	-	-	-	-
1936	46	0.2	27	0.5	69	1.3	133	2.7	229	5.1	430	9.7	662	16.3	999	29.0	1200	42.2	1625	71.9	1731	102.5	1602	142.5	-	-	-	-	-	-
1937	60	0.3	43	0.8	80	1.5	137	2.8	235	5.1	417	9.5	683	16.1	984	27.4	1308	45.4	1731	74.9	1908	113.0	1785	152.3	-	-	-	-	-	-
1938	40	0.2	46	0.8	92	1.7	132	2.7	264	5.7	430	9.8	667	16.5	1092	30.3	1377	47.0	1849	78.5	2022	113.3	1810	151.2	-	-	-	-	-	-
1939	36	0.2	31	0.5	81	1.5	132	3.0	243	5.2	419	9.5	692	16.5	1096	29.7	1461	49.0	1834	76.8	2168	118.3	1944	157.4	-	-	-	-	-	-
1940	38	0.2	33	0.6	64	1.2	144	2.8	223	4.7	439	9.9	690	16.4	1169	31.1	1588	52.2	1924	79.2	2129	113.0	2158	168.9	1590	218.4	842	233.2	333	209.4
1941	40	0.2	33	0.6	87	1.6	146	2.8	224	4.6	413	9.2	705	16.6	1075	28.3	1510	48.7	1969	79.0	2283	118.1	2096	160.1	1612	216.1	908	246.7	340	206.1
1942	31	0.1	37	0.6	94	1.7	141	2.7	232	4.8	378	8.3	648	15.1	1113	28.9	1616	51.2	2011	78.7	2339	117.8	2178	161.8	1664	216.7	975	257.9	357	207.6
1943	53	0.2	43	0.7	72	1.3	182	3.4	273	5.5	405	8.8	671	15.5	1191	30.6	1703	53.0	2010	76.9	2385	117.0	2425	175.3	1680	212.7	1019	264.0	386	216.9
1944	50	0.2	28	0.5	71	1.2	126	2.3	217	4.3	392	8.2	735	16.8	1154	29.3	1702	52.2	2245	84.0	2508	120.0	2425	170.9	1787	219.8	979	246.5	430	235.0
1945	49	0.2	38	0.6	76	1.3	136	2.5	233	4.6	379	8.0	696	15.7	1213	30.5	1800	54.5	2222	81.2	2657	123.6	2476	189.5	2007	238.4	1097	286.2	475	247.4
1946	37	0.2	47	0.8	65	1.1	137	2.5	250	4.9	415	8.7	748	16.8	1172	28.2	1724	51.1	2321	83.0	2599	118.0	2649	176.6	2108	242.0	1060	247.7	510	257.6
1947	53	0.2	46	0.8	75	1.3	129	2.3	264	5.0	408	8.4	681	15.2	1144	28.3	1751	50.9	2345	81.9	2802	124.2	2688	175.5	2206	244.3	1206	266.8	576	279.6
1948	55	0.2	45	0.8	71	1.2	157	2.8	227	4.2	416	8.4	695	15.4	1235	30.3	1848	52.6	2377	81.1	2793	121.1	2732	174.0	2209	236.5	1298	273.3	654	304.2
1949	43	0.2	38	0.7	70	1.2	136	2.4	233	4.6	372	7.4	648	14.3	1137	27.7	1718	47.9	2269	75.5	2637	111.7	2654	165.3	2275	235.0	1340	288.1	681	300.0
1950	29	0.1	38	0.7	86	1.4	121	2.1	244	4.4	386	7.6	647	14.2	1068	25.8	1708	46.9	2420	79.4	2679	108.8	2688	164.0	2157	213.3	1464	283.2	634	262.0
1951	36	0.1	43	0.8	56	0.9	118	2.0	216	3.8	375	7.3	638	14.2	1096	26.4	1696	45.7	2244	72.4	2738	109.4	2684	159.4	2198	211.5	1320	251.9	727	279.6
1952	26	0.1	39	0.7	65	1.1	111	1.9	221	3.9	408	7.8	686	14.5	1049	25.2	1696	45.3	2397	75.8	2968	116.1	2746	158.2	2297	214.3	1494	280.3	724	261.4
1953	35	0.1	29	0.5	68	1.1	97	1.6	209	3.7	403	7.6	684	14.2	1118	26.5	1799	47.9	2408	74.7	2936	112.4	2882	160.9	2351	213.0	1495	273.8	817	273.8
1954	35	0.1	29	0.5	60	1.0	114	1.9	235	4.1	417	7.8	667	13.6	1140	26.7	1704	45.0	2405	73.5	2986	111.9	2931	157.6	2414	212.3	1554	275.5	826	261.1
1955	37	0.1	42	0.8	64	1.1	113	1.9	195	3.4	356	6.6	680	13.6	1095	25.4	1613	42.1	2452	73.9	3079	113.4	3095	160.1	2529	216.0	1669	284.3	953	246.9
1956	25	0.1	33	0.6	60	1.0	119	2.0	218	3.7	392	7.1	664	13.1	1103	25.1	1699	43.9	2552	75.9	3067	111.4	3180	160.1	2719	226.2	1710	280.8	961	292.1
1957	29	0.1	26	0.5	54	0.9	108	1.8	190	3.2	397	7.1	680	12.8	1137	25.4	1715	43.9	2479	73.3	3227	115.0	3253	159.5	2684	216.3	1739	276.5	1019	300.6
1958	16	0.0	27	0.5	56	1.0	131	2.2	222	3.7	391	7.0	652	12.5	1128	24.7	1738	44.2	2435	72.2	3114	108.2	3358	160.5	2712	212.5	1797	279.5	1010	292.8
1959	23	0.1	29	0.5	52	1.0	116	2.0	193	3.2	384	6.8	698	13.2	1158	24.9	1779	43.8	2523	74.5	3184	110.2	3281	152.7	2093	209.3	1856	281.6	1078	303.7
1960	30	0.1	20	0.4	66	1.2	87	1.5	200	3.3	370	6.5	716	13.3	1167	24.6	1753	42.5	2527	74.1	3240	110.5	3443	157.6	2493	213.6	1910	287.2	1097	303.0
1961	21	0.1	29	0.5	52	1.0	110	1.9	201	3.3	374	6.4	715	13.2	1212	25.0	1741	41.3	2498	72.8	3289	111.4	3553	158.5	3105	221.0	1926	275.1	1141	305.9
1962	21	0.1	25	0.4	44	0.8	89	1.5	233	3.8	378	6.4	704	12.9	1189	24.1	1791	41.5	2547	73.7	3281	111.0	3537	154.9	3001	208.4	1927	286.2	1308	346.7
1963	20	0.1	32	0.5	40	0.7	91	1.6	197	3.3	378	6.3	680	12.4	1222	24.5	1846	41.8	2461	70.7	3279	111.1	3647	157.5	3066	210.9	2012	286.3	1210	321.0
1964	24	0.1	32	0.5	60	1.1	97	1.7	219	3.7	404	6.7	683	12.4	1249	24.7	1888	41.9	2638	74.8	3168	107.1	3629	155.2	3361	220.3	2088	270.1	1209	312.4
1965	17	0.0	25	0.4	52	0.9	113	2.0	200	3.4	384	6.3	681	12.3	1245	24.4	1965	43.3	2700	75.4	3335	112.2	3626	154.4	3299	218.9	2251	286.1	1347	338.4
1966	26	0.1	23	0.3	54	0.9	105	1.9	197	3.4	392	6.5	688	12.2	1273	24.8	1924	41.4	2607	71.2	3331	111.4	3722	158.7	3415	224.4	2318	284.4	1312	320.8
1967	25	0.1	29	0.4	47	0.8	86	1.6	166	2.9	363	6.8	719	12.6	1243	23.9	1941	41.4	2724	72.5	3340	110.9	3706	158.1	3377	218.2	2264	271.5	1377	323.2
1968	26	0.1	29	0.4	47	0.8	86	1.6	166	2.9	363	6.8	719	12.6	1243	23.9	1941	41.4	2724	72.5	3340	110.9	3706	158.1	3377	218.2	2264	271.5	1377	323.2
1969	12	0.0	23	0.3	15	0.3	15	0.3	15	0.3	15	0.3	15	0.3	15	0.3	15	0.3	15	0.3	15	0.3	15	0.3	15	0.3	15	0.3	15	0.3

(continued)

TABLE 11
(continued)

Year	0-19		20-24		25-29		30-34		35-39		40-44		45-49		50-54		55-59		60-64		65-69		70-74		75-79 ^b		80-84 ^b		85+ ^b		
	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	
1970	24	0.1	35	0.4	44	0.7	95	1.7	139	2.9	332	5.7	711	12.1	1286	24.0	2085	43.7	2937	72.9	3488	111.6	3653	157.7	3524	225.6	2479	283.0	1665	340.5	1970
1971	23	0.1	36	0.4	72	1.0	93	1.6	165	3.0	353	6.1	669	11.4	1294	23.6	2073	43.0	2937	71.0	3462	109.1	3767	161.5	3558	221.4	2768	287.5	1657	324.9	1971
1972	24	0.1	38	0.4	48	0.6	72	1.2	200	3.7	310	5.4	732	12.6	1320	25.2	2292	45.5	2972	70.5	3600	108.2	3744	160.8	3750	231.6	2682	297.3	1622	310.7	1972
1973	19	0.0	37	0.4	39	0.5	103	1.6	139	2.9	319	5.6	681	11.8	1231	21.6	2044	42.0	2987	69.9	3553	104.8	3788	160.2	3530	219.4	2706	282.5	1838	341.8	1973
1974	19	0.0	31	0.3	57	0.7	124	1.8	179	3.2	328	5.9	705	12.3	1367	23.8	2062	41.8	3140	72.4	3652	100.7	3951	164.0	3611	223.3	2783	287.5	2000	354.0	1974
1975	26	0.1	35	0.4	66	0.8	99	1.4	178	3.1	323	5.9	705	12.3	1354	23.6	2061	40.8	2962	67.8	3877	107.8	3979	163.0	3636	220.0	2667	282.3	1995	350.5	1975
1976	12	0.0	19	0.2	60	0.7	91	1.3	138	2.7	324	5.9	682	12.1	1355	23.7	2072	40.2	3108	70.4	3987	108.5	4136	165.4	3739	222.3	3018	299.4	2141	353.3	1976
1977	27	0.1	32	0.3	70	0.8	115	1.5	189	3.1	329	6.0	622	11.1	1358	23.9	2188	41.3	3380	71.4	4042	107.7	4292	165.7	3681	216.3	2980	284.2	2324	370.7	1977
1978	11	0.0	25	0.2	51	0.5	109	1.4	187	2.9	334	6.0	663	12.0	1339	23.7	2138	39.6	3306	71.3	4106	107.5	4453	166.3	3915	222.1	3941	303.2	2486	378.2	1978
1979	11	0.0	25	0.2	67	0.7	112	1.3	190	2.8	339	6.2	594	10.9	1304	23.2	2257	41.2	3162	69.2	4112	107.4	4632	167.1	3995	218.9	3105	308.3	2508	373.1	1979
1980	15	0.0	36	0.3	57	0.6	99	1.1	190	2.8	338	5.9	624	11.6	1238	22.0	2201	42.0	3156	67.6	4411	113.0	4838	160.9	4274	231.3	3047	299.0	2682	383.3	1980
1981	20	0.1	25	0.2	83	0.8	121	1.3	198	2.8	301	5.1	617	11.5	1202	21.5	2228	40.9	3254	67.7	4276	106.8	4741	161.6	4158	217.6	3064	292.4	2675	381.6	1981
1982	14	0.0	25	0.2	73	0.7	122	1.3	213	2.8	350	5.7	563	10.5	1192	21.7	2228	41.9	3334	67.9	4287	107.0	4727	157.7	4276	217.7	3162	294.4	2798	380.0	1982
1983	11	0.0	26	0.2	64	0.6	120	1.3	201	2.5	347	5.4	630	11.5	1199	22.3	2237	41.4	3407	68.9	4262	104.8	4912	160.6	4442	220.0	3289	298.5	2816	384.7	1983
1984	12	0.0	20	0.2	72	0.7	146	1.5	203	2.4	363	5.4	564	10.1	1181	22.3	2292	42.7	3772	69.2	4448	108.1	4973	159.8	4565	220.2	3316	293.2	2940	380.2	1984
1985	12	0.0	20	0.2	60	0.6	115	1.2	223	2.6	381	5.2	640	11.3	1138	21.7	2232	41.9	3317	69.5	4448	108.1	4973	159.8	4565	220.2	3316	293.2	2940	380.2	1985
1986	10	0.0	32	0.3	62	0.6	104	1.0	218	2.4	328	4.6	622	10.7	1119	21.4	2129	40.2	3361	66.9	4407	103.0	5126	160.4	4562	208.8	3468	284.5	273.9	386.5	1986
1987	10	0.0	20	0.2	60	0.5	145	1.4	241	2.6	377	4.9	642	10.7	1151	22.0	2110	40.4	3401	68.2	4474	102.4	4998	154.1	4722	210.4	3503	283.2	2977	373.1	1987
1988	9	0.0	23	0.2	54	0.5	126	1.2	242	2.6	423	5.3	661	10.4	1076	20.2	1909	37.3	3346	66.9	4386	99.5	4995	151.2	4695	204.1	3531	276.3	3000	370.4	1988
1989	7	0.0	22	0.2	60	0.6	104	1.0	208	2.2	363	4.3	643	9.8	1115	20.5	1949	38.7	3254	65.4	4355	97.5	5069	151.0	4733	201.0	3635	274.8	3117	399.9	1989
1990	5	0.0	17	0.2	57	0.5	111	1.0	246	2.5	378	4.4	682	10.1	1166	21.2	1883	37.6	3153	63.7	4501	99.8	4946	142.5	4696	206.6	3786	279.2	3244	385.7	1990
1991	10	0.0	27	0.3	51	0.5	124	1.1	244	2.4	415	4.5	661	9.6	1127	19.9	1886	37.8	3356	63.4	4335	98.5	4780	134.5	4813	193.6	3751	268.4	3286	370.3	1991
1992	12	0.0	22	0.2	52	0.5	106	1.0	226	2.2	456	4.9	733	9.7	1140	19.5	1831	36.5	3025	61.9	4310	96.3	4837	132.5	4800	188.2	3845	284.3	3401	388.1	1992
1993	9	0.0	24	0.3	69	0.7	116	1.0	221	2.1	430	4.5	733	9.4	1214	19.6	1859	36.3	2918	60.8	4111	91.2	5082	136.3	4855	186.6	3705	246.0	3400	352.7	1993
1994	15	0.0	29	0.3	56	0.6	130	1.2	237	2.2	446	4.6	794	9.6	1329	20.7	1865	35.6	2805	59.2	4197	91.2	5008	132.1	4715	178.1	3880	255.8	3442	343.2	1994
1995	13	0.0	19	0.2	49	0.5	122	1.1	224	2.0	486	4.9	802	9.4	1234	18.6	1888	35.5	2866	60.5	4192	91.2	5008	132.1	4715	178.1	3880	255.8	3442	343.2	1995
1996	7	0.0	21	0.2	51	0.5	120	1.1	225	2.0	440	4.3	878	9.7	1162	17.2	1809	33.2	2791	59.3	4005	88.8	4939	129.1	4570	161.5	3667	237.4	3381	320.1	1996
1997	15	0.0	26	0.3	47	0.5	128	1.2	231	2.1	444	4.2	888	9.6	1359	18.4	1824	32.3	2707	57.0	3800	86.9	4732	124.0	4844	165.6	3871	230.9	3297	396.7	1997
1998	10	0.0	22	0.2	49	0.5	116	1.2	232	2.1	458	4.2	821	8.9	1438	18.8	1908	33.0	2867	55.0	3784	86.2	4940	120.3	4838	161.5	3801	221.3	3675	390.6	1998

^a Rates are per 100,000.^b Rates cannot be calculated for 75-79, 80-84, and 85+ because population data are only available for 75+ from 1950 to 1999.Source: Vital Statistics of the United States [ref. 10-14]; see also *Cautions in the Interpretations of Long-Term Trends Data*.

Article continues on next page.

TABLE 12

Average Annual Percent Change in Death Rates for Cancer of the Colon, Rectum, Anal Canal, and Small Intestine, by Gender and Age at Death, 1930-1998, United States

Age	1930-39	1940-49	1950-59	1960-69	1970-79	1980-89	1990-98
Males							
0-19	-1.3	1.8	-7.7*	-5.3	-6.7	-8.2*	4.5
20-24	-1.1	3.3	-3.3	-5.5*	-7.1*	-2.2	2.4
25-29	0.7	-2.3	-2.4	-2.2	-1.1	-3.4*	-0.3
30-34	1.3	-1.9	0.0	1.2	-1.8	-1.7	2.1*
35-39	3.2*	-0.4	-2.6*	-1.3	-0.9	-2.0*	-2.3*
40-44	2.9*	-1.9*	-1.2*	-0.2	0.6	-2.3*	-0.9
45-49	3.0*	-0.9	-1.5*	-1.0*	-0.7	-1.4*	-0.9
50-54	3.1*	-0.5	-0.6	-0.4	0.0	-0.7*	-1.7*
55-59	2.5*	-0.2	-0.8*	0.3	-1.1*	-1.0*	-2.0*
60-64	3.4*	0.1	-0.4	-0.2	-0.3	-0.3	-1.6*
65-69	3.6*	0.2	0.0	0.0	-0.2	-1.3*	-1.8*
70-74	3.0*	0.5	-0.3	0.3	0.6*	-0.7*	-1.7*
75-79 ^a		1.4*	0.1	0.6*	-0.3	-1.2*	-3.0*
80-84 ^a		1.3*	0.4	0.2	0.7*	-0.9*	-2.6*
85+ ^a		5.0*	1.6*	0.6	1.7*	-0.6*	-2.6*
Age	1930-39	1940-49	1950-59	1960-69	1970-79	1980-89	1990-98
Females							
0-19	2.4	-3.2	-10.1*	-6.8*	-0.1	-3.5	-2.3
20-24	2.7	-1.8	-2.3	-6.6*	0.2	-2.0	0.2
25-29	0.6	-1.6	-0.7	-0.9	-3.1	-5.1*	-0.2
30-34	0.1	-2.0*	-2.9*	-0.3	-1.8	-1.4	0.4
35-39	0.8	-1.4	-2.2*	-2.3*	-2.5	-1.7*	-0.7
40-44	1.4*	-1.8*	-3.0*	-1.8*	-1.8	-2.9*	-1.1*
45-49	2.0*	-0.7	-1.8*	-2.1*	-1.7*	-2.5*	-1.0
50-54	1.9*	-0.1	-1.3*	-1.4*	-1.8*	-1.7*	-2.6*
55-59	2.3*	0.1	-1.1*	-1.2*	-1.7*	-2.2*	-2.2*
60-64	1.5*	-0.3	-1.2*	-1.4*	-0.4	-1.7*	-1.7*
65-69	1.8*	-0.6	-0.5	-0.7*	-1.2*	-1.7*	-2.0*
70-74	1.8*	-0.4	-1.1*	-0.9*	-0.7*	-1.6*	-1.7*
75-79 ^a		0.6	-1.3*	-0.9*	-0.9*	-1.7*	-2.0*
80-84 ^a		0.8	-0.7*	-1.3*	0.0	-1.9*	-1.6*
85+ ^a		3.3*	0.3	-0.7*	0.1	-0.3	-0.9*

* Average annual percent change is significantly different from zero ($p < 0.05$).^a Rates cannot be calculated for 75-79, 80-84, and 85+ because population data are only available for 75+ from 1930 to 1939.Source: Vital Statistics of the United States [ref. 10-14]; see also *Cautions in the Interpretations of Long-Term Trends Data*.

TABLE 13
Female Deaths and Death Rates* for Cancer of the Colon, Rectum, Anal Canal, and Small Intestine, by Age at and Year of Death, 1930-1998, United States

Year	0-19		20-24		25-29		30-34		35-39		40-44		45-49		50-54		55-59		60-64		65-69		70-74		75-79 ^b		80-84 ^b		85+ ^b	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate
1930	24	0.1	25	0.5	83	1.7	164	3.8	283	6.5	389	10.4	551	17.0	785	28.5	927	42.8	1144	65.0	1209	91.5	1242	132.7	-	-	-	-	-	-
1931	18	0.1	33	0.6	80	1.7	146	3.3	258	6.0	470	12.3	626	19.0	828	29.4	995	44.2	1229	68.2	1251	91.9	1233	128.0	-	-	-	-	-	-
1932	27	0.1	32	0.6	60	1.2	139	3.1	279	6.5	444	11.3	578	17.3	870	30.4	1097	47.0	1222	66.2	1282	91.2	1315	133.4	-	-	-	-	-	-
1933	29	0.1	30	0.5	93	1.8	157	3.3	301	6.8	466	11.1	662	18.7	929	30.7	1095	43.8	1260	64.0	1435	95.5	1447	138.5	-	-	-	-	-	-
1934	14	0.1	41	0.7	99	1.9	183	3.8	275	6.2	499	11.7	708	19.5	958	31.1	1232	47.9	1453	71.4	1525	98.3	1538	143.5	-	-	-	-	-	-
1935	27	0.1	34	0.6	87	1.6	183	3.7	328	7.3	469	10.9	749	20.2	983	31.4	1263	48.1	1307	71.6	1609	100.6	1637	148.4	-	-	-	-	-	-
1936	23	0.1	39	0.7	94	1.7	181	3.6	312	6.9	525	12.2	741	19.5	1072	33.6	1292	48.4	1484	68.4	1747	105.8	1675	147.2	-	-	-	-	-	-
1937	21	0.1	47	0.8	81	1.5	191	3.8	319	7.0	549	12.8	741	19.1	1063	32.6	1319	48.7	1617	72.5	1780	104.3	1737	147.8	-	-	-	-	-	-
1938	23	0.1	25	0.4	91	1.6	164	3.2	303	6.5	528	12.3	820	20.7	1122	33.6	1481	53.8	1671	73.4	1873	105.9	1776	146.2	-	-	-	-	-	-
1939	36	0.2	48	0.8	100	1.8	175	3.4	318	6.7	537	12.4	849	21.1	1164	33.9	1488	53.2	1731	74.7	1865	101.8	1920	152.5	-	-	-	-	-	-
1940	19	0.1	32	0.5	81	1.4	172	3.3	301	6.2	552	12.6	822	20.3	1168	33.2	1416	49.4	1760	74.5	2014	106.1	2099	160.6	1667	212.1	1038	247.7	527	249.8
1941	25	0.1	43	0.7	82	1.4	175	3.3	290	5.7	553	12.4	829	20.1	1178	32.9	1480	50.4	1755	72.3	2048	104.7	2106	156.2	1742	214.5	1054	244.5	537	244.1
1942	19	0.1	31	0.5	69	1.2	172	3.2	323	6.5	535	11.8	833	19.9	1227	33.6	1433	48.3	1822	72.9	2017	100.0	2056	147.4	1713	203.2	1150	257.3	641	278.7
1943	32	0.1	35	0.6	84	1.4	169	3.1	306	6.0	567	12.3	885	20.8	1287	34.8	1622	52.7	1890	77.1	2032	97.7	2227	154.5	1848	211.7	1247	271.1	644	269.5
1944	28	0.1	18	0.3	83	1.4	183	3.3	356	6.9	578	12.3	906	21.0	1317	34.8	1702	54.1	1958	74.3	2220	103.7	2248	151.3	1888	210.2	1247	264.8	703	264.6
1945	25	0.1	35	0.6	74	1.2	180	2.9	329	6.3	523	11.0	927	21.2	1310	34.0	1844	57.2	2046	75.6	2241	101.4	2374	154.3	1986	211.3	1301	264.4	767	265.0
1946	24	0.1	35	0.6	82	1.4	185	3.3	310	5.8	529	11.0	935	21.1	1386	35.4	1796	54.5	2042	73.6	2337	102.7	2451	154.2	2119	217.1	1336	258.4	817	300.4
1947	12	0.1	35	0.6	76	1.3	175	3.1	323	6.0	573	11.7	871	19.5	1319	33.2	1708	50.5	2131	74.9	2397	102.3	2580	157.3	2301	228.5	1513	276.6	930	324.0
1948	24	0.1	36	0.6	70	1.1	162	2.8	313	5.7	557	11.2	876	19.5	1318	32.7	1733	50.0	2088	71.9	2440	101.2	2583	152.7	2403	227.3	1616	280.1	973	321.1
1949	19	0.1	23	0.4	80	1.3	157	2.7	285	5.2	529	10.4	838	18.5	1347	32.9	1730	48.6	2119	70.9	2366	95.3	2551	146.3	2323	211.7	1536	251.8	1043	322.9
1950	28	0.1	24	0.4	69	1.1	136	2.3	302	5.3	545	10.6	814	17.8	1237	29.8	1714	47.2	2115	69.6	2519	97.0	2459	136.8	2287	1940	1698	264.9	1070	308.4
1951	15	0.1	36	0.6	61	1.0	180	3.0	317	5.5	508	9.7	814	17.5	1308	31.3	1780	47.3	2110	67.6	2495	93.2	2582	138.7	2355	196.1	1749	263.8	1098	299.2
1952	20	0.1	24	0.4	62	1.0	150	2.4	254	4.3	527	9.9	822	17.2	1279	30.4	1766	46.7	2205	68.4	2464	89.9	2590	133.9	2459	196.9	1788	259.9	1164	301.6
1953	19	0.1	25	0.5	63	1.0	129	2.1	266	4.5	506	9.3	824	16.9	1259	29.6	1823	47.7	2211	66.5	2635	93.7	2714	134.9	2429	188.3	1850	258.4	1272	313.3
1954	13	0.0	29	0.5	65	1.1	134	2.1	294	5.0	536	9.7	832	16.6	1332	30.9	1684	43.5	2268	66.5	2745	96.0	2771	131.8	2570	191.4	1902	254.3	1328	306.6
1955	14	0.0	19	0.4	52	0.9	129	2.0	294	4.9	493	8.8	803	15.7	1227	28.0	1776	45.1	2171	62.1	2836	96.0	2914	132.9	2659	190.9	2022	258.2	1452	320.5
1956	20	0.1	23	0.4	57	1.0	142	2.3	288	4.4	492	8.7	819	15.7	1256	28.1	1784	44.6	2354	65.8	2817	93.3	2884	126.0	2669	184.8	2063	254.6	1435	303.4
1957	11	0.0	21	0.4	60	1.0	146	2.3	261	4.2	478	8.4	792	15.0	1330	28.1	1804	44.8	2294	63.2	2879	92.7	2959	126.1	2767	183.9	2107	246.5	1588	320.2
1958	14	0.0	19	0.4	46	0.8	115	1.9	258	4.1	465	8.0	821	15.3	1253	26.8	1774	42.9	2306	63.1	2869	89.9	3122	129.1	2726	174.2	2204	252.5	1680	325.0
1959	10	0.0	25	0.5	64	1.2	120	2.0	283	4.5	467	8.0	862	15.8	1337	27.9	1834	43.4	2298	62.3	2893	88.7	3096	123.9	2494	180.7	2223	247.6	1606	295.2
1960	10	0.0	22	0.4	42	0.8	97	1.6	248	3.9	461	7.8	841	15.2	1287	26.4	1808	42.0	2408	64.5	2946	90.1	3227	126.4	3069	182.3	2316	253.1	1769	312.0
1961	20	0.1	25	0.4	33	0.6	102	1.7	271	4.2	481	8.0	900	16.1	1333	26.6	1810	40.9	2458	63.2	2947	86.5	3315	124.3	3134	176.8	2445	250.3	1832	312.8
1962	14	0.0	15	0.3	47	0.9	98	1.7	235	3.7	452	7.3	797	14.2	1360	26.6	1787	38.2	2341	61.5	3231	93.5	3444	124.6	3227	176.1	2435	237.1	1869	307.4
1963	13	0.0	29	0.5	44	0.8	106	1.8	225	3.6	469	7.5	776	13.7	1296	24.9	1862	39.7	2346	61.0	3152	90.2	3427	120.2	3380	179.6	2535	236.0	1987	316.9
1964	11	0.0	21	0.3	42	0.7	104	1.8	216	3.5	460	7.3	783	13.6	1372	26.0	1838	37.9	2405	61.6	3084	87.2	3386	122.5	3377	173.3	2559	227.3	1989	304.6
1965	11	0.0	21	0.3	37	0.6	92	1.6	207	3.4	439	6.9	789	13.5	1326	24.7	1862	37.8	2368	59.4	3102	86.7	3588	119.5	3465	173.7	2626	223.3	2067	302.2
1966	15	0.0	19	0.3	34	0.6	105	1.9	207	3.4	425	6.7	774	12.8	1340	24.7	1918	38.3	2418	59.0	3210	88.6	3695	121.9	3570	171.9	2758	225.5	2232	310.9
1967	12	0.0	22	0.3	15	0.2	95	1.7	207	3.5	433	6.8	727	14.0	1348	24.5	1890	37.2	2423	57.3	3191	86.9	3605	117.7	3645	168.6	2898	227.8	2217	316.7
1968	10	0.0	25	0.3	43	0.7	62	1.6	202	3.5	413	6.6	843	13.7	1325	23.7	1939	38.2	2537	58.0	3135	84.1	3649	118.3	3719	168.0	2866	217.8	2407	300.9
1969	6	0.0	13	0.2	46	0.7	90	1.6	178	3.1	436	7.0	766	12.3	1338	23.6	1914	37.0	2573	57.1	3195	84.1	3540	114.0	3737	167.4	231.5	230.5	247.2	292.5

(continued)

TABLE 13
(continued)

Year	0-19		20-24		25-29		30-34		35-39		40-44		45-49		50-54		55-59		60-64		65-69		70-74		75-79 ^b		80-84 ^b		85+ ^b	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate
1970	9	0.0	12	0.1	41	0.6	85	1.5	138	2.8	353	5.7	782	12.5	1308	22.7	2040	38.1	2577	56.1	3285	84.8	3791	121.0	3970	174.4	3150	223.4	2580	280.7
1971	17	0.0	27	0.3	43	0.6	82	1.4	182	3.2	424	7.0	748	11.9	1320	22.4	1930	37.0	2543	53.7	3143	79.3	3786	119.0	3903	164.0	3286	219.2	2791	285.7
1972	12	0.0	8	0.1	32	0.7	70	1.1	160	2.8	358	6.0	730	11.7	1232	20.4	1928	36.2	2572	53.1	3450	84.0	3794	119.0	3952	162.4	3266	207.6	2986	292.7
1973	10	0.0	28	0.3	58	0.7	77	1.2	170	3.0	323	5.5	758	12.3	1292	21.0	1993	37.2	2669	54.2	3441	81.1	3796	116.9	4082	166.2	3590	218.0	2974	263.8
1974	12	0.0	21	0.2	53	0.6	85	1.2	186	3.2	359	6.2	704	11.5	1318	21.2	1915	35.1	2738	54.9	3425	78.1	4001	121.2	3962	157.9	3756	222.6	3252	285.0
1975	15	0.0	17	0.2	46	0.5	83	1.2	132	2.6	361	6.3	670	11.0	1294	20.8	1961	35.0	2682	53.3	3347	73.8	3995	119.5	4180	161.2	3750	216.6	3342	272.4
1976	12	0.0	21	0.2	48	0.5	84	1.1	192	3.2	320	5.6	681	11.4	1285	20.6	1925	33.6	2795	54.9	3551	76.5	4132	120.9	4206	157.9	3829	230.3	3806	278.8
1977	15	0.0	22	0.2	53	0.6	94	1.2	151	2.4	339	5.9	643	10.9	1210	19.5	2026	34.4	2711	52.8	3604	76.1	3995	112.3	4229	155.9	4032	230.3	3741	290.0
1978	18	0.1	19	0.2	39	0.4	111	1.4	163	2.5	300	5.2	613	10.5	1178	19.1	1978	32.8	2767	53.3	3661	76.2	4332	117.3	4468	159.1	4076	221.8	4205	291.4
1979	6	0.0	16	0.2	54	0.6	88	1.0	164	2.4	302	5.1	617	10.7	1150	18.8	2043	33.4	2761	52.1	3702	76.1	4245	110.9	4548	156.9	4076	217.9	4311	283.4
1980	10	0.0	25	0.2	49	0.5	106	1.2	172	2.4	303	5.1	557	9.8	1162	19.1	1995	32.5	2693	48.7	3643	74.7	4398	111.5	4508	153.0	4224	220.5	4562	292.6
1981	5	0.0	23	0.2	47	0.5	84	0.9	153	2.1	293	4.8	570	10.1	1106	18.4	1997	32.7	2642	47.6	3591	72.7	4254	104.8	4718	154.8	4279	216.5	4799	291.0
1982	15	0.0	32	0.3	53	0.5	82	0.9	162	2.0	296	4.7	531	9.4	1073	18.1	1839	30.7	2728	48.2	3650	73.0	4388	105.3	4732	151.0	4278	210.6	4882	283.8
1983	10	0.0	25	0.2	48	0.5	102	1.1	174	2.1	298	4.4	508	8.9	1011	17.5	1876	31.0	2721	47.7	3601	71.2	4466	105.6	4687	145.6	4218	201.8	5219	292.2
1984	7	0.0	12	0.1	41	0.4	79	0.8	182	2.1	315	4.5	522	8.9	1024	18.1	1850	30.9	2812	48.6	3767	73.8	4527	105.3	4856	147.1	4445	206.6	5549	300.3
1985	8	0.0	22	0.2	36	0.3	123	1.2	198	2.2	295	4.1	537	9.0	998	16.7	1769	30.0	2773	47.4	3572	69.2	4438	102.3	4966	146.8	4545	205.1	5640	295.9
1986	*	**	22	0.2	52	0.5	100	1.0	184	2.0	299	4.1	548	9.1	990	17.8	1876	28.7	2640	45.3	3632	69.0	4439	101.0	4730	136.7	4458	195.1	5596	285.1
1987	8	0.0	16	0.2	44	0.4	95	0.9	198	2.1	328	4.1	573	9.1	962	17.3	1885	29.3	2646	45.7	3490	65.1	4396	98.9	4673	137.7	4475	188.9	5627	277.9
1988	10	0.0	17	0.2	34	0.3	101	0.9	201	2.1	330	4.0	533	8.1	924	16.3	1576	28.1	2484	42.9	3621	66.9	4289	95.3	4792	132.8	4442	183.0	5917	285.2
1989	7	0.0	24	0.3	32	0.3	93	0.9	174	1.8	326	3.8	503	7.4	908	15.7	1425	25.9	2380	41.5	3466	63.1	4270	94.0	4956	135.0	4714	188.6	6096	265.3
1990	6	0.0	10	0.1	55	0.5	101	0.9	193	1.9	349	3.9	577	8.2	901	15.5	1382	25.2	2329	41.0	3474	62.5	4177	91.2	4787	128.9	4700	184.0	6142	281.6
1991	5	0.0	18	0.2	38	0.4	116	1.0	194	1.9	375	3.9	565	7.9	886	14.8	1527	28.1	2262	40.5	3006	59.7	4141	88.0	4765	125.6	4729	173.7	6348	275.8
1992	5	0.0	17	0.2	46	0.5	94	0.8	202	1.9	394	4.1	568	7.3	927	15.0	1404	25.7	2128	38.3	3221	58.6	4161	86.4	4684	122.0	4913	182.9	6487	271.3
1993	11	0.0	12	0.1	42	0.4	83	0.7	225	2.1	365	3.8	588	7.2	959	14.7	1384	24.5	2164	38.8	3297	59.9	4283	87.6	4739	122.1	4829	175.7	6821	274.8
1994	6	0.0	14	0.2	34	0.4	101	0.9	194	1.8	394	3.9	655	7.7	948	14.0	1416	24.9	2104	39.4	3169	58.0	4165	84.2	4608	117.5	4968	173.7	6809	260.0
1995	10	0.0	11	0.1	32	0.5	106	1.0	201	1.8	397	3.9	623	7.0	969	13.8	1414	24.5	2004	37.7	3070	56.6	4286	85.5	4787	120.5	4938	172.5	6932	282.6
1996	8	0.0	13	0.2	40	0.4	91	0.8	215	1.9	387	3.7	682	7.3	909	12.7	1339	23.0	1966	37.2	2850	54.7	3988	80.3	4737	116.6	4826	166.2	7149	293.4
1997	5	0.0	7	0.1	35	0.4	105	1.0	213	1.9	391	3.6	740	7.9	965	12.7	1397	22.8	1881	35.4	2745	51.7	3917	79.4	4541	109.2	4842	164.6	7397	269.0
1998	*	**	20	0.2	46	0.5	95	0.9	204	1.8	414	3.7	683	7.1	1045	12.9	1435	22.3	1942	35.9	2794	53.7	3902	79.0	4593	108.6	4859	163.7	7463	280.8

^a Rates are per 100,000.^b Rates cannot be calculated for 75-79, 80-84, and 85+ because population data are only available for 75+ from 1930 to 1939.

* Number of deaths is fewer than 5.

** Rate is not calculated since number of deaths is fewer than 5.

Source: Vital Statistics of the United States [ref. 10-14]; see also *Cautions in the Interpretations of Long-Term Trends Data*.

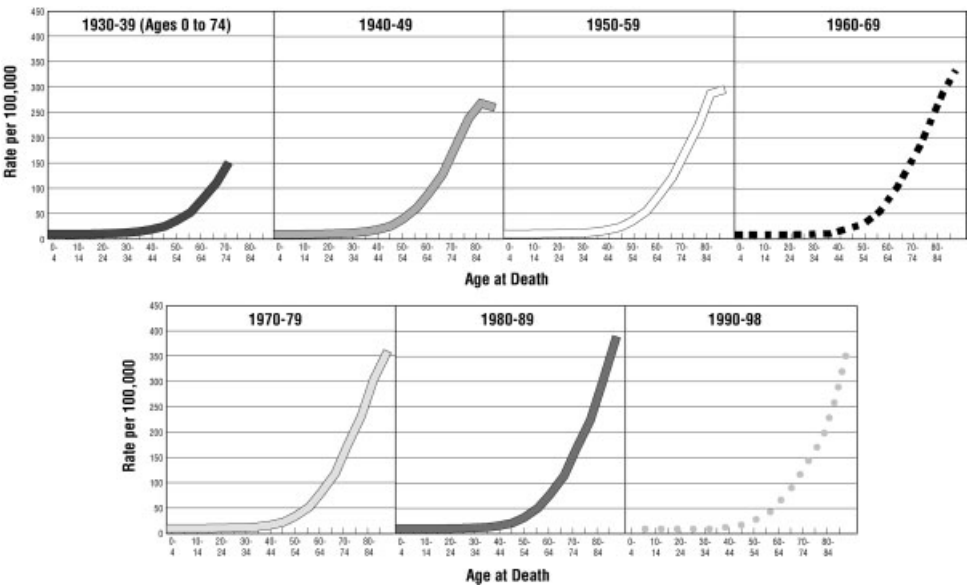


FIGURE 18. Male age-specific death rates for cancer of the colon, rectum, anal canal, and small intestine, separated by age at and decade of death, 1930–1998, United States. Source: *Vital Statistics of the United States*^{10–14}; see also the section entitled “Cautions in the Interpretation of Long-Term Trends Data” in the current article.

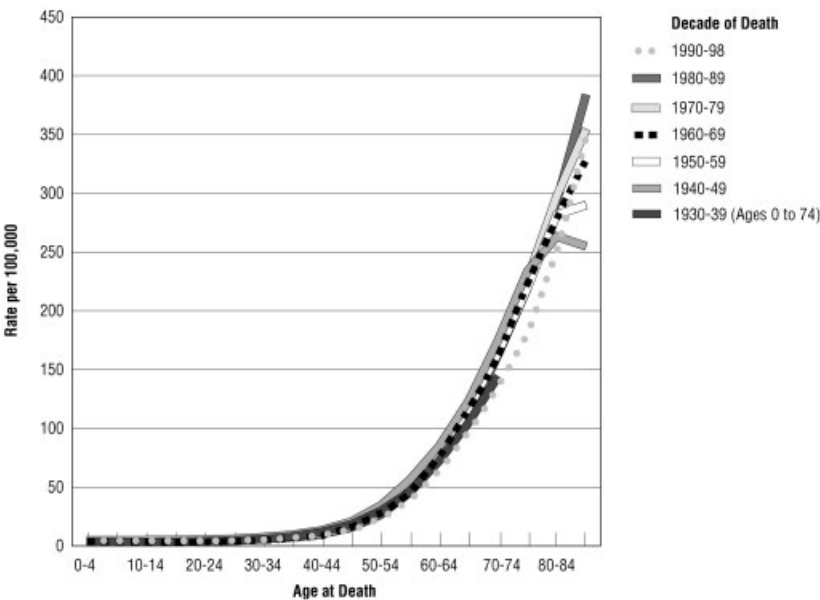


FIGURE 19. Male age-specific death rates for cancer of the colon, rectum, anal canal, and small intestine, by age at and decade of death, 1930–1998, United States. Source: *Vital Statistics of the United States*^{10–14}; see also the section entitled “Cautions in the Interpretation of Long-Term Trends Data” in the current article.

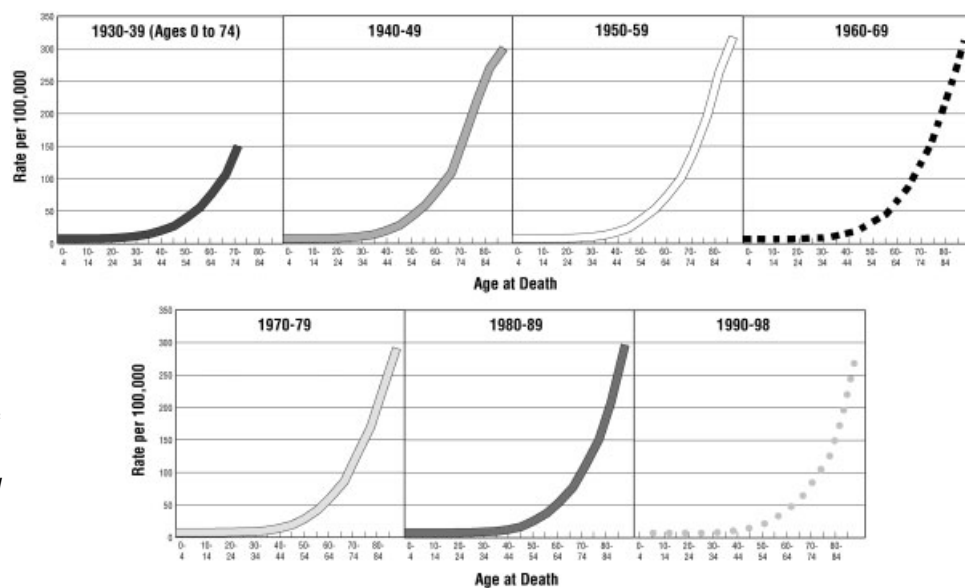


FIGURE 20. Female age-specific death rates for cancer of the colon, rectum, anal canal, and small intestine, separated by age at and decade of death, 1930–1998, United States. Source: *Vital Statistics of the United States*^{10–14}; see also the section entitled “Cautions in the Interpretation of Long-Term Trends Data” in the current article.

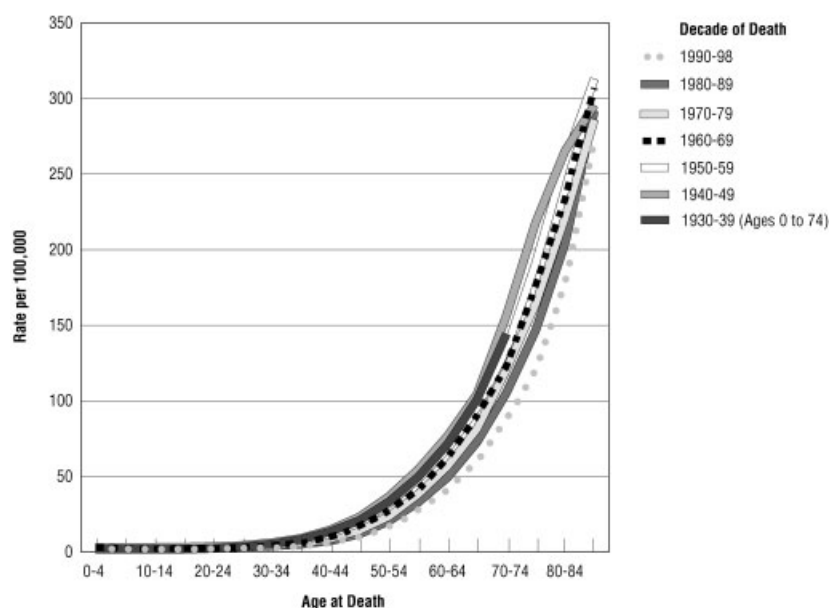


FIGURE 21. Female age-specific death rates for cancer of the colon, rectum, anal canal, and small intestine, by age at and decade of death, 1930–1998, United States. Source: *Vital Statistics of the United States*^{10–14}; see also the section entitled “Cautions in the Interpretation of Long-Term Trends Data” in the current article.

TABLE 14
Deaths and Death Rates for Leukemia, by Gender and Year of Death, 1930-1998, United States

Year	Males				Females			
	Number	Rate			Number	Rate		
		Crude	1970 ^a	2000 ^b		Crude	1970 ^a	2000 ^b
1930	1,485	2.5	2.9	3.0	1,023	1.8	2.0	2.1
1931	1,575	2.6	3.0	3.2	1,117	1.9	2.2	2.3
1932	1,572	2.6	3.0	3.2	1,198	2.0	2.3	2.5
1933	1,809	2.9	3.2	3.4	1,279	2.1	2.3	2.5
1934	1,900	3.0	3.3	3.6	1,503	2.4	2.7	2.9
1935	2,053	3.2	3.6	3.8	1,499	2.4	2.6	2.8
1936	2,086	3.2	3.7	3.9	1,542	2.4	2.7	2.9
1937	2,224	3.4	3.8	4.1	1,675	2.6	2.9	3.1
1938	2,403	3.7	4.1	4.5	1,723	2.7	3.0	3.2
1939	2,566	3.9	4.4	4.8	1,929	3.0	3.2	3.5
1940	3,003	4.5	5.1	5.4	2,140	3.3	3.6	3.9
1941	2,995	4.5	5.0	5.3	2,208	3.3	3.6	3.9
1942	3,104	4.6	5.1	5.5	2,330	3.5	3.7	4.0
1943	3,260	4.8	5.3	5.7	2,398	3.5	3.8	4.0
1944	3,455	5.0	5.5	5.9	2,485	3.6	3.8	4.1
1945	3,622	5.2	5.6	6.1	2,682	3.8	4.1	4.4
1946	3,855	5.5	5.9	6.5	2,753	3.9	4.1	4.5
1947	4,242	5.9	6.5	7.2	3,051	4.2	4.5	4.8
1948	4,512	6.2	6.7	7.5	3,270	4.4	4.7	5.1
1949	4,705	6.3	6.9	7.6	3,397	4.5	4.7	5.2
1950	5,058	6.7	7.3	8.2	3,787	5.0	5.1	5.7
1951	5,458	7.1	7.7	8.7	3,899	5.0	5.2	5.8
1952	5,612	7.2	7.8	8.8	4,229	5.4	5.5	6.2
1953	5,740	7.2	7.9	9.1	4,178	5.2	5.3	6.0
1954	5,989	7.4	8.1	9.4	4,454	5.4	5.5	6.2
1955	6,303	7.7	8.4	9.6	4,513	5.4	5.5	6.2
1956	6,523	7.8	8.5	9.8	4,873	5.7	5.8	6.6
1957	6,745	8.0	8.6	9.9	4,973	5.8	5.8	6.6
1958	6,956	8.1	8.9	10.4	5,024	5.7	5.7	6.5
1959	7,123	8.1	8.8	10.2	5,147	5.7	5.7	6.6
1960	7,371	8.3	9.0	10.5	5,354	5.9	5.9	6.7
1961	7,569	8.3	9.2	10.9	5,304	5.7	5.6	6.5
1962	7,493	8.1	9.0	10.6	5,504	5.8	5.7	6.7
1963	7,807	8.4	9.2	11.0	5,700	5.9	5.8	6.7
1964	7,746	8.2	9.0	10.8	5,707	5.9	5.7	6.7
1965	7,840	8.2	9.1	10.9	5,788	5.9	5.7	6.7
1966	8,060	8.3	9.3	11.2	5,952	6.0	5.7	6.8
1967	8,222	8.4	9.4	11.3	6,114	6.0	5.8	6.8
1968	8,174	8.3	9.2	11.2	6,201	6.1	5.8	6.9
1969	8,256	8.3	9.3	11.3	6,194	6.0	5.6	6.8
1970	8,128	8.1	9.0	11.0	6,364	6.1	5.7	6.8
1971	8,206	8.1	9.0	11.0	6,263	5.9	5.5	6.6
1972	8,184	8.0	8.9	10.9	6,218	5.8	5.3	6.4
1973	8,262	8.0	8.8	10.9	6,216	5.7	5.2	6.3
1974	8,231	7.9	8.7	10.8	6,344	5.8	5.2	6.3
1975	8,382	8.0	8.7	10.9	6,372	5.8	5.1	6.2
1976	8,556	8.0	8.8	10.8	6,500	5.8	5.1	6.2
1977	8,611	8.0	8.7	10.8	6,718	6.0	5.1	6.3
1978	8,683	8.0	8.6	10.8	6,708	5.9	5.0	6.1
1979	9,006	8.2	8.8	11.0	7,122	6.2	5.2	6.4
1980	9,306	8.5	9.0	11.2	7,367	6.3	5.2	6.5
1981	9,189	8.2	8.7	10.9	7,229	6.1	5.0	6.2
1982	9,357	8.3	8.7	11.0	7,497	6.3	5.1	6.3
1983	9,427	8.3	8.6	10.9	7,548	6.3	5.0	6.3

(continued)

TABLE 14
(continued)

Year	Males				Females			
	Number	Rate			Number	Rate		
		Crude	1970 ^a	2000 ^b		Crude	1970 ^a	2000 ^b
1984	9,378	8.2	8.4	10.7	7,836	6.5	5.1	6.4
1985	9,543	8.2	8.5	10.7	7,908	6.5	5.1	6.3
1986	9,662	8.3	8.4	10.7	7,829	6.4	4.9	6.1
1987	9,459	8.0	8.1	10.3	7,936	6.4	4.9	6.1
1988	9,812	8.2	8.3	10.6	7,881	6.3	4.7	6.0
1989	10,117	8.4	8.4	10.6	8,239	6.5	4.9	6.1
1990	10,270	8.5	8.5	10.8	8,420	6.6	4.9	6.2
1991	10,257	8.3	8.2	10.5	8,795	6.8	5.0	6.3
1992	10,681	8.6	8.4	10.7	8,689	6.7	4.9	6.1
1993	10,839	8.6	8.4	10.6	8,817	6.7	4.8	6.1
1994	10,917	8.6	8.3	10.5	8,850	6.6	4.8	6.0
1995	11,316	8.8	8.4	10.8	8,948	6.7	4.7	6.0
1996	11,231	8.7	8.2	10.5	9,191	6.8	4.8	6.1
1997	11,345	8.7	8.1	10.4	9,076	6.6	4.7	5.9
1998	11,272	8.5	7.9	10.1	9,148	6.6	4.6	5.9

^a Rates are per 100,000 and are age-adjusted to the 1970 U.S. standard population.^b Rates are per 100,000 and are age-adjusted to the 2000 U.S. standard population.**Source:** Vital Statistics of the United States [ref. 10-14]; see also *Cautions in the Interpretations of Long-Term Trends Data*.

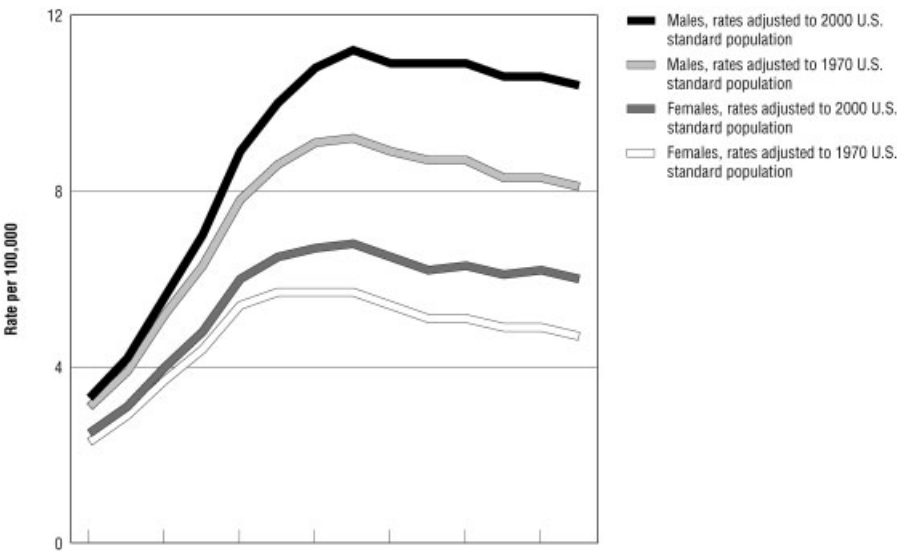


FIGURE 22. Death rates for leukemia, by gender and year of death, 1930–1998, United States. Source: *Vital Statistics of the United States*^{10–14}; see also the section entitled “Cautions in the Interpretation of Long-Term Trends Data” in the current article.

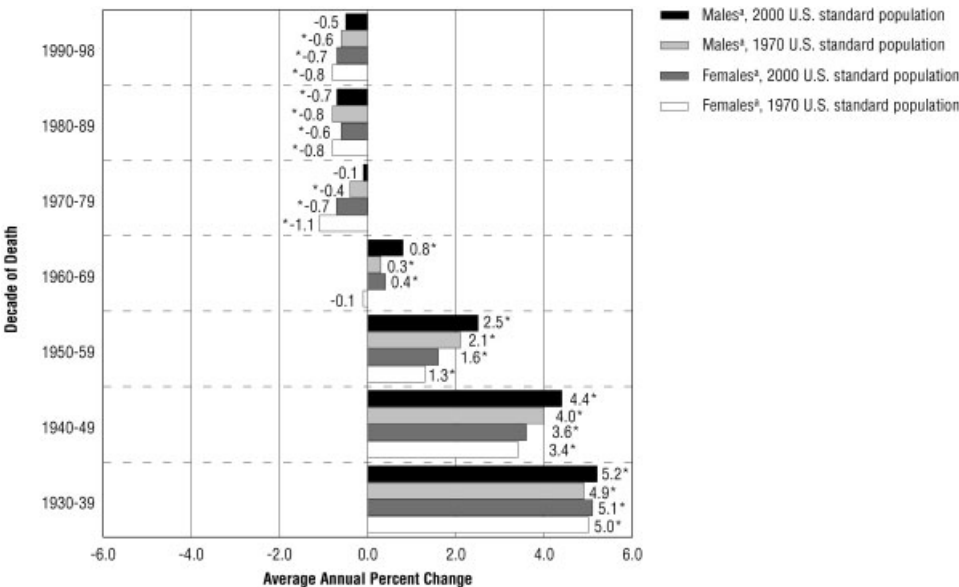


FIGURE 23. Average annual percent change^a in death rates for leukemia, by gender and decade of death, 1930–1998, United States. ^aAverage annual percent change is based on rates adjusted to 2000 or 1970 U.S. standard population. *Average annual percent change is significantly different from zero ($p < 0.05$). Source: *Vital Statistics of the United States*^{10–14}; see also the section entitled “Cautions in the Interpretation of Long-Term Trends Data” in the current article.

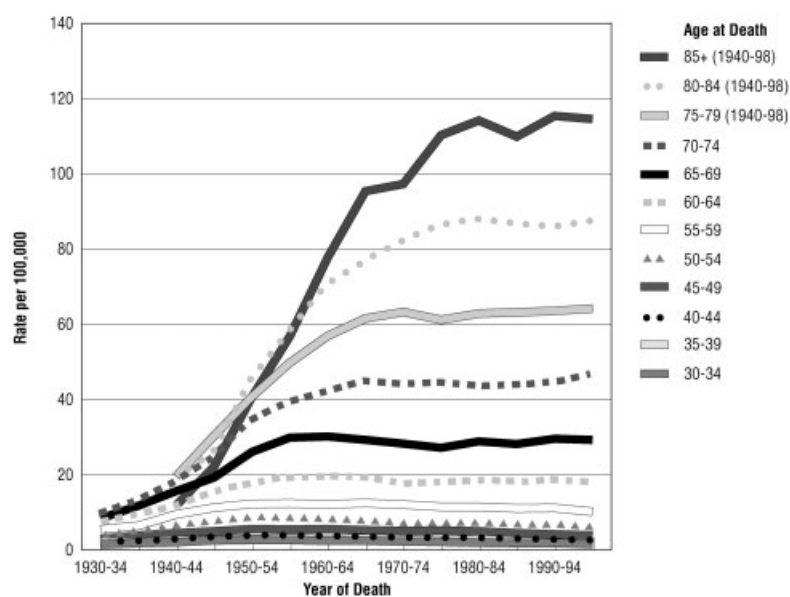


FIGURE 24. Male death rates for leukemia, by age at and year of death, 1930–1998, United States. Source: *Vital Statistics of the United States*^{10–14}; see also the section entitled “Cautions in the Interpretation of Long-Term Trends Data” in the current article.

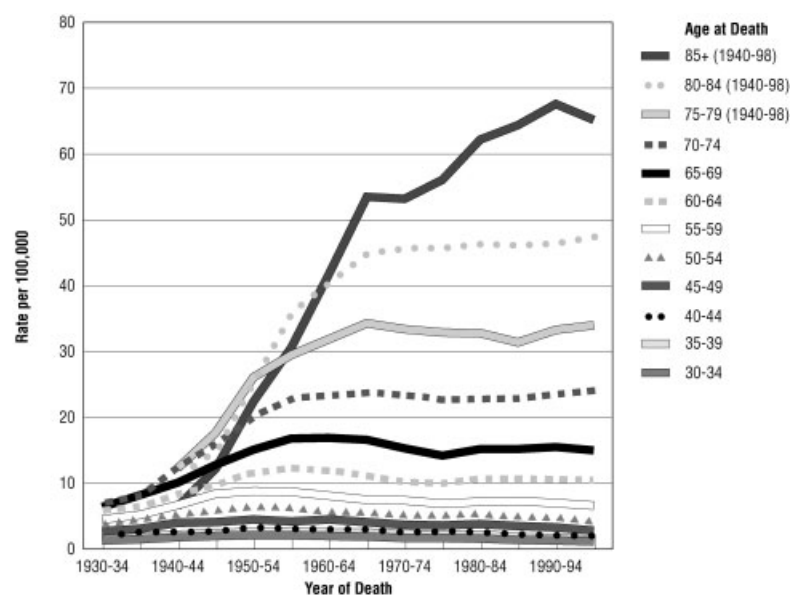


FIGURE 25. Female death rates for leukemia, by age at and year of death, 1930–1998, United States. Source: *Vital Statistics of the United States*^{10–14}; see also the section entitled “Cautions in the Interpretation of Long-Term Trends Data” in the current article.

TABLE 15
Male Deaths and Death Rates^a for Leukemia, by Age at and Year of Death, 1930-1998, United States

Year	0-19		20-24		25-29		30-34		35-39		40-44		45-49		50-54		55-59		60-64		65-69		70-74		75-79 ^b		80-84 ^b		85+ ^b	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate
1930	464	2.0	58	1.1	54	1.2	51	1.2	72	1.6	83	2.1	103	2.9	103	3.4	132	5.6	116	6.2	111	8.0	78	8.1	-	-	-	-	-	-
1931	443	2.0	63	1.2	57	1.2	65	1.5	91	2.1	90	2.2	110	3.1	117	3.8	139	5.7	123	6.4	127	9.0	83	8.5	-	-	-	-	-	-
1932	403	1.8	60	1.2	59	1.2	60	1.4	88	2.0	97	2.3	106	2.9	115	3.7	137	5.4	160	8.2	118	8.1	94	9.5	-	-	-	-	-	-
1933	454	1.9	78	1.4	46	0.9	88	1.9	116	2.6	123	2.8	109	2.8	151	4.6	153	5.7	165	7.9	132	8.5	114	10.9	-	-	-	-	-	-
1934	519	2.2	87	1.6	69	1.3	80	1.7	98	2.2	116	2.6	115	2.9	138	4.1	145	5.3	188	8.8	135	8.4	113	10.6	-	-	-	-	-	-
1935	509	2.2	61	1.1	97	1.9	71	1.5	90	2.0	122	2.7	137	3.4	145	4.3	163	6.5	216	9.8	196	11.9	125	11.4	-	-	-	-	-	-
1936	534	2.3	75	1.3	62	1.2	81	1.7	84	1.9	133	3.0	150	3.7	156	4.5	179	6.2	201	8.7	193	11.4	129	11.5	-	-	-	-	-	-
1937	548	2.4	81	1.4	74	1.4	107	2.2	90	2.0	121	2.7	156	3.8	184	5.2	179	6.2	201	8.7	213	12.3	154	13.3	-	-	-	-	-	-
1938	567	2.5	88	1.6	101	1.9	115	2.3	110	2.4	121	2.8	167	4.0	191	5.3	188	6.4	248	10.5	200	11.2	175	14.6	-	-	-	-	-	-
1939	565	2.5	75	1.3	92	1.7	92	1.8	115	2.4	139	3.2	201	4.8	214	5.8	211	7.1	288	11.2	221	12.1	181	14.5	-	-	-	-	-	-
1940	690	3.0	106	1.8	90	1.6	106	2.1	128	2.7	161	3.6	198	4.7	250	6.6	266	8.8	308	12.7	263	14.0	198	15.5	147	20.2	79	21.9	11	6.9
1941	689	3.1	98	1.7	100	1.8	95	1.8	119	2.5	132	2.9	173	4.1	230	6.0	305	9.8	279	11.2	329	17.0	227	17.3	125	16.8	63	17.1	19	11.5
1942	674	2.9	111	1.9	100	1.8	115	2.2	126	2.6	132	2.9	203	4.7	271	7.0	304	9.6	278	10.9	303	15.3	237	17.6	149	19.4	71	18.8	28	16.3
1943	700	3.0	119	2.0	113	2.0	106	2.0	110	2.2	156	3.4	215	5.0	264	6.8	298	9.3	314	12.0	326	16.0	273	19.7	176	22.3	66	17.1	24	13.5
1944	781	3.3	107	1.8	109	1.9	134	2.5	149	3.0	146	3.1	187	4.3	263	6.7	326	10.0	345	12.9	340	16.3	307	21.6	157	19.3	82	20.8	20	10.9
1945	781	3.3	134	2.2	111	1.9	142	2.6	124	2.4	169	3.6	193	4.4	297	7.5	358	10.8	365	13.3	354	16.5	302	20.7	181	21.5	80	19.6	31	16.1
1946	783	3.3	102	1.7	128	2.2	149	2.7	133	2.6	168	3.5	230	5.2	293	7.3	370	11.0	402	14.4	387	17.6	338	22.5	227	26.1	103	24.1	41	20.7
1947	869	3.6	116	2.0	105	1.8	156	2.8	123	2.3	176	3.6	228	5.1	302	7.5	374	10.9	467	16.3	446	19.8	424	27.6	289	32.0	112	24.8	54	26.2
1948	869	3.5	118	2.0	132	2.2	137	2.5	157	2.9	189	3.8	237	5.3	320	7.9	426	12.1	511	17.4	488	21.2	419	26.7	313	33.5	148	31.2	46	21.4
1949	1009	4.0	132	2.3	140	2.3	135	2.4	163	3.0	181	3.6	224	5.2	300	7.3	426	11.9	506	16.8	504	21.3	406	25.3	364	37.6	144	28.9	58	25.6
1950	1024	3.9	93	1.6	151	2.5	151	2.6	172	3.1	203	4.0	237	5.2	328	7.9	408	11.2	538	17.6	556	22.8	568	34.7	368	36.7	180	34.8	79	32.6
1951	1074	4.0	127	2.2	137	2.3	165	2.8	150	2.7	227	4.4	263	5.7	366	8.8	478	12.9	571	18.4	652	26.1	525	31.2	408	39.4	205	39.1	106	40.8
1952	1067	3.7	130	2.4	132	2.2	140	2.4	164	2.9	228	4.3	253	5.4	363	8.7	468	12.5	576	18.2	682	26.7	611	35.2	421	39.3	254	47.7	97	35.0
1953	1067	3.7	97	1.8	128	2.2	155	2.6	182	3.2	222	4.2	297	6.2	332	7.9	487	13.0	562	17.4	716	27.4	595	33.2	455	41.2	275	50.4	132	45.2
1954	1068	3.9	143	2.7	144	2.5	161	2.6	195	3.4	235	4.3	273	5.5	374	8.7	486	12.7	612	18.4	734	27.5	702	37.7	529	46.5	304	53.9	147	47.9
1955	1193	3.9	109	2.1	151	2.6	179	3.0	168	2.8	236	4.3	270	5.3	371	8.5	520	13.4	656	19.5	796	28.9	766	38.6	589	49.0	358	58.8	169	51.4
1956	1183	3.8	109	2.1	151	2.6	179	3.0	168	2.8	236	4.3	270	5.3	371	8.5	520	13.4	656	19.5	796	28.9	766	38.6	589	49.0	358	58.8	169	51.4
1957	1286	3.8	125	2.4	148	2.6	161	2.7	201	3.4	216	3.9	316	6.1	377	8.4	484	12.4	681	20.1	848	30.2	792	38.8	622	50.1	373	59.3	165	48.7
1958	1304	3.9	103	1.9	117	2.1	147	2.4	211	3.5	238	4.2	280	5.3	388	8.5	447	11.5	681	20.2	845	29.6	856	40.9	664	52.0	417	64.9	247	71.6
1959	1360	4.0	118	2.2	117	2.1	150	2.5	189	3.1	248	4.4	284	5.4	408	8.8	499	12.3	675	19.9	916	31.7	878	40.9	674	50.9	385	59.9	210	85.9
1960	1437	4.1	122	2.2	162	3.0	158	2.7	195	3.2	243	4.3	311	5.8	411	8.7	524	12.7	687	20.2	857	29.2	885	40.5	711	52.3	433	65.1	235	64.9
1961	1400	3.9	141	2.5	126	2.3	139	2.4	192	3.1	244	4.2	305	5.6	400	8.2	513	12.2	689	19.5	903	30.6	917	40.9	791	56.3	515	73.6	301	80.7
1962	1328	3.6	134	2.2	122	2.3	118	2.0	177	2.9	230	3.9	315	5.8	389	7.9	503	11.7	693	20.1	874	29.6	993	43.5	812	56.7	518	71.5	285	76.2
1963	1409	3.7	146	2.3	121	2.2	163	2.9	181	3.0	231	3.9	291	5.3	403	8.1	503	12.9	706	20.3	886	30.4	981	42.4	837	57.6	546	73.1	327	86.7
1964	1318	3.4	123	1.8	133	2.4	149	2.7	179	3.0	234	3.9	294	5.3	436	8.6	522	11.6	696	19.7	929	31.4	973	41.6	908	61.4	543	70.2	307	79.3
1965	1286	3.3	140	2.0	122	2.2	133	2.4	189	3.2	227	3.7	282	4.7	453	8.5	568	12.4	727	20.3	828	27.9	1089	46.4	905	60.2	594	74.7	326	81.9
1966	1350	3.4	162	2.3	117	2.0	145	2.6	178	3.1	247	4.1	298	5.3	419	8.1	593	12.8	743	20.3	840	28.1	1051	44.8	917	60.2	601	73.7	397	97.1
1967	1361	3.5	154	2.0	126	2.1	139	2.5	171	3.0	233	3.9	330	5.8	411	7.9	569	12.1	740	19.7	887	29.8	1027	43.9	977	63.1	659	79.0	404	94.8
1968	1252	3.2	170	2.1	128	2.0	150	2.7	165	2.9	239	4.0	322	5.6	389	7.4	595	12.5	752	19.5	865	29.2	1024	44.1	936	59.8	650	76.5	441	100.2
1969	1239	3.2	160	1.9	147	2.2	131	2.3	175	3.2	245	4.1	295	5.0	415	7.8	595	12.5	716	18.1	900	29.2	1050	45.3	1021	64.8	702	81.3	465	101.3

(continued)

TABLE 15
(continued)

Year	0-19		20-24		25-29		30-34		35-39		40-44		45-49		50-54		55-59		60-64		65-69		70-74		75-79 ^b		80-84 ^b		85+ ^b	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate
1970	1180	3.0	171	2.0	140	2.1	134	2.4	170	3.1	208	3.6	326	5.6	410	7.7	589	12.3	766	19.0	906	29.0	1013	43.7	974	62.4	889	78.7	452	92.4
1971	1169	3.0	166	1.8	155	2.2	155	2.6	139	2.5	211	3.6	296	5.0	383	7.0	577	12.0	735	17.8	883	27.9	1040	44.6	1041	64.8	730	80.7	515	101.0
1972	1008	2.6	198	2.2	148	2.0	118	1.9	168	3.1	226	3.9	270	4.6	388	6.9	622	12.9	708	16.8	974	29.5	1094	47.0	992	61.3	780	83.8	488	93.5
1973	1077	2.7	175	1.9	168	2.1	151	2.3	164	3.0	220	3.9	306	5.3	387	6.8	578	11.9	748	17.5	940	27.7	1002	42.4	1028	63.9	777	81.1	541	100.6
1974	936	2.5	161	1.7	153	1.9	160	2.4	151	2.7	172	3.1	278	4.8	412	7.2	555	11.3	806	18.6	955	27.4	1039	43.1	1034	63.9	840	86.8	558	98.8
1975	864	2.2	198	2.0	167	1.9	165	2.4	135	2.4	214	3.9	286	5.0	388	6.8	615	12.2	776	17.8	945	26.3	1062	43.5	1065	64.4	843	85.9	659	110.9
1976	923	2.4	178	1.8	154	1.7	154	2.1	148	2.5	175	3.2	312	5.5	424	7.4	599	11.6	869	19.7	1033	28.1	1102	44.1	1037	61.7	798	79.2	650	107.3
1977	862	2.3	198	1.9	187	2.1	141	1.8	164	2.7	187	3.4	288	5.2	407	7.2	614	11.6	816	18.3	982	26.2	1169	45.1	1026	60.3	910	89.5	658	104.9
1978	787	2.1	214	2.0	193	2.1	183	2.3	180	2.8	193	3.5	274	5.0	418	7.4	566	10.5	784	17.4	1022	26.8	1190	44.4	1046	59.3	906	90.3	726	111.3
1979	766	2.1	222	2.1	172	1.8	191	2.3	181	2.7	183	3.2	279	5.1	418	7.4	636	11.6	825	18.1	1102	28.4	1247	45.1	1105	60.5	880	88.6	788	116.6
1980	771	2.1	209	2.0	214	2.2	182	2.1	208	3.0	212	3.7	281	5.2	433	7.7	641	11.7	865	19.0	1086	27.8	1318	46.2	1165	63.0	901	88.4	800	117.3
1981	686	1.9	187	1.7	192	1.9	196	2.1	198	2.7	195	3.3	271	5.1	380	6.8	648	11.9	901	18.7	1136	28.7	1306	44.5	1195	62.5	963	91.9	739	105.4
1982	684	1.9	185	1.7	163	1.6	177	1.9	239	3.1	217	3.6	261	4.9	394	7.2	592	11.0	896	18.3	1189	29.7	1267	42.3	1288	65.6	975	90.8	830	115.8
1983	643	1.8	173	1.6	188	1.8	208	2.2	198	2.5	228	3.5	273	5.0	402	7.5	592	11.0	925	18.7	1197	29.4	1317	43.1	1288	63.8	904	82.0	889	121.4
1984	504	1.6	188	1.7	167	1.6	185	1.9	242	2.9	245	3.7	281	4.7	400	7.6	636	11.8	918	18.3	1180	28.7	1318	42.4	1236	59.6	989	87.4	829	111.0
1985	583	1.6	158	1.5	170	1.6	188	1.9	214	2.5	280	3.8	280	4.6	378	7.2	601	11.3	948	18.7	1203	28.8	1361	43.1	1324	62.2	1013	87.1	881	115.8
1986	560	1.6	209	2.0	191	1.7	196	1.9	204	2.2	246	3.5	270	4.6	353	6.8	596	11.3	896	17.8	1203	28.1	1421	44.5	1375	62.9	1071	89.4	870	111.7
1987	552	1.5	166	1.6	170	1.6	196	1.9	235	2.6	243	3.2	259	4.3	355	6.8	559	10.7	900	18.0	1194	27.3	1359	41.9	1369	61.0	1056	85.4	845	105.9
1988	533	1.5	162	1.6	163	1.5	191	1.8	245	2.6	281	3.5	291	4.6	363	6.8	577	11.3	873	17.5	1198	27.2	1425	43.1	1480	64.8	1106	86.5	914	112.8
1989	516	1.4	166	1.7	175	1.6	230	2.1	220	2.3	274	3.3	297	4.5	346	6.4	551	11.0	956	19.2	1321	29.6	1539	45.8	1530	63.0	1146	86.6	863	103.9
1990	516	1.4	151	1.5	191	1.8	207	1.9	224	2.3	241	2.8	282	4.2	410	7.5	573	11.4	905	18.3	1323	29.3	1551	45.6	1525	63.8	1187	87.5	983	116.9
1991	507	1.4	148	1.5	179	1.7	177	1.6	188	1.8	268	2.9	320	4.6	375	6.6	545	10.9	917	18.5	1260	28.1	1649	46.6	1552	62.4	1175	83.5	997	112.4
1992	511	1.4	157	1.6	160	1.6	223	2.0	226	2.2	270	2.9	318	4.2	384	6.6	594	11.8	897	18.3	1386	31.0	1583	42.8	1617	64.6	1275	87.6	1070	115.8
1993	495	1.3	145	1.5	151	1.5	213	1.9	215	2.0	297	3.1	313	4.0	425	6.9	568	11.1	911	19.0	1396	31.0	1641	44.0	1688	64.1	1288	85.5	1112	115.4
1994	436	1.2	168	1.8	191	2.0	210	1.9	209	1.9	249	2.6	328	4.0	436	6.8	557	10.6	938	19.8	1280	28.4	1694	44.7	1680	63.1	1351	86.8	1168	116.5
1995	465	1.2	127	1.4	154	1.6	189	1.7	214	1.9	292	2.9	331	3.9	409	6.2	557	10.5	905	19.2	1317	29.2	1814	47.3	1822	66.8	1452	88.9	1288	121.3
1996	430	1.1	134	1.5	142	1.5	197	1.9	200	1.8	255	2.5	384	4.2	426	6.3	579	10.6	857	18.2	1315	29.2	1789	46.8	1795	63.4	1426	85.3	1302	115.9
1997	423	1.1	153	1.7	155	1.7	152	1.5	198	1.8	281	2.5	332	3.9	452	6.1	582	10.3	860	18.1	1349	30.2	1738	46.1	1833	62.7	1515	88.1	1302	119.7
1998	392	1.0	140	1.6	137	1.5	149	1.5	237	2.1	315	2.9	342	3.7	435	5.7	571	9.6	825	17.0	1257	28.6	1797	46.6	1925	64.3	1521	86.2	1228	103.5

^a Rates are per 100,000.^b Rates cannot be calculated for 75-79, 80-84, and 85+ because population data are only available for 75+ from 1950 to 1999.^c Rates cannot be calculated for the United States [ref. 10-14]; see also *Cautions in the Interpretations of Long-Term Trends Data*.

Article continues on next page.

TABLE 16
Average Annual Percent Change in Death Rates for Leukemia, by Gender and Age at Death, 1930-1998, United States

Age	1930-39	1940-49	1950-59	1960-69	1970-79	1980-89	1990-98
Males							
0-4	5.1*	1.0	-1.7*	-4.9*	-7.6*	-4.4*	-4.5*
5-9	3.1*	2.6*	2.3*	-0.8	-5.2*	-5.7*	-5.1*
10-14	2.7	1.9*	1.4	-1.1	-1.4	-3.0*	-3.6*
15-19	1.7	3.4*	-0.3	0.0	-1.8	-3.1*	-4.6*
20-24	1.1	2.1	1.3	-1.6	0.3	-0.9	0.3
25-29	5.1*	2.9*	-0.3	-2.6*	-1.3	-2.8*	-1.5
30-34	5.5*	3.4*	-0.3	0.2	-1.2	-0.9	-2.5
35-39	2.2	1.2	1.5	-0.1	-1.1	-2.6*	-1.5
40-44	3.9*	1.9	0.2	-0.3	-1.4	-0.8	-1.1
45-49	5.3*	2.0*	0.0	-0.9	-0.1	-1.7*	-1.7*
50-54	5.5*	2.0*	0.4	-1.0	0.3	-1.4*	-2.5*
55-59	2.5*	3.3*	0.1	0.2	-1.2*	-0.6	-1.9*
60-64	6.0*	5.1*	1.6*	-0.6	0.1	-0.3	-0.6
65-69	5.3*	4.3*	2.9*	0.0	-0.7	-0.2	-0.1
70-74	6.9*	6.3*	2.6*	1.1*	0.1	-0.1	0.5
75-79 ^a		8.5*	4.1*	1.8*	-0.6	0.1	0.1
80-84 ^a		5.6*	6.2*	1.7*	1.3*	-0.4	0.2
85+ ^a		13.0*	7.2*	4.3*	2.2*	-0.8	-0.5
Age	1930-39	1940-49	1950-59	1960-69	1970-79	1980-89	1990-98
Females							
0-4	7.4*	1.0	-1.6*	-3.9*	-7.7*	-1.9	-2.8
5-9	4.9*	4.3*	1.7	-0.4	-5.9*	-5.4*	-5.4*
10-14	6.1*	3.6*	0.4	-2.6*	-2.7*	-3.0*	0.3
15-19	4.6*	1.5	0.7	-2.0	-4.0*	-3.9*	-4.0*
20-24	5.3	2.2	0.4	0.3	-0.5	-2.3	-0.4
25-29	2.9	1.1	-2.0	-1.4	-2.7*	-2.7*	-1.9
30-34	4.1	2.0*	-0.1	-1.7	-0.9	-3.3*	-2.1
35-39	3.2*	1.7*	0.1	1.1	-1.5	-3.1*	-4.4*
40-44	5.4*	0.4	-2.1*	0.2	0.6	-2.1*	-1.6
45-49	2.8*	0.9	-0.4	-1.6*	-0.6	-1.7*	-3.1*
50-54	5.0*	2.1*	0.1	-0.6	0.2	-0.6	-2.4*
55-59	2.7	4.3*	-0.5	-1.0	-1.4*	0.1	-1.7*
60-64	3.6*	2.4	0.4	-1.9*	0.2	-0.1	-0.2
65-69	5.8*	5.0*	2.2*	-0.3	-1.1	-0.1	-0.7
70-74	5.6*	5.0*	3.3*	0.6	-0.7	0.2	0.4
75-79 ^a		6.3*	2.6*	1.2*	-0.5	-0.9*	0.1
80-84 ^a		7.5*	6.6*	1.9*	0.0	-0.2	0.1
85+ ^a		11.3*	6.2*	5.0*	0.9	0.7*	-0.5

* Average annual percent change is significantly different from zero ($p < 0.05$).

^a Rates cannot be calculated for 75-79, 80-84, and 85+ because population data are only available for 75+ from 1930 to 1939.

Source: Vital Statistics of the United States [ref. 10-14]; see also *Cautions in the Interpretations of Long-Term Trends Data*.

TABLE 17
Female Deaths and Death Rates* for Leukemia, by Age at and Year of Death, 1930-1998, United States

Year	0-19		20-24		25-29		30-34		35-39		40-44		45-49		50-54		55-59		60-64		65-69		70-74		75-79 ^b		80-84 ^b		85+ ^b	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate
1930	232	1.1	49	0.9	51	1.1	38	0.9	59	1.4	72	1.9	78	2.4	77	2.8	104	4.8	87	4.9	74	5.6	42	4.5	-	-	-	-	-	-
1931	299	1.3	29	0.5	48	1.0	56	1.3	68	1.6	69	1.8	88	2.7	94	3.3	90	4.0	91	5.0	76	5.6	68	7.1	-	-	-	-	-	-
1932	245	1.1	54	1.0	52	1.1	72	1.6	73	1.7	76	1.9	91	2.7	117	4.1	111	4.8	110	6.0	57	6.9	70	-	-	-	-	-	-	-
1933	286	1.2	46	0.8	57	1.1	67	1.4	67	1.5	89	2.1	96	2.7	123	4.1	94	3.8	124	6.3	99	6.6	72	6.9	-	-	-	-	-	-
1934	357	1.6	61	1.1	51	1.0	70	1.5	71	1.6	108	2.5	99	2.7	129	4.2	129	5.0	143	7.0	125	8.1	91	8.5	-	-	-	-	-	-
1935	338	1.6	47	0.8	77	1.4	77	1.6	63	1.4	114	2.7	106	2.8	121	3.9	139	5.3	123	5.8	127	7.9	76	6.9	-	-	-	-	-	-
1936	333	1.6	54	0.9	72	1.3	52	1.0	78	1.7	117	2.7	132	3.5	144	4.5	123	4.6	143	6.6	113	6.8	89	7.8	-	-	-	-	-	-
1937	410	1.8	85	1.5	52	1.0	76	1.5	95	2.1	98	2.3	120	3.1	137	4.2	128	4.7	149	6.7	146	8.6	98	8.3	-	-	-	-	-	-
1938	388	1.7	57	1.0	62	1.1	70	1.4	80	1.7	132	3.1	120	3.0	153	4.6	143	5.2	160	7.0	154	8.7	102	8.4	-	-	-	-	-	-
1939	419	1.9	71	1.2	87	1.6	100	1.9	94	2.0	121	2.8	124	3.1	176	5.1	168	6.0	139	6.9	162	8.8	119	9.5	-	-	-	-	-	-
1940	473	2.1	66	1.1	76	1.3	90	1.7	96	1.7	121	2.8	163	4.0	183	5.2	182	6.4	209	8.9	177	9.3	148	11.3	98	12.5	41	9.8	16	7.6
1941	502	2.2	77	1.3	80	1.4	85	1.6	114	2.3	101	2.3	173	4.2	177	4.9	188	6.4	214	8.8	181	9.3	166	12.3	100	12.3	38	8.8	11	5.0
1942	506	2.3	77	1.3	88	1.5	105	2.0	115	2.3	127	2.8	154	3.7	195	5.3	209	6.9	199	8.0	202	10.0	183	13.1	102	12.1	50	11.2	18	7.8
1943	506	2.2	72	1.2	76	1.3	90	1.7	112	2.2	146	3.2	172	4.0	207	5.6	197	6.4	230	9.0	229	11.0	191	13.3	113	12.9	48	10.4	9	3.8
1944	552	2.4	78	1.3	97	1.6	108	2.0	117	2.3	128	2.7	165	3.8	195	5.2	235	7.5	198	7.5	232	10.8	190	12.8	104	11.5	66	14.0	20	8.1
1945	567	2.5	84	1.4	103	1.7	108	1.9	122	2.3	147	3.1	153	3.5	193	5.0	258	8.0	248	9.2	249	11.3	226	14.7	143	15.2	53	10.8	27	10.4
1946	577	2.5	77	1.3	87	1.4	110	2.0	131	2.5	114	2.4	176	4.0	224	5.7	266	8.1	265	9.5	245	10.8	220	13.8	161	16.5	70	13.5	30	11.0
1947	701	3.0	62	1.0	77	1.3	111	2.0	137	2.5	162	3.3	180	4.0	221	5.6	269	8.0	261	9.2	314	13.4	257	15.7	184	18.1	79	14.4	35	12.2
1948	651	2.7	88	1.5	86	1.4	111	1.9	131	2.4	116	2.3	206	4.6	252	6.2	336	9.7	332	11.4	345	14.3	279	16.5	188	17.8	103	17.9	45	14.9
1949	687	2.8	98	1.7	108	1.7	121	2.1	137	2.4	146	2.9	192	4.2	254	6.2	301	8.5	294	9.8	343	13.8	306	19.3	227	20.6	107	17.5	40	12.4
1950	791	3.1	90	1.5	135	2.2	125	2.1	160	2.8	194	3.8	179	3.9	268	6.5	317	8.7	355	11.7	365	14.0	319	17.8	286	24.9	139	21.7	61	17.6
1951	831	3.2	82	1.4	112	1.8	137	2.3	155	2.7	205	3.9	216	4.6	235	5.6	325	8.7	372	11.9	372	13.9	331	17.8	291	24.2	151	22.8	82	22.3
1952	871	3.3	85	1.5	103	1.7	139	2.3	156	2.7	178	3.3	210	4.4	319	7.6	337	8.9	404	12.5	418	15.2	411	21.2	320	25.6	181	26.3	91	23.6
1953	812	2.9	67	1.2	103	1.7	119	1.9	146	2.5	184	3.4	204	4.2	273	6.4	347	9.1	388	11.7	444	15.8	415	20.6	368	28.5	204	28.5	103	25.4
1954	934	3.3	91	1.7	102	1.7	133	2.1	135	2.3	186	3.4	239	5.2	263	6.1	336	8.7	375	11.0	471	16.3	466	23.1	380	26.8	226	30.2	97	22.6
1955	838	2.9	67	1.3	107	1.8	121	1.9	156	2.6	194	3.5	228	4.5	249	5.7	338	8.6	448	12.8	511	17.3	461	21.0	381	27.4	262	33.5	131	28.9
1956	979	3.2	74	1.4	97	1.7	145	2.3	164	2.7	187	3.3	228	4.4	268	6.5	391	9.8	467	13.1	491	16.3	502	22.1	432	29.9	292	35.7	135	28.5
1957	1000	3.2	76	1.5	91	1.6	142	2.3	181	2.9	206	3.6	224	4.2	302	6.6	337	8.3	424	11.7	513	16.5	544	23.2	442	29.4	320	37.7	158	31.9
1958	1022	3.2	81	1.5	79	1.4	128	2.1	181	2.9	162	2.8	203	3.8	315	6.7	341	8.3	469	12.8	550	17.2	561	23.2	488	29.9	305	34.9	147	28.4
1959	974	2.9	85	1.6	103	1.9	130	2.1	155	2.4	185	3.2	238	4.4	296	6.2	357	8.4	429	11.6	547	16.8	617	24.7	501	30.5	340	37.9	188	34.6
1960	1026	3.0	70	1.3	69	1.2	134	2.2	152	2.4	186	3.1	232	4.6	295	6.1	357	8.3	494	13.2	582	17.5	608	23.8	570	33.6	357	39.0	202	35.6
1961	1040	3.0	83	1.4	98	1.8	129	2.2	162	2.5	172	2.8	245	4.4	282	5.6	350	7.9	427	11.3	564	16.6	594	22.3	555	30.2	385	39.4	238	40.2
1962	1076	3.0	82	1.4	69	1.3	106	1.8	125	2.0	197	3.2	229	4.1	269	5.3	348	7.6	486	12.8	576	16.7	635	23.0	595	32.5	428	41.7	280	46.1
1963	1044	3.0	79	1.2	95	1.7	120	2.1	160	2.7	208	3.3	271	4.8	269	5.2	373	8.0	449	11.7	598	17.1	666	23.4	579	30.7	476	44.3	253	40.4
1964	76	2.6	95	1.4	87	1.5	110	1.9	170	2.7	196	3.1	265	4.6	316	6.0	408	8.5	424	10.9	590	16.7	686	23.4	637	32.7	444	39.4	302	46.2
1965	967	2.7	109	1.6	82	1.4	112	2.0	134	2.2	173	2.7	241	4.1	310	5.8	389	7.9	461	11.6	594	16.6	672	22.5	686	34.6	490	41.7	327	47.8
1966	943	2.5	87	1.2	83	1.4	105	1.9	160	2.7	196	3.1	256	4.3	308	5.7	359	7.2	521	12.7	584	16.1	714	23.5	686	33.0	574	46.9	376	52.4
1967	961	2.6	110	1.5	96	1.6	94	1.7	141	2.4	205	3.2	258	4.3	315	5.7	366	7.2	483	11.4	639	17.4	756	24.7	720	33.5	543	42.7	397	52.2
1968	861	2.5	119	1.5	88	1.4	102	1.8	161	2.8	212	3.4	236	3.8	334	6.0	395	7.7	472	10.8	619	16.4	733	23.8	763	34.5	447	43.9	447	55.9
1969	879	2.3	101	1.2	75	1.1	114	2.0	145	2.5	183	2.9	239	3.8	270	4.8	396	7.7	446	9.9	629	16.6	751	24.2	808	35.7	664	46.7	490	57.8

(continued)

TABLE 17
(continued)

Year	0-19		20-24		25-29		30-34		35-39		40-44		45-49		50-54		55-59		60-64		65-69		70-74		75-79 ^b		80-84 ^b		85+ ^b	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate
1970	913	2.4	134	1.6	94	1.4	105	1.8	147	2.6	188	3.0	254	4.1	341	5.9	408	7.8	476	10.4	614	15.9	740	23.6	789	34.7	668	47.4	493	53.6
1971	862	2.3	109	1.2	107	1.5	104	1.7	136	2.4	154	2.5	246	3.9	291	4.9	368	7.0	478	10.1	615	15.5	778	24.5	791	33.2	696	46.4	528	54.0
1972	754	2.0	108	1.2	126	1.6	102	1.6	118	2.1	158	2.6	222	3.6	266	4.4	398	7.5	486	10.0	648	15.8	778	23.5	846	34.8	734	46.7	532	52.2
1973	704	1.9	111	1.2	132	1.7	121	1.8	141	2.5	144	2.4	217	3.5	313	5.1	399	7.4	502	10.2	625	14.7	753	23.2	789	32.1	671	40.7	593	55.5
1974	667	1.8	118	1.3	131	1.6	108	1.6	125	2.1	177	3.1	205	3.4	324	5.2	404	7.4	486	9.7	636	14.5	765	23.2	815	32.5	802	47.5	581	50.9
1975	651	1.8	128	1.3	121	1.4	127	1.8	128	2.2	150	2.6	230	3.8	315	5.1	420	7.5	479	9.5	581	12.8	775	23.2	847	32.7	767	44.3	653	53.2
1976	619	1.7	138	1.4	138	1.5	116	1.6	124	2.0	169	3.0	205	3.4	276	4.4	400	7.0	472	9.3	683	14.7	758	22.2	894	33.6	806	45.0	702	54.4
1977	576	1.6	136	1.3	124	1.4	139	1.8	131	2.1	161	2.8	197	3.3	314	5.1	379	6.4	543	10.6	690	14.6	830	23.3	895	33.0	811	44.3	791	57.9
1978	530	1.5	126	1.2	116	1.2	132	1.6	138	2.1	174	3.0	204	3.5	316	5.1	395	6.6	517	10.0	684	14.4	789	21.4	930	33.1	840	45.7	807	55.9
1979	516	1.4	135	1.3	108	1.1	137	1.6	160	2.3	162	2.8	237	4.1	354	5.8	428	7.0	574	10.8	706	14.5	874	22.8	934	32.2	908	48.5	889	58.4
1980	497	1.4	132	1.2	144	1.5	159	1.8	172	2.4	170	2.9	225	3.9	301	4.9	471	7.7	607	11.2	730	15.0	927	23.5	945	32.0	934	48.7	955	61.3
1981	469	1.3	107	1.0	122	1.2	156	1.6	152	2.1	167	2.7	212	3.8	315	5.2	423	6.9	577	10.4	716	14.5	901	22.2	1012	33.2	911	46.1	987	59.9
1982	471	1.4	148	1.4	131	1.3	175	1.9	170	2.1	152	2.4	202	3.6	297	5.0	405	6.7	582	10.3	757	15.1	925	22.3	1061	33.9	924	45.5	1097	63.8
1983	436	1.3	114	1.1	123	1.2	132	1.4	195	2.4	178	2.7	217	3.8	301	5.2	418	6.9	603	10.6	772	15.3	955	22.6	1046	32.5	934	44.7	1122	62.8
1984	390	1.1	134	1.3	124	1.2	136	1.4	168	2.0	186	2.7	227	3.9	318	5.6	465	7.8	635	11.0	823	16.1	989	23.0	1075	32.6	999	46.4	1167	63.1
1985	391	1.1	107	1.0	140	1.3	148	1.5	147	1.6	188	2.6	230	3.9	268	4.8	447	7.6	641	11.0	843	16.3	995	22.8	1131	33.4	1010	45.6	1221	64.1
1986	383	1.1	90	0.9	123	1.1	160	1.6	183	1.9	179	2.4	210	3.5	297	5.2	433	7.4	631	10.8	812	15.4	968	22.0	1062	31.3	1064	46.6	1224	62.4
1987	398	1.2	95	1.0	120	1.1	145	1.4	161	1.7	192	2.4	231	3.7	292	5.2	417	7.3	598	10.3	807	15.0	990	22.3	1113	31.5	1037	44.0	1339	66.1
1988	346	1.0	99	1.0	109	1.0	119	1.1	183	1.9	196	2.4	219	3.3	270	4.8	385	6.9	595	10.3	788	14.6	993	22.1	1109	30.7	1140	47.0	1328	64.0
1989	357	1.0	100	1.1	119	1.1	160	1.5	177	1.8	189	2.2	222	3.2	274	4.7	403	7.3	632	11.0	807	14.7	1134	25.0	1110	30.2	1157	46.3	1398	65.4
1990	344	1.0	111	1.2	119	1.1	152	1.4	197	2.0	215	2.4	245	3.5	278	4.8	393	7.2	588	10.4	840	15.1	1080	23.6	1249	33.6	1191	46.6	1426	65.4
1991	344	1.0	96	1.0	103	1.0	149	1.3	180	1.7	214	2.3	235	3.3	293	4.9	416	7.7	596	10.6	886	16.2	1092	23.2	1340	35.3	1235	46.9	1606	68.8
1992	345	1.0	100	1.1	119	1.2	153	1.4	182	1.7	173	1.8	239	3.3	308	5.0	390	7.1	602	10.8	839	15.3	1128	23.4	1246	32.4	1252	46.6	1593	66.6
1993	331	0.9	96	1.0	116	1.2	136	1.2	173	1.6	230	2.4	271	3.3	297	4.5	356	6.4	604	11.1	849	15.4	1148	23.5	1276	32.9	1240	45.1	1694	68.3
1994	340	0.9	84	0.9	108	1.1	112	1.0	147	1.3	223	2.2	259	3.0	317	4.7	391	6.9	555	10.4	839	15.3	1158	23.4	1275	32.5	1305	46.6	1737	67.9
1995	305	0.8	96	1.1	110	1.2	132	1.2	162	1.4	197	1.9	267	3.0	284	4.1	390	6.8	579	10.9	797	14.7	1180	23.6	1361	34.3	1369	47.8	1717	65.0
1996	304	0.8	94	1.1	94	1.0	139	1.3	152	1.3	210	2.0	252	2.7	327	4.6	405	6.9	545	10.3	858	15.9	1224	24.7	1412	34.8	1430	49.2	1746	64.3
1997	322	0.9	84	1.0	96	1.0	112	1.1	169	1.5	217	2.0	281	2.8	346	4.4	420	6.9	572	10.8	788	14.8	1183	24.0	1386	33.3	1311	44.6	1809	65.0
1998	280	0.7	98	1.1	85	0.9	124	1.2	149	1.3	229	2.1	271	2.8	310	3.8	390	6.0	552	10.2	753	14.5	1174	23.8	1428	33.8	1410	47.5	1895	66.2

^a Rates are per 100,000.^b Rates cannot be calculated for 75-79, 80-84, and 85+ because population data are only available for 75+ from 1950 to 1999.Source: Vital Statistics of the United States [ref. 10-14]; see also *Cautions in the Interpretations of Long-Term Trends Data*.

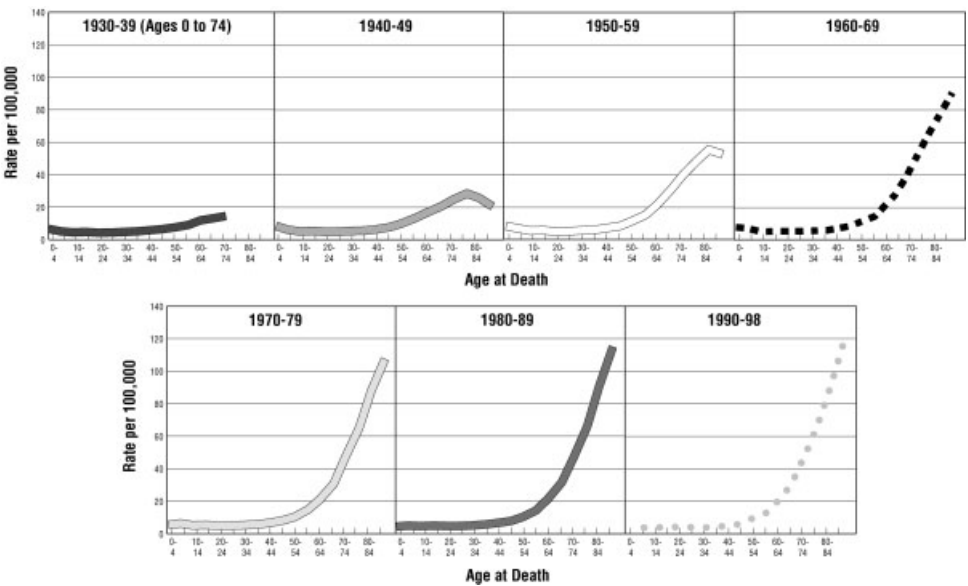


FIGURE 26. Male age-specific death rates for leukemia, separated by age at and decade of death, 1930–1998, United States. Source: *Vital Statistics of the United States*^{10–14}; see also the section entitled “Cautions in the Interpretation of Long-Term Trends Data” in the current article.

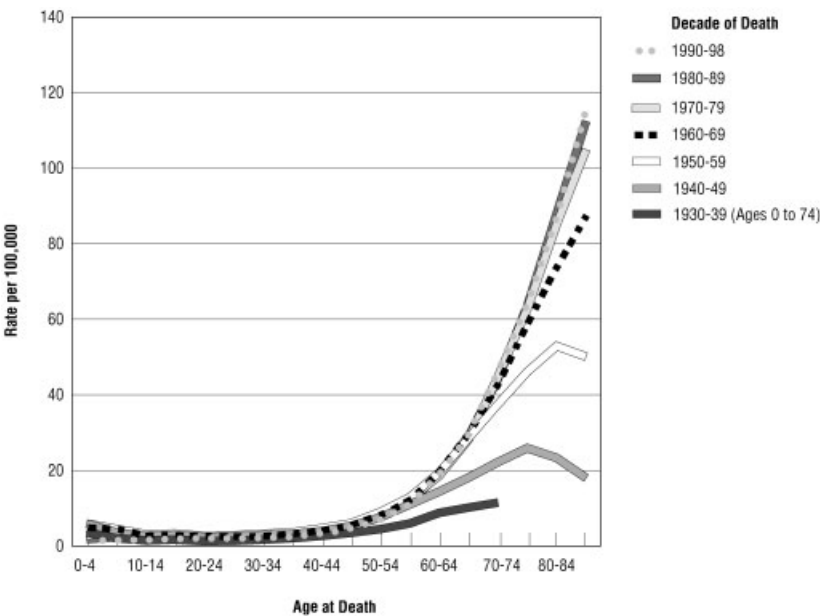


FIGURE 27. Male age-specific death rates for leukemia, by age at and decade of death, 1930–1998, United States. Source: *Vital Statistics of the United States*^{10–14}; see also the section entitled “Cautions in the Interpretation of Long-Term Trends Data” in the current article.

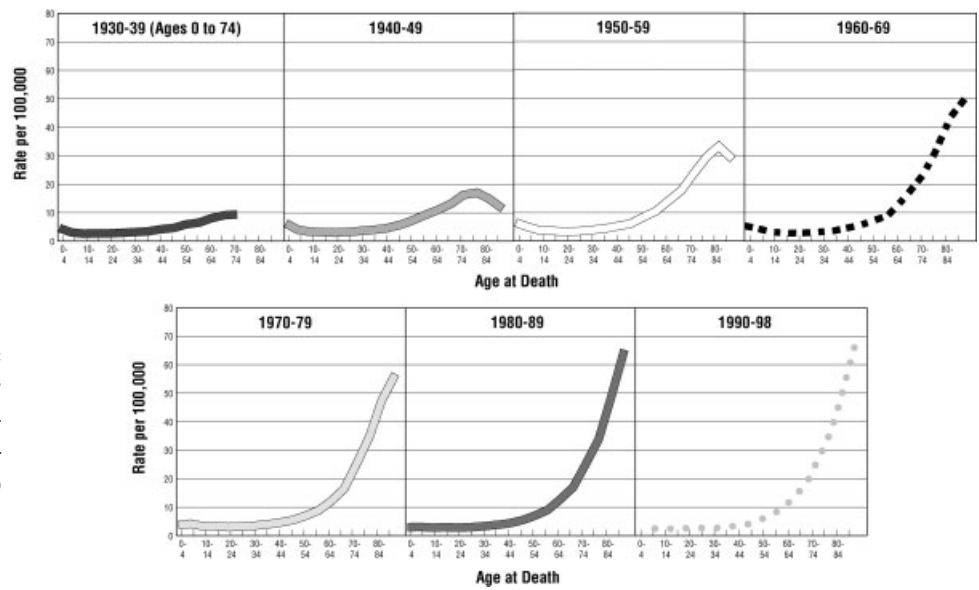


FIGURE 28. Female age-specific death rates for leukemia, separated by age at and decade of death, 1930–1998, United States. Source: *Vital Statistics of the United States*^{10–14}; see also the section entitled “Cautions in the Interpretation of Long-Term Trends Data” in the current article.

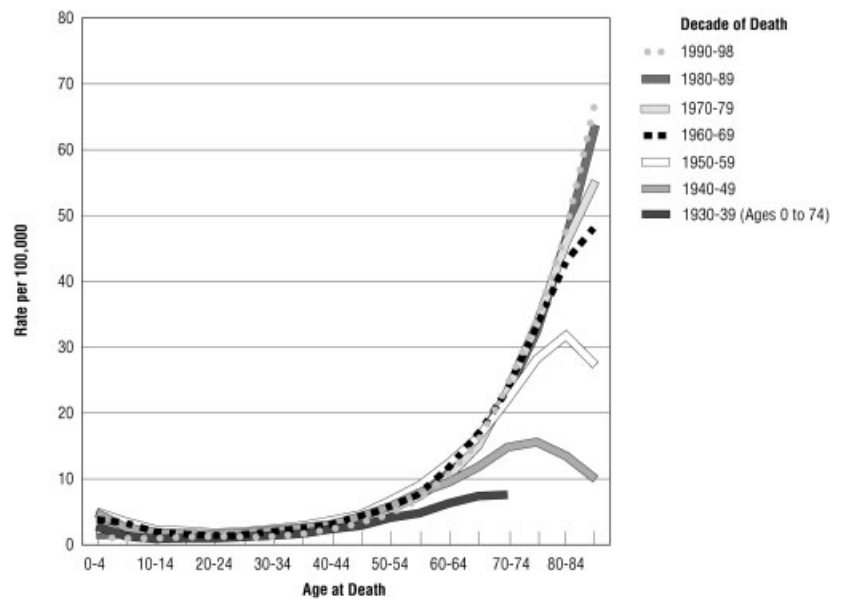


FIGURE 29. Female age-specific death rates for leukemia, by age at and decade of death, 1930–1998, United States. Source: *Vital Statistics of the United States*^{10–14}; see also the section entitled “Cautions in the Interpretation of Long-Term Trends Data” in the current article.

TABLE 18
Deaths and Death Rates for Cancer of the Liver, Gallbladder, and Biliary Passages, by Gender and Year of Death, 1930-1998, United States

Year	Males				Females			
	Number	Rate			Number	Rate		
		Crude	1970 ^a	2000 ^b		Crude	1970 ^a	2000 ^b
1930	4,420	7.4	11.5	14.1	5,902	10.2	15.7	19.3
1931	4,299	7.2	10.9	13.4	5,895	10.1	15.2	18.6
1932	4,343	7.2	10.6	13.0	6,038	10.3	15.1	18.6
1933	4,561	7.2	10.6	13.0	6,034	9.7	14.2	17.4
1934	4,596	7.2	10.4	12.8	6,072	9.7	13.8	17.0
1935	4,434	6.9	9.8	12.2	6,045	9.6	13.4	16.5
1936	4,490	7.0	9.7	12.0	5,935	9.3	12.9	16.1
1937	4,418	6.8	9.4	11.5	5,879	9.2	12.4	15.4
1938	4,303	6.6	9.1	11.3	5,763	8.9	11.9	14.9
1939	4,332	6.6	8.9	11.1	5,630	8.6	11.4	14.1
1940	4,207	6.3	8.4	10.5	5,540	8.4	10.9	13.6
1941	4,301	6.4	8.4	10.5	5,580	8.4	10.7	13.3
1942	4,410	6.5	8.5	10.6	5,794	8.6	10.8	13.4
1943	4,725	6.9	8.9	11.0	6,247	9.2	11.3	14.1
1944	4,944	7.1	9.0	11.2	6,233	9.0	11.0	13.7
1945	5,080	7.3	9.0	11.2	6,127	8.8	10.4	12.9
1946	4,806	6.8	8.3	10.2	5,998	8.5	9.9	12.3
1947	4,576	6.4	7.7	9.6	5,996	8.3	9.7	12.2
1948	4,766	6.5	7.9	9.8	5,832	7.9	9.1	11.3
1949	4,429	6.0	7.2	8.9	5,573	7.4	8.5	10.5
1950	4,373	5.8	6.9	8.6	5,401	7.1	7.9	9.8
1951	4,359	5.7	6.7	8.3	5,337	6.9	7.6	9.4
1952	4,377	5.6	6.6	8.1	5,450	6.9	7.6	9.5
1953	4,377	5.5	6.5	8.0	5,470	6.8	7.4	9.2
1954	4,334	5.4	6.2	7.7	5,328	6.5	7.0	8.7
1955	4,302	5.2	6.1	7.5	5,284	6.3	6.7	8.4
1956	4,347	5.2	6.0	7.4	5,242	6.2	6.5	8.1
1957	4,462	5.3	6.0	7.4	5,267	6.1	6.3	8.0
1958	4,360	5.1	5.8	7.1	5,276	6.0	6.2	7.7
1959	4,292	4.9	5.6	6.8	5,216	5.8	5.9	7.5
1960	4,566	5.1	5.9	7.2	5,162	5.7	5.7	7.3
1961	4,449	4.9	5.6	6.9	5,102	5.5	5.5	6.9
1962	4,355	4.7	5.4	6.6	5,026	5.3	5.3	6.7
1963	4,502	4.8	5.5	6.8	5,044	5.3	5.2	6.5
1964	4,582	4.8	5.6	6.8	5,076	5.2	5.1	6.4
1965	4,631	4.8	5.6	6.9	5,153	5.2	5.0	6.4
1966	4,625	4.8	5.5	6.8	5,108	5.1	4.8	6.1
1967	4,669	4.8	5.5	6.8	5,212	5.2	4.8	6.2
1968	4,690	4.8	5.4	6.8	5,096	5.0	4.6	5.9
1969	4,611	4.6	5.3	6.6	5,027	4.9	4.5	5.7
1970	4,607	4.6	5.2	6.4	4,951	4.7	4.3	5.5
1971	4,711	4.6	5.2	6.5	4,897	4.6	4.1	5.2
1972	4,654	4.5	5.1	6.4	4,998	4.7	4.1	5.2
1973	4,558	4.4	4.9	6.1	4,844	4.5	3.9	5.0
1974	4,625	4.4	4.9	6.1	4,969	4.5	3.9	5.0
1975	4,514	4.3	4.7	5.9	4,824	4.4	3.7	4.7
1976	4,578	4.3	4.7	5.9	4,784	4.3	3.6	4.5
1977	4,764	4.4	4.8	6.0	4,855	4.3	3.5	4.5
1978	4,806	4.4	4.8	6.0	4,997	4.4	3.5	4.5
1979	4,894	4.5	4.8	5.9	5,039	4.4	3.5	4.5
1980	4,846	4.4	4.7	5.9	5,193	4.5	3.5	4.5
1981	5,110	4.6	4.8	6.1	5,095	4.3	3.3	4.3
1982	5,205	4.6	4.8	6.1	5,318	4.5	3.4	4.4
1983	5,378	4.7	4.9	6.2	5,165	4.3	3.3	4.2

(continued)

TABLE 18
(continued)

Year	Males				Females			
	Number	Rate			Number	Rate		
		Crude	1970 ^a	2000 ^b		Crude	1970 ^a	2000 ^b
1984	5,451	4.8	4.9	6.2	5,301	4.4	3.3	4.2
1985	5,611	4.8	5.0	6.2	5,481	4.5	3.4	4.3
1986	5,719	4.9	5.0	6.3	5,475	4.4	3.3	4.2
1987	5,881	5.0	5.0	6.3	5,462	4.4	3.2	4.1
1988	6,053	5.1	5.1	6.5	5,475	4.4	3.2	4.1
1989	6,383	5.3	5.3	6.7	5,636	4.5	3.2	4.2
1990	6,557	5.4	5.4	6.9	5,811	4.6	3.3	4.2
1991	6,739	5.5	5.4	6.9	6,010	4.7	3.3	4.3
1992	7,280	5.9	5.8	7.2	6,219	4.8	3.4	4.3
1993	7,458	5.9	5.8	7.2	6,408	4.9	3.4	4.4
1994	7,719	6.1	5.9	7.4	6,492	4.9	3.4	4.4
1995	8,225	6.4	6.2	7.7	6,777	5.0	3.6	4.5
1996	8,460	6.5	6.2	7.8	6,776	5.0	3.5	4.5
1997	8,688	6.6	6.3	7.8	6,904	5.0	3.5	4.5
1998	9,079	6.9	6.4	8.0	6,807	4.9	3.4	4.4

^a Rates are per 100,000 and are age-adjusted to the 1970 U.S. standard population.^b Rates are per 100,000 and are age-adjusted to the 2000 U.S. standard population.**Source:** Vital Statistics of the United States [ref. 10-14]; see also *Cautions in the Interpretations of Long-Term Trends Data*.

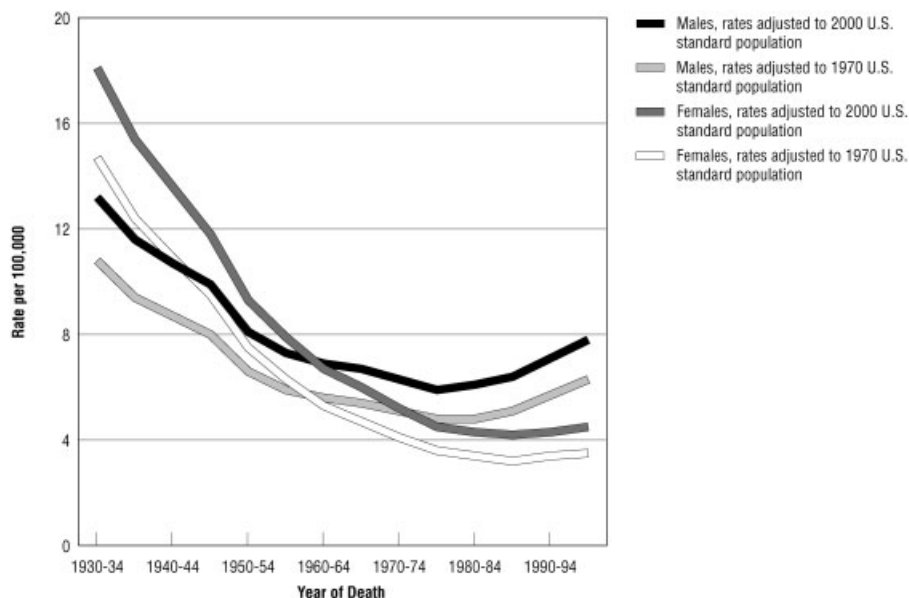


FIGURE 30. Death rates for cancer of the liver, gallbladder, and biliary passages, by gender and year of death, 1930–1998, United States. Source: *Vital Statistics of the United States*^{10–14}; see also the section entitled “Cautions in the Interpretation of Long-Term Trends Data” in the current article.

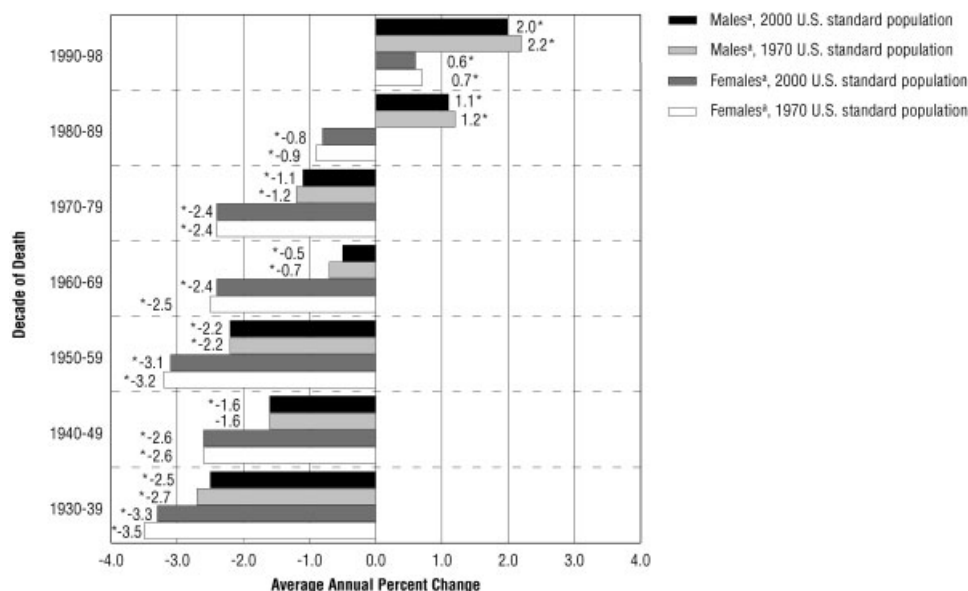


FIGURE 31. Average annual percent change^a in death rates for cancer of the liver, gallbladder, and biliary passages, by gender and decade of death, 1930–1998, United States. ^aAverage annual percent change is based on rates adjusted to 2000 or 1970 U.S. standard population. *Average annual percent change is significantly different from zero ($p < 0.05$). Source: *Vital Statistics of the United States*^{10–14}; see also the section entitled “Cautions in the Interpretation of Long-Term Trends Data” in the current article.

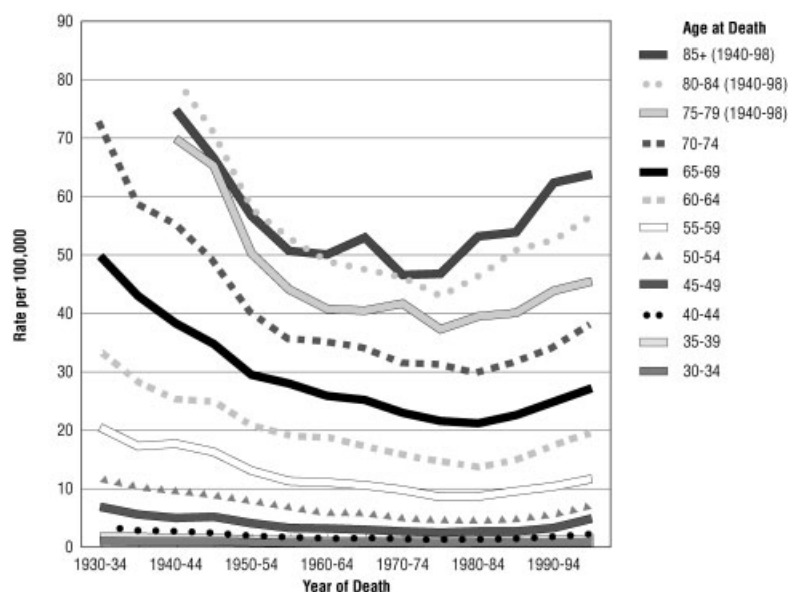


FIGURE 32. Male death rates for cancer of the liver, gallbladder, and biliary passages, by age at and year of death, 1930–1998, United States. Source: *Vital Statistics of the United States*^{10–14}; see also the section entitled “Cautions in the Interpretation of Long-Term Trends Data” in the current article.

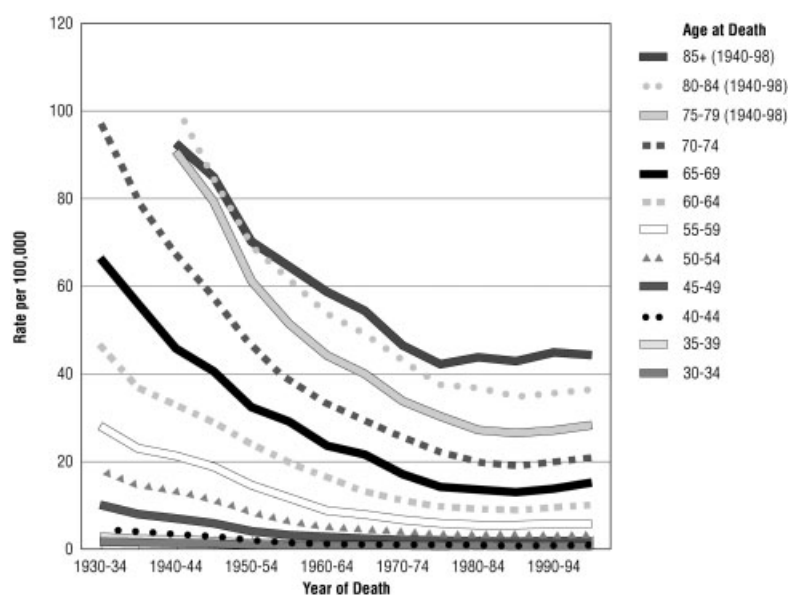


FIGURE 33. Female death rates for cancer of the liver, gallbladder, and biliary passages, by age at and year of death, 1930–1998, United States. Source: *Vital Statistics of the United States*^{10–14}; see also the section entitled “Cautions in the Interpretation of Long-Term Trends Data” in the current article.

TABLE 19
Male Deaths and Death Rates^a for Cancer of the Liver, Gallbladder, and Biliary Passages, by Age at and Year of Death, 1930-1998, United States

Year	0-19		20-24		25-29		30-34		35-39		40-44		45-49		50-54		55-59		60-64		65-69		70-74		75-79 ^b		80-84 ^b		85+ ^b		
	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	
1930	27	0.1	9	0.2	21	0.5	33	0.8	65	1.5	161	4.0	245	6.9	395	13.0	513	21.8	611	32.5	785	56.9	725	75.4	-	-	-	-	-	-	1930
1931	27	0.1	12	0.2	19	0.4	33	0.8	68	1.5	129	3.2	248	6.9	337	11.0	511	21.0	660	34.4	718	50.7	710	72.4	-	-	-	-	-	-	1931
1932	34	0.2	14	0.3	12	0.3	28	0.6	65	1.5	132	3.2	237	6.6	382	12.3	564	22.4	665	33.9	702	48.2	702	70.8	-	-	-	-	-	-	1932
1933	28	0.1	8	0.1	25	0.5	34	0.7	60	1.3	147	3.3	239	6.8	384	11.7	537	19.9	683	32.8	727	46.7	768	73.4	-	-	-	-	-	-	1933
1934	33	0.1	8	0.1	16	0.3	28	0.6	61	1.4	138	3.1	277	7.1	398	12.0	496	18.0	717	33.5	753	47.0	762	71.4	-	-	-	-	-	-	1934
1935	32	0.1	12	0.2	15	0.3	24	0.5	73	1.6	131	2.9	242	6.1	377	11.2	511	18.2	630	29.5	754	45.8	698	63.9	-	-	-	-	-	-	1935
1936	30	0.1	15	0.3	16	0.3	34	0.7	76	1.7	147	3.3	260	6.4	383	11.1	498	17.5	666	29.5	767	45.4	664	39.1	-	-	-	-	-	-	1936
1937	27	0.1	7	0.1	13	0.2	29	0.6	50	1.1	105	2.4	220	5.3	404	11.5	531	18.4	689	29.8	751	43.3	695	60.0	-	-	-	-	-	-	1937
1938	28	0.1	11	0.2	18	0.3	27	0.5	56	1.2	111	2.5	215	5.2	351	9.7	481	16.4	621	26.4	748	41.9	657	54.9	-	-	-	-	-	-	1938
1939	30	0.1	14	0.2	20	0.4	29	0.6	63	1.3	126	2.9	223	5.3	361	9.8	484	16.2	616	25.8	711	38.8	681	55.1	-	-	-	-	-	-	1939
1940	26	0.1	7	0.1	19	0.3	21	0.4	56	1.2	109	2.5	209	5.0	362	9.6	501	16.5	577	23.7	732	38.9	682	53.4	493	67.7	285	78.9	121	76.1	1940
1941	36	0.2	12	0.2	16	0.3	30	0.6	57	1.2	110	2.4	214	5.0	356	9.4	548	17.7	605	24.3	696	36.0	711	54.3	502	67.3	283	74.9	122	73.9	1941
1942	25	0.1	10	0.2	10	0.2	33	0.6	59	1.2	120	2.6	197	4.6	349	9.1	557	17.6	635	24.9	722	36.4	758	56.3	497	64.7	301	76.6	137	70.7	1942
1943	20	0.1	5	0.1	20	0.4	24	0.5	59	1.2	104	2.3	206	4.8	385	9.9	574	17.9	696	26.6	817	40.1	786	58.8	586	74.2	307	79.5	130	73.0	1943
1944	29	0.1	9	0.1	12	0.2	38	0.7	64	1.3	147	3.1	240	5.5	409	10.4	605	18.5	704	26.3	835	40.0	807	54.8	609	74.9	333	84.5	131	71.6	1944
1945	22	0.1	8	0.1	16	0.3	32	0.6	64	1.3	146	3.1	288	6.1	394	9.9	586	17.6	760	27.8	884	40.2	877	55.2	638	75.8	324	79.2	148	71.7	1945
1946	34	0.1	7	0.1	18	0.3	33	0.6	60	1.2	109	2.3	236	5.3	368	9.2	595	17.6	764	27.3	775	35.2	792	52.8	571	65.6	321	75.0	121	61.1	1946
1947	30	0.1	8	0.1	10	0.2	26	0.5	62	1.2	119	2.5	221	4.9	365	9.0	537	15.6	698	24.4	778	34.5	706	45.9	588	62.9	308	68.1	132	64.1	1947
1948	28	0.1	11	0.2	28	0.5	27	0.5	52	1.0	122	2.5	211	4.7	407	10.0	567	16.2	718	26.3	733	33.1	775	49.4	588	60.8	332	68.9	134	71.6	1948
1949	35	0.1	7	0.1	10	0.2	35	0.6	66	1.2	119	2.4	217	4.8	321	7.8	517	14.4	625	20.8	741	31.4	675	42.0	605	62.5	317	63.7	136	59.9	1949
1950	29	0.1	8	0.1	18	0.3	31	0.5	59	1.1	101	2.0	222	4.9	355	8.6	476	13.1	674	22.1	725	29.7	662	40.4	552	55.1	299	57.8	160	66.1	1950
1951	40	0.1	*	**	16	0.3	42	0.7	44	0.8	93	1.8	192	4.2	320	7.7	553	14.9	645	20.8	699	27.9	705	41.9	533	53.2	307	58.6	143	55.0	1951
1952	32	0.1	7	0.1	13	0.2	27	0.5	52	1.0	109	2.1	198	4.2	314	7.5	492	13.1	638	20.3	788	30.9	702	40.4	535	49.9	285	53.5	160	57.8	1952
1953	24	0.1	*	**	13	0.2	18	0.3	56	0.9	103	1.9	201	4.2	332	7.9	494	13.2	656	20.8	764	29.2	721	37.5	539	48.8	346	63.4	155	53.1	1953
1954	40	0.1	6	0.1	9	0.2	19	0.3	40	0.7	96	1.8	161	3.3	350	8.2	423	11.2	661	20.2	801	30.0	739	39.7	512	45.0	312	53.3	163	53.1	1954
1955	42	0.1	*	**	9	0.2	16	0.3	34	0.6	82	1.5	165	3.3	308	7.1	433	11.3	629	18.9	813	28.9	720	37.4	555	47.4	323	55.0	169	52.6	1955
1956	46	0.1	13	0.2	7	0.1	29	0.5	49	0.8	102	1.9	187	3.7	310	7.1	456	11.8	646	19.2	775	28.2	657	33.1	561	46.7	336	53.2	171	52.0	1956
1957	29	0.1	7	0.1	7	0.1	31	0.5	54	0.9	84	1.5	164	3.2	321	7.2	458	11.7	667	19.7	813	29.0	773	37.9	528	42.5	333	52.9	191	56.3	1957
1958	37	0.1	8	0.2	10	0.2	29	0.5	42	0.7	83	1.5	178	3.4	321	7.0	433	10.9	668	19.8	770	27.0	725	34.7	537	42.1	347	54.0	171	49.6	1958
1959	39	0.1	6	0.1	13	0.2	27	0.5	61	1.0	96	1.7	165	3.1	333	7.2	433	10.8	606	17.9	760	26.3	721	33.6	538	42.1	313	47.5	154	43.4	1959
1960	42	0.1	*	**	10	0.2	29	0.5	40	0.7	91	1.6	193	3.6	331	7.0	502	12.2	660	19.4	741	25.3	830	36.0	576	42.4	335	50.4	184	50.8	1960
1961	32	0.1	5	0.1	10	0.2	19	0.3	39	0.6	81	1.4	162	3.0	288	5.9	450	10.7	672	19.6	759	25.7	808	36.1	595	42.3	345	49.3	184	49.3	1961
1962	52	0.1	9	0.2	12	0.2	22	0.4	48	0.8	86	1.5	173	3.2	269	5.5	468	10.8	624	18.1	767	26.0	763	33.4	533	37.2	345	47.7	184	49.2	1962
1963	38	0.1	6	0.1	12	0.2	13	0.2	41	0.7	69	1.2	181	3.3	287	5.7	483	10.9	617	17.7	804	27.2	796	34.4	608	41.8	347	46.5	199	48.2	1963
1964	40	0.1	11	0.2	13	0.2	16	0.3	40	0.7	92	1.5	163	3.0	317	6.3	493	10.9	681	19.3	749	25.3	794	33.9	596	40.3	389	50.3	188	48.6	1964
1965	36	0.1	11	0.2	12	0.2	25	0.5	43	0.7	76	1.3	163	2.9	335	6.6	491	10.7	683	19.1	749	25.2	822	35.0	592	39.5	375	47.2	218	54.8	1965
1966	45	0.1	13	0.2	13	0.2	26	0.5	28	0.5	100	1.7	196	3.5	312	6.1	454	9.8	661	18.1	776	26.0	782	33.3	629	41.3	374	43.9	214	52.3	1966
1967	40	0.1	7	0.1	13	0.2	22	0.4	33	0.6	77	1.3	167	2.9	316	6.3	516	11.0	633	16.8	783	26.0	828	35.4	619	40.0	386	43.0	230	54.0	1967
1968	36	0.1	10	0.1	13	0.2	19	0.3	48	0.9	97	1.6	170	2.9	333	6.4	496	10.5	636	16.5	749	24.6	782	33.6	667	42.6	401	47.2	232	52.7	1968
1969	34	0.1	12	0.1	9	0.1	16	0.3	41	0.7	86	1.5	171	2.9	285	5.4	521	11.0	630	16.4	754	24.5	734	31.7	620	39.3	441	51.0	237	51.6	1969
(continued)																															

TABLE 19
(continued)

Year	0-19		20-24		25-29		30-34		35-39		40-44		45-49		50-54		55-59		60-64		65-69		70-74		75-79 ^b		80-84 ^b		85+ ^b		
	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	
1970	41	0.1	17	0.2	13	0.2	30	0.5	42	0.8	93	1.6	180	3.1	264	4.9	492	10.3	688	17.1	737	23.6	741	32.0	646	41.4	414	47.3	207	42.3	1970
1971	39	0.1	21	0.2	15	0.2	26	0.4	40	0.7	72	1.2	162	2.7	290	5.3	498	10.3	688	16.2	760	23.7	753	32.3	706	43.9	422	46.6	241	47.3	1971
1972	34	0.1	20	0.2	18	0.2	26	0.4	32	0.6	86	1.5	146	2.5	300	5.4	442	9.1	676	16.0	770	23.3	726	31.2	682	46.1	436	46.8	260	49.8	1972
1973	45	0.1	12	0.1	11	0.1	19	0.3	29	0.5	72	1.3	148	2.6	288	5.1	475	9.8	631	14.8	757	22.3	734	31.0	669	41.6	419	43.7	248	46.1	1973
1974	38	0.1	15	0.2	16	0.2	29	0.4	33	0.6	90	1.6	162	2.8	297	5.2	466	9.5	648	14.9	764	21.9	714	29.6	639	39.5	447	46.2	266	47.1	1974
1975	39	0.1	14	0.1	26	0.3	26	0.4	33	0.6	48	0.9	120	2.1	288	4.7	445	8.8	600	13.7	815	22.7	769	31.5	611	37.0	420	42.8	279	47.0	1975
1976	44	0.1	13	0.1	20	0.2	22	0.3	39	0.7	63	1.2	151	2.7	274	4.8	428	8.3	647	14.7	721	19.6	798	31.9	652	38.8	424	42.1	281	46.4	1976
1977	43	0.1	12	0.1	20	0.2	28	0.4	34	0.6	72	1.3	163	2.9	296	5.2	452	8.5	659	14.8	818	21.8	809	31.2	609	35.8	464	45.6	285	45.5	1977
1978	39	0.1	15	0.1	20	0.2	23	0.3	38	0.6	71	1.3	148	2.7	282	5.0	467	8.6	635	14.1	822	21.5	843	31.5	652	37.0	423	42.2	328	50.3	1978
1979	38	0.1	19	0.2	25	0.3	26	0.3	39	0.6	65	1.1	122	2.2	285	5.1	474	8.7	682	15.1	865	22.3	822	29.7	690	37.8	426	42.4	304	45.0	1979
1980	46	0.1	15	0.1	19	0.2	42	0.5	37	0.5	81	1.4	144	2.7	271	4.8	472	8.6	615	13.2	781	20.0	827	29.0	692	37.4	455	44.7	348	51.0	1980
1981	37	0.1	15	0.1	20	0.2	29	0.3	38	0.5	68	1.2	132	2.8	271	4.9	494	9.1	671	14.0	817	20.7	934	31.8	747	39.1	454	43.3	363	51.8	1981
1982	45	0.1	14	0.1	23	0.2	35	0.4	62	0.8	72	1.2	142	2.6	243	4.4	441	8.2	670	13.6	858	21.4	882	29.4	799	40.7	523	48.7	394	55.0	1982
1983	28	0.1	14	0.1	23	0.2	38	0.4	68	0.9	91	1.4	167	3.1	272	5.1	481	8.9	699	14.1	880	21.6	903	29.5	813	40.3	502	45.6	396	54.1	1983
1984	37	0.1	14	0.1	26	0.2	45	0.5	85	1.0	95	1.4	138	2.5	269	5.1	470	8.8	691	13.8	906	22.0	888	28.5	824	39.7	559	49.4	403	53.9	1984
1985	37	0.1	14	0.1	18	0.2	41	0.4	57	0.7	98	1.4	186	3.3	260	5.0	472	8.9	708	14.0	920	22.0	1003	31.8	833	40.1	575	49.4	368	46.4	1985
1986	21	0.1	14	0.1	23	0.2	33	0.3	79	0.9	109	1.5	136	2.3	281	5.4	474	9.0	780	15.1	911	21.3	956	29.9	891	40.8	626	52.3	402	51.6	1986
1987	39	0.1	16	0.2	28	0.3	52	0.5	93	1.0	92	1.2	166	2.8	269	5.1	481	9.2	707	14.2	981	22.7	1052	32.4	864	38.5	621	50.2	410	51.4	1987
1988	27	0.1	8	0.1	23	0.2	41	0.4	74	0.8	110	1.4	153	2.4	258	4.8	549	10.7	790	15.8	1025	23.3	965	29.2	913	39.7	635	49.7	482	59.5	1988
1989	28	0.1	7	0.1	19	0.2	45	0.4	80	0.8	119	1.4	189	2.9	273	5.0	508	10.1	774	15.6	1054	23.6	1125	33.5	981	41.7	700	52.9	481	57.9	1989
1990	34	0.1	9	0.1	12	0.1	48	0.4	75	0.8	139	1.6	196	2.9	340	6.2	494	9.9	791	16.0	1035	23.0	1130	33.2	1025	42.9	711	52.4	518	61.6	1990
1991	34	0.1	12	0.1	22	0.2	45	0.4	85	0.8	169	1.8	198	2.9	288	5.1	491	9.8	804	16.3	1078	24.0	1154	32.6	1075	43.2	716	50.9	568	64.0	1991
1992	25	0.1	14	0.1	14	0.1	47	0.4	87	0.8	185	2.0	260	3.4	343	5.9	536	10.7	913	18.7	1137	25.4	1256	34.4	1134	44.5	754	51.8	575	62.2	1992
1993	27	0.1	11	0.1	16	0.2	38	0.3	117	1.1	187	2.0	268	3.4	378	6.1	532	10.4	850	17.7	1176	26.1	1311	35.2	1154	44.4	790	52.5	602	62.4	1993
1994	41	0.1	13	0.1	19	0.2	44	0.4	108	1.0	194	2.0	322	3.9	396	6.2	588	11.2	874	18.5	1175	26.1	1288	34.0	1188	44.6	850	54.6	619	61.7	1994
1995	24	0.1	5	0.1	23	0.2	39	0.4	86	0.8	229	2.3	354	4.1	410	6.2	601	11.3	976	20.7	1164	25.8	1422	37.0	1246	45.7	949	58.7	697	66.7	1995
1996	30	0.1	17	0.2	23	0.2	33	0.3	101	0.9	255	2.5	400	4.4	473	7.0	614	11.3	910	19.3	1235	27.4	1504	38.3	1233	43.6	922	55.2	710	65.4	1996
1997	33	0.1	7	0.1	24	0.3	39	0.4	108	1.0	212	2.0	461	5.1	558	7.6	696	12.3	873	18.4	1217	27.2	1480	38.2	1310	44.8	953	55.4	736	65.0	1997
1998	32	0.1	16	0.2	22	0.2	38	0.4	79	0.7	237	2.2	550	5.9	660	8.6	697	11.7	935	19.3	1252	28.5	1422	36.9	1429	47.7	1014	57.5	696	58.6	1998

^a Rates are per 100,000.^b Rates cannot be calculated for 75-79, 80-84, and 85+ because population data are only available for 75+ from 1930 to 1939.

* Number of deaths is fewer than 5.

** Rate is not calculated since number of deaths is fewer than 5.

Source: Vital Statistics of the United States [ref. 10-14]; see also *Cautions in the Interpretations of Long-Term Trends Data*.

Article continues on next page.

TABLE 20

Average Annual Percent Change in Death Rates for Cancer of the Liver, Gallbladder, and Biliary Passages, by Gender and Age at Death, 1930-1998, United States

Age	1930-39	1940-49	1950-59	1960-69	1970-79	1980-89	1990-98
Males							
0-19	0.0	0.7	-0.9	-2.4	1.0	-4.7	-1.2
20-24	0.0	-0.4	4.6	9.2	-4.5	-5.2	1.8
25-29	-2.9	-2.2	-5.5	-1.3	2.6	-0.2	8.9*
30-34	-3.3*	1.0	-1.6	-1.0	-5.2*	0.4	-2.3
35-39	-1.8	-0.6	-1.4	0.5	-2.1	4.5	-0.2
40-44	-3.7*	-0.4	-2.8*	0.3	-2.6	1.0	3.6*
45-49	-3.5*	0.0	-4.3*	-1.3	-1.4	-0.5	9.2*
50-54	-2.4*	-1.0	-1.8*	-0.7	-0.3	0.8	4.9*
55-59	-3.4*	-1.5	-2.9*	-0.8	-2.2*	2.0*	2.6*
60-64	-3.0*	-0.7	-1.7*	-1.8*	-1.5*	1.7*	2.3*
65-69	-3.2*	-1.9*	-1.1	-0.4	-1.1	1.6*	2.3*
70-74	-3.8*	-2.4*	-2.2*	-1.1*	-0.4	0.8	2.0*
75-79 ^a		-1.2	-3.0*	-0.2	-1.9*	0.5	0.9*
80-84 ^a		-2.2*	-1.7*	-0.3	-1.2*	1.9*	1.4*
85+ ^a		-2.3*	-2.8*	0.7	0.3	0.9	0.0
Age	1930-39	1940-49	1950-59	1960-69	1970-79	1980-89	1990-98
Females							
0-19	-1.7	0.4	-0.1	-2.9	-1.4	-4.5*	-2.6
20-24	-1.3	-2.2	-6.4	14.4*	-1.9	-5.5	0.8
25-29	-3.4	-4.3	-9.9*	2.6	1.0	-5.6	3.6
30-34	-3.9	-3.3	-7.3*	0.9	-5.1	-3.3	4.1
35-39	-3.5*	-3.7	-5.2*	-3.6	-1.9	4.0	-2.3
40-44	-2.0*	-3.0	-5.4*	-2.5	-2.9*	0.1	1.4
45-49	-4.5*	-3.4*	-4.3*	-1.8	-0.7	-1.4	-1.0*
50-54	-4.1*	-3.1*	-4.7*	-1.7*	-2.6*	0.1	0.4
55-59	-3.9*	-2.1*	-4.3*	-2.1*	-1.8	-0.1	-0.2
60-64	-4.1*	-2.1*	-3.6*	-4.5*	-2.5*	-1.0	1.2*
65-69	-3.6*	-2.5*	-2.2*	-2.0*	-3.2*	-0.9	1.7*
70-74	-4.2*	-2.7*	-3.6*	-2.9*	-2.6*	-1.8*	1.0
75-79 ^a		-2.9*	-3.4*	-2.3*	-2.0*	-0.7	0.7*
80-84 ^a		-2.9*	-2.2*	-2.0*	-2.8*	-1.3*	0.7
85+ ^a		-1.5	-1.3	-1.8*	-1.7*	-0.2	-0.3

* Average annual percent change is significantly different from zero ($p < 0.05$).

^a Rates cannot be calculated for 75-79, 80-84, and 85+ because population data are only available for 75+ from 1930 to 1939.

Source: Vital Statistics of the United States [ref. 10-14]; see also *Cautions in the Interpretations of Long-Term Trends Data*.

TABLE 21
(continued)

0-19		20-24		25-29		30-34		35-39		40-44		45-49		50-54		55-59		60-64		65-69		70-74		75-79 ^b		80-84 ^b		85+ ^b			
Year	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Year
1970	32	0.1	9	0.1	9	0.1	18	0.3	40	0.7	83	1.3	153	2.4	274	4.8	326	6.3	539	11.7	716	18.5	860	27.5	788	34.7	677	48.0	426	46.4	1970
1971	32	0.1	14	0.2	10	0.1	22	0.4	22	0.4	67	1.1	113	1.8	231	3.9	378	7.2	525	11.1	712	18.0	788	24.8	827	34.7	681	45.4	473	48.4	1971
1972	18	0.0	10	0.1	12	0.2	26	0.4	48	0.8	64	1.1	122	2.0	240	4.0	396	7.4	514	10.6	716	17.4	864	27.1	814	33.5	676	43.0	478	46.9	1972
1973	28	0.1	12	0.1	12	0.2	14	0.2	35	0.6	60	1.0	120	1.9	255	4.1	340	6.3	522	10.6	669	15.8	816	25.1	822	33.5	646	39.2	491	45.9	1973
1974	28	0.1	11	0.1	10	0.1	15	0.2	31	0.5	59	1.0	144	2.4	239	3.8	343	6.3	531	10.6	686	15.9	834	25.3	819	32.6	684	41.1	515	45.1	1974
1975	26	0.1	8	0.1	14	0.2	14	0.2	35	0.6	58	1.0	121	2.0	230	3.7	335	6.0	500	9.9	638	14.1	786	23.5	826	31.9	684	40.1	539	43.9	1975
1976	24	0.1	14	0.1	12	0.1	20	0.3	31	0.5	51	0.9	118	2.0	216	3.5	331	5.8	496	9.8	649	14.0	812	23.7	792	29.7	680	38.5	528	40.9	1976
1977	20	0.1	11	0.1	11	0.1	24	0.3	40	0.6	51	0.9	114	1.9	224	3.6	338	5.7	471	9.2	684	14.7	785	22.1	822	30.3	674	36.8	576	42.2	1977
1978	25	0.1	11	0.1	14	0.1	15	0.2	25	0.4	61	1.1	132	2.3	228	3.7	354	5.9	489	9.4	684	14.4	799	21.6	800	30.6	688	38.0	592	41.0	1978
1979	26	0.1	11	0.1	17	0.2	19	0.2	43	0.6	55	0.9	106	1.8	210	3.4	386	6.3	499	9.4	677	13.9	828	21.6	841	29.0	669	35.8	652	42.9	1979
1980	28	0.1	15	0.2	22	0.2	22	0.2	32	0.5	48	0.8	112	2.0	198	3.3	355	5.8	521	9.6	683	14.2	897	22.7	822	27.9	766	40.0	661	42.4	1980
1981	25	0.1	12	0.1	16	0.2	20	0.2	25	0.3	51	0.8	96	1.7	212	3.5	334	5.5	482	8.7	674	13.6	825	20.3	864	28.4	743	37.6	715	43.4	1981
1982	34	0.1	9	0.1	19	0.2	21	0.2	40	0.5	64	1.0	112	2.0	217	3.7	352	5.8	541	9.6	682	13.8	837	20.2	835	26.7	761	37.5	782	45.5	1982
1983	32	0.1	13	0.1	18	0.2	30	0.3	25	0.3	76	1.1	103	1.8	204	3.5	338	5.6	469	8.2	649	12.8	838	19.8	820	25.5	750	35.9	797	44.6	1983
1984	30	0.1	7	0.1	24	0.2	30	0.3	40	0.5	67	1.0	100	1.7	207	3.7	305	5.1	522	9.0	689	13.7	808	18.8	912	27.6	752	35.0	798	43.2	1984
1985	26	0.1	9	0.1	20	0.2	34	0.3	50	0.6	62	0.9	110	1.9	216	3.9	314	5.3	536	9.2	711	13.8	897	20.6	893	26.4	795	35.9	807	42.3	1985
1986	20	0.1	6	0.1	10	0.1	22	0.2	50	0.5	69	0.9	118	1.9	209	3.8	294	5.0	521	8.9	687	12.7	891	20.3	948	27.4	817	35.8	833	42.4	1986
1987	23	0.1	6	0.1	17	0.2	13	0.1	47	0.5	78	1.0	99	1.6	179	3.2	332	5.8	465	8.0	683	12.9	860	19.3	946	26.7	820	34.8	882	43.6	1987
1988	17	0.0	9	0.1	16	0.1	13	0.1	56	0.6	76	0.9	105	1.6	188	3.3	297	5.3	524	9.1	666	12.3	847	18.8	946	26.2	846	34.9	869	41.9	1988
1989	23	0.1	8	0.1	12	0.1	35	0.3	49	0.5	71	0.8	121	1.8	209	3.6	332	6.0	476	8.3	746	13.6	794	17.5	942	25.7	873	34.9	945	44.2	1989
1990	24	0.1	12	0.1	8	0.1	17	0.2	41	0.4	82	0.9	136	1.9	190	3.3	308	5.6	512	9.0	755	13.6	902	19.7	986	26.8	859	33.6	969	44.4	1990
1991	20	0.1	8	0.1	8	0.1	17	0.2	58	0.6	82	0.9	143	2.0	217	3.6	304	5.6	495	8.8	727	13.1	947	20.1	1019	26.9	913	34.7	1052	45.7	1991
1992	29	0.1	11	0.1	11	0.1	26	0.2	61	0.6	81	0.9	148	1.9	197	3.2	314	5.7	513	9.2	747	13.6	921	19.1	1064	27.7	1028	38.3	1067	44.6	1992
1993	25	0.1	7	0.1	11	0.1	30	0.3	44	0.4	83	0.9	147	1.8	211	3.2	342	6.2	522	9.6	801	14.5	981	20.1	1055	27.2	1011	36.8	1138	45.9	1993
1994	19	0.1	11	0.1	12	0.1	20	0.2	49	0.4	99	1.0	154	1.8	228	3.4	331	5.8	517	9.7	772	14.1	1007	22.0	1061	27.0	1004	35.8	1126	44.0	1994
1995	35	0.1	13	0.1	10	0.1	19	0.2	50	0.4	90	0.9	159	1.8	255	3.6	351	6.1	531	10.0	843	15.6	1084	21.7	1135	28.6	1018	35.6	1184	44.8	1995
1996	15	0.0	10	0.1	13	0.1	22	0.2	51	0.5	90	0.9	170	1.8	256	3.6	326	5.5	513	9.7	844	15.7	1038	20.9	1146	28.2	1079	37.2	1203	44.3	1996
1997	20	0.1	8	0.1	11	0.1	27	0.3	44	0.4	107	1.0	168	1.8	286	3.7	360	5.9	527	9.9	795	15.0	1038	21.0	1200	28.9	1094	37.2	1219	43.8	1997
1998	24	0.1	10	0.1	8	0.1	23	0.2	48	0.4	111	1.0	179	1.9	255	3.2	345	5.4	514	9.5	760	14.6	1022	20.7	1168	27.7	1073	36.2	1267	44.3	1998

^a Rates are per 100,000.

^b Rates cannot be calculated for 75-79, 80-84, and 85+ because population data are only available for 75+ from 1930 to 1939.

* Number of deaths is fewer than 5.

** Rate is not calculated since number of deaths is fewer than 5.

Source: Vital Statistics of the United States [ref. 10-14]; see also *Cautions in the Interpretations of Long-Term Trends Data*.

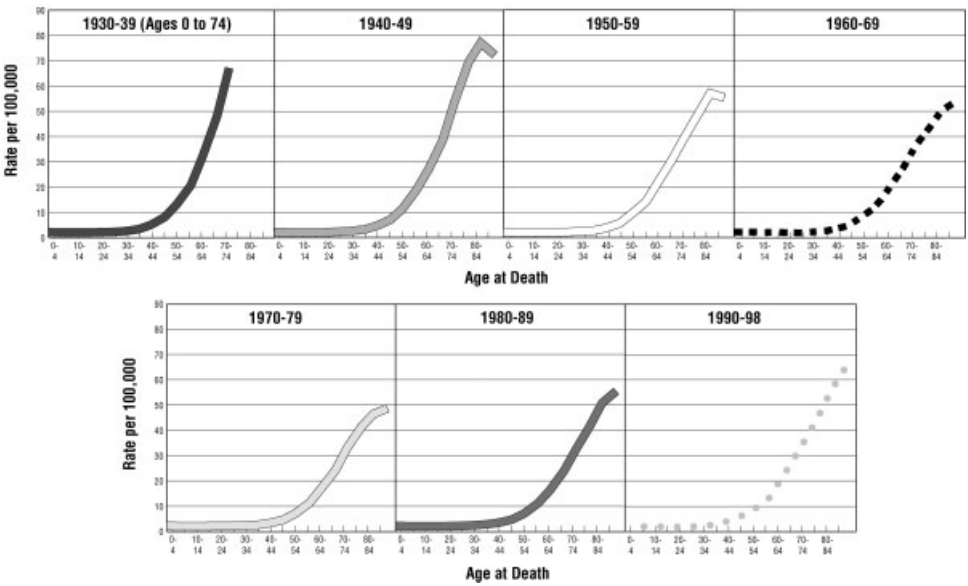


FIGURE 34. Male age-specific death rates for cancer of the liver, gallbladder, and biliary passages, separated by age at and decade of death, 1930–1998, United States. Source: *Vital Statistics of the United States*^{10–14}; see also the section entitled “Cautions in the Interpretation of Long-Term Trends Data” in the current article.

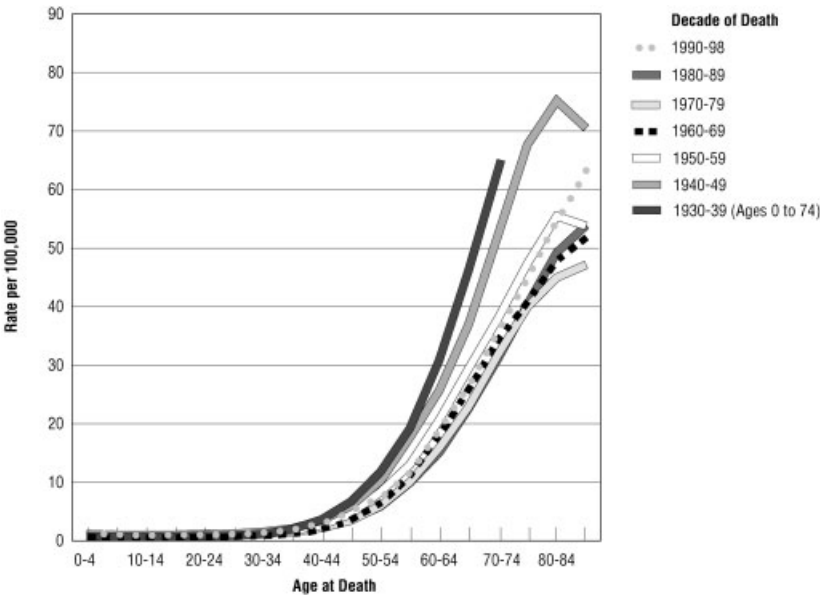


FIGURE 35. Male age-specific death rates for cancer of the liver, gallbladder, and biliary passages, by age at and decade of death, 1930–1998, United States. Source: *Vital Statistics of the United States*^{10–14}; see also the section entitled “Cautions in the Interpretation of Long-Term Trends Data” in the current article.

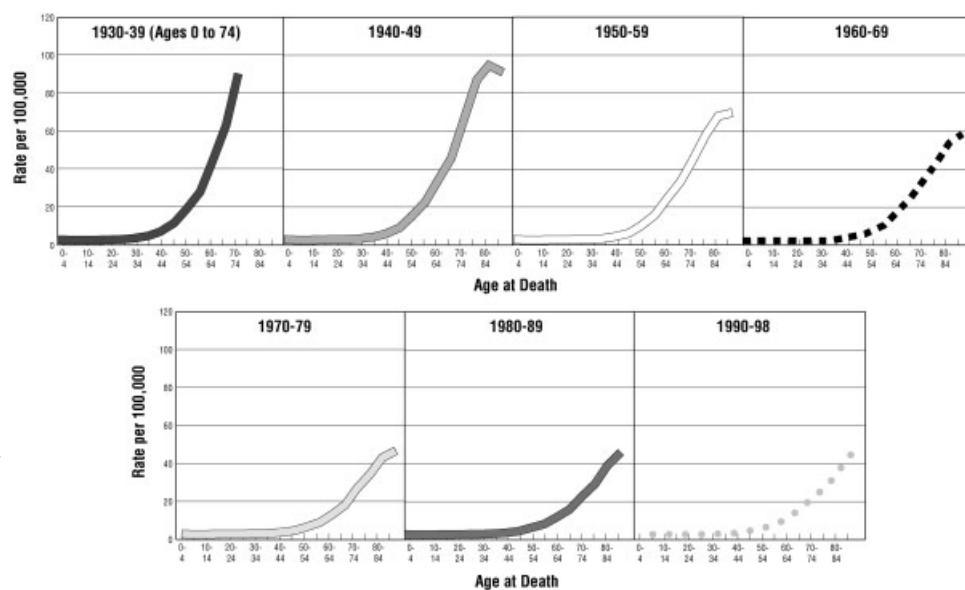


FIGURE 36. Female age-specific death rates for cancer of the liver, gallbladder, and biliary passages, separated by age at and decade of death, 1930–1998, United States. Source: *Vital Statistics of the United States*^{10–14}; see also the section entitled “Cautions in the Interpretation of Long-Term Trends Data” in the current article.

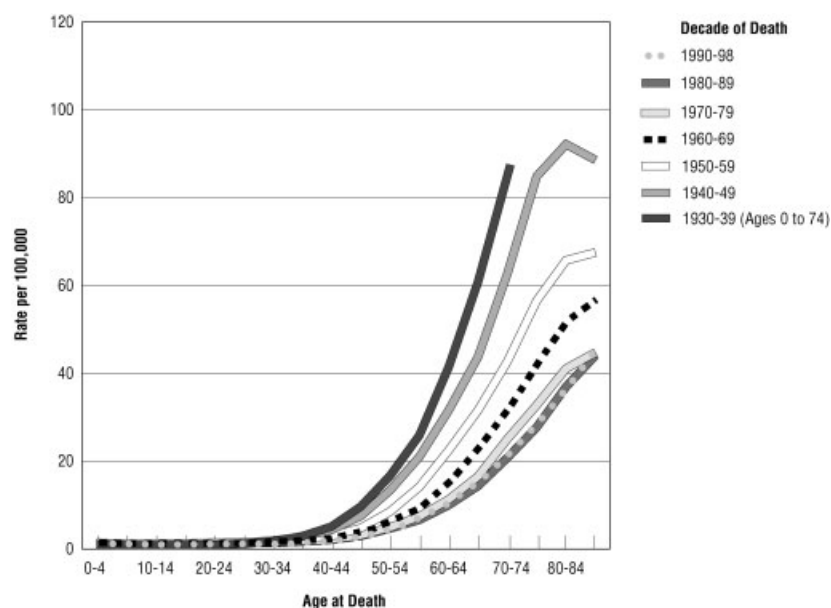


FIGURE 37. Female age-specific death rates for cancer of the liver, gallbladder, and biliary passages, by age at and decade of death, 1930–1998, United States. Source: *Vital Statistics of the United States*^{10–14}; see also the section entitled “Cautions in the Interpretation of Long-Term Trends Data” in the current article.

TABLE 22
Deaths and Death Rates for Cancer of the Lung, Bronchus, Trachea, and Pleura, by Gender and Year of Death, 1930-1998, United States

Year	Males				Females			
	Number		Rate		Number		Rate	
		Crude	1970 ^a	2000 ^b		Crude	1970 ^a	2000 ^b
1930	1,818	3.1	3.8	4.3	1,019	1.8	2.3	2.6
1931	1,989	3.3	4.1	4.7	1,079	1.8	2.3	2.6
1932	2,336	3.9	4.8	5.4	1,135	1.9	2.5	2.8
1933	2,600	4.1	5.0	5.7	1,261	2.0	2.6	3.0
1934	3,026	4.7	5.7	6.4	1,347	2.2	2.7	3.1
1935	3,491	5.4	6.5	7.5	1,558	2.5	3.1	3.5
1936	3,862	6.0	7.0	8.0	1,739	2.7	3.4	3.9
1937	4,401	6.8	7.9	9.0	1,718	2.7	3.2	3.8
1938	4,868	7.5	8.6	9.9	1,913	3.0	3.5	4.1
1939	5,324	8.1	9.3	10.5	1,955	3.0	3.5	4.1
1940	6,057	9.1	10.3	11.6	2,029	3.1	3.6	4.1
1941	6,525	9.8	10.9	12.3	2,263	3.4	4.0	4.6
1942	7,050	10.4	11.6	13.1	2,348	3.5	4.0	4.7
1943	7,678	11.2	12.4	14.0	2,572	3.8	4.2	4.9
1944	8,369	12.1	13.3	14.8	2,712	3.9	4.4	5.1
1945	9,206	13.1	14.3	16.0	2,924	4.2	4.6	5.3
1946	10,427	14.8	16.1	18.1	3,043	4.3	4.7	5.5
1947	12,087	16.8	18.3	20.5	3,360	4.7	5.1	6.1
1948	13,419	18.3	20.0	22.6	3,683	5.0	5.5	6.4
1949	13,507	18.2	19.8	22.3	3,153	4.2	4.6	5.6
1950	14,922	19.8	21.5	24.3	3,391	4.5	4.8	5.8
1951	16,219	21.1	23.0	25.8	3,506	4.5	4.9	5.9
1952	17,821	22.8	24.8	28.0	3,761	4.8	5.1	6.1
1953	19,740	24.9	27.0	30.4	3,762	4.7	4.9	6.0
1954	20,911	26.0	28.1	31.7	3,877	4.7	4.9	6.0
1955	22,703	27.7	30.0	33.9	4,123	5.0	5.1	6.2
1956	24,817	29.8	32.3	36.4	4,364	5.1	5.3	6.3
1957	26,287	31.0	33.7	37.9	4,489	5.2	5.3	6.4
1958	27,527	31.9	34.7	39.2	4,786	5.4	5.5	6.7
1959	29,335	33.5	36.5	41.3	4,967	5.5	5.6	6.7
1960	31,257	35.1	38.3	43.5	5,163	5.7	5.7	6.9
1961	33,211	36.6	40.1	45.5	5,718	6.2	6.1	7.4
1962	35,312	38.4	42.1	47.9	6,064	6.4	6.3	7.6
1963	36,980	39.6	43.7	49.9	6,588	6.9	6.7	8.1
1964	38,909	41.2	45.4	51.7	6,929	7.1	6.9	8.3
1965	40,879	42.8	47.2	54.1	7,604	7.7	7.5	8.9
1966	43,174	44.7	49.4	56.7	8,304	8.3	8.0	9.6
1967	45,383	46.5	51.4	59.3	9,024	8.9	8.5	10.1
1968	49,017	49.8	55.0	63.5	10,639	10.4	9.9	11.8
1969	50,658	51.0	56.3	65.1	11,472	11.1	10.5	12.3
1970	53,015	53.0	58.5	67.9	12,451	11.9	11.2	13.2
1971	55,158	54.3	59.9	69.9	13,774	13.0	12.1	14.2
1972	57,868	56.4	62.0	72.3	15,014	14.0	13.0	15.2
1973	59,367	57.4	62.8	73.4	15,838	14.6	13.4	15.7
1974	61,813	59.2	64.5	75.6	17,349	15.8	14.4	16.8
1975	63,623	60.4	65.4	76.7	18,732	16.9	15.3	17.8
1976	66,120	62.2	66.9	78.8	20,595	18.4	16.5	19.1
1977	68,723	64.0	68.5	80.8	22,112	19.6	17.4	20.1
1978	71,255	65.7	69.8	82.4	24,179	21.2	18.7	21.5
1979	73,060	66.7	70.4	83.3	25,731	22.3	19.4	22.4
1980	75,795	68.9	72.1	85.5	28,406	24.4	21.1	24.3
1981	77,029	69.1	72.0	85.6	29,883	25.3	21.8	25.1
1982	79,509	70.6	73.3	87.2	32,285	27.1	23.1	26.6
1983	80,645	71.0	73.3	87.5	34,778	28.9	24.5	28.2

(continued)

TABLE 22
(continued)

Year	Males				Females			
	Number		Rate		Number		Rate	
		Crude	1970 ^a	2000 ^b		Crude	1970 ^a	2000 ^b
1984	82,810	72.2	74.3	88.7	36,353	30.0	25.2	29.1
1985	84,145	72.7	74.5	89.0	38,782	31.7	26.5	30.5
1986	85,355	73.0	74.6	89.4	40,556	32.9	27.3	31.5
1987	87,590	74.3	75.5	90.5	42,830	34.4	28.4	32.8
1988	88,368	74.2	75.2	90.3	45,316	36.1	29.5	34.3
1989	89,409	74.3	75.0	90.2	48,199	38.1	30.9	35.9
1990	91,460	75.4	75.9	91.5	50,286	39.4	31.8	37.1
1991	92,049	74.9	74.8	90.4	52,162	40.4	32.2	37.8
1992	91,776	73.8	73.2	88.5	54,644	41.8	33.2	38.9
1993	92,885	73.8	72.8	88.1	56,388	42.7	33.6	39.6
1994	92,210	72.6	71.1	86.2	57,704	43.3	33.8	40.0
1995	92,190	71.9	69.7	84.9	59,439	44.2	34.2	40.7
1996	91,959	71.0	68.4	83.4	60,494	44.6	34.3	40.9
1997	91,687	70.1	66.9	81.9	62,053	45.3	34.6	41.3
1998	91,776	69.5	65.7	80.4	63,196	45.7	34.7	41.6

^a Rates are per 100,000 and are age-adjusted to the 1970 U.S. standard population.^b Rates are per 100,000 and are age-adjusted to the 2000 U.S. standard population.**Source:** Vital Statistics of the United States [ref. 10-14]; see also *Cautions in the Interpretations of Long-Term Trends Data*.

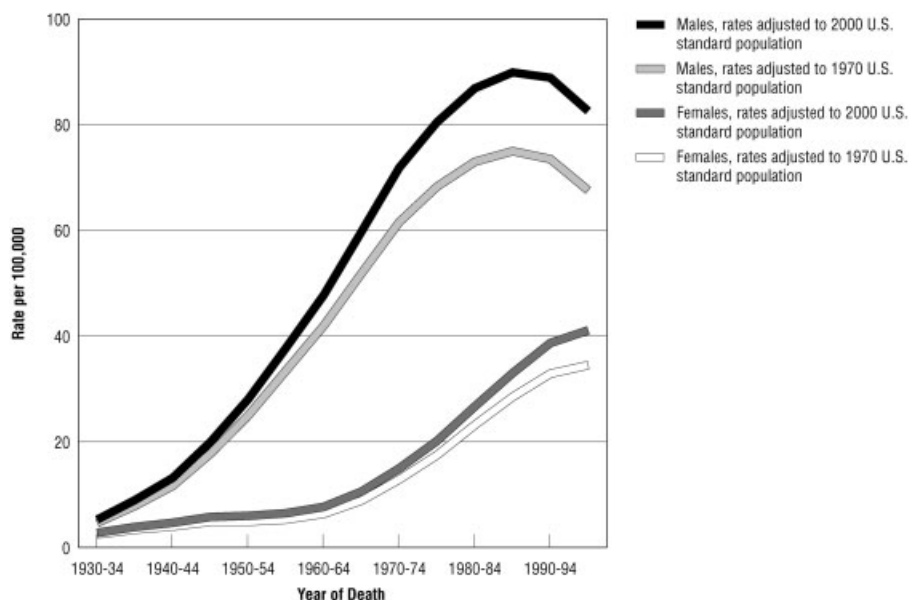


FIGURE 38. Death rates for cancer of the lung, bronchus, trachea, and pleura, by gender and year of death, 1930–1998, United States. Source: *Vital Statistics of the United States*^{10–14}; see also the section entitled “Cautions in the Interpretation of Long-Term Trends Data” in the current article.

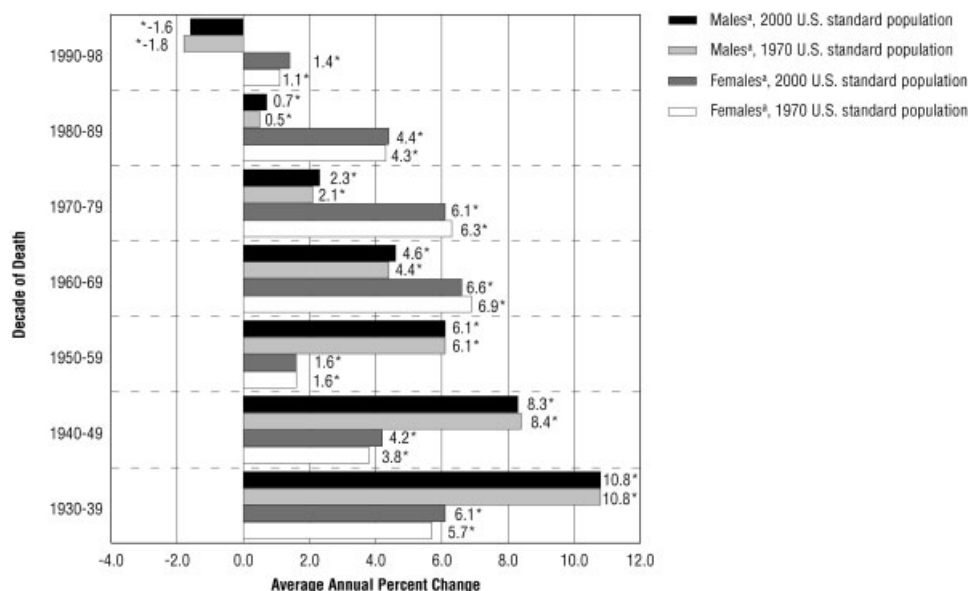


FIGURE 39. Average annual percent change^a in death rates for cancer of the lung, bronchus, trachea, and pleura, by gender and decade of death, 1930–1998, United States. ^aAverage annual percent change is based on rates adjusted to 2000 or 1970 U.S. standard population. *Average annual percent change is significantly different from zero ($p < 0.05$). Source: *Vital Statistics of the United States*^{10–14}; see also the section entitled “Cautions in the Interpretation of Long-Term Trends Data” in the current article.

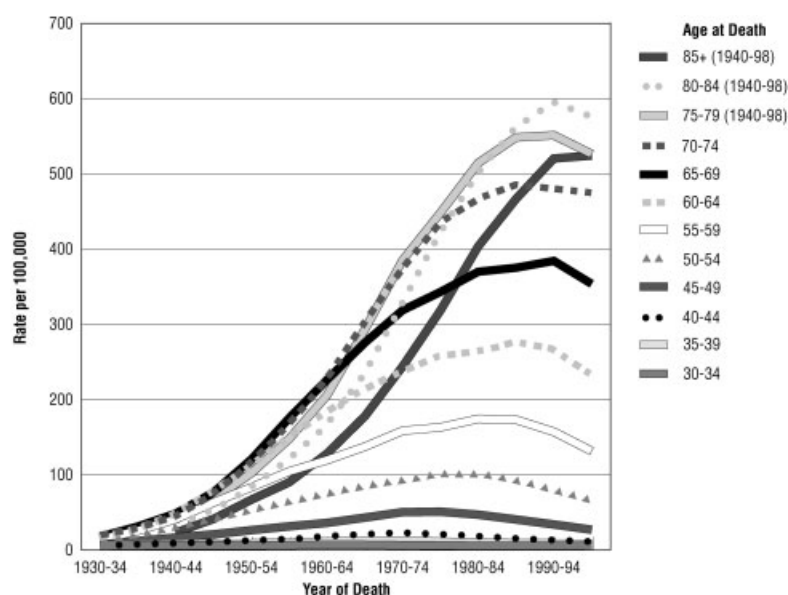


FIGURE 40. Male death rates for cancer of the lung, bronchus, trachea, and pleura, by age at and year of death, 1930–1998, United States. Source: *Vital Statistics of the United States*^{10–14}; see also the section entitled “Cautions in the Interpretation of Long-Term Trends Data” in the current article.

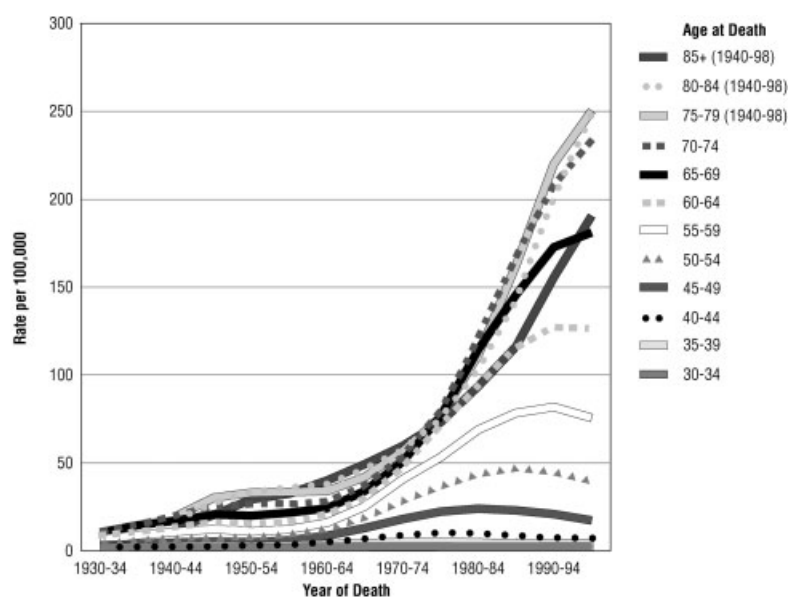


FIGURE 41. Female death rates for cancer of the lung, bronchus, trachea, and pleura, by age at and year of death, 1930–1998, United States. Source: *Vital Statistics of the United States*^{10–14}; see also the section entitled “Cautions in the Interpretation of Long-Term Trends Data” in the current article.

TABLE 23
Male Deaths and Death Rates^a for Cancer of the Lung, Bronchus, Trachea, and Pleura, by Age at and Year of Death, 1930-1998, United States

Year	0-19		20-24		25-29		30-34		35-39		40-44		45-49		50-54		55-59		60-64		65-69		70-74		75-79 ^b		80-84 ^b		85+ ^b	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate
1930	42	0.2	24	0.5	34	0.7	37	0.8	84	1.9	151	3.8	207	5.9	271	9.0	275	11.7	250	13.3	208	15.1	151	15.7	-	-	-	-	-	-
1931	50	0.2	29	0.6	27	0.6	49	1.1	89	2.0	145	3.6	223	6.2	281	9.1	272	11.2	292	15.2	249	17.6	158	16.1	-	-	-	-	-	-
1932	44	0.2	30	0.6	32	0.7	48	1.1	97	2.2	184	4.4	273	7.6	336	10.8	348	13.8	371	18.9	253	17.4	175	17.6	-	-	-	-	-	-
1933	71	0.3	36	0.7	37	0.7	44	0.9	92	2.0	199	4.5	284	7.4	427	13.0	417	15.5	356	17.1	273	17.5	205	19.6	-	-	-	-	-	-
1934	54	0.2	32	0.6	56	1.1	43	0.9	114	2.5	217	4.9	386	9.3	459	13.8	504	18.3	446	20.8	342	21.4	230	21.6	-	-	-	-	-	-
1935	51	0.2	32	0.6	38	0.7	72	1.5	143	3.2	239	5.4	386	9.3	546	16.1	530	18.9	503	22.8	426	25.9	287	26.3	-	-	-	-	-	-
1936	50	0.2	42	0.7	28	0.5	69	1.4	127	2.8	265	6.0	437	10.8	568	17.1	675	23.7	603	26.7	448	26.5	281	25.0	-	-	-	-	-	-
1937	51	0.2	23	0.4	41	0.8	70	1.4	141	3.1	309	7.0	514	12.5	723	20.6	738	25.6	638	28.5	521	30.0	329	28.4	-	-	-	-	-	-
1938	64	0.3	30	0.5	56	1.0	69	1.4	136	2.9	304	6.9	554	12.3	733	20.3	829	28.3	723	30.7	640	35.9	380	31.7	-	-	-	-	-	-
1939	55	0.2	26	0.5	37	0.7	74	1.5	132	3.2	290	6.6	585	14.2	818	22.2	934	31.3	876	36.7	687	38.0	412	33.4	-	-	-	-	-	-
1940	48	0.2	48	0.8	49	0.9	79	1.5	152	3.2	326	7.3	655	15.5	929	24.7	1064	35.0	1047	43.1	780	41.4	473	37.0	276	37.9	94	26.0	32	20.1
1941	60	0.3	31	0.5	47	0.8	82	1.6	156	3.2	345	7.7	688	15.7	1004	26.4	1195	38.6	1093	43.8	845	43.7	547	41.8	302	40.5	111	30.2	37	22.4
1942	50	0.2	30	0.5	51	0.9	87	1.7	158	3.2	362	8.0	736	17.2	1064	27.7	1223	38.8	1213	47.5	981	49.4	607	45.1	303	39.5	139	36.8	44	25.6
1943	54	0.2	38	0.6	38	0.7	80	1.5	188	3.8	394	8.5	726	16.7	1163	29.9	1366	42.5	1362	52.1	1051	51.6	679	48.1	356	45.1	148	38.3	35	19.7
1944	46	0.2	31	0.5	58	1.0	86	1.6	182	3.6	394	8.4	800	18.3	1236	31.4	1644	50.4	1467	54.9	1175	56.2	724	51.0	329	40.5	143	36.3	52	28.4
1945	56	0.2	43	0.7	55	0.9	101	1.9	209	4.1	456	9.7	809	18.3	1320	33.2	1857	55.9	1628	59.5	1272	59.2	783	53.6	423	50.2	143	35.0	49	25.5
1946	67	0.3	27	0.4	43	0.7	82	1.5	201	3.9	430	9.0	867	19.4	1352	33.2	1908	56.5	1988	71.1	1481	67.3	959	63.9	508	58.3	204	47.7	83	41.9
1947	58	0.2	36	0.6	66	1.1	98	1.8	208	4.0	550	11.3	933	20.8	1719	42.5	2222	64.6	2328	81.3	1782	79.0	1145	74.5	619	68.5	233	51.5	86	41.7
1948	62	0.2	43	0.7	50	0.8	111	2.0	254	4.7	500	10.1	1078	24.0	1764	43.3	2469	70.3	2547	86.9	2064	89.5	1299	82.7	734	78.6	327	68.8	107	49.8
1949	19	0.1	20	0.3	29	0.5	73	1.3	222	4.1	492	9.8	1017	22.5	1795	43.7	2470	68.8	2627	87.4	2075	87.9	1454	90.5	781	80.7	318	63.9	106	46.7
1950	22	0.1	12	0.2	23	0.4	102	1.8	227	4.1	525	10.3	1116	24.5	1912	46.2	2688	73.2	2942	96.5	2576	97.3	1597	97.4	882	88.0	363	70.2	148	61.2
1951	18	0.1	21	0.4	41	0.7	74	1.3	239	4.3	524	10.1	1158	25.0	2074	49.9	2833	76.4	3202	103.3	2757	110.2	1784	105.9	955	91.9	377	71.9	155	59.6
1952	17	0.1	18	0.3	38	0.6	89	1.5	246	4.3	637	12.1	1227	26.0	2087	50.1	3173	84.8	3594	110.8	3095	121.0	1958	112.8	1100	102.6	434	81.4	194	70.0
1953	23	0.1	14	0.3	37	0.6	101	1.7	257	4.5	661	12.4	1355	27.7	2362	56.1	3454	92.0	3866	122.1	3407	130.4	2192	122.4	1234	111.8	518	94.9	200	68.5
1954	17	0.1	17	0.3	37	0.6	110	1.8	231	4.0	692	12.9	1452	29.2	2369	55.5	3460	91.4	4107	125.4	3795	142.2	2525	135.8	1316	115.7	564	100.0	228	74.3
1955	20	0.1	11	0.2	41	0.7	110	1.8	293	5.0	660	12.1	1553	31.0	2545	58.9	3647	95.3	4434	133.6	4139	152.4	2775	144.1	1565	133.6	666	113.5	234	72.9
1956	16	0.1	13	0.2	31	0.5	116	1.9	305	5.2	750	13.6	1606	31.6	2695	61.4	4010	103.6	4821	143.4	4619	167.8	3141	158.2	1702	141.6	712	116.9	278	84.5
1957	18	0.1	16	0.3	30	0.5	114	1.9	280	4.7	758	13.6	1587	30.9	2835	63.3	4170	106.6	5157	152.6	4947	176.3	3458	169.5	1855	148.5	740	117.6	302	88.1
1958	18	0.1	8	0.2	36	0.6	131	2.2	334	5.5	794	14.2	1646	31.4	3005	65.9	4178	105.0	5361	158.9	5315	186.4	3637	173.9	1936	151.7	812	126.3	314	91.0
1959	13	0.0	7	0.1	28	0.5	130	2.2	377	6.2	800	14.2	1739	32.8	3034	65.2	4552	112.1	5562	164.3	5367	193.3	4089	190.4	2140	161.5	878	133.2	396	111.5
1960	11	0.0	7	0.1	35	0.6	126	2.1	373	6.1	867	15.2	1784	33.2	3324	70.1	4752	115.1	5746	168.6	5865	200.1	4587	209.9	2377	174.9	1006	151.3	390	107.7
1961	16	0.0	9	0.2	34	0.6	146	2.5	366	6.0	945	16.3	1873	34.6	3401	70.0	4833	115.0	6092	177.6	6172	219.2	4807	217.5	2808	185.6	1100	157.1	480	128.7
1962	8	0.0	2	0.2	29	0.5	136	2.4	398	6.5	983	16.7	2001	36.8	3624	73.5	5211	120.8	6355	183.9	6761	228.8	5186	244.2	2926	204.2	1203	166.2	472	126.2
1963	16	0.0	15	0.2	26	0.5	146	2.6	421	7.0	1016	17.0	2078	38.0	3837	72.8	5312	120.3	6362	180.0	7048	238.8	5840	242.0	3223	221.7	1310	175.4	538	142.7
1964	13	0.0	10	0.2	29	0.5	123	2.2	438	7.3	1089	18.0	2118	38.5	3874	76.7	5719	126.9	6961	197.5	7240	244.8	5840	249.7	3551	239.9	1372	177.5	525	135.7
1965	18	0.0	16	0.2	27	0.5	111	2.0	446	7.6	1135	18.7	2252	40.6	4004	78.5	5910	129.0	7087	198.1	7537	253.6	6391	272.1	3724	248.3	1593	200.4	617	155.0
1966	9	0.0	17	0.2	30	0.5	144	2.6	429	7.4	1178	19.5	2321	41.3	4167	80.9	6044	130.1	7707	210.6	7884	263.8	6557	283.8	4184	274.9	1757	215.6	638	156.0
1967	15	0.0	11	0.1	21	0.4	128	2.3	454	7.9	1197	19.9	2398	42.1	4316	83.1	6305	134.5	7940	211.3	8274	274.6	6990	297.7	4629	299.0	1994	238.1	740	173.7
1968	16	0.0	15	0.2	38	0.6	124	2.2	451	8.0	1289	21.6	2647	45.8	4550	86.8	6906	144.1	8669	224.3	7334	287.1	7713	331.9	4939	315.4	2162	254.4	855	194.3
1969	16	0.0	14	0.2	27	0.4	115	2.0	455	8.2	1361	23.0	2680	46.0	4661	88.0	7105	149.6	8901	224.6	9185	298.2	7758	353.0	5155	325.8	2288	264.8	943	203.4

(continued)

TABLE 23
(continued)

Year	0-19		20-24		25-29		30-34		35-39		40-44		45-49		50-54		55-59		60-64		65-69		70-74		75-79 ^b		80-84 ^b		85+ ^b	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate
1970	18	0.0	20	0.2	38	0.6	125	2.2	432	7.9	1385	23.6	2777	47.3	4815	89.9	7475	156.7	9256	229.6	9525	304.8	7988	344.8	5495	351.8	2598	296.6	1038	216.4
1971	23	0.1	20	0.2	33	0.5	133	2.3	437	8.0	1276	22.0	2874	49.0	4807	87.8	7425	154.2	9391	227.2	10187	317.9	8402	360.1	5977	371.9	2940	324.9	1227	240.6
1972	26	0.1	10	0.1	26	0.3	106	1.7	430	7.9	1288	22.5	3066	51.7	5088	90.8	7764	160.5	10026	238.0	10552	320.0	8924	383.2	6346	390.6	3668	329.5	1218	233.3
1973	21	0.1	12	0.1	29	0.4	112	1.7	487	8.8	1174	20.8	2982	51.6	5234	92.0	7782	159.9	10348	242.1	10996	324.4	9207	389.3	6346	394.4	3249	338.1	1385	257.4
1974	14	0.0	11	0.1	28	0.3	119	1.8	423	7.5	1220	21.9	3065	52.8	5523	96.3	7984	161.9	10777	248.5	11351	326.1	9588	387.8	6732	416.3	3498	361.4	1519	268.8
1975	13	0.0	15	0.2	37	0.4	129	1.8	391	6.9	1171	21.3	2968	52.0	5565	97.0	7994	158.2	10873	251.2	11910	331.2	10392	417.5	6841	413.9	3788	386.1	1645	276.6
1976	12	0.0	19	0.2	27	0.3	117	1.6	382	6.5	1167	21.3	2957	52.3	5805	97.9	8378	162.4	11208	253.9	12324	335.3	10675	427.0	7387	438.8	4017	398.5	1830	302.0
1977	12	0.0	12	0.1	41	0.4	133	1.7	410	6.8	1107	20.1	2889	51.7	5737	101.0	8542	161.1	11420	256.6	12896	343.5	11407	440.3	7904	464.4	4200	413.0	2008	320.3
1978	11	0.0	10	0.1	30	0.3	130	1.6	403	6.3	1091	19.6	2758	50.0	5911	104.5	9041	167.3	11824	263.0	13289	348.1	12042	449.7	7965	451.8	4550	453.6	2182	336.2
1979	9	0.0	9	0.1	36	0.4	113	1.3	373	5.6	1125	19.9	2712	49.8	5745	102.2	9110	166.5	12148	265.9	13828	356.2	12244	442.7	8556	468.8	4670	465.1	2375	351.3
1980	12	0.0	16	0.2	39	0.4	109	1.3	401	5.8	1102	19.3	2883	49.8	5714	101.7	9389	171.3	12355	264.6	14268	365.6	13108	459.3	9215	498.6	4857	476.6	2522	368.8
1981	10	0.0	13	0.1	29	0.3	114	1.2	423	6.0	1113	18.9	2825	49.1	5720	102.5	9440	173.4	12420	258.4	14609	389.3	13279	452.7	9473	495.7	5001	477.2	2746	391.7
1982	18	0.0	12	0.1	33	0.3	121	1.3	414	5.4	1030	16.9	2588	47.8	5497	99.9	9354	173.3	13092	266.7	14960	373.5	13941	465.0	10155	517.1	5332	496.5	2971	414.4
1983	19	0.1	16	0.1	31	0.3	99	1.0	413	5.2	1100	17.1	2441	44.6	5238	97.3	9488	175.2	12914	261.0	15059	370.2	14483	472.0	10602	523.1	5794	525.8	3011	411.3
1984	26	0.1	13	0.1	43	0.4	98	1.0	397	4.8	1090	16.3	2479	44.4	5111	96.6	9644	179.7	13490	269.0	15275	371.4	14882	478.2	11049	533.0	6009	531.3	3198	428.1
1985	7	0.0	9	0.1	41	0.4	113	1.1	413	4.8	1150	16.6	2441	43.0	4945	94.3	9457	177.5	13830	273.5	15582	372.8	15082	476.9	11537	541.0	6260	538.3	3311	435.1
1986	6	0.0	16	0.2	38	0.3	124	1.2	333	3.8	1144	16.2	2406	41.4	4940	94.7	9154	172.9	13808	274.7	15923	372.1	15347	480.2	11939	546.4	6600	550.9	3550	455.7
1987	6	0.0	9	0.1	39	0.4	139	1.3	408	4.4	1089	14.2	2517	41.8	4899	93.6	9091	174.0	13879	278.1	16459	376.6	16029	494.1	12284	547.4	6867	564.8	3749	463.8
1988	8	0.0	7	0.1	25	0.2	141	1.3	408	4.3	1161	14.6	2472	38.9	4880	91.5	8776	171.6	13892	277.8	16580	376.3	16059	483.4	12895	552.0	7383	578.5	3884	478.5
1989	15	0.0	7	0.1	31	0.3	113	1.0	412	4.3	1094	13.1	2558	38.9	4837	88.9	8549	169.9	13860	275.1	16888	378.4	16422	489.0	13069	554.9	7644	577.8	4078	490.7
1990	9	0.0	11	0.1	38	0.4	155	1.4	429	4.4	1152	13.3	2381	38.3	4748	86.4	8470	169.1	13792	278.8	17361	385.1	16812	494.5	13630	570.5	7928	584.7	4342	516.3
1991	11	0.0	8	0.1	29	0.3	113	1.0	421	4.1	1127	12.2	2382	37.4	4640	82.0	8145	163.4	13411	271.3	17449	388.5	17103	483.3	13766	553.7	8675	608.0	4666	526.0
1992	7	0.0	12	0.1	17	0.2	118	1.1	431	4.1	1144	12.3	2381	34.2	4760	81.3	7833	156.0	12814	262.1	17364	388.1	17157	483.9	14077	552.0	8708	598.5	4749	514.0
1993	9	0.0	9	0.1	23	0.2	136	1.2	454	4.2	1116	11.8	2529	32.3	4706	76.1	7915	154.7	12678	264.0	17305	384.0	17749	476.0	14213	546.2	8890	596.3	5059	524.8
1994	8	0.0	8	0.1	25	0.3	119	1.1	431	3.9	1110	11.4	2409	29.4	4771	74.4	7540	143.9	12231	258.3	16923	376.0	17865	472.2	14269	535.8	9238	593.7	5227	521.1
1995	16	0.0	9	0.1	22	0.2	133	1.2	402	3.6	1085	10.9	2452	28.6	4701	70.9	7412	139.5	11474	242.9	16489	365.9	18418	479.8	14592	534.7	9414	562.5	5559	532.0
1996	*	**	7	0.1	22	0.2	126	1.2	441	3.9	1129	11.0	2530	28.0	4738	70.0	7349	134.9	11139	236.6	16152	338.1	18058	472.1	14842	524.6	9822	567.8	5595	515.2
1997	5	0.0	6	0.1	27	0.3	99	1.0	383	3.4	1167	11.0	2378	26.3	4674	63.4	7221	128.0	10875	229.2	15631	349.9	17902	469.0	15417	527.1	9831	571.6	6070	536.2
1998	5	0.0	18	0.2	24	0.3	87	0.9	361	3.2	1182	10.9	2368	25.6	4552	59.5	7472	125.5	10772	222.2	14984	341.2	18266	473.7	15585	520.2	9884	586.0	6114	515.1

^a Rates are per 100,000.
^b Rates cannot be calculated for 75-79, 80-84, and 85+ because population data are only available for 75+ from 1930 to 1939.
* Number of deaths is fewer than 5.
** Rate is not calculated since number of deaths is fewer than 5.

Source: Vital Statistics of the United States [ref. 10-14]; see also *Cautions in the Interpretations of Long-Term Trends Data*.

Article continues on next page.

TABLE 24
Average Annual Percent Change in Death Rates for Cancer of the Lung, Bronchus, Trachea, and Pleura, by Gender and Age at Death, 1930-1998, United States

Age	1930-39	1940-49	1950-59	1960-69	1970-79	1980-89	1990-98
Males							
0-19	2.2	-5.0	-6.1*	1.9	-9.2*	-5.6	-9.3
20-24	-1.2	-3.1	-6.7	1.7	-7.8*	-6.9*	1.4
25-29	1.8	-2.7	0.6	-3.8	-3.2	-2.2	-0.9
30-34	5.9*	0.2	4.4*	-0.7	-4.2*	-0.3	-3.2
35-39	6.4*	3.8*	4.1*	3.7*	-3.9*	-4.1*	-3.4*
40-44	8.1*	4.1*	3.7*	4.4*	-1.7*	-3.8*	-2.3*
45-49	10.8*	4.8*	3.4*	3.6*	0.4	-2.9*	-5.2*
50-54	11.5*	7.3*	4.0*	2.8*	1.9*	-1.5*	-4.3*
55-59	12.8*	8.7*	4.7*	2.9*	0.7*	-0.1	-3.8*
60-64	11.2*	9.4*	6.2*	3.2*	1.8*	0.8*	-2.8*
65-69	11.2*	9.5*	7.9*	4.2*	1.5*	0.3*	-1.7*
70-74	9.4*	10.3*	7.8*	5.7*	3.0*	0.9*	-0.4
75-79 ^a		9.6*	7.4*	7.5*	3.2*	1.3*	-1.1*
80-84 ^a		10.3*	7.7*	6.9*	5.0*	2.4*	-0.6*
85+ ^a		11.4*	6.4*	6.7*	5.5*	3.0*	0.1
Age	1930-39	1940-49	1950-59	1960-69	1970-79	1980-89	1990-98
Females							
0-19	2.1	-5.5	-6.1	3.1	-7.7	-2.0	1.0
20-24	-2.6	-5.4	-9.8	12.6*	-1.9	6.5	-4.2
25-29	2.8	-1.6	1.6	1.0	1.0	3.0	-2.3
30-34	4.8*	0.4	2.3*	2.8	-1.2	0.0	0.3
35-39	1.5	1.9	5.0*	6.1*	-0.8	-3.5*	0.4
40-44	3.5*	0.7	4.5*	6.7*	2.7*	-2.0*	-0.1
45-49	4.7*	1.8	4.7*	8.0*	4.3*	-0.6	-4.2*
50-54	5.9*	1.7	3.3*	9.0*	4.9*	1.3*	-2.8*
55-59	5.5*	2.6*	1.9*	9.5*	5.7*	2.9*	-1.6*
60-64	3.5*	2.3*	0.8	7.4*	8.6*	4.4*	0.0
65-69	6.0*	3.8*	1.3*	6.9*	8.6*	5.0*	1.3*
70-74	6.4*	4.6*	0.1	5.6*	8.1*	6.8*	2.7*
75-79 ^a		8.6*	0.2	4.6*	6.0*	7.7*	3.0*
80-84 ^a		8.5*	1.5*	4.0*	5.4*	6.9*	5.1*
85+ ^a		9.5*	2.1*	3.7*	4.0*	4.2*	4.7*

* Average annual percent change is significantly different from zero ($p < 0.05$).

^a Rates cannot be calculated for 75-79, 80-84, and 85+ because population data are only available for 75+ from 1930 to 1939.

Source: Vital Statistics of the United States [ref. 10-14]; see also *Cautions in the Interpretations of Long-Term Trends Data*.

TABLE 25
Female Deaths and Death Rates* for Cancer of the Lung, Bronchus, Trachea, and Pleura, by Age at and Year of Death, 1930-1998, United States

Year	0-19		20-24		25-29		30-34		35-39		40-44		45-49		50-54		55-59		60-64		65-69		70-74		75-79 ^b		80-84 ^b		85+ ^b	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate
1930	33	0.1	16	0.3	24	0.5	29	0.7	40	0.9	82	2.2	80	2.5	113	4.1	145	6.7	166	9.4	141	10.7	83	8.9	-	-	-	-	-	-
1931	32	0.1	18	0.3	27	0.6	30	0.7	51	1.2	78	2.0	125	3.8	129	4.6	144	6.4	157	8.7	128	9.4	96	10.0	-	-	-	-	-	-
1932	26	0.1	16	0.3	11	0.2	25	0.6	51	1.2	81	2.1	95	2.8	143	5.0	149	6.4	166	9.0	157	11.2	126	12.8	-	-	-	-	-	-
1933	27	0.1	11	0.2	25	0.5	34	0.7	65	1.5	95	2.3	110	3.1	144	4.8	164	6.6	183	9.3	159	10.6	137	13.1	-	-	-	-	-	-
1934	24	0.1	17	0.3	21	0.4	32	0.7	63	1.4	97	2.3	136	3.8	149	4.8	189	7.4	198	9.7	168	10.8	143	13.3	-	-	-	-	-	-
1935	40	0.2	11	0.2	24	0.4	27	0.6	63	1.4	100	2.3	148	4.0	189	6.0	211	8.0	220	10.5	220	13.8	155	14.1	-	-	-	-	-	-
1936	43	0.2	14	0.2	25	0.5	45	0.9	72	1.6	106	2.5	151	4.0	193	6.1	247	9.2	234	10.8	224	13.6	210	18.5	-	-	-	-	-	-
1937	36	0.2	20	0.3	27	0.5	45	0.9	56	1.2	109	2.5	142	3.7	213	6.5	244	9.0	241	10.8	229	13.4	182	15.5	-	-	-	-	-	-
1938	30	0.1	14	0.2	30	0.5	46	0.9	58	1.2	133	3.1	168	4.2	221	6.6	265	9.6	259	11.4	266	16.2	190	15.6	-	-	-	-	-	-
1939	35	0.2	13	0.2	31	0.6	47	0.9	53	1.1	113	2.6	167	4.2	233	6.8	266	9.5	284	12.3	301	16.4	196	15.6	-	-	-	-	-	-
1940	41	0.2	19	0.3	23	0.4	28	0.5	59	1.2	95	2.2	189	4.7	240	6.8	273	9.5	332	14.1	281	14.8	246	18.8	123	15.6	57	13.6	22	10.4
1941	27	0.1	15	0.3	25	0.4	37	0.7	72	1.5	121	2.7	195	4.7	251	7.0	311	10.6	338	13.9	329	16.8	249	18.5	171	21.1	92	21.3	28	12.7
1942	28	0.1	16	0.3	21	0.4	50	0.9	73	1.5	139	3.1	196	4.7	252	6.9	310	10.3	334	13.4	358	17.7	288	20.6	164	19.5	81	18.1	37	16.1
1943	34	0.2	22	0.4	27	0.5	37	0.7	81	1.6	128	2.8	218	5.1	315	8.5	350	11.4	379	14.8	385	18.5	316	21.9	183	21.0	71	15.4	26	10.9
1944	33	0.1	24	0.4	24	0.4	50	0.9	93	1.8	158	3.4	206	4.8	294	7.5	388	12.3	407	15.4	396	18.5	335	22.5	190	21.0	85	18.0	37	15.0
1945	40	0.2	21	0.4	29	0.5	46	0.8	110	2.1	151	3.2	223	5.3	303	7.9	414	12.8	457	16.9	417	18.9	348	22.6	216	23.0	104	21.1	32	12.3
1946	41	0.2	19	0.3	64	1.1	99	1.9	128	2.6	218	4.9	316	8.1	421	12.8	453	16.3	452	16.3	452	18.9	392	24.7	255	26.1	119	23.0	49	18.0
1947	30	0.1	16	0.3	27	0.4	35	0.6	93	1.7	124	2.5	261	5.8	350	8.8	447	13.2	456	16.2	466	21.2	447	27.3	356	35.0	155	28.3	66	23.0
1948	34	0.1	16	0.3	38	0.6	59	1.0	121	2.2	146	2.9	271	6.0	350	8.7	447	12.9	532	18.2	579	24.0	475	28.1	360	34.1	190	32.9	64	21.1
1949	13	0.1	7	0.1	15	0.2	27	0.5	61	1.1	135	2.7	214	4.7	287	7.0	387	10.9	449	15.0	482	19.8	445	25.5	358	32.5	178	29.2	85	26.3
1950	18	0.1	5	0.1	16	0.3	43	0.7	69	1.2	138	2.7	205	4.5	302	7.3	394	10.9	513	16.9	519	20.0	488	27.2	371	32.3	212	33.1	96	27.7
1951	12	0.0	15	0.3	16	0.3	36	0.6	75	1.3	155	3.0	217	4.7	346	8.3	420	11.3	470	15.1	514	19.2	491	26.4	395	32.9	231	34.8	110	30.0
1952	15	0.1	12	0.2	12	0.2	38	0.6	89	1.5	144	2.7	236	4.9	327	7.8	433	11.4	543	16.8	572	20.9	574	29.7	433	34.7	221	32.1	110	28.5
1953	10	0.0	8	0.1	18	0.3	42	0.7	87	1.5	173	3.2	254	5.2	325	7.6	424	11.1	511	15.4	571	20.3	560	27.8	425	32.8	234	32.7	118	28.1
1954	12	0.0	6	0.1	14	0.2	43	0.7	91	1.5	158	2.9	258	5.2	357	8.2	459	11.7	568	16.2	633	22.1	577	26.3	471	33.8	270	34.5	136	31.5
1955	17	0.1	12	0.2	22	0.4	41	0.6	102	1.7	171	3.1	267	5.2	357	8.2	459	11.7	568	16.2	633	22.1	577	26.3	471	33.8	270	34.5	136	31.5
1956	11	0.0	6	0.1	15	0.3	47	0.7	108	1.8	186	3.3	313	6.0	369	8.3	490	12.3	631	17.6	688	22.1	607	26.7	472	32.7	294	35.9	146	30.9
1957	14	0.0	5	0.1	12	0.2	51	0.8	102	1.6	206	3.6	297	5.6	428	9.4	483	11.9	593	16.3	682	21.3	657	28.0	506	33.8	300	35.4	171	34.5
1958	18	0.1	*	*	12	0.2	47	0.8	126	2.0	228	3.9	339	6.6	451	9.6	499	12.1	603	16.5	704	22.1	674	27.9	532	35.3	325	37.2	188	36.4
1959	7	0.0	5	0.1	21	0.4	47	0.8	119	1.9	234	4.0	391	7.2	489	10.7	577	13.7	643	17.4	700	21.5	692	27.7	532	32.4	341	38.0	168	30.9
1960	11	0.0	*	*	14	0.3	47	0.8	121	1.9	270	4.6	432	7.8	521	10.7	577	13.4	657	17.6	732	22.0	704	27.6	493	29.1	362	39.6	220	38.8
1961	9	0.0	5	0.1	11	0.2	46	0.8	138	2.2	289	4.8	437	7.8	584	11.6	692	15.6	726	19.3	812	23.8	747	28.0	617	34.8	369	37.8	233	38.4
1962	16	0.0	*	*	15	0.3	41	0.7	147	2.3	298	4.8	493	8.8	636	12.4	717	15.7	836	22.0	844	24.4	753	27.3	646	35.2	373	36.3	244	40.1
1963	7	0.0	5	0.1	13	0.2	59	1.0	165	2.6	355	5.7	554	9.7	725	13.9	806	17.2	838	22.3	888	25.7	833	29.2	661	35.0	377	35.1	271	43.2
1964	10	0.0	*	*	16	0.3	49	0.9	158	2.5	373	5.9	543	9.4	783	14.8	881	18.3	893	22.9	900	25.5	889	30.4	702	36.0	474	42.1	253	38.7
1965	10	0.0	8	0.1	10	0.2	55	1.0	165	2.7	387	6.1	671	11.5	880	16.4	976	19.8	977	24.5	1017	28.4	980	32.8	725	36.0	444	37.8	299	43.7
1966	8	0.0	7	0.1	14	0.2	48	0.8	164	2.8	429	6.8	691	11.7	926	17.1	1100	24.0	1084	26.5	1109	30.6	1003	33.1	823	39.6	526	43.0	364	50.7
1967	11	0.0	9	0.1	13	0.2	47	0.8	164	2.8	429	6.8	691	11.7	926	17.1	1100	24.0	1084	26.5	1109	30.6	1003	33.1	823	39.6	526	43.0	364	50.7
1968	11	0.0	9	0.1	13	0.2	47	0.8	164	2.8	429	6.8	691	11.7	926	17.1	1100	24.0	1084	26.5	1109	30.6	1003	33.1	823	39.6	526	43.0	364	50.7
1969	20	0.1	7	0.1	14	0.2	48	0.8	197	3.4	505	8.0	825	13.4	1252	22.4	1415	27.6	1439	32.9	1439	38.6	1252	40.6	1061	47.9	716	54.4	447	55.9
1970	15	0.0	16	0.2	23	0.3	64	1.1	198	3.5	469	7.9	948	15.2	1300	22.9	1695	32.8	1393	35.4	1555	40.9	1396	45.0	1055	46.5	887	50.4	438	51.7

(continued)

TABLE 25
(continued)

Year	0-19		20-24		25-29		30-34		35-39		40-44		45-49		50-54		55-59		60-64		65-69		70-74		75-79 ^b		80-84 ^b		85+ ^b	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate
1970	12	0.0	8	0.1	17	0.2	53	0.9	232	4.1	499	8.1	1013	16.2	1519	26.4	1828	35.1	1792	39.0	1638	42.3	1400	44.7	1186	52.1	761	54.0	491	53.4
1971	13	0.0	10	0.1	13	0.2	71	1.2	190	3.4	549	9.1	1088	17.5	1677	28.4	1949	37.0	1986	41.9	1864	47.0	1633	51.3	1289	54.6	829	55.3	588	60.2
1972	12	0.0	6	0.1	18	0.2	62	1.0	212	3.7	596	10.0	1086	17.5	1916	31.7	2208	41.5	2206	45.5	2094	51.0	1786	56.0	1286	53.3	922	58.6	594	58.2
1973	14	0.0	8	0.1	22	0.3	74	1.1	211	3.7	534	9.1	1231	19.9	1751	28.4	2314	43.2	2483	50.4	2287	53.9	1839	56.7	1470	59.9	956	58.0	643	60.1
1974	8	0.0	9	0.1	17	0.2	72	1.0	196	3.4	561	9.7	1239	20.3	1876	30.2	2563	47.0	2827	56.6	2573	58.7	2055	62.2	1389	63.3	1016	60.2	745	65.3
1975	*	**	7	0.1	21	0.2	59	0.8	216	3.6	603	10.6	1281	21.1	2016	32.3	2742	49.0	3077	61.2	2854	62.9	2234	66.8	1629	62.8	1147	66.3	839	68.4
1976	8	0.0	9	0.1	29	0.3	76	1.0	217	3.6	569	10.0	1287	21.6	2204	35.3	2905	50.7	3383	66.5	3245	69.9	2542	74.3	1929	72.4	1247	69.6	933	72.3
1977	9	0.0	*	**	26	0.3	75	0.9	241	3.8	644	11.3	1321	22.4	2336	37.7	3092	52.5	3646	71.0	3557	75.1	2797	78.6	2046	75.4	1311	71.6	1005	73.6
1978	7	0.0	7	0.1	22	0.2	83	1.0	230	3.5	622	10.8	1389	23.4	2468	40.1	3385	56.2	3920	75.5	4040	84.0	3171	85.9	2301	81.9	1480	80.5	1072	74.3
1979	6	0.0	14	0.1	20	0.2	75	0.9	235	3.4	608	10.3	1383	23.6	2471	40.5	3331	57.8	4187	79.0	4563	89.7	3567	93.2	2496	86.1	1637	87.5	1155	75.9
1980	8	0.0	*	**	20	0.2	69	0.8	235	3.3	623	10.5	1351	23.7	2623	43.1	3772	61.5	4563	84.2	4836	101.1	4154	105.3	2921	99.2	1681	87.7	1446	92.8
1981	8	0.0	5	0.0	17	0.2	71	0.8	274	3.8	593	9.7	1349	23.9	2549	42.4	4037	66.1	4820	86.8	5283	106.9	4461	109.9	3065	101.6	1863	94.3	1456	88.3
1982	11	0.0	6	0.1	23	0.2	78	0.8	282	3.3	642	10.1	1388	24.2	2589	43.8	4208	68.4	5363	94.8	5720	114.4	4942	119.2	3406	108.7	2066	101.7	1586	92.8
1983	6	0.0	9	0.1	20	0.2	80	0.8	274	3.3	693	10.3	1360	23.7	2659	46.1	4456	73.6	5621	98.5	6149	121.5	5584	132.1	3798	118.0	2364	113.1	1699	95.1
1984	7	0.0	6	0.1	18	0.2	78	0.8	272	3.2	620	8.9	1447	24.8	2602	45.9	4456	74.5	5865	101.3	6445	128.3	5854	136.1	4229	128.1	2521	117.2	1825	96.8
1985	11	0.0	8	0.1	27	0.2	92	0.9	257	2.9	648	9.0	1403	23.6	2660	47.4	4464	75.6	6380	109.1	6947	134.6	6573	150.9	4648	137.4	2742	123.7	1918	100.6
1986	5	0.0	5	0.0	22	0.2	79	0.8	270	2.9	693	9.5	1386	22.8	2627	47.2	4488	76.8	6323	108.4	7313	138.9	7073	160.9	5138	148.5	2940	126.7	2190	111.6
1987	8	0.0	5	0.1	26	0.2	77	0.7	246	2.6	754	9.5	1447	23.1	2679	48.1	4438	77.6	6645	114.7	7816	145.7	7344	165.1	5788	163.6	3205	136.0	2332	115.2
1988	6	0.0	9	0.1	23	0.2	88	0.8	267	2.8	707	8.6	1590	24.1	2662	47.0	4527	80.7	6991	120.7	8102	149.6	7899	175.5	6065	168.9	3761	155.0	2587	124.7
1989	8	0.0	6	0.1	28	0.3	85	0.8	259	2.6	716	8.3	1519	22.2	2747	47.6	4511	82.0	7084	123.7	8737	159.0	8628	189.9	7011	190.9	4176	165.1	2722	127.4
1990	8	0.0	*	**	27	0.3	86	0.8	286	3.0	693	7.8	1807	22.9	2826	48.5	4519	82.5	7215	127.0	9854	162.9	8989	196.2	7475	201.3	4485	174.8	3021	138.5
1991	7	0.0	5	0.1	26	0.3	103	0.9	302	2.9	746	7.9	1573	21.9	2762	46.1	4518	83.1	7086	124.8	9526	180.5	9318	198.0	8081	212.9	4948	188.1	3409	148.1
1992	5	0.0	13	0.1	25	0.2	95	0.9	327	3.1	747	7.8	1627	20.8	2802	45.2	4506	82.5	7156	129.0	9561	173.8	10224	212.2	8455	219.7	5425	202.0	3674	153.7
1993	7	0.0	7	0.1	15	0.2	98	0.9	294	2.6	702	7.2	1685	20.8	2842	43.4	4517	80.2	7034	129.4	9751	177.1	10586	216.6	8867	228.5	3016	211.6	4174	168.2
1994	10	0.0	5	0.1	15	0.2	99	0.9	312	2.8	684	6.9	1622	19.1	2916	43.0	4571	80.3	7391	127.1	9850	182.0	10860	219.6	9351	236.8	6310	225.1	4268	163.7
1995	8	0.0	5	0.1	18	0.2	102	0.9	346	3.1	726	7.1	1686	19.0	2987	42.6	4533	78.9	6836	128.4	9694	178.9	11281	226.0	9699	244.2	6707	234.3	4788	181.4
1996	7	0.0	*	**	18	0.2	98	0.9	337	3.0	780	7.4	1625	17.3	3046	42.5	4468	75.6	6735	127.3	9786	181.6	11443	230.5	9988	246.1	7139	245.8	5009	184.9
1997	6	0.0	*	**	26	0.3	79	0.8	355	3.1	851	7.9	1584	16.6	3056	39.2	4641	75.9	6827	124.7	9628	181.3	11866	237.0	10601	255.0	7431	252.7	5488	197.3
1998	10	0.0	*	**	17	0.2	93	0.9	331	2.9	870	7.9	1803	16.7	2998	37.1	4705	73.0	6888	127.4	9491	182.6	11970	242.2	10781	255.5	7748	261.1	5678	198.4

^a Rates are per 100,000.^b Rates cannot be calculated for 75-79, 80-84, and 85+ because population data are only available for 75+ from 1930 to 1939.

* Number of deaths is fewer than 5.

** Rate is not calculated since number of deaths is fewer than 5.

Source: Vital Statistics of the United States [ref. 10-14]; see also *Cautions in the Interpretations of Long-Term Trends Data*.

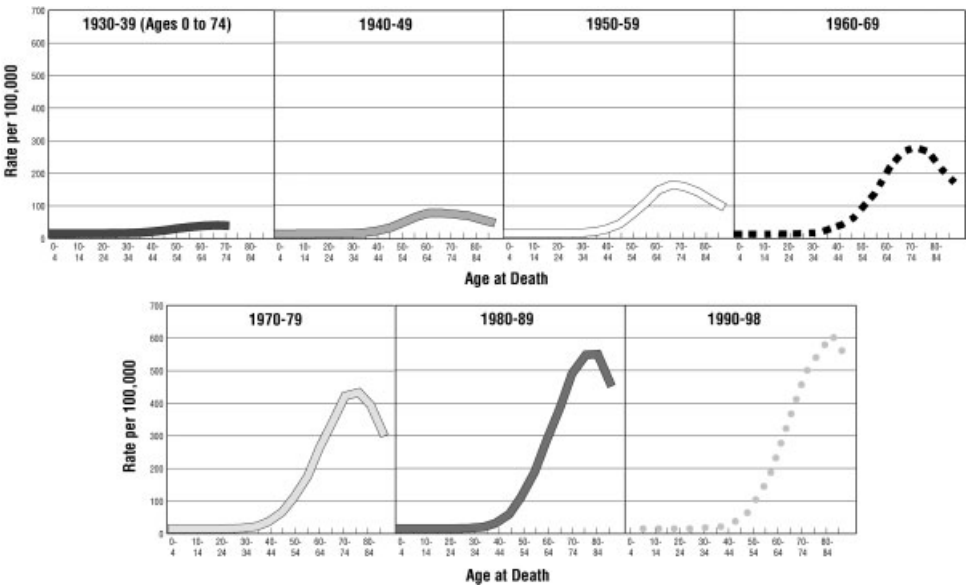


FIGURE 42. Male age-specific death rates for cancer of the lung, bronchus, trachea, and pleura, separated by age at and decade of death, 1930–1998, United States. Source: *Vital Statistics of the United States*^{10–14}; see also the section entitled “Cautions in the Interpretation of Long-Term Trends Data” in the current article.

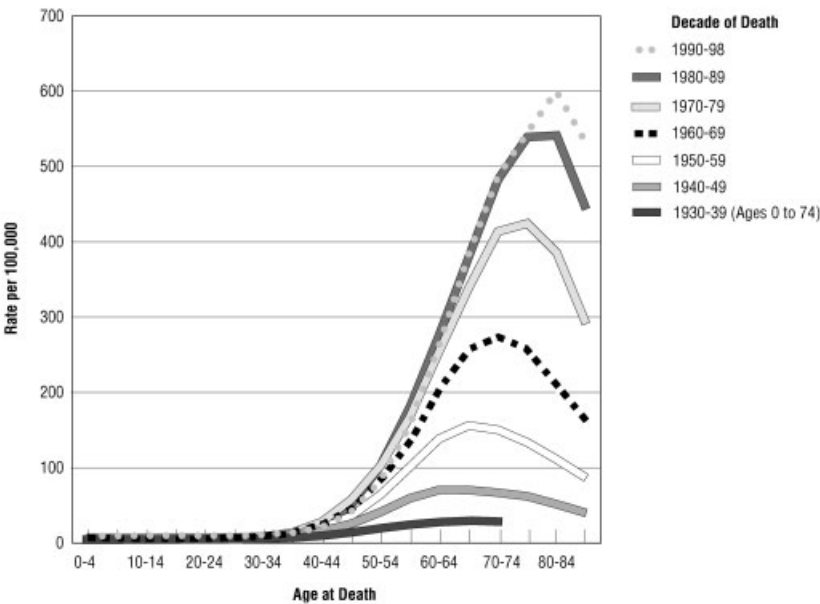


FIGURE 43. Male age-specific death rates for cancer of the lung, bronchus, trachea, and pleura, by age at and decade of death, 1930–1998, United States. Source: *Vital Statistics of the United States*^{10–14}; see also the section entitled “Cautions in the Interpretation of Long-Term Trends Data” in the current article.

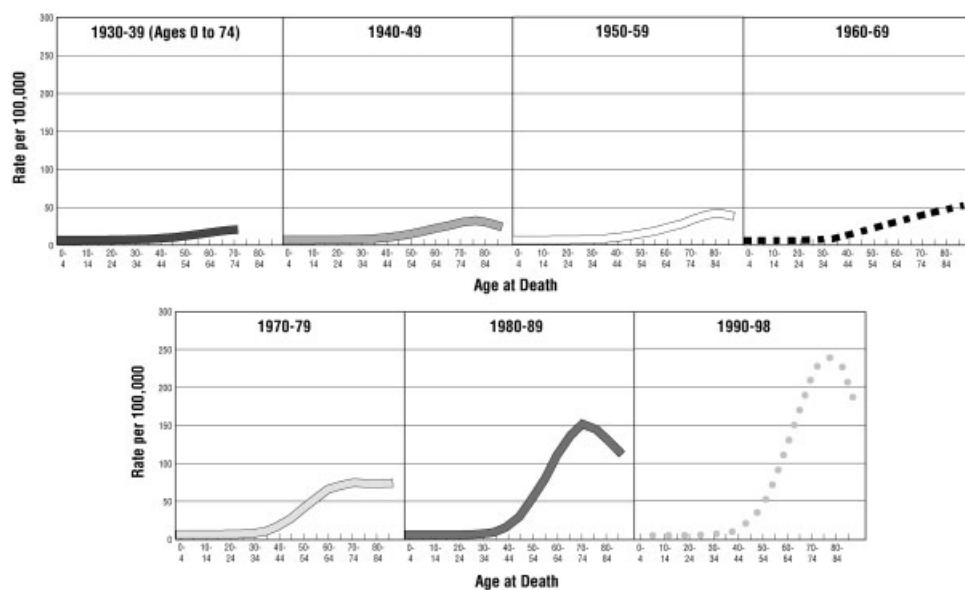


FIGURE 44. Female age-specific death rates for cancer of the lung, bronchus, trachea, and pleura, separated by age at and decade of death, 1930–1998, United States. Source: *Vital Statistics of the United States*^{10–14}; see also the section entitled “Cautions in the Interpretation of Long-Term Trends Data” in the current article.

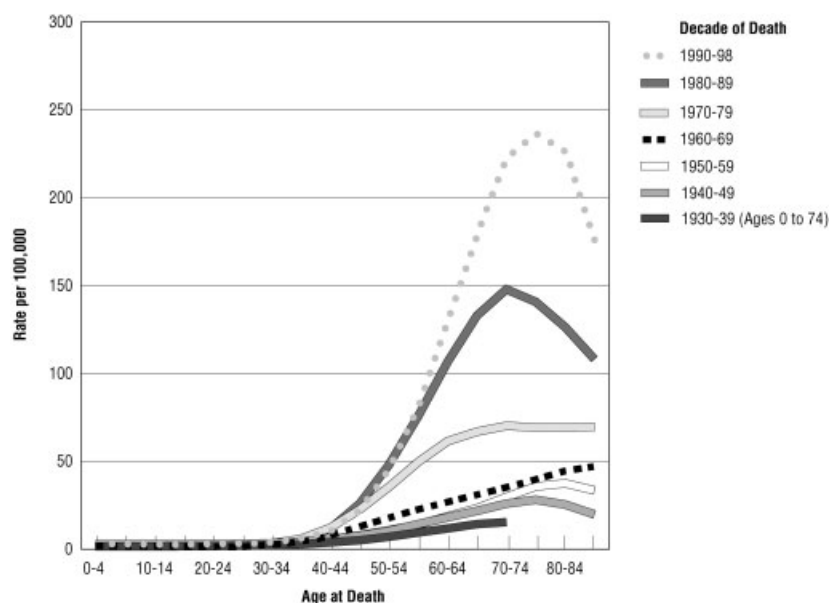


FIGURE 45. Female age-specific death rates for cancer of the lung, bronchus, trachea, and pleura, by age at and decade of death, 1930–1998, United States. Source: *Vital Statistics of the United States*^{10–14}; see also the section entitled “Cautions in the Interpretation of Long-Term Trends Data” in the current article.

TABLE 26
Female Deaths and Death Rates for Cancer of the Ovary, Fallopian
Tube, and Broad Ligament, by Year of Death, 1930-1998, United
States

Year	Number		Rate	
		Crude	1970 ^a	2000 ^b
1930	1,815	3.1	3.8	4.4
1931	2,030	3.5	4.2	4.8
1932	2,148	3.7	4.4	5.0
1933	2,304	3.7	4.4	5.0
1934	2,676	4.3	5.0	5.7
1935	2,795	4.4	5.2	5.9
1936	2,941	4.6	5.3	6.1
1937	3,018	4.7	5.4	6.2
1938	3,312	5.1	5.8	6.7
1939	3,554	5.5	6.1	7.1
1940	3,697	5.6	6.2	7.0
1941	3,961	6.0	6.5	7.4
1942	4,000	5.9	6.4	7.3
1943	3,997	5.9	6.3	7.2
1944	4,229	6.1	6.5	7.4
1945	4,386	6.3	6.6	7.5
1946	4,696	6.6	6.9	8.0
1947	5,059	7.0	7.3	8.3
1948	5,326	7.2	7.6	8.7
1949	5,528	7.4	7.7	8.8
1950	5,652	7.4	7.7	8.9
1951	5,927	7.6	7.9	9.1
1952	6,277	8.0	8.2	9.5
1953	6,483	8.1	8.2	9.6
1954	6,838	8.4	8.5	9.9
1955	7,060	8.5	8.6	10.0
1956	7,240	8.5	8.6	10.0
1957	7,567	8.8	8.8	10.2
1958	7,579	8.6	8.6	10.1
1959	7,901	8.8	8.8	10.2
1960	8,046	8.8	8.8	10.2
1961	8,116	8.7	8.6	10.0
1962	8,340	8.8	8.7	10.2
1963	8,507	8.9	8.7	10.1
1964	8,571	8.8	8.6	10.0
1965	8,933	9.1	8.8	10.3
1966	9,163	9.2	8.9	10.3
1967	9,168	9.1	8.7	10.1
1968	9,489	9.3	8.8	10.3
1969	9,788	9.5	9.0	10.5
1970	9,958	9.5	9.0	10.5
1971	9,978	9.4	8.8	10.2
1972	10,170	9.5	8.8	10.3
1973	10,002	9.2	8.5	9.9
1974	10,335	9.4	8.6	10.1
1975	10,465	9.5	8.5	10.0
1976	10,870	9.7	8.7	10.2
1977	10,653	9.4	8.3	9.7
1978	10,803	9.5	8.3	9.7
1979	10,721	9.3	8.0	9.5
1980	10,895	9.4	8.0	9.5
1981	11,006	9.3	7.9	9.4
1982	11,255	9.5	7.9	9.4
1983	11,375	9.5	7.9	9.3
1984	11,373	9.4	7.8	9.2
1985	11,531	9.4	7.8	9.2

(continued)

TABLE 26
(continued)

Year	Number	Rate		
		Crude	1970 ^a	2000 ^b
1986	11,903	9.7	7.9	9.4
1987	12,020	9.7	7.8	9.3
1988	12,397	9.9	7.9	9.4
1989	12,431	9.8	7.8	9.3
1990	12,762	10.0	7.9	9.5
1991	13,247	10.3	8.1	9.7
1992	13,393	10.3	8.0	9.6
1993	13,033	9.9	7.6	9.2
1994	13,677	10.3	7.9	9.6
1995	13,524	10.1	7.7	9.3
1996	13,342	9.8	7.5	9.1
1997	13,673	10.0	7.5	9.2
1998	13,544	9.8	7.3	8.9

^a Rates are per 100,000 and are age-adjusted to the 1970 U.S. standard population.

^b Rates are per 100,000 and are age-adjusted to the 2000 U.S. standard population.

Source: Vital Statistics of the United States [ref. 10-14]; see also *Cautions in the Interpretations of Long-Term Trends Data*.

TABLE 27
Female Deaths and Death Rates* for Cancer of the Ovary, Fallopian Tube, and Broad Ligament, by Age at and Year of Death, 1930-1998, United States

Year	0-19		20-24		25-29		30-34		35-39		40-44		45-49		50-54		55-59		60-64		65-69		70-74		75-79 ^b		80-84 ^b		85+ ^b	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate
1930	37	0.2	20	0.4	44	0.9	52	1.2	107	2.5	197	5.3	233	7.8	255	9.2	267	12.3	227	12.9	173	13.1	101	10.8	-	-	-	-	-	-
1931	38	0.2	29	0.5	37	0.8	66	1.5	132	3.1	207	5.4	284	8.6	317	11.2	278	12.4	235	13.0	204	15.0	120	12.5	-	-	-	-	-	-
1932	31	0.1	32	0.6	34	0.7	60	1.4	125	2.9	215	5.5	320	9.6	291	10.2	324	13.9	273	14.8	181	12.9	149	15.1	-	-	-	-	-	-
1933	41	0.2	30	0.5	49	0.9	57	1.2	141	3.2	214	5.1	310	8.8	378	12.5	341	13.6	286	14.5	209	13.9	142	13.6	-	-	-	-	-	-
1934	28	0.1	23	0.4	57	1.1	80	1.7	169	3.8	263	6.2	377	10.4	421	13.7	390	15.2	315	15.5	268	17.3	166	15.5	-	-	-	-	-	-
1935	44	0.2	33	0.6	49	0.9	86	1.8	133	3.0	275	6.4	358	9.6	405	12.9	405	15.4	384	18.2	287	17.9	170	15.4	-	-	-	-	-	-
1936	43	0.2	32	0.6	54	1.0	76	1.5	166	3.7	264	6.1	400	10.5	429	13.5	423	15.8	378	17.4	305	18.5	186	16.3	-	-	-	-	-	-
1937	34	0.2	32	0.6	45	0.8	81	1.6	164	3.6	288	6.7	356	9.2	450	13.8	459	16.9	382	17.1	319	18.7	222	18.9	-	-	-	-	-	-
1938	40	0.2	34	0.6	61	1.1	97	1.9	173	3.7	288	6.7	416	10.5	465	14.5	482	17.5	430	18.9	361	20.4	227	18.7	-	-	-	-	-	-
1939	36	0.2	28	0.5	58	1.0	113	2.2	175	3.7	302	7.0	480	12.0	523	15.2	499	17.8	437	18.9	376	20.5	269	21.4	-	-	-	-	-	-
1940	47	0.2	45	0.8	56	1.0	113	2.2	198	4.1	310	7.1	444	10.9	536	15.2	557	19.4	509	21.6	380	20.0	267	20.4	142	18.1	68	16.2	22	10.4
1941	47	0.2	32	0.5	53	0.9	108	2.0	175	3.6	346	7.8	532	12.9	600	16.7	559	19.0	520	21.4	434	22.2	305	22.6	150	18.5	73	16.9	27	12.3
1942	45	0.2	27	0.5	56	1.0	102	1.9	192	3.9	301	6.6	498	11.9	613	16.8	615	20.4	542	21.7	463	22.9	301	21.6	144	17.1	65	14.5	35	15.2
1943	51	0.2	42	0.7	53	0.9	85	1.6	182	3.6	335	7.3	536	11.9	590	15.9	570	18.5	562	21.9	401	19.3	301	20.9	163	18.7	77	16.7	29	12.1
1944	48	0.2	34	0.6	69	1.2	100	1.8	207	4.0	357	7.6	523	12.1	618	16.3	639	20.3	536	20.3	470	22.0	337	22.7	193	21.4	71	15.1	26	10.5
1945	47	0.2	50	0.8	56	0.9	106	1.9	198	3.8	364	7.7	539	12.3	654	17.0	689	20.8	572	21.1	483	22.3	307	19.9	208	22.2	87	17.7	34	13.1
1946	45	0.2	37	0.6	62	1.0	106	1.9	204	3.8	346	7.2	588	13.1	714	18.2	694	21.1	649	23.4	490	21.5	372	23.4	244	25.0	102	19.7	51	18.8
1947	40	0.2	43	0.7	60	1.0	138	2.4	206	3.8	372	7.6	588	13.4	755	19.0	748	22.1	720	25.3	601	25.7	400	24.4	227	22.3	103	18.8	46	16.0
1948	52	0.2	38	0.6	52	0.8	115	2.0	215	3.9	372	7.5	632	14.1	748	18.5	794	22.9	730	25.0	618	25.6	489	28.9	271	25.6	132	22.9	65	21.5
1949	50	0.2	32	0.5	44	0.7	102	1.7	240	4.3	391	7.7	618	13.6	748	18.2	878	24.6	737	24.6	681	27.8	480	27.5	336	30.5	129	21.1	51	15.8
1950	57	0.2	26	0.4	50	0.8	84	1.4	220	3.8	403	7.8	595	13.0	803	19.3	851	23.4	823	27.1	637	24.5	532	29.6	333	29.0	160	25.0	75	21.6
1951	49	0.2	30	0.5	57	0.9	106	1.8	209	3.6	426	8.1	645	13.9	815	19.5	876	23.5	738	25.6	756	28.3	549	29.5	356	29.6	185	27.9	66	18.0
1952	37	0.1	33	0.6	53	0.9	118	1.9	196	3.3	391	7.3	620	13.0	836	19.9	945	25.0	889	27.6	811	29.6	637	32.9	415	33.2	197	28.6	99	25.6
1953	34	0.1	28	0.5	40	0.7	100	1.6	217	3.7	448	8.3	630	12.9	887	20.8	915	23.9	962	28.9	815	29.0	651	32.4	435	33.6	228	31.8	90	22.2
1954	51	0.2	32	0.6	46	0.8	86	1.4	234	3.9	451	8.2	707	14.1	884	20.0	936	24.2	1012	28.7	817	30.2	722	34.3	457	34.0	273	36.5	96	22.4
1955	48	0.2	36	0.7	51	0.9	95	1.5	224	3.7	448	8.0	718	14.0	888	19.8	1006	25.5	1008	28.8	965	32.7	714	32.6	518	37.2	228	29.1	128	28.3
1956	44	0.1	26	0.5	46	0.8	109	1.7	211	3.5	418	7.4	708	13.6	958	21.5	994	24.9	1044	29.2	950	31.5	787	34.6	492	34.1	307	37.5	144	30.4
1957	60	0.2	26	0.5	60	1.0	98	1.6	212	3.4	418	7.3	757	14.3	1012	22.1	1076	26.6	1089	30.3	1017	32.7	782	33.3	503	33.4	288	34.0	155	31.3
1958	56	0.2	30	0.6	45	0.8	95	1.5	205	3.3	472	8.2	744	13.8	943	20.2	1046	25.3	1084	29.7	1025	32.1	811	33.5	545	34.8	328	37.6	149	28.8
1959	63	0.2	30	0.5	49	0.9	100	1.6	206	3.2	438	7.5	746	13.7	989	20.7	1096	25.9	1135	30.8	1112	34.1	863	34.5	569	34.7	332	37.0	173	31.8
1960	62	0.2	22	0.4	48	0.9	76	1.2	220	3.4	478	8.1	775	14.0	955	19.6	1133	26.3	1100	29.5	1124	33.8	956	37.4	628	37.1	320	35.0	149	26.3
1961	55	0.2	24	0.4	34	0.6	62	1.0	218	3.4	445	7.4	847	15.2	988	19.9	1086	23.4	1151	30.5	1198	35.2	943	35.3	613	34.6	303	31.0	188	31.8
1962	72	0.2	26	0.4	43	0.8	89	1.5	221	3.5	458	7.4	875	13.9	1038	20.3	1094	24.0	1149	30.2	1125	32.6	972	35.2	668	36.4	398	38.8	201	33.1
1963	82	0.2	37	0.6	49	0.9	77	1.3	219	3.5	418	6.7	771	13.6	1026	19.7	1113	23.7	1210	31.5	1214	34.8	1022	35.9	711	37.7	362	33.7	196	31.3
1964	66	0.2	40	0.6	36	0.6	76	1.3	211	3.4	427	6.7	788	13.7	1048	19.8	1188	24.7	1171	30.0	1205	34.1	987	33.7	717	36.8	428	38.0	181	27.7
1965	76	0.2	39	0.6	42	0.7	89	1.6	180	2.9	444	7.0	815	14.0	1056	19.7	1232	25.0	1200	30.8	1233	34.5	1075	36.0	757	37.6	419	35.6	246	36.0
1966	68	0.2	39	0.6	44	0.7	77	1.4	192	3.2	436	6.8	843	14.2	1116	20.5	1227	24.5	1206	29.5	1263	34.9	1142	37.7	780	37.6	481	39.3	248	34.5
1967	61	0.2	42	0.6	37	0.6	79	1.4	185	3.1	422	6.6	825	13.7	1025	18.6	1139	26.0	1257	29.7	1247	34.0	1149	37.5	783	36.4	480	37.7	245	32.2
1968	68	0.2	42	0.6	37	0.6	79	1.4	185	3.1	422	6.6	825	13.7	1025	18.6	1139	26.0	1257	29.7	1247	34.0	1149	37.5	783	36.4	480	37.7	245	32.2
1969	67	0.2	36	0.4	41	0.6	74	1.3	179	3.1	424	6.8	837	13.4	1203	21.2	1338	25.9	1329	29.5	1339	35.2	1140	36.7	952	41.1	547	40.1	301	35.5

(continued)

TABLE 27
(continued)

Year	0-19		20-24		25-29		30-34		35-39		40-44		45-49		50-54		55-59		60-64		65-69		70-74		75-79 ^b		80-84 ^b		85+ ^b	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate
1970	56	0.1	37	0.4	42	0.6	56	1.0	188	3.3	413	6.7	814	13.0	1123	19.5	1338	26.1	1404	30.6	1348	34.8	1288	41.1	965	42.4	540	38.3	324	35.3
1971	47	0.1	52	0.6	41	0.6	73	1.2	137	2.4	394	6.5	831	13.2	1115	18.9	1297	24.6	1469	31.0	1419	35.8	1148	36.1	1045	43.9	564	37.6	345	35.3
1972	54	0.1	32	0.4	42	0.5	74	1.2	148	2.6	370	6.2	806	13.0	1140	18.8	1350	25.4	1464	30.2	1404	34.2	1282	40.2	996	40.9	640	40.7	368	36.1
1973	55	0.1	24	0.3	44	0.6	65	1.0	149	2.6	365	6.2	789	12.4	1143	18.6	1323	24.7	1431	29.1	1459	34.4	1183	36.4	1026	41.8	594	36.1	371	34.7
1974	47	0.1	31	0.3	47	0.6	63	0.9	168	2.9	394	6.8	753	12.3	1167	18.8	1376	25.2	1541	30.9	1487	33.9	1204	36.5	978	39.0	682	40.4	397	34.8
1975	45	0.1	39	0.4	46	0.5	67	0.9	137	2.3	315	5.5	752	12.4	1167	18.7	1346	24.0	1469	29.2	1535	33.8	1340	40.1	1019	39.3	726	41.9	462	37.7
1976	48	0.1	24	0.2	41	0.4	80	1.1	147	2.4	299	5.3	697	11.6	1135	18.2	1396	24.4	1518	29.8	1641	35.3	1395	40.8	1132	42.5	843	47.0	474	36.7
1977	31	0.1	33	0.3	44	0.5	64	0.8	126	2.0	256	4.5	615	10.4	1066	17.2	1403	23.8	1618	31.5	1594	33.7	1386	38.9	1065	40.4	775	42.3	547	40.1
1978	31	0.1	35	0.3	45	0.5	62	0.8	107	1.6	291	5.0	597	10.2	1070	17.4	1384	23.0	1632	31.4	1605	33.4	1488	38.8	1105	39.4	810	44.1	560	38.8
1979	34	0.1	33	0.3	43	0.4	64	0.7	132	1.9	288	4.9	550	9.5	1048	17.2	1287	21.1	1445	27.3	1684	34.6	1477	38.6	1175	40.5	876	46.8	584	38.4
1980	29	0.1	35	0.3	33	0.3	65	0.7	126	1.8	289	4.5	505	8.9	989	16.4	1281	20.9	1556	26.7	1615	33.1	1529	38.8	1267	43.7	876	45.7	690	44.3
1981	32	0.1	24	0.2	31	0.3	68	0.7	129	1.8	281	4.3	508	9.0	907	15.1	1352	21.1	1599	28.8	1656	33.5	1553	38.3	1327	43.6	914	46.3	642	38.9
1982	34	0.1	25	0.2	49	0.5	83	0.9	133	1.7	233	3.7	517	9.2	819	13.9	1331	21.9	1620	28.6	1717	34.4	1609	38.8	1401	44.7	947	46.6	735	42.7
1983	34	0.1	30	0.3	43	0.4	66	0.7	150	1.8	233	3.5	462	8.1	883	15.3	1233	20.4	1607	28.2	1777	35.1	1702	40.3	1386	43.4	965	46.2	791	44.3
1984	29	0.1	14	0.1	45	0.4	74	0.8	140	1.6	283	4.1	499	8.5	780	13.8	1240	20.7	1573	27.2	1719	33.7	1690	39.3	1400	43.3	1059	49.2	800	43.3
1985	26	0.1	17	0.2	36	0.3	60	0.6	135	1.5	272	3.8	490	8.3	769	13.7	1170	19.8	1664	28.4	1749	33.9	1797	41.2	1302	44.4	1075	48.5	769	40.3
1986	21	0.1	18	0.2	38	0.3	64	0.6	138	1.5	324	4.4	512	8.4	714	12.8	1160	19.9	1656	28.4	1833	34.8	1914	43.5	1478	42.7	1099	48.1	933	47.5
1987	11	0.0	21	0.2	42	0.4	65	0.6	173	1.8	259	3.3	485	7.7	749	13.5	1163	20.2	1578	27.2	1896	35.3	1825	41.0	1659	46.9	1164	49.4	930	45.9
1988	15	0.0	20	0.2	50	0.5	79	0.7	152	1.6	284	3.5	481	7.3	724	12.8	1138	20.3	1607	27.8	1977	36.5	1955	43.4	1663	46.1	1238	51.0	1013	46.8
1989	11	0.0	24	0.3	36	0.3	88	0.8	156	1.6	285	3.3	488	7.1	747	12.9	1016	18.5	1600	27.9	2014	36.6	1907	42.0	1718	46.8	1296	51.9	1045	48.9
1990	13	0.0	20	0.2	42	0.4	74	0.7	150	1.5	307	3.4	548	7.8	723	12.4	1027	18.7	1510	26.6	2015	36.2	2023	43.7	1857	50.0	1294	50.7	1159	53.1
1991	10	0.0	23	0.2	33	0.3	81	0.7	176	1.7	313	3.3	510	7.1	780	13.0	1100	20.2	1508	26.8	2055	37.1	2057	43.7	1873	49.4	1466	55.7	1262	54.8
1992	11	0.0	13	0.1	30	0.3	73	0.7	172	1.6	333	3.5	541	6.9	798	12.9	1044	19.1	1493	26.9	1950	35.4	2192	45.5	1973	51.3	1460	54.4	1309	54.7
1993	14	0.0	16	0.2	21	0.2	61	0.5	166	1.5	326	3.4	573	7.1	775	11.8	1012	18.2	1362	25.1	1826	33.2	2059	42.1	1886	48.6	1600	58.2	1336	1993
1994	13	0.0	17	0.2	25	0.3	70	0.6	167	1.5	317	3.2	577	6.8	847	12.5	1077	18.9	1416	26.5	1930	35.3	2160	43.7	2025	51.6	1605	57.3	1431	55.9
1995	10	0.0	15	0.2	37	0.4	78	0.7	172	1.5	314	3.1	582	6.5	817	11.7	1085	18.8	1318	24.8	1816	33.5	2182	43.7	2055	51.2	1596	55.8	1466	1995
1996	12	0.0	21	0.2	27	0.4	96	0.9	135	1.2	310	2.9	627	6.7	774	10.8	1069	17.1	1333	25.2	1728	32.1	2100	42.3	2023	49.8	1674	57.6	1473	54.3
1997	10	0.0	12	0.1	42	0.4	76	0.7	149	1.3	332	3.1	625	6.6	874	11.2	1007	16.5	1274	24.0	1677	31.6	2224	45.1	2138	51.4	1656	56.3	1577	1997
1998	10	0.0	16	0.2	22	0.2	68	0.7	154	1.4	338	3.1	555	5.8	888	11.0	1095	17.0	1284	23.7	1672	32.2	2067	41.8	2101	49.8	1676	56.5	1597	55.8

^a Rates are per 100,000.^b Rates cannot be calculated for 75-79, 80-84, and 85+ because population data are only available for 75+ from 1950 to 1999.Source: Vital Statistics of the United States [ref. 10-14]; see also *Cautions in the Interpretations of Long-Term Trends Data*.

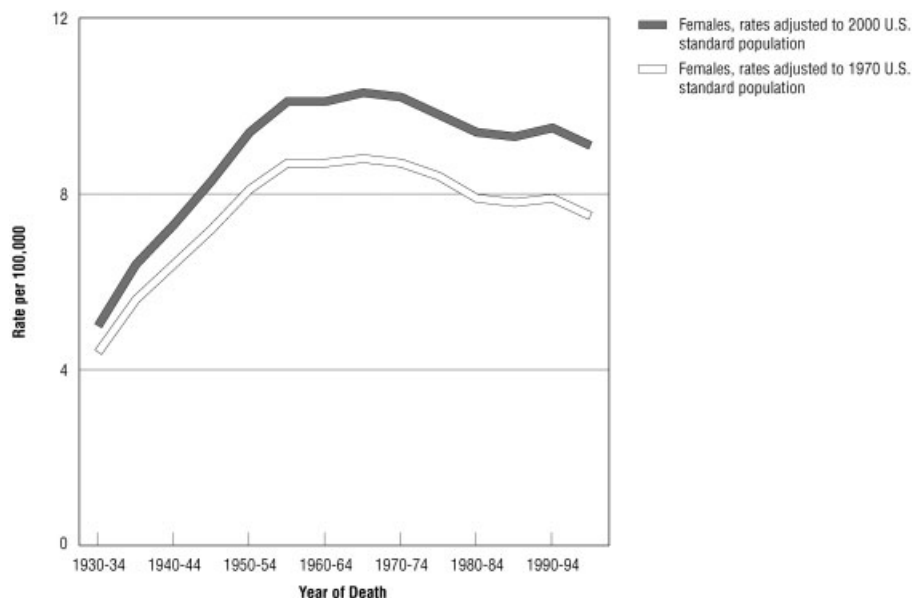


FIGURE 46. Female death rates for cancer of the ovary, fallopian tube, and broad ligament, by year of death, 1930–1998, United States. Source: *Vital Statistics of the United States*^{10–14}; see also the section entitled “Cautions in the Interpretation of Long-Term Trends Data” in the current article.

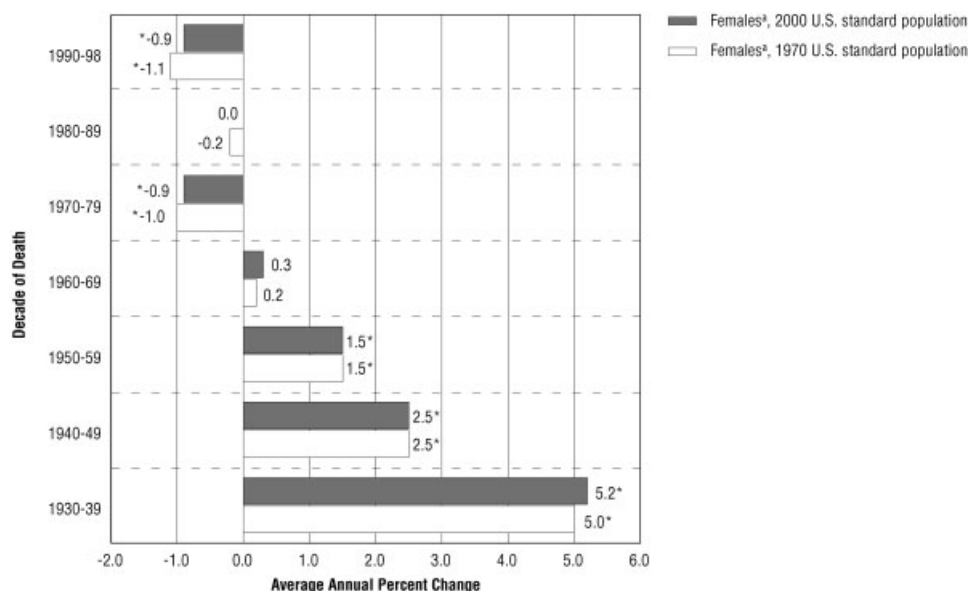


FIGURE 47. Average annual percent change^a in death rates for cancer of the ovary, fallopian tube, and broad ligament, by decade of death, 1930–1998, United States. ^aAverage annual percent change is based on rates adjusted to 2000 or 1970 U.S. standard population. *Average annual percent change is significantly different from zero ($p < 0.05$). Source: *Vital Statistics of the United States*^{10–14}; see also the section entitled “Cautions in the Interpretation of Long-Term Trends Data” in the current article.

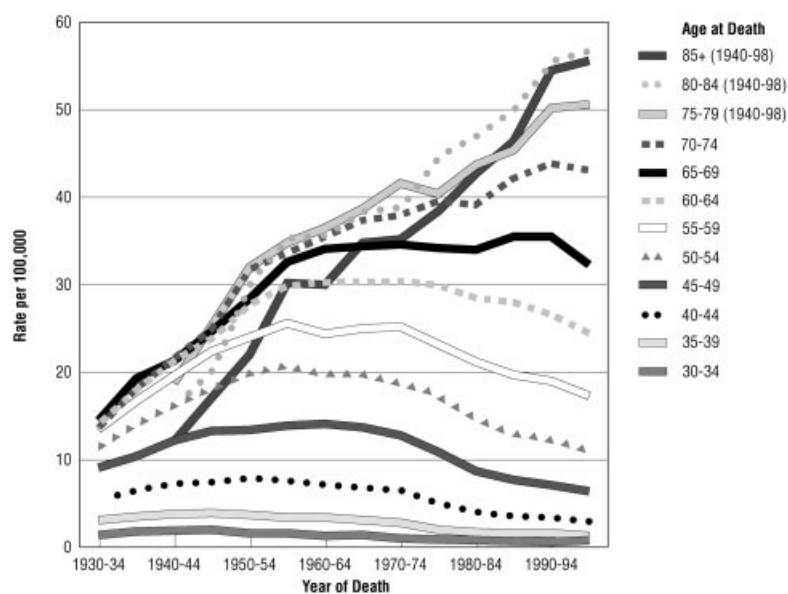


FIGURE 48. Female death rates for cancer of the ovary, fallopian tube, and broad ligament, by age at and year of death, 1930–1998, United States. Source: *Vital Statistics of the United States*^{10–14}; see also the section entitled “Cautions in the Interpretation of Long-Term Trends Data” in the current article.

TABLE 28
Average Annual Percent Change in Female Death Rates for Cancer of the Ovary, Fallopian Tube, Broad Ligament, by Age at Death, 1930-1998, United States

	1930-39	1940-49	1950-59	1960-69	1970-79	1980-89	1990-98
Age							
0-19	0.6	-0.9	-0.1	0.2	-5.5*	-11.9*	-3.0
20-24	1.6	0.3	1.0	1.7	-4.3	-2.7	-1.9
25-29	2.8	-2.0	0.9	-3.1	-3.3*	0.7	-1.0
30-34	5.5*	-0.2	-0.2	1.2	-4.2*	-0.8	1.4
35-39	3.8*	0.6	-1.4*	-1.1	-5.6*	-1.2	-2.9*
40-44	3.4*	0.7	-0.4	-1.2	-4.1*	-2.5	-1.8*
45-49	3.4*	1.9*	0.6	-0.7	-3.5*	-2.5*	-2.6*
50-54	5.0*	2.1*	0.9	0.2	-1.3*	-2.4*	-2.1*
55-59	4.5*	2.6*	1.2*	0.2	-1.7*	-1.3*	-2.0*
60-64	4.6*	2.0*	1.6*	-0.1	-0.4	-0.4	-1.5*
65-69	5.6*	3.0*	2.9*	0.1	-0.3	1.0*	-1.9*
70-74	6.7*	3.2*	1.5*	0.6	0.2	1.3*	-0.4
75-79 ^a		5.8*	1.8*	1.3*	-0.7	0.7*	0.2
80-84 ^a		4.0*	4.2*	1.7*	2.4*	1.4*	0.9
85+ ^a		5.9*	5.6*	2.4*	1.3*	1.8*	0.5*

* Average annual percent change is significantly different from zero ($p < 0.05$).

^a Rates cannot be calculated for 75-79, 80-84, and 85+ because population data are only available for 75+ from 1930 to 1939.

Source: Vital Statistics of the United States [ref. 10-14]; see also *Cautions in the Interpretations of Long-Term Trends Data*.

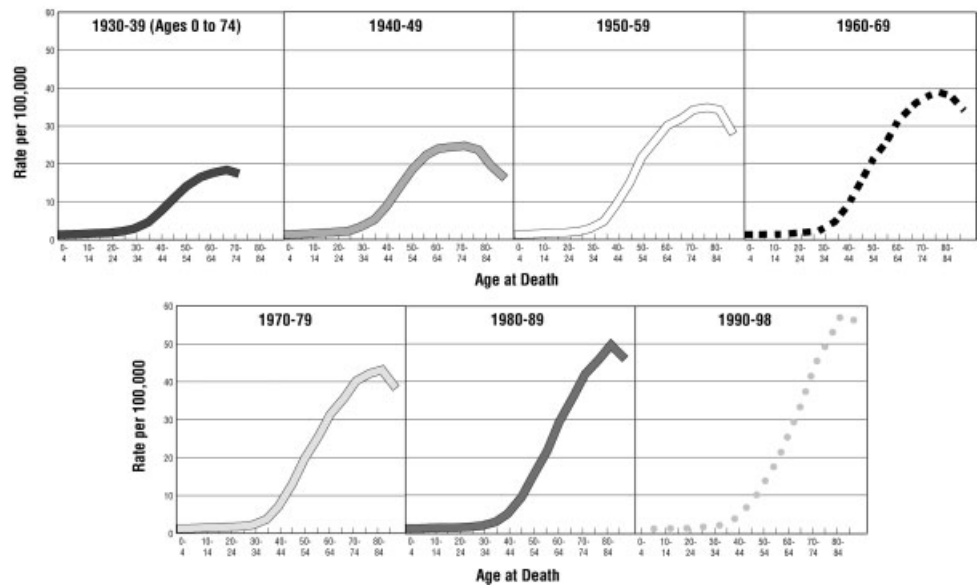


FIGURE 49. Female age-specific death rates for cancer of the ovary, fallopian tube, and broad ligament, separated by age at and decade of death, 1930–1998, United States. Source: *Vital Statistics of the United States*^{10–14}; see also the section entitled “Cautions in the Interpretation of Long-Term Trends Data” in the current article.

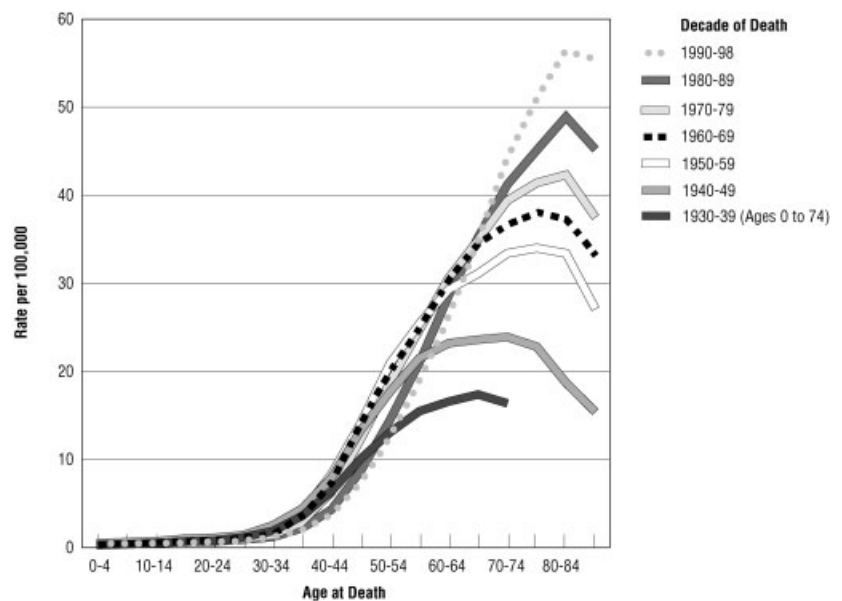


FIGURE 50. Female age-specific death rates for cancer of the ovary, fallopian tube, and broad ligament, by age at and decade of death, 1930–1998, United States. Source: *Vital Statistics of the United States*^{10–14}; see also the section entitled “Cautions in the Interpretation of Long-Term Trends Data” in the current article.

TABLE 29
Deaths and Death Rates for Cancer of the Pancreas, by Gender and Year of Death, 1930-1998, United States

Year	Males				Females			
	Number	Rate			Number	Rate		
		Crude	1970 ^a	2000 ^b		Crude	1970 ^a	2000 ^b
1930	1,634	2.8	3.8	4.5	1,300	2.2	3.3	3.8
1931	1,685	2.8	3.9	4.7	1,420	2.4	3.5	4.1
1932	1,770	2.9	4.1	4.9	1,570	2.7	3.8	4.5
1933	1,981	3.1	4.3	5.1	1,586	2.6	3.6	4.3
1934	2,126	3.3	4.6	5.4	1,649	2.6	3.7	4.4
1935	2,309	3.6	4.8	5.6	1,809	2.9	3.9	4.7
1936	2,446	3.8	5.0	6.0	1,994	3.1	4.2	5.1
1937	2,594	4.0	5.2	6.2	2,011	3.1	4.1	5.0
1938	2,737	4.2	5.5	6.7	2,169	3.4	4.4	5.4
1939	2,972	4.5	5.8	7.0	2,311	3.5	4.6	5.6
1940	3,027	4.6	5.7	6.8	2,330	3.5	4.5	5.4
1941	3,180	4.8	6.0	7.2	2,511	3.8	4.7	5.7
1942	3,257	4.8	6.0	7.3	2,505	3.7	4.6	5.6
1943	3,297	4.8	5.9	7.1	2,426	3.6	4.3	5.2
1944	3,458	5.0	6.0	7.3	2,588	3.7	4.5	5.5
1945	3,738	5.3	6.4	7.8	2,852	4.1	4.8	5.9
1946	3,878	5.5	6.6	8.0	2,942	4.2	4.9	6.0
1947	4,445	6.2	7.4	9.0	3,142	4.4	5.0	6.2
1948	4,753	6.5	7.7	9.4	3,481	4.7	5.4	6.7
1949	5,060	6.8	8.0	9.8	3,632	4.9	5.5	6.9
1950	5,213	6.9	8.1	9.9	3,739	4.9	5.5	6.8
1951	5,573	7.3	8.5	10.3	3,775	4.9	5.4	6.7
1952	5,722	7.3	8.5	10.4	4,069	5.2	5.7	7.1
1953	6,008	7.6	8.8	10.7	4,157	5.2	5.6	7.1
1954	6,451	8.0	9.2	11.2	4,467	5.5	5.8	7.3
1955	6,751	8.2	9.4	11.5	4,588	5.5	5.8	7.3
1956	7,224	8.7	9.9	12.2	5,097	6.0	6.3	7.9
1957	7,269	8.6	9.8	12.0	5,074	5.9	6.1	7.6
1958	7,480	8.7	9.9	12.1	5,271	6.0	6.2	7.8
1959	7,854	9.0	10.2	12.6	5,462	6.1	6.2	7.8
1960	7,982	9.0	10.2	12.6	5,693	6.3	6.3	8.0
1961	8,449	9.3	10.6	13.1	5,900	6.3	6.4	8.1
1962	8,725	9.5	10.8	13.2	6,294	6.7	6.6	8.3
1963	8,944	9.6	11.0	13.5	6,382	6.7	6.5	8.3
1964	8,900	9.4	10.7	13.2	6,483	6.7	6.5	8.2
1965	9,237	9.7	11.1	13.7	6,765	6.9	6.6	8.3
1966	9,406	9.7	11.1	13.8	6,954	7.0	6.6	8.4
1967	9,696	9.9	11.3	14.0	7,190	7.1	6.7	8.4
1968	9,917	10.1	11.5	14.2	7,464	7.3	6.8	8.5
1969	9,932	10.0	11.4	14.1	7,717	7.5	6.9	8.7
1970	10,063	10.1	11.4	14.0	7,825	7.5	6.8	8.6
1971	9,967	9.8	11.1	13.7	7,945	7.5	6.7	8.4
1972	10,006	9.8	10.9	13.4	8,034	7.5	6.6	8.3
1973	10,380	10.0	11.2	14.0	8,273	7.6	6.7	8.4
1974	10,208	9.8	10.9	13.4	8,688	7.9	6.9	8.6
1975	10,606	10.1	11.1	13.8	8,831	8.0	6.8	8.5
1976	10,639	10.0	10.9	13.6	9,099	8.1	6.8	8.6
1977	10,938	10.2	11.1	13.8	9,527	8.4	7.0	8.8
1978	11,010	10.2	10.9	13.6	9,767	8.6	7.0	8.8
1979	11,023	10.1	10.7	13.4	10,035	8.7	6.9	8.8
1980	10,994	10.0	10.6	13.2	10,325	8.9	7.0	8.9
1981	11,191	10.0	10.6	13.2	10,601	9.0	7.0	8.9
1982	11,228	10.0	10.4	13.1	10,782	9.1	7.0	8.8
1983	11,240	9.9	10.3	12.8	11,292	9.4	7.2	9.1

(continued)

TABLE 29
(continued)

Year	Males				Females			
	Number	Rate			Number	Rate		
		Crude	1970 ^a	2000 ^b		Crude	1970 ^a	2000 ^b
1984	11,517	10.0	10.4	13.0	11,638	9.6	7.3	9.2
1985	11,542	10.0	10.3	12.9	11,560	9.5	7.1	9.0
1986	11,403	9.8	10.0	12.5	12,055	9.8	7.2	9.2
1987	11,550	9.8	10.0	12.5	12,187	9.8	7.2	9.2
1988	11,722	9.8	10.0	12.5	12,126	9.7	7.0	9.0
1989	11,965	9.9	10.0	12.6	12,578	9.9	7.2	9.2
1990	12,199	10.1	10.1	12.7	12,883	10.1	7.2	9.3
1991	12,375	10.1	10.0	12.6	13,161	10.2	7.2	9.3
1992	12,672	10.2	10.1	12.6	13,399	10.3	7.2	9.3
1993	12,669	10.1	9.9	12.4	13,776	10.4	7.4	9.4
1994	12,920	10.2	9.9	12.4	13,914	10.4	7.3	9.4
1995	12,826	10.0	9.6	12.1	13,940	10.4	7.2	9.3
1996	13,027	10.1	9.6	12.1	14,233	10.5	7.2	9.3
1997	13,470	10.3	9.7	12.2	14,205	10.4	7.1	9.2
1998	13,806	10.5	9.8	12.3	14,529	10.5	7.2	9.3

^a Rates are per 100,000 and are age-adjusted to the 1970 U.S. standard population.^b Rates are per 100,000 and are age-adjusted to the 2000 U.S. standard population.**Source:** Vital Statistics of the United States [ref. 10-14]; see also *Cautions in the Interpretations of Long-Term Trends Data*.

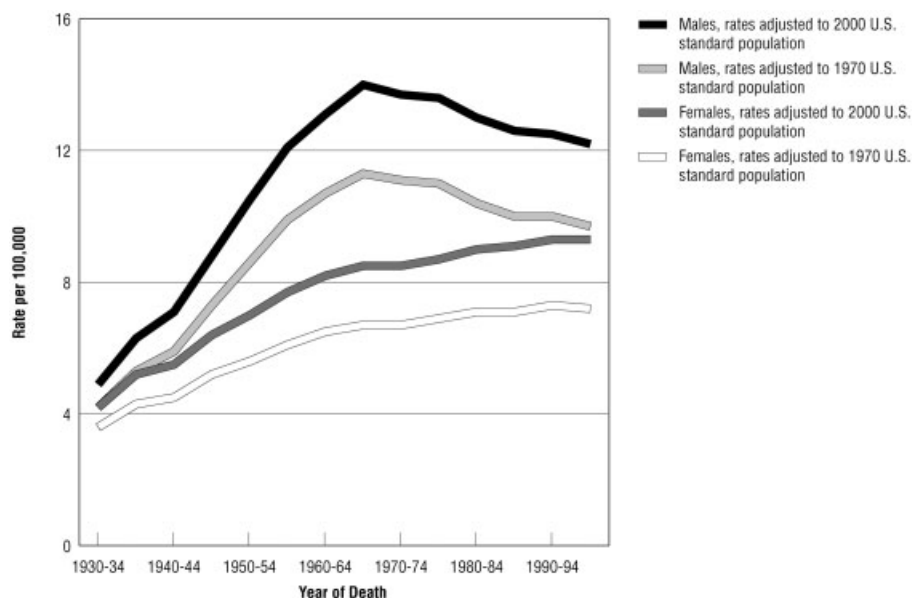


FIGURE 51. Death rates for cancer of the pancreas, by gender and year of death, 1930–1998, United States. Source: *Vital Statistics of the United States*^{10–14}; see also the section entitled “Cautions in the Interpretation of Long-Term Trends Data” in the current article.

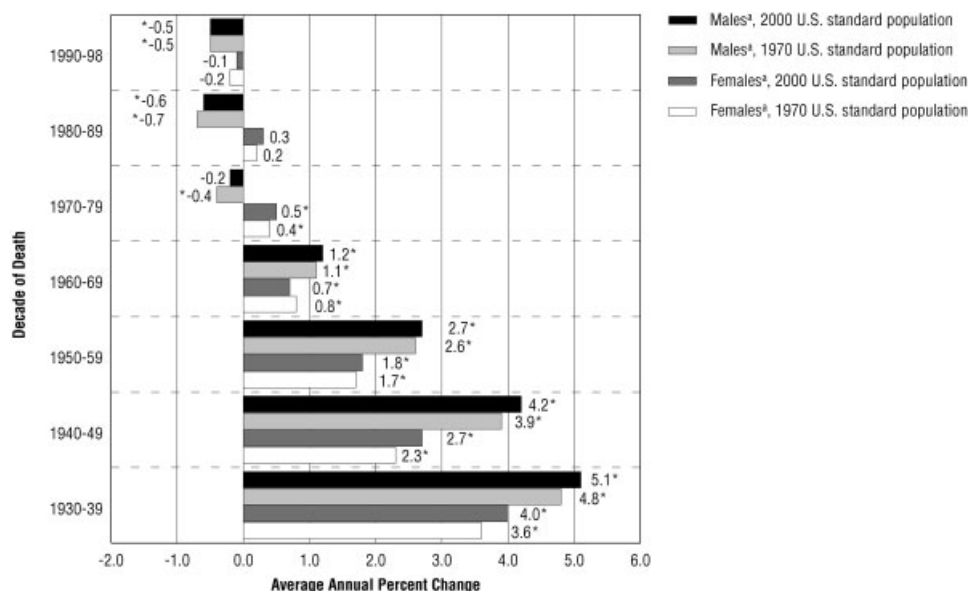


FIGURE 52. Average annual percent change^a in death rates for cancer of the pancreas, by gender and decade of death, 1930–1998, United States. ^aAverage annual percent change is based on rates adjusted to 2000 or 1970 U.S. standard population. *Average annual percent change is significantly different from zero ($p < 0.05$). Source: *Vital Statistics of the United States*^{10–14}; see also the section entitled “Cautions in the Interpretation of Long-Term Trends Data” in the current article.

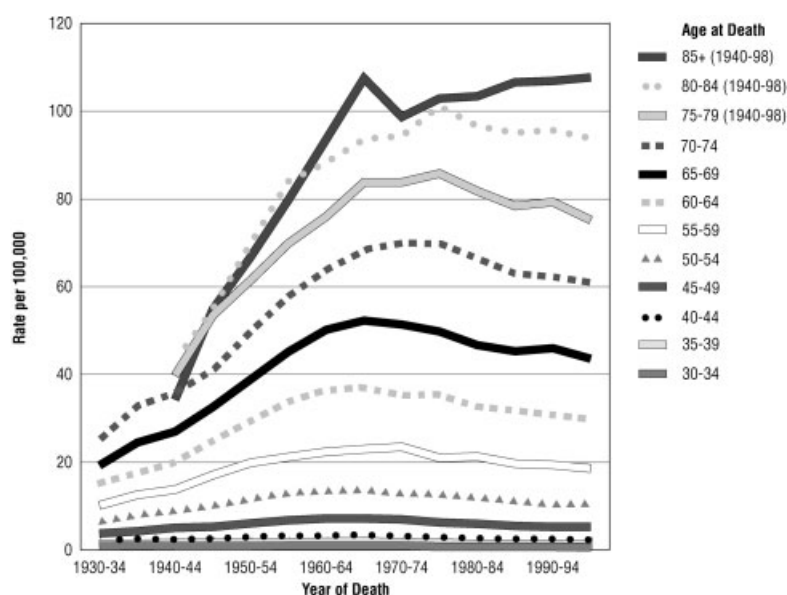


FIGURE 53. Male death rates for cancer of the pancreas, by age at and year of death, 1930–1998, United States. Source: *Vital Statistics of the United States*^{10–14}; see also the section entitled “Cautions in the Interpretation of Long-Term Trends Data” in the current article.

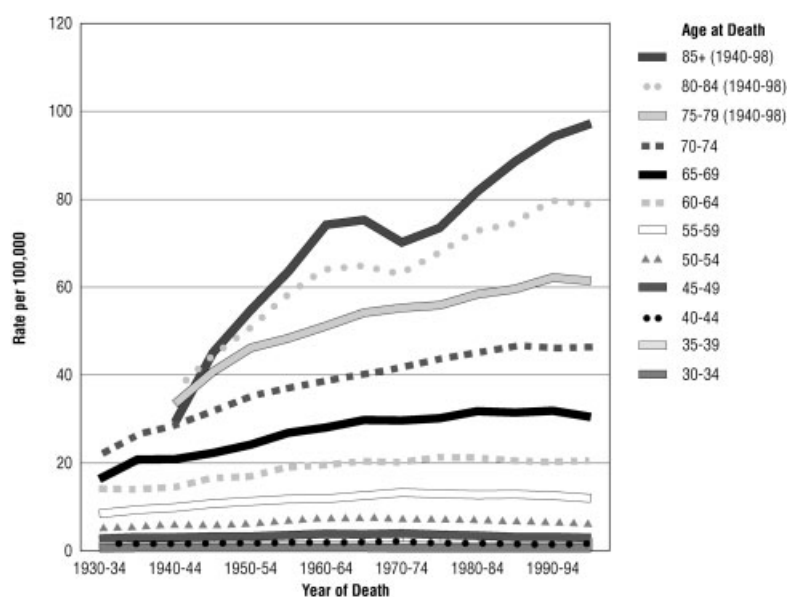


FIGURE 54. Female death rates for cancer of the pancreas, by age at and year of death, 1930–1998, United States. Source: *Vital Statistics of the United States*^{10–14}; see also the section entitled “Cautions in the Interpretation of Long-Term Trends Data” in the current article.

TABLE 30
Male Deaths and Death Rates^a for Cancer of the Pancreas, by Age at and Year of Death, 1930-1998, United States

Year	0-19		20-24		25-29		30-34		35-39		40-44		45-49		50-54		55-59		60-64		65-69		70-74		75-79 ^b		80-84 ^b		85+ ^b		
	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	
1930	7	0.0	*	**	8	0.2	16	0.4	36	0.8	93	2.3	137	3.9	196	6.5	255	10.8	262	13.9	247	17.9	204	21.2	-	-	-	-	-	-	1930
1931	6	0.0	*	**	9	0.2	18	0.4	37	0.8	82	2.0	119	3.3	196	6.4	248	10.2	268	14.0	261	18.4	231	23.6	-	-	-	-	-	-	1931
1932	5	0.0	*	**	8	0.2	16	0.4	42	1.0	88	2.1	129	3.6	180	5.8	249	9.9	272	13.9	294	20.2	252	25.4	-	-	-	-	-	-	1932
1933	*	**	6	0.1	8	0.2	20	0.4	55	1.2	83	1.9	147	3.8	221	6.7	286	10.6	328	15.7	290	18.6	281	26.8	-	-	-	-	-	-	1933
1934	*	**	**	**	10	0.2	18	0.4	40	0.9	78	1.8	163	4.2	240	7.2	284	9.6	377	17.6	336	21.0	288	27.0	-	-	-	-	-	-	1934
1935	5	0.0	6	0.1	8	0.2	19	0.4	48	1.1	104	2.3	169	4.2	250	7.4	339	12.1	350	15.9	394	24.0	323	29.6	-	-	-	-	-	-	1935
1936	*	**	6	0.1	6	0.1	22	0.5	41	0.9	115	2.6	176	4.3	271	7.9	352	12.4	371	16.4	389	23.0	334	29.7	-	-	-	-	-	-	1936
1937	5	0.0	*	**	9	0.2	32	0.6	51	1.1	103	2.3	175	4.2	289	8.2	354	12.3	413	17.9	414	23.9	363	31.3	-	-	-	-	-	-	1937
1938	*	**	6	0.1	9	0.2	14	0.3	40	0.9	102	2.3	185	4.4	302	8.4	356	12.2	397	16.9	440	24.7	426	35.6	-	-	-	-	-	-	1938
1939	*	**	6	0.1	6	0.1	25	0.5	50	1.1	101	2.3	186	4.4	285	7.7	416	14.0	484	20.3	485	24.7	455	36.8	-	-	-	-	-	-	1939
1940	*	**	6	0.1	10	0.2	20	0.4	56	1.2	109	2.5	214	5.1	297	7.9	394	13.0	486	20.0	537	28.5	449	35.1	250	34.3	147	40.7	43	27.0	1940
1941	5	0.0	*	**	*	**	23	0.4	50	1.0	99	2.2	210	4.9	328	8.6	392	12.6	509	20.4	543	28.1	471	36.0	311	41.7	163	44.3	65	39.4	1941
1942	6	0.0	8	0.1	6	0.1	21	0.4	51	1.0	109	2.4	203	4.7	343	8.9	494	15.7	501	19.6	493	24.8	473	35.1	306	39.8	171	45.2	72	41.9	1942
1943	*	**	*	**	10	0.2	20	0.4	41	0.8	97	2.1	242	5.6	353	9.1	437	13.6	502	19.2	560	27.5	492	35.6	329	41.6	149	36.6	58	32.6	1943
1944	7	0.0	*	**	12	0.2	20	0.4	64	1.3	109	2.3	223	5.1	390	9.9	456	14.0	536	20.1	549	26.3	515	36.3	334	41.1	184	46.7	56	30.6	1944
1945	6	0.0	5	0.1	17	0.3	21	0.4	60	1.2	133	2.8	211	4.8	366	9.2	526	15.8	608	22.2	640	29.8	494	33.8	390	46.3	168	41.1	92	47.9	1945
1946	*	**	*	**	11	0.2	26	0.5	62	1.2	120	2.5	221	5.0	383	9.5	531	15.7	585	20.9	659	29.9	558	37.2	403	46.3	208	48.6	103	52.0	1946
1947	*	**	*	**	9	0.2	15	0.3	52	1.0	121	2.5	243	5.4	438	10.8	600	17.4	731	25.5	727	32.2	639	41.6	491	54.4	256	56.6	117	56.8	1947
1948	5	0.0	*	**	15	0.3	24	0.4	57	1.1	124	2.5	240	5.3	412	10.1	637	18.1	783	26.7	800	34.7	694	44.2	547	58.6	284	59.8	127	59.1	1948
1949	6	0.0	*	**	17	0.3	17	0.3	66	1.2	131	2.6	265	5.9	422	10.5	655	18.3	815	27.1	848	35.9	750	46.7	587	60.6	333	66.9	131	57.7	1949
1950	*	**	*	**	18	0.3	27	0.5	68	1.2	146	2.9	289	6.4	465	11.2	657	18.0	846	27.7	880	36.1	747	45.6	583	58.2	333	64.4	150	62.0	1950
1951	*	**	*	**	10	0.2	24	0.4	59	1.1	150	2.9	239	5.2	478	11.5	742	20.0	895	28.9	987	39.4	839	49.8	640	61.6	326	62.2	177	68.1	1951
1952	*	**	5	0.1	8	0.1	18	0.3	68	1.2	150	2.9	298	6.3	485	11.6	792	21.2	917	29.0	956	37.4	811	46.7	622	58.0	404	75.8	181	65.3	1952
1953	*	**	*	**	9	0.2	31	0.5	64	1.1	158	3.0	305	6.3	467	11.6	741	19.7	977	30.3	1013	38.8	912	50.9	714	64.7	402	73.6	190	65.1	1953
1954	*	**	*	**	12	0.2	31	0.5	60	1.0	170	3.2	317	6.5	533	12.5	805	20.7	994	30.4	1140	42.7	1021	54.9	734	64.6	422	74.8	222	72.3	1954
1955	*	**	*	**	13	0.2	24	0.4	74	1.3	171	3.1	327	6.5	514	11.9	810	21.2	1033	31.1	1228	45.2	1078	56.0	773	66.0	465	79.2	231	72.0	1955
1956	*	**	6	0.1	32	0.5	76	1.3	175	3.2	335	7.0	586	13.4	830	21.4	1166	34.7	1227	44.6	1083	54.5	881	73.3	535	87.8	264	80.2	1956	1955	
1957	*	**	*	**	8	0.1	23	0.4	86	1.4	176	3.2	335	6.5	542	12.1	853	21.8	1147	33.9	1247	44.4	1206	59.1	859	69.2	519	82.5	263	77.6	1957
1958	8	0.0	6	0.1	35	0.6	79	1.3	105	1.3	175	3.1	377	7.2	653	14.3	830	20.9	1145	33.9	1252	43.9	1216	58.1	897	70.3	528	82.1	269	78.0	1958
1959	5	0.0	5	0.1	8	0.1	29	0.5	71	1.2	187	3.3	364	6.9	636	13.7	849	20.9	1178	34.8	1377	47.6	1307	60.8	932	70.3	365	88.8	320	90.1	1959
1960	*	**	*	**	13	0.2	33	0.6	93	1.5	172	3.0	364	6.8	640	13.5	880	21.3	1157	33.9	1362	46.5	1359	62.2	1017	74.8	569	85.6	313	86.5	1960
1961	6	0.0	*	**	6	0.1	31	0.5	84	1.4	179	3.1	366	6.8	645	13.3	963	22.8	1240	36.1	1497	50.7	1407	62.8	1029	73.2	612	91.7	352	94.4	1961
1962	*	**	*	**	16	0.3	28	0.5	77	1.3	196	3.3	403	7.4	700	14.2	995	22.8	1256	36.4	1508	51.0	1458	63.9	1113	77.7	643	88.8	335	89.6	1962
1963	*	**	5	0.1	10	0.2	24	0.4	79	1.3	187	3.1	419	7.7	677	13.6	1014	23.0	1330	38.2	1516	51.4	1495	64.6	1135	78.1	654	87.6	393	104.2	1963
1964	5	0.0	5	0.1	16	0.3	28	0.5	99	1.7	215	3.6	393	7.1	654	13.0	998	22.1	1290	36.6	1524	51.5	1504	64.3	1127	76.1	679	87.8	361	93.3	1964
1965	*	**	*	**	11	0.2	27	0.5	97	1.6	201	3.3	378	6.8	689	13.7	1014	22.1	1355	37.8	1520	51.1	1538	65.5	1258	83.9	714	89.8	421	105.8	1965
1966	*	**	*	**	12	0.2	27	0.5	84	1.4	219	3.6	383	6.8	742	14.4	1043	22.5	1360	37.2	1534	51.3	1579	67.3	1247	81.9	735	90.2	436	106.6	1966
1967	*	**	*	**	15	0.3	35	0.6	74	1.3	230	3.8	416	7.3	723	13.9	1067	22.8	1421	37.8	1586	52.6	1628	69.6	1264	81.7	771	92.4	460	108.0	1967
1968	5	0.0	*	**	7	0.1	32	0.6	80	1.4	202	3.4	411	7.1	727	13.9	1138	24.1	1426	36.9	1610	52.9	1603	69.0	1340	85.6	846	99.5	482	109.5	1968
1969	*	**	*	**	12	0.2	25	0.4	82	1.5	195	3.3	432	7.7	705	13.3	1122	23.6	1499	35.6	1643	53.3	1603	69.2	1352	85.8	834	96.5	492	107.2	1969

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(continued)

(continued)

TABLE 30
(continued)

Year	0-19		20-24		25-29		30-34		35-39		40-44		45-49		50-54		55-59		60-64		65-69		70-74		75-79 ^b		80-84 ^b		85+ ^b	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate
1970	*	**	*	**	6	0.1	32	0.6	85	1.5	176	3.0	406	6.9	749	14.0	1151	24.1	1468	36.4	1682	53.8	1593	68.8	1387	89.4	837	95.5	475	97.1
1971	8	0.0	*	**	11	0.2	37	0.6	71	1.3	215	3.7	412	7.0	719	13.1	1124	23.3	1423	34.4	1621	50.6	1605	68.8	1357	84.4	834	92.2	523	102.5
1972	*	**	10	0.1	28	0.5	68	1.2	182	3.2	406	7.3	423	7.0	684	12.2	1154	23.9	1478	35.1	1728	52.4	1682	72.2	1258	77.7	836	89.8	478	91.6
1973	*	**	8	0.1	10	0.1	33	0.5	74	1.3	157	2.8	423	7.3	734	12.9	1087	22.3	1317	35.5	1763	52.0	1661	70.2	1385	86.1	944	98.5	582	108.2
1974	*	**	*	**	11	0.1	23	0.3	69	1.2	150	2.7	400	7.0	721	12.6	1165	23.6	1332	35.3	1688	48.5	1666	69.2	1319	81.6	927	95.8	531	94.0
1975	*	**	*	**	10	0.1	20	0.3	96	1.7	148	2.7	343	6.0	739	12.9	1055	20.9	1384	36.3	1666	51.9	1711	70.1	1494	90.4	947	96.5	590	98.3
1976	*	**	6	0.1	10	0.1	26	0.4	50	0.9	167	3.0	402	7.1	707	12.3	1083	21.0	1359	35.3	1845	50.2	1745	69.8	1411	83.9	1036	102.8	590	97.4
1977	*	**	*	**	11	0.1	30	0.4	64	1.1	178	3.2	343	6.1	722	12.7	1157	21.8	1572	35.3	1844	49.1	1805	69.7	1449	85.1	1051	103.3	705	112.4
1978	*	**	5	0.0	12	0.1	30	0.4	73	1.1	131	2.4	346	6.3	712	12.6	1147	21.2	1575	35.0	1885	49.4	1888	70.3	1494	84.7	1039	103.6	675	103.5
1979	*	**	5	0.0	9	0.1	27	0.3	75	1.1	161	2.8	327	6.0	710	12.6	1095	20.0	1617	35.4	1892	48.7	1878	67.9	1549	84.9	985	98.1	688	101.8
1980	*	**	5	0.0	6	0.1	25	0.3	56	0.8	146	2.6	322	6.0	729	13.0	1190	21.7	1552	33.2	1852	47.5	1918	67.2	1480	80.1	1015	99.6	695	101.9
1981	*	**	5	0.0	12	0.1	30	0.3	77	1.1	181	3.1	332	6.2	655	11.7	1134	20.8	1393	33.1	1891	47.8	1970	67.2	1390	83.2	999	95.3	719	102.6
1982	*	**	*	**	11	0.1	31	0.3	67	0.9	135	2.2	338	6.3	685	12.5	1149	21.3	1571	32.0	1863	46.5	1953	65.1	1600	81.5	1051	97.9	766	106.8
1983	6	0.0	*	**	16	0.2	28	0.3	65	0.8	161	2.5	297	5.4	630	11.7	1157	21.4	1622	32.8	1867	45.9	1954	63.9	1623	80.4	1056	95.8	755	103.1
1984	*	**	6	0.1	10	0.1	31	0.3	86	1.0	154	2.3	338	6.1	639	12.1	1131	21.1	1640	32.7	1879	45.7	2027	65.1	1740	83.9	1066	94.3	766	102.5
1985	*	**	8	0.1	10	0.1	25	0.3	86	1.0	160	2.3	342	6.0	582	11.1	1134	21.3	1617	32.0	1895	45.3	2006	63.5	1704	80.0	1165	100.2	803	105.5
1986	*	**	*	**	10	0.1	25	0.2	89	1.0	194	2.7	296	5.1	541	10.4	1021	19.3	1612	32.7	1978	46.2	2032	63.6	1680	76.9	1069	88.2	822	105.5
1987	*	**	*	**	10	0.1	25	0.2	76	0.8	168	2.2	328	5.5	622	11.9	1024	19.6	1362	31.3	1945	44.5	1961	60.5	1774	79.1	1227	98.2	822	103.0
1988	*	**	*	**	10	0.1	35	0.3	87	0.9	188	2.4	348	5.5	646	12.1	999	19.5	1382	31.6	1967	44.6	2010	60.8	1827	79.4	1147	88.7	871	107.5
1989	*	**	*	**	7	0.1	32	0.3	65	0.7	197	2.4	347	5.3	583	10.7	949	18.9	1550	31.2	2046	45.8	2162	64.4	1808	76.8	1295	97.9	923	111.1
1990	*	**	*	**	12	0.1	33	0.3	100	1.0	187	2.2	395	5.9	570	10.4	986	19.7	1337	31.1	2096	46.5	2152	63.3	1929	80.7	1311	96.7	888	105.6
1991	*	**	*	**	10	0.1	35	0.3	88	0.9	227	2.5	374	5.4	609	10.8	972	19.5	1475	29.8	2069	46.1	2214	62.6	1969	79.2	1390	96.7	940	106.0
1992	*	**	*	**	13	0.1	30	0.3	97	0.9	220	2.4	401	5.3	612	10.5	1000	19.9	1369	32.1	2096	46.8	2239	61.3	2011	78.9	1358	93.3	1021	110.5
1993	*	**	*	**	6	0.1	25	0.2	85	0.8	245	2.6	397	5.1	648	10.5	945	18.5	1488	31.0	1966	43.6	2279	61.9	2090	80.3	1453	96.5	1037	107.6
1994	*	**	*	**	9	0.1	26	0.2	99	0.9	232	2.4	421	5.1	679	10.6	1009	19.3	1437	30.3	2105	46.8	2345	61.9	2060	77.4	1446	92.9	1051	104.8
1995	*	**	*	**	7	0.1	26	0.2	89	0.8	235	2.3	446	5.2	705	10.6	961	18.1	1443	30.5	1912	42.4	2338	60.9	2022	74.1	1470	91.0	1167	111.7
1996	*	**	5	0.1	5	0.1	24	0.2	85	0.8	223	2.2	490	5.4	710	10.5	990	18.2	1365	29.0	1964	43.5	2256	59.0	2185	77.2	1576	94.3	1146	105.5
1997	*	**	*	**	7	0.1	27	0.3	107	1.0	232	2.2	480	5.3	787	10.7	1005	19.2	1474	31.1	1942	43.5	2359	61.8	2123	72.6	1632	94.9	1211	107.0
1998	*	**	*	**	9	0.1	25	0.3	81	0.7	241	2.2	480	5.2	824	10.8	1126	18.9	1429	29.5	1984	45.2	2353	61.0	2304	76.9	1678	95.1	1267	106.7

^a Rates are per 100,000.^b Rates cannot be calculated for 75-79, 80-84, and 85+ because population data are only available for 75+ from 1930 to 1939.

* Number of deaths is fewer than 5.

** Rate is not calculated since number of deaths is fewer than 5.

Source: Vital Statistics of the United States [ref. 10-14]; see also *Cautions in the Interpretations of Long-Term Trends Data*.

Article continues on next page.

TABLE 31
Average Annual Percent Change in Death Rates for Cancer of the Pancreas, by Gender and Age at Death, 1930-1998, United States

Age	1930-39	1940-49	1950-59	1960-69	1970-79	1980-89	1990-98
Males							
0-19	-9.8*	-1.1	6.2	-11.9*	2.1	na	na
20-24	4.7	-14.9*	na	2.1	-2.6	-11.1	11.7
25-29	-3.6	9.4	-4.9	-2.0	-1.1	-2.2	-4.7
30-34	1.9	-2.3	2.2	0.2	-6.4*	-1.3	-2.7
35-39	1.7	0.8	1.6	0.3	-3.4	-1.6	-2.4
40-44	1.6	1.5	1.5*	1.5	-2.0	-1.4	-0.8
45-49	2.7*	1.3	2.1*	0.6	-1.8*	-1.7*	-0.8
50-54	3.6*	2.9*	2.4*	0.2	-0.7	-1.3	0.3
55-59	3.3*	4.1*	1.2*	0.7*	-1.9*	-1.5*	-0.7
60-64	3.7*	3.9*	2.7*	0.4	-0.1	-0.6*	-0.5
65-69	4.5*	3.2*	2.8*	1.0*	-0.9*	-0.6*	-0.8
70-74	5.8*	3.0*	3.1*	1.3*	-0.1	-0.9*	-0.4
75-79 ^a		5.9*	2.4*	1.7*	0.0	-0.6*	-1.0*
80-84 ^a		5.1*	3.6*	1.2*	1.2*	-0.4	-0.4
85+ ^a		8.2*	3.6*	2.5*	0.8	0.6*	0.0
Age	1930-39	1940-49	1950-59	1960-69	1970-79	1980-89	1990-98
Females							
0-19	-4.6	na	-4.2	4.2	7.5	na	na
20-24	na	na	1.5	na	-6.9	na	-4.0
25-29	1.3	-4.5	-2.8	-7.4	0.7	-5.8	-4.8
30-34	3.2	0.7	0.8	-1.3	1.8	-2.7	2.0
35-39	1.6	2.1	3.0	-2.4	-2.9	-1.2	1.7
40-44	1.0	3.1*	2.7*	0.5	-2.6*	-3.5*	1.5
45-49	0.8	1.2	1.5	-0.1	-0.8	-2.1*	-1.7
50-54	1.2	-0.5	1.5*	0.4	0.0	-1.0	-0.8
55-59	1.9	0.9	1.0*	1.4*	-0.3	-0.1	-0.8*
60-64	0.2	2.3*	1.9*	0.5	1.3	-0.3	0.2
65-69	4.0*	1.3*	2.1*	1.1*	0.3	-0.2	-0.8
70-74	4.2*	1.5	0.8*	1.0*	0.7	0.7*	0.1
75-79 ^a		3.9*	1.1*	1.2*	0.2	0.6*	0.0
80-84 ^a		3.7*	2.9*	0.1	1.2*	0.7	-0.1
85+ ^a		8.1*	2.9*	0.5	0.7	1.6*	0.5*

* Average annual percent change is significantly different from zero ($p < 0.05$).

^a Rates cannot be calculated for 75-79, 80-84, and 85+ because population data are only available for 75+ from 1930 to 1939.

na = not applicable; estimated annual percent change was not calculated because one or more age-specific rates was equal to zero.

Source: Vital Statistics of the United States [ref. 10-14]; see also *Cautions in the Interpretations of Long-Term Trends Data*.

TABLE 32
Female Deaths and Death Rates* for Cancer of the Pancreas, by Age at and Year of Death, 1930-1998, United States

Year	0-19		20-24		25-29		30-34		35-39		40-44		45-49		50-54		55-59		60-64		65-69		70-74		75-79 ^b		80-84 ^b		85+ ^b		
	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	
1930	*	**	*	**	*	**	13	0.3	24	0.6	46	1.2	88	2.7	151	5.5	170	7.9	253	14.4	208	15.7	170	18.2	-	-	-	-	-	-	-
1931	*	**	6	0.1	*	**	19	0.4	30	0.7	62	1.6	104	3.2	136	4.8	190	8.4	228	12.6	222	16.3	208	21.6	-	-	-	-	-	-	-
1932	*	**	*	**	6	0.1	8	0.2	27	0.6	47	1.2	110	3.3	167	5.8	228	9.8	266	14.4	220	16.4	232	23.5	-	-	-	-	-	-	-
1933	*	**	6	**	6	**	6	0.2	24	0.5	50	1.2	79	2.2	153	5.1	214	8.6	286	14.5	266	17.7	238	22.8	-	-	-	-	-	-	-
1934	*	**	*	**	10	0.2	7	0.1	34	0.8	49	1.2	96	2.7	157	5.1	208	8.1	305	15.0	244	15.7	254	23.7	-	-	-	-	-	-	-
1935	*	**	7	0.1	5	0.1	14	0.3	42	0.9	58	1.4	104	2.8	157	5.0	231	8.8	282	13.4	329	20.6	266	24.1	-	-	-	-	-	-	-
1936	*	**	*	**	8	0.1	21	0.4	29	0.6	53	1.2	136	3.6	172	5.4	254	9.5	308	14.2	324	19.6	293	25.7	-	-	-	-	-	-	-
1937	*	**	*	**	5	**	5	0.1	19	0.4	23	0.5	59	1.4	142	3.7	198	6.1	228	8.4	318	14.3	357	20.9	301	25.6	-	-	-	-	-
1938	*	**	*	**	7	0.1	11	0.2	32	0.7	71	1.7	121	3.1	188	5.6	260	9.5	320	14.0	360	20.4	319	26.3	-	-	-	-	-	-	-
1939	*	**	*	**	5	0.1	21	0.4	37	0.8	57	1.3	103	2.6	200	5.8	297	10.6	326	14.1	407	22.2	379	30.1	-	-	-	-	-	-	-
1940	*	**	*	**	7	0.1	19	0.4	40	0.8	56	1.3	108	2.7	204	5.8	304	10.6	351	14.9	388	20.4	403	30.8	251	31.9	139	33.2	55	26.1	1940
1941	*	**	*	**	9	0.2	10	0.2	24	0.5	74	1.7	148	3.6	251	7.0	293	10.0	356	14.7	417	21.3	418	31.0	280	34.5	158	36.7	70	31.8	1941
1942	*	**	*	**	7	0.1	13	0.2	31	0.6	66	1.5	139	3.3	209	5.7	302	10.0	381	15.2	438	21.7	380	27.2	287	34.0	173	38.7	72	31.3	1942
1943	*	**	*	**	9	0.2	16	0.3	36	0.7	69	1.5	124	2.9	204	5.5	298	9.7	340	13.2	428	20.6	383	26.6	293	33.6	161	35.0	60	25.1	1943
1944	*	**	*	**	*	**	18	0.3	43	0.8	75	1.6	120	2.8	251	6.6	295	9.4	384	14.6	437	20.4	406	27.3	300	33.2	174	36.9	79	32.0	1944
1945	*	**	6	0.1	18	0.3	35	0.7	81	1.7	128	2.9	246	6.4	354	11.0	440	16.2	468	21.2	454	29.5	314	33.4	213	43.3	92	35.4	1945	1945	
1946	*	**	*	**	*	**	17	0.3	39	0.7	75	1.6	161	3.6	222	5.7	344	10.4	386	13.9	479	21.1	499	31.4	391	40.1	211	40.8	112	41.2	1946
1947	*	**	10	0.2	21	0.4	43	0.8	81	1.7	133	3.0	232	5.8	360	10.7	486	11.7	509	21.7	509	21.7	526	32.1	383	37.7	225	41.1	126	43.9	1947
1948	*	**	6	0.1	6	0.1	15	0.3	41	0.7	86	1.7	150	3.3	249	6.2	384	11.1	522	17.9	560	23.2	578	34.2	470	44.5	275	47.7	136	44.9	1948
1949	*	**	6	0.1	5	0.1	15	0.3	44	0.8	100	2.0	155	3.4	237	5.8	380	10.7	524	17.5	588	24.1	564	32.3	520	47.2	290	47.5	186	57.6	1949
1950	*	**	9	0.1	18	0.3	32	0.6	68	1.3	164	3.6	258	6.2	396	10.9	537	11.7	613	23.6	635	35.3	508	44.2	321	50.1	174	50.1	1950	1950	
1951	*	**	6	0.1	7	0.1	16	0.3	42	0.7	88	1.7	144	3.1	274	6.5	408	11.0	512	16.4	618	23.1	653	35.1	524	43.6	290	43.7	190	51.8	1951
1952	*	**	*	**	5	0.1	22	0.4	43	0.7	85	1.6	151	3.2	259	6.2	440	11.7	534	16.6	659	24.0	665	34.4	616	49.3	364	52.9	214	55.4	1952
1953	*	**	*	**	*	**	15	0.2	26	0.4	92	1.7	156	3.2	255	6.0	430	11.2	545	16.4	698	24.8	704	35.0	613	47.3	381	53.2	229	56.4	1953
1954	*	**	*	**	8	0.1	20	0.3	48	0.8	99	1.8	180	3.6	289	6.7	451	11.6	602	17.6	737	25.5	763	36.3	618	46.0	383	52.5	253	59.0	1954
1955	*	**	11	0.2	12	0.2	40	0.7	101	1.8	177	3.5	298	6.8	451	11.5	627	11.5	627	17.9	723	24.5	806	36.8	660	47.4	403	51.5	275	60.7	1955
1956	*	**	8	0.1	13	0.2	43	0.7	99	1.8	200	3.8	330	7.4	482	12.1	735	20.5	820	27.2	846	37.2	709	49.1	498	60.9	311	65.8	1956	1956	
1957	*	**	*	**	*	**	24	0.4	59	0.9	112	2.0	180	3.4	320	7.0	473	11.7	674	16.6	850	27.4	859	36.6	717	47.6	491	57.9	308	62.1	1957
1958	*	**	*	**	9	0.2	21	0.3	44	0.7	110	1.9	191	3.6	309	6.6	497	12.0	680	18.6	882	27.6	890	36.8	745	47.6	536	61.4	349	67.5	1958
1959	*	**	*	**	19	0.3	47	0.7	100	1.7	211	3.9	335	7.0	501	11.9	723	19.6	886	27.5	924	37.0	825	50.3	533	59.4	358	61.8	1959	1959	
1960	*	**	7	0.1	18	0.3	55	0.9	93	1.6	222	4.0	367	7.5	508	11.8	689	18.5	923	27.7	953	37.3	851	50.2	613	67.0	390	68.8	1960	1960	
1961	*	**	*	**	20	0.3	56	0.9	114	1.9	201	3.6	354	7.1	478	10.8	745	19.8	976	28.6	1036	38.8	862	48.6	605	61.9	447	75.5	1961	1961	
1962	*	**	*	**	7	0.1	15	0.3	50	0.8	109	1.8	225	4.0	387	7.6	551	12.1	836	22.0	983	28.4	1080	38.4	969	52.9	635	61.8	461	75.8	1962
1963	*	**	6	0.1	6	0.1	15	0.3	47	0.7	108	1.7	225	4.0	362	7.0	572	12.2	749	19.5	962	27.3	1140	40.0	1014	53.7	690	64.2	481	76.7	1963
1964	*	**	*	**	9	0.2	20	0.4	44	0.7	106	1.7	227	3.9	404	7.7	605	12.6	722	18.5	1000	28.3	1133	38.7	986	50.6	743	66.0	481	73.7	1964
1965	*	**	5	0.1	*	**	14	0.2	39	0.6	110	1.7	207	3.6	400	7.5	585	11.9	856	21.5	1022	28.6	1173	39.3	1059	52.6	790	67.2	494	72.2	1965
1966	*	**	*	**	24	0.4	39	0.6	132	2.1	246	4.2	400	7.4	653	13.0	798	19.5	1034	28.5	1179	38.9	1064	51.2	793	64.8	580	80.8	580	1966	
1967	*	**	*	**	14	0.3	46	0.8	113	1.8	232	3.8	451	8.2	623	12.3	872	20.6	1109	30.2	1175	38.4	1187	55.2	803	63.1	559	73.6	1967	1967	
1968	*	**	*	**	12	0.2	37	0.6	110	1.7	226	3.7	463	8.3	670	13.1	881	20.2	1150	30.9	1233	40.0	1298	58.6	799	60.7	573	71.6	1968	1968	
1969	5	0.0	*	**	*	**	17	0.3	43	0.8	106	1.7	245	3.9	383	6.7	661	12.8	917	20.4	1168	30.7	1363	43.9	1205	53.1	935	68.6	662	78.1	1969

(continued)

TABLE 32
(continued)

Year	0-19		20-24		25-29		30-34		35-39		40-44		45-49		50-54		55-59		60-64		65-69		70-74		75-79 ^b		80-84 ^b		85+ ^b		
	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	
1970	*	**	7	0.1	9	0.1	8	0.1	43	0.8	132	2.1	247	3.9	461	8.0	671	12.9	944	20.5	1134	29.3	1241	39.6	1284	56.4	937	66.5	704	76.6	1970
1971	*	**	*	**	*	**	19	0.3	49	0.9	113	1.9	246	3.9	420	7.1	676	12.8	889	19.0	1203	30.3	1371	43.1	1318	55.4	946	63.1	676	69.2	1971
1972	*	**	6	0.1	6	0.1	10	0.2	44	0.8	102	1.7	262	4.2	414	6.8	698	13.1	874	18.0	1262	30.7	1292	40.5	1350	55.5	990	62.9	720	70.6	1972
1973	*	**	*	**	7	0.1	9	0.1	47	0.8	109	1.9	236	3.8	451	7.3	736	13.7	1029	20.9	1224	28.8	1358	41.8	1342	54.6	1004	61.0	718	67.2	1973
1974	*	**	*	**	10	0.1	18	0.3	48	0.8	97	1.7	237	3.9	481	7.7	758	13.9	1087	21.8	1279	29.2	1450	43.9	1371	54.6	1066	63.2	780	68.4	1974
1975	*	**	*	**	9	0.1	18	0.3	38	0.6	87	1.5	210	3.5	434	7.0	756	13.5	1086	21.8	1353	29.8	1457	43.6	1408	54.3	1116	64.5	843	68.7	1975
1976	*	**	*	**	12	0.1	17	0.2	41	0.7	96	1.7	236	3.9	441	7.1	778	13.6	1061	20.9	1322	28.5	1567	45.8	1476	55.4	1132	63.2	913	70.8	1976
1977	*	**	*	**	8	0.1	14	0.2	54	0.9	103	1.8	228	3.9	448	7.2	755	12.8	1084	21.1	1479	31.2	1574	44.3	1568	57.8	1229	67.2	981	71.9	1977
1978	*	**	*	**	9	0.1	13	0.2	42	0.6	91	1.6	210	3.6	494	8.0	747	12.4	1153	22.2	1482	30.8	1590	42.8	1559	54.8	1314	71.5	1086	75.3	1978
1979	*	**	6	0.1	8	0.1	22	0.3	40	0.6	90	1.5	219	3.8	444	7.3	778	12.7	1123	21.2	1478	30.4	1616	42.2	1655	57.1	1344	71.8	1207	79.4	1979
1980	*	**	*	**	6	0.1	21	0.2	33	0.5	103	1.7	196	3.4	420	6.9	824	13.4	1142	21.1	1579	32.4	1706	43.2	1713	58.1	1327	69.3	1249	80.1	1980
1981	*	**	*	**	5	0.0	21	0.2	46	0.6	96	1.6	215	3.8	437	7.3	782	12.8	1151	20.7	1545	31.3	1816	44.7	1697	55.7	1433	72.5	1352	82.0	1981
1982	5	0.0	*	**	9	0.1	21	0.2	41	0.5	100	1.6	189	3.3	421	7.1	757	12.5	1223	21.6	1612	32.3	1832	44.2	1805	57.6	1445	71.1	1316	76.5	1982
1983	6	0.0	*	**	12	0.1	17	0.2	41	0.5	117	1.7	194	3.4	434	7.5	739	12.2	1175	20.6	1568	31.0	1957	46.3	1933	60.1	1548	74.1	1547	86.6	1983
1984	*	**	*	**	10	0.1	16	0.2	53	0.6	105	1.5	204	3.5	392	6.9	778	13.0	1305	22.5	1641	32.2	1945	45.2	1987	60.2	1659	77.1	1539	83.3	1984
1985	*	**	5	0.0	7	0.1	24	0.2	45	0.5	106	1.5	220	3.7	398	7.1	802	13.6	1160	19.8	1579	30.6	2001	45.9	1962	58.0	1690	76.3	1559	81.8	1985
1986	*	**	*	**	6	0.1	14	0.1	34	0.4	101	1.4	203	3.3	402	7.2	738	12.6	1220	20.9	1735	33.0	2091	47.6	2075	60.0	1671	73.1	1760	88.7	1986
1987	*	**	*	**	8	0.1	20	0.2	59	0.6	110	1.4	179	2.9	407	7.3	743	12.9	1255	21.7	1885	31.4	2051	46.1	2084	58.9	1699	72.1	1882	92.9	1987
1988	*	**	*	**	*	**	18	0.2	33	0.3	100	1.2	207	3.1	350	6.2	702	12.5	1154	19.9	1671	30.9	2052	45.6	2180	60.4	1838	75.7	1815	87.5	1988
1989	*	**	5	0.1	*	**	22	0.2	60	0.6	110	1.3	201	2.9	376	6.5	710	12.9	1189	20.7	1732	31.5	2124	46.7	2216	60.3	1889	75.6	1939	90.7	1989
1990	5	0.0	*	**	6	0.1	13	0.1	51	0.5	105	1.2	232	3.6	397	6.8	677	12.4	1156	20.4	1775	31.9	2066	45.1	2218	59.7	2090	81.8	2068	94.8	1990
1991	*	**	7	0.1	6	0.1	23	0.2	52	0.5	137	1.4	231	3.5	376	6.3	705	13.0	1095	19.4	1728	31.2	2141	45.5	2380	62.7	2078	79.0	2179	94.7	1991
1992	*	**	*	**	15	0.1	24	0.2	45	0.4	123	1.3	244	3.1	413	6.7	692	12.7	1139	20.5	1760	32.0	2172	45.1	2353	61.1	2150	80.0	2264	94.7	1992
1993	*	**	*	**	9	0.1	22	0.2	63	0.6	131	1.3	239	2.9	463	7.1	698	12.6	1118	20.6	1838	33.4	2279	46.6	2526	65.1	2107	76.6	2276	91.7	1993
1994	*	**	*	**	8	0.1	19	0.2	52	0.5	127	1.3	243	2.9	448	6.6	714	12.5	1084	20.5	1696	31.0	2359	47.7	2443	62.3	2275	81.2	2432	95.0	1994
1995	*	**	*	**	*	**	16	0.1	59	0.5	115	1.1	280	3.1	452	6.4	687	11.9	1145	21.5	1683	31.1	2336	46.8	2431	61.2	2192	76.6	2538	96.1	1995
1996	*	**	*	**	5	0.1	20	0.2	63	0.6	147	1.4	264	2.8	438	6.1	731	12.4	1105	20.9	1603	29.7	2379	47.9	2537	62.4	2282	78.6	2921	97.7	1996
1997	*	**	*	**	*	**	23	0.2	53	0.5	162	1.5	270	2.9	486	6.2	723	11.8	1062	20.0	1599	30.1	2214	44.9	2562	61.6	2356	80.1	2688	96.7	1997
1998	*	**	5	0.1	11	0.1	18	0.2	71	0.6	160	1.4	319	3.3	522	6.5	774	12.0	1088	20.1	1607	30.9	2286	44.6	2553	60.5	2384	80.3	2808	98.1	1998

^a Rates are per 100,000.^b Rates cannot be calculated for 75-79, 80-84, and 85+ because population data are only available for 75+ from 1930 to 1939.

* Number of deaths is fewer than 5.

** Rate is not calculated since number of deaths is fewer than 5.

Source: Vital Statistics of the United States [ref. 10-14]; see also *Cautions in the Interpretations of Long-Term Trends Data*.

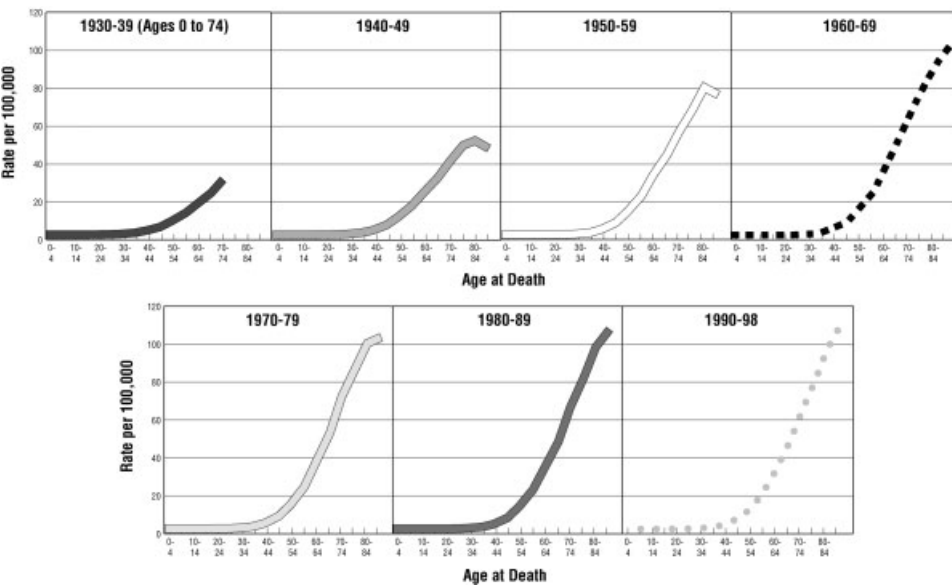


FIGURE 55. Male age-specific death rates for cancer of the pancreas, separated by age at and decade of death, 1930–1998, United States. Source: *Vital Statistics of the United States*^{10–14}; see also the section entitled “Cautions in the Interpretation of Long-Term Trends Data” in the current article.

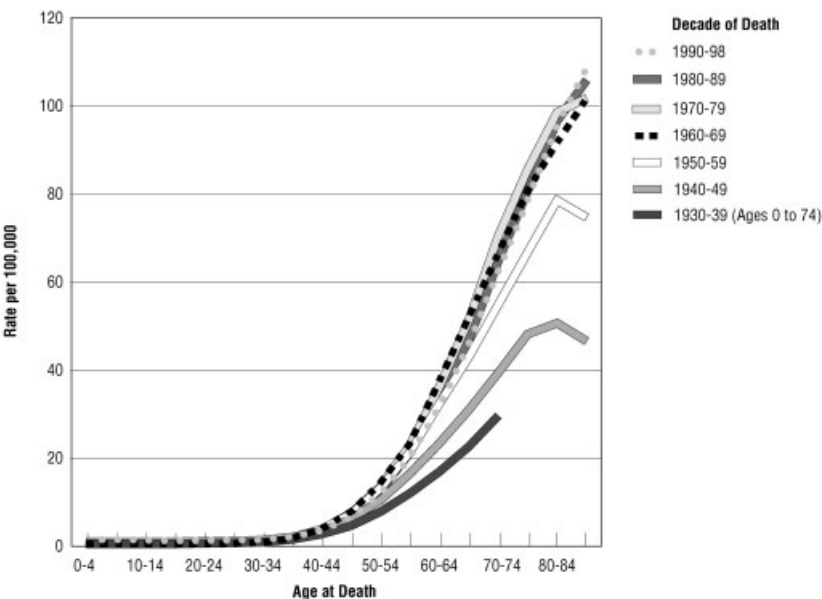


FIGURE 56. Male age-specific death rates for cancer of the pancreas, by age at and decade of death, 1930–1998, United States. Source: *Vital Statistics of the United States*^{10–14}; see also the section entitled “Cautions in the Interpretation of Long-Term Trends Data” in the current article.

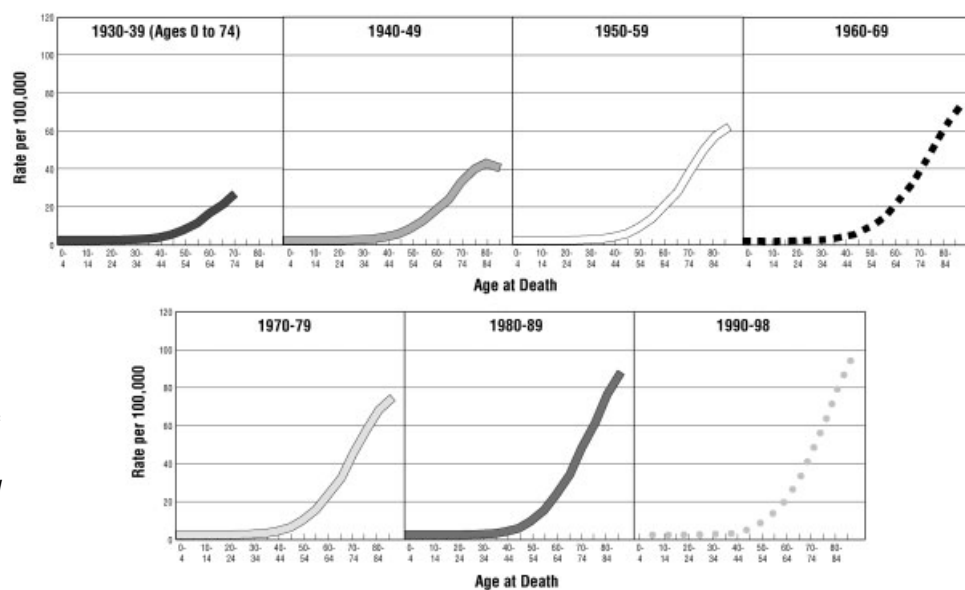


FIGURE 57. Female age-specific death rates for cancer of the pancreas, separated by age at and decade of death, 1930–1998, United States. Source: *Vital Statistics of the United States*^{10–14}; see also the section entitled “Cautions in the Interpretation of Long-Term Trends Data” in the current article.

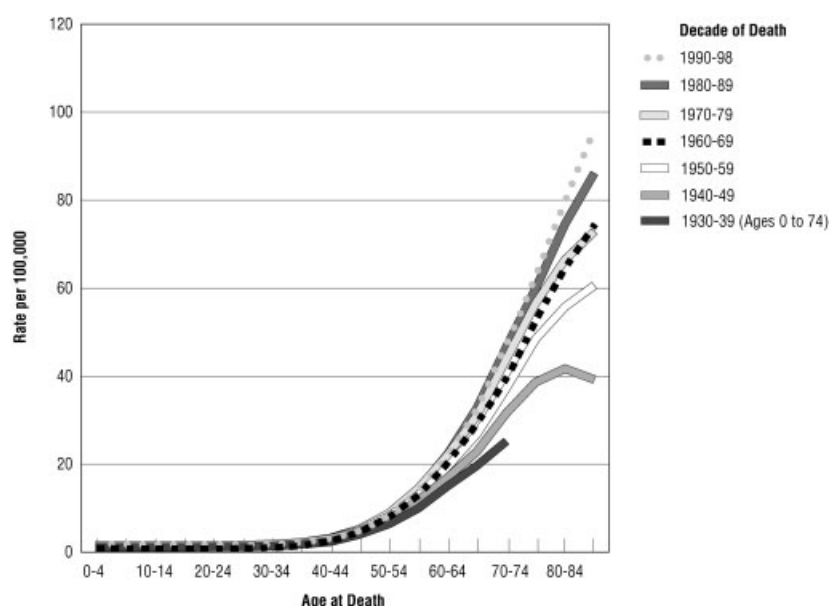


FIGURE 58. Female age-specific death rates for cancer of the pancreas, by age at and decade of death, 1930–1998, United States. Source: *Vital Statistics of the United States*^{10–14}; see also the section entitled “Cautions in the Interpretation of Long-Term Trends Data” in the current article.

TABLE 33
Male Deaths and Death Rates for Cancer of the Prostate, by Year of
Death, 1930-1998, United States

Year	Number	Rate		
		Crude	1970 ^a	2000 ^b
1930	4,594	7.7	13.7	17.8
1931	4,876	8.2	14.1	18.4
1932	5,419	9.0	15.2	19.8
1933	5,980	9.4	15.8	20.7
1934	6,578	10.3	17.2	22.7
1935	6,765	10.6	17.2	22.7
1936	7,140	11.1	17.9	23.8
1937	7,490	11.6	18.3	24.2
1938	8,069	12.4	19.3	25.7
1939	8,514	13.0	20.0	26.8
1940	8,946	13.5	20.5	27.4
1941	9,274	13.9	21.1	28.7
1942	8,815	13.0	19.7	27.1
1943	8,901	13.0	19.7	27.3
1944	9,439	13.6	20.2	27.9
1945	10,145	14.5	21.2	29.3
1946	10,616	15.0	21.7	30.3
1947	11,050	15.4	21.9	30.7
1948	11,758	16.1	22.8	31.9
1949	11,042	14.9	20.8	29.3
1950	11,339	15.0	20.6	28.9
1951	11,492	15.0	20.4	28.6
1952	12,181	15.6	21.0	29.7
1953	12,595	15.9	21.2	29.8
1954	13,218	16.4	21.6	30.5
1955	13,475	16.4	21.4	30.1
1956	13,994	16.8	21.8	31.0
1957	14,296	16.9	21.6	30.6
1958	14,061	16.3	20.9	29.6
1959	14,037	16.0	20.4	28.9
1960	14,452	16.2	20.6	29.3
1961	14,941	16.5	20.8	29.8
1962	15,173	16.5	20.8	29.7
1963	15,446	16.6	20.9	29.9
1964	15,548	16.4	20.6	29.4
1965	15,911	16.6	20.8	29.8
1966	15,941	16.5	20.6	29.5
1967	16,345	16.8	20.8	29.8
1968	16,848	17.1	21.1	30.1
1969	16,836	17.0	20.8	29.7
1970	17,252	17.2	21.0	30.0
1971	17,772	17.5	21.1	30.1
1972	18,228	17.8	21.3	30.4
1973	18,830	18.2	21.7	31.0
1974	19,184	18.4	21.7	30.9
1975	19,427	18.4	21.5	30.8
1976	20,352	19.1	22.0	31.6
1977	20,790	19.4	22.1	31.7
1978	21,674	20.0	22.6	32.6
1979	22,240	20.3	22.6	32.7
1980	22,881	20.8	22.9	33.3
1981	23,370	21.0	22.9	33.2
1982	24,021	21.3	23.0	33.4
1983	24,959	22.0	23.4	33.9
1984	25,407	22.2	23.4	34.1
1985	25,943	22.4	23.4	33.9
1986	27,262	23.3	24.1	34.9

(continued)

TABLE 33
(continued)

Year	Number	Rate		
		Crude	1970 ^a	2000 ^b
1987	27,864	23.6	24.1	35.1
1988	28,982	24.3	24.7	35.9
1989	30,520	25.4	25.4	37.1
1990	32,378	26.7	26.6	38.9
1991	33,564	27.3	26.7	39.2
1992	34,240	27.5	26.6	39.1
1993	34,865	27.7	26.4	39.2
1994	34,902	27.5	25.8	38.3
1995	34,475	26.9	24.8	37.0
1996	34,123	26.3	24.0	35.7
1997	32,891	25.1	22.6	33.8
1998	32,203	24.4	21.5	32.2

^a Rates are per 100,000 and are age-adjusted to the 1970 U.S. standard population.

^b Rates are per 100,000 and are age-adjusted to the 2000 U.S. standard population.

Source: Vital Statistics of the United States [ref. 10-14]; see also *Cautions in the Interpretations of Long-Term Trends Data*.

TABLE 34
Male Deaths and Death Rates^a for Cancer of the Prostate, by Age at and Year of Death, 1930-1998, United States

Year	0-19		20-24		25-29		30-34		35-39		40-44		45-49		50-54		55-59		60-64		65-69		70-74		75-79 ^b		80-84 ^b		85+ ^b	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate
1930	5	0.0	*		*		*		8	0.2	24	0.6	58	1.6	135	4.5	349	14.8	614	32.6	914	66.2	1074	111.6	-	-	-	-	-	-
1931	1331	*	*		*		*		15	0.3	29	0.7	63	1.8	167	5.4	357	14.6	618	32.2	987	66.2	1119	114.2	-	-	-	-	-	-
1932	5	0.0	*		*		7	0.2	13	0.3	36	0.9	72	2.0	182	5.8	366	14.5	752	38.4	1049	72.1	1209	121.9	-	-	-	-	-	-
1933	5	0.0	5	0.1	*		6	0.1	12	0.3	36	0.8	66	1.7	195	5.9	408	15.2	772	37.0	1136	73.0	1354	129.3	-	-	-	-	-	-
1934	*	*	*		*		11	0.2	19	0.4	47	1.1	93	2.4	197	5.9	392	14.2	781	36.5	1249	78.0	1444	135.3	-	-	-	-	-	-
1935	6	0.0	*		*		5	0.1	9	0.2	37	0.8	65	1.6	207	6.1	448	16.0	793	36.0	1300	79.0	1504	137.6	-	-	-	-	-	-
1936	*	*	*		*		6	0.1	10	0.2	40	0.9	86	2.1	173	5.0	396	13.9	821	36.3	1355	80.2	1626	144.7	-	-	-	-	-	-
1937	8	0.0	*		5	0.1	*		12	0.3	32	0.7	78	1.9	218	6.2	450	15.6	870	37.6	1426	82.2	1684	143.6	-	-	-	-	-	-
1938	7	0.0	*		*		6	0.1	10	0.2	39	0.9	75	1.8	228	6.3	472	16.1	924	39.3	1471	82.5	1850	154.6	-	-	-	-	-	-
1939	9	0.0	*		5	0.1	5	0.1	11	0.2	34	0.8	69	1.6	250	6.8	493	16.5	954	38.9	1515	82.7	1931	156.4	-	-	-	-	-	-
1940	7	0.0	*		*		*		10	0.2	37	0.8	105	2.5	230	6.1	532	17.5	1019	41.9	1691	89.8	1964	153.7	1808	248.4	1093	302.8	435	273.6
1941	10	0.0	*		*		*		12	0.2	33	0.7	76	1.8	209	5.5	518	16.7	1021	41.0	1629	84.3	2139	163.4	1843	247.1	1246	338.6	521	313.8
1942	11	0.0	*		5	0.1	*		14	0.3	28	0.6	93	2.2	235	6.1	481	15.2	962	37.7	1484	74.7	1941	144.2	1736	228.0	1249	330.4	564	327.9
1943	6	0.0	*		*		*		10	0.2	27	0.6	88	2.0	220	5.7	471	14.7	867	33.2	1473	72.3	1969	142.4	1865	236.1	1266	328.0	628	352.8
1944	11	0.0	*		*		7	0.1	14	0.3	36	0.8	88	2.0	272	6.9	495	15.2	1001	37.4	1496	71.6	2036	143.5	2057	253.0	1296	326.4	632	345.4
1945	*	*	5	0.1	*		*		13	0.3	32	0.7	95	2.1	231	5.8	555	16.7	1061	38.8	1693	78.8	2189	149.8	2080	248.2	1419	346.9	748	388.6
1946	5	0.0	*		*		6	0.1	12	0.2	26	0.5	93	2.1	248	6.2	541	16.0	1045	37.4	1703	77.3	2232	148.8	2362	271.2	1516	354.2	817	412.6
1947	7	0.0	*		*		5	0.1	6	0.1	40	0.8	80	1.8	224	5.5	547	15.9	1088	38.4	1776	78.7	2388	154.1	2422	268.2	1547	342.3	917	445.1
1948	9	0.0	*		*		*		11	0.2	21	0.4	81	1.8	250	6.1	560	16.0	1122	38.3	1821	79.0	2492	158.7	2642	282.9	1729	364.0	1001	465.6
1949	10	0.0	*		*		*		7	0.1	30	0.6	77	1.7	249	6.1	542	15.1	1053	35.0	1670	70.7	2222	138.4	2441	252.2	1744	390.2	982	432.6
1950	13	0.0	*		5	0.1	*		12	0.2	28	0.5	59	1.3	253	6.1	536	14.7	1086	35.6	1714	70.2	2329	142.1	2436	243.1	1845	356.9	1034	414.9
1951	10	0.0	*		*		9	0.2	22	0.5	22	0.4	74	1.6	226	5.4	539	14.5	1053	34.0	1804	72.1	2302	136.7	2473	238.0	1906	363.7	1038	406.9
1952	11	0.0	*		*		*		*	*	21	0.4	73	1.5	235	5.6	546	14.6	1149	36.3	1842	72.0	2477	142.7	2663	248.4	1903	357.0	1241	448.0
1953	15	0.1	*		7	0.1	*		7	0.1	27	0.5	61	1.3	220	5.2	538	14.3	1091	33.8	1995	76.3	2538	141.7	2803	253.9	2004	367.0	1276	437.0
1954	11	0.0	*		*		*		*	*	19	0.4	88	1.8	198	4.6	581	15.4	1178	36.0	1981	74.2	2687	144.5	2912	254.1	2179	386.3	1371	446.6
1955	7	0.0	*		*		6	0.1	23	0.4	71	1.4	218	5.0	580	15.2	1194	15.2	1194	36.0	2018	74.3	2790	144.9	2882	247.0	2221	378.4	1444	448.8
1956	7	0.0	*		*		*		24	0.4	69	1.4	210	4.8	540	13.9	1209	15.2	1209	36.0	2025	73.6	2846	143.3	3008	250.2	2482	407.6	1560	474.2
1957	8	0.0	*		*		7	0.1	25	0.4	57	1.1	232	5.2	500	12.8	1239	15.2	1239	36.7	2124	75.7	3002	147.2	3018	245.2	2481	394.4	1588	468.7
1958	5	0.0	*		*		6	0.1	16	0.3	59	1.1	223	4.9	533	13.4	1181	13.4	1181	35.0	2136	74.3	2891	138.2	2942	234.5	2422	376.7	1588	460.3
1959	10	0.0	*		*		6	0.1	20	0.4	61	1.2	207	4.4	577	14.2	142	14.2	1083	32.0	2122	73.4	2902	135.1	2988	225.5	2425	368.0	1631	459.4
1960	10	0.0	*		*		6	0.1	25	0.4	53	1.0	225	4.7	516	12.5	1143	12.5	1143	33.5	2082	71.0	3028	138.6	3216	236.6	2483	373.4	1657	457.7
1961	12	0.0	*		*		6	0.1	17	0.3	48	0.9	229	4.7	540	12.8	1154	12.8	1154	33.6	2112	71.5	3033	135.3	3309	235.5	2607	372.4	1868	500.8
1962	8	0.0	*		*		5	0.1	15	0.3	59	1.1	208	4.2	537	12.4	1174	12.4	1174	34.0	2242	75.9	2995	133.2	3438	233.9	2620	361.9	1861	497.6
1963	7	0.0	*		*		7	0.1	18	0.3	59	1.1	215	4.3	557	12.6	1155	12.6	1155	33.2	2160	73.2	3229	139.4	3480	233.3	2642	335.7	1912	507.2
1964	9	0.0	*		*		8	0.1	16	0.3	70	1.3	213	4.2	537	11.9	1213	11.9	1213	34.4	2113	71.5	3218	137.6	3526	238.2	2737	354.1	1879	485.5
1965	8	0.0	*		*		*		19	0.3	74	1.3	227	4.5	594	13.0	1228	13.0	1228	34.3	2151	72.4	3088	131.5	3656	243.7	2650	336.5	2011	503.3
1966	10	0.0	*		*		*		17	0.3	54	1.0	221	4.3	569	12.3	1215	12.3	1215	33.2	2136	71.5	3133	133.5	3624	238.1	2905	336.4	2047	506.5
1967	6	0.0	*		*		*		*	*	14	0.2	54	0.9	208	4.0	555	11.8	1237	32.9	2161	70.7	3172	137.2	3712	239.8	3021	362.2	2160	507.0
1968	6	0.0	*		*		*		*	*	13	0.2	63	1.1	252	4.8	598	12.7	1315	34.0	2203	75.2	3275	140.9	3728	238.1	3065	360.6	2213	561.0
1969	9	0.0	*		*		6	0.1	17	0.3	68	1.2	205	3.9	589	12.4	124	12.4	1319	33.3	2264	73.5	3164	156.6	3825	242.7	3125	361.7	2234	486.1

(continued)

TABLE 34
(continued)

Year	0-19		20-24		25-29		30-34		35-39		40-44		45-49		50-54		55-59		60-64		65-69		70-74		75-79 ^b		80-84 ^b		85+ ^b	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate
1970	11	0.0	*	**	*	**	*	**	*	**	18	0.3	66	1.1	212	4.0	581	12.2	1324	32.8	2269	72.6	3249	140.2	3904	249.9	3296	375.1	2320	474.4
1971	6	0.0	*	**	*	**	*	**	5	0.1	15	0.3	58	1.0	242	4.4	617	12.8	1414	34.2	2226	72.6	3288	140.1	3932	244.7	3376	375.0	2499	490.0
1972	*	**	*	**	*	**	6	0.1	*	**	14	0.2	44	0.8	240	4.3	658	13.6	1378	32.7	2396	72.7	3462	148.6	3902	246.0	3498	375.7	2542	467.0
1973	9	0.0	*	**	*	**	*	**	*	**	10	0.2	61	1.1	245	4.3	645	13.2	1474	34.5	2527	74.5	3419	144.6	4025	250.2	3639	379.9	2764	513.8
1974	7	0.0	*	**	*	**	*	**	*	**	17	0.3	72	1.3	237	4.1	657	13.3	1478	34.1	2587	74.3	3612	149.9	4089	252.9	3605	372.4	2812	497.7
1975	*	**	*	**	*	**	*	**	5	0.1	13	0.2	55	1.0	213	3.7	631	12.5	1433	32.8	2582	71.8	3653	149.7	3989	241.3	3846	392.0	3000	565.1
1976	*	**	*	**	*	**	*	**	6	0.1	15	0.3	48	0.8	261	4.6	679	13.2	1507	34.1	2743	74.6	3711	148.4	4297	252.5	3927	386.1	3421	545.6
1977	5	0.0	*	**	*	**	*	**	14	0.3	56	1.0	210	3.7	696	13.1	1579	35.5	2731	34.1	2731	72.7	3845	148.4	4297	252.5	3927	386.1	3421	545.6
1978	*	**	*	**	*	**	*	**	*	**	10	0.2	59	1.1	242	4.3	636	11.8	1565	34.8	2867	75.1	3979	148.6	4467	253.4	4093	408.1	3738	573.3
1979	7	0.0	*	**	*	**	*	**	5	0.1	54	1.0	54	1.0	229	4.1	699	12.8	1515	33.2	2871	74.0	4157	150.3	4674	256.1	4125	410.9	3900	576.9
1980	*	**	*	**	*	**	*	**	*	**	11	0.2	67	1.2	241	4.3	710	13.0	1596	34.2	3035	77.8	4129	144.7	4787	258.0	4178	410.0	4135	606.3
1981	5	0.0	*	**	*	**	*	**	5	0.1	15	0.3	68	1.3	247	4.4	684	12.6	1644	34.2	3013	76.2	4310	146.9	4828	252.6	4290	408.4	4266	606.6
1982	*	**	*	**	*	**	*	**	*	**	16	0.3	52	1.0	234	4.3	728	13.5	1687	34.0	3097	77.3	4324	144.2	5083	259.3	4433	412.8	4358	607.8
1983	5	0.0	*	**	*	**	*	**	20	0.3	71	1.3	233	4.3	722	13.4	1738	35.1	3123	35.1	3123	76.8	4636	151.6	5357	264.3	4536	411.6	4525	618.2
1984	6	0.0	*	**	*	**	*	**	16	0.2	57	1.0	210	4.0	734	13.7	1746	34.8	3130	34.8	3130	76.1	4635	148.9	5384	258.7	4654	411.5	4817	644.8
1985	5	0.0	*	**	*	**	*	**	16	0.2	59	1.0	235	4.5	726	13.6	1747	34.5	3215	34.5	3215	76.9	4800	152.0	5576	261.9	4917	422.8	4639	606.6
1986	6	0.0	*	**	*	**	*	**	5	0.1	10	0.1	58	1.0	223	4.3	717	13.5	1851	36.8	3439	80.4	5059	158.3	5752	263.2	5162	430.9	4974	638.5
1987	*	**	*	**	*	**	*	**	6	0.1	15	0.2	69	1.1	215	4.1	679	13.0	1762	35.3	3538	81.0	5071	156.3	5905	263.1	5351	432.6	5242	669.9
1988	*	**	*	**	*	**	*	**	13	0.2	64	1.0	247	4.6	705	13.8	1822	36.4	3558	36.4	3558	80.8	5254	159.0	6188	268.0	5682	444.6	5433	670.7
1989	*	**	*	**	*	**	*	**	23	0.3	67	1.0	232	4.3	756	15.0	1922	38.7	3727	38.7	3727	83.5	5393	160.6	6477	275.0	6019	455.0	5695	709.4
1990	*	**	*	**	*	**	*	**	5	0.1	15	0.2	47	0.7	257	4.7	770	15.4	1955	39.5	3830	87.2	5788	169.6	6884	288.6	6452	475.8	6276	746.3
1991	*	**	*	**	*	**	*	**	20	0.2	60	0.9	257	4.5	676	13.6	1913	38.7	3768	38.7	3768	83.9	5949	168.1	7122	286.5	6840	492.9	6847	771.9
1992	*	**	*	**	*	**	5	0.0	22	0.2	75	1.0	234	4.0	685	13.6	1889	38.6	3883	38.6	3883	86.8	5950	163.0	7256	284.5	6782	476.2	7302	790.3
1993	*	**	*	**	*	**	*	**	24	0.3	75	1.0	241	3.9	691	13.5	1732	36.1	3955	36.1	3955	82.0	5933	159.1	7295	280.4	7244	481.0	7926	822.2
1994	*	**	*	**	*	**	*	**	20	0.2	96	1.2	274	4.3	682	12.6	1666	35.2	3495	35.2	3495	77.6	5986	157.4	7249	272.2	7429	477.4	8034	801.0
1995	5	0.0	*	**	*	**	9	0.1	27	0.3	78	0.9	252	3.8	671	12.6	1626	34.4	3359	34.4	3359	74.5	5723	149.1	7065	258.9	7329	453.5	8328	796.9
1996	*	**	*	**	*	**	6	0.1	26	0.3	89	1.0	294	4.3	682	12.5	1900	31.9	3227	31.9	3227	71.5	5677	148.4	7139	252.4	7222	432.2	8257	760.3
1997	*	**	*	**	*	**	5	0.0	7	0.1	27	0.3	90	1.0	274	3.7	693	12.3	1868	28.8	2987	66.9	5084	133.2	6838	233.8	7056	406.5	8485	749.6
1998	*	**	*	**	*	**	*	**	33	0.3	82	0.9	291	3.8	673	11.3	1429	29.5	2768	29.5	2768	63.0	4795	124.4	6750	225.3	7050	396.7	8323	701.2

^a Rates are per 100,000.^b Rates cannot be calculated for 75-79, 80-84, and 85+ because population data are only available for 75+ from 1930 to 1939.

* Number of deaths is fewer than 5.

** Rate is not calculated since number of deaths is fewer than 5.

Source: Vital Statistics of the United States [ref. 10-14]; see also *Cautions in the Interpretations of Long-Term Trends Data*.

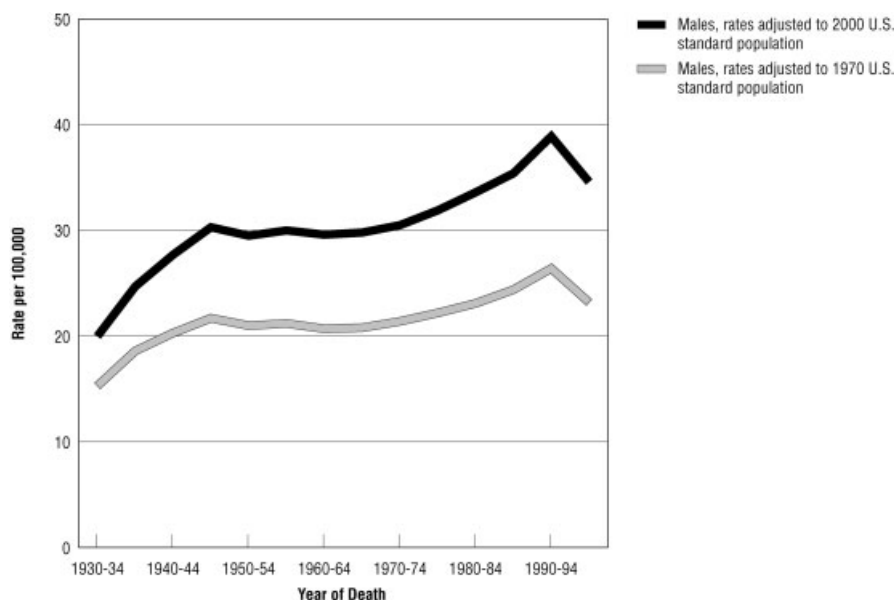


FIGURE 59. Male death rates for cancer of the prostate, by year of death, 1930–1998, United States. Source: *Vital Statistics of the United States*^{10–14}; see also the section entitled “Cautions in the Interpretation of Long-Term Trends Data” in the current article.

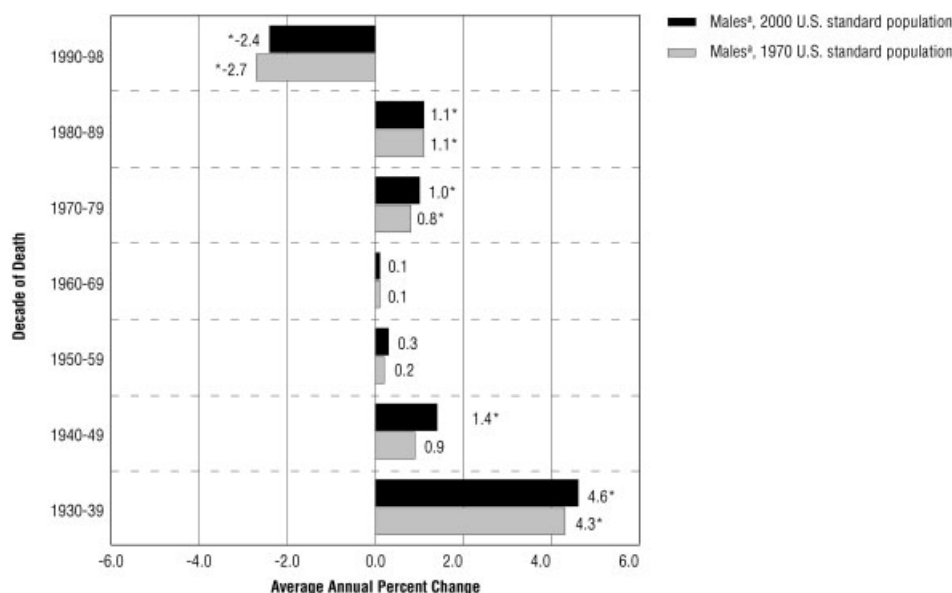


FIGURE 60. Average annual percent change^a in death rates for cancer of the prostate, by decade of death, 1930–1998, United States. ^aAverage annual percent change is based on rates adjusted to 2000 or 1970 U.S. standard population. *Average annual percent change is significantly different from zero ($p < 0.05$). Source: *Vital Statistics of the United States*^{10–14}; see also the section entitled “Cautions in the Interpretation of Long-Term Trends Data” in the current article.

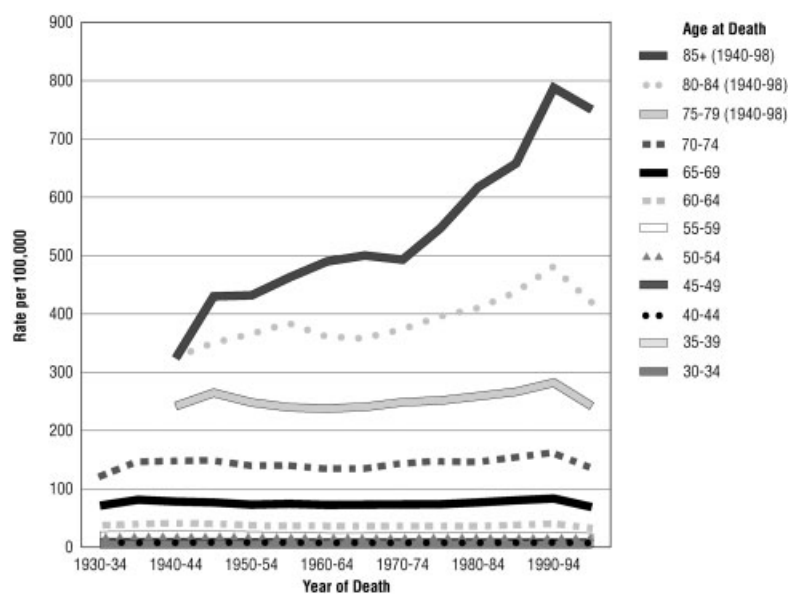


FIGURE 61. Male death rates for cancer of the prostate, by age at and year of death, 1930–1998, United States. Source: *Vital Statistics of the United States*^{10–14}; see also the section entitled “Cautions in the Interpretation of Long-Term Trends Data” in the current article.

TABLE 35
Average Annual Percent Change in Male Death Rates for Cancer of the Prostate, by Age at Death, 1930-1998, United States

	1930-39	1940-49	1950-59	1960-69	1970-79	1980-89	1990-98
Age							
0-19	na	-2.0	-9.6*	-2.0	-6.6	-2.6	na
20-24	0.0	na	1.4	na	na	na	na
25-29	4.1	na	-12.2	na	na	na	na
30-34	-0.3	0.5	na	na	na	na	1.9
35-39	-1.6	-5.9	-5.5	-8.1	-7.3	-5.1	1.6
40-44	1.8	-3.4	-3.8	-3.8	-7.3	-2.3	5.1*
45-49	0.1	-2.5*	-3.1	1.2	-0.1	-2.0	2.2
50-54	2.9*	0.2	-2.5*	-1.2	-0.4	0.1	-2.1*
55-59	1.2	-0.7	-1.0	-0.2	-0.3	1.1*	-2.9*
60-64	1.9*	-1.0	-0.3	-0.1	0.3	1.1*	-4.1*
65-69	2.8*	-1.2	0.5	0.2	0.2	0.9*	-4.0*
70-74	3.9*	-0.4	-0.1	0.1	0.7*	1.2*	-3.6*
75-79 ^a		1.4*	-0.6	0.2	0.4	0.7*	-3.1*
80-84 ^a		1.4*	0.8	-0.3	1.0*	1.2*	-2.5*
85+ ^a		5.6*	1.4*	0.4	2.2*	1.5*	-0.7

* Average annual percent change is significantly different from zero ($p < 0.05$).

^a Rates cannot be calculated for 75-79, 80-84, and 85+ because population data are only available for 75+ from 1930 to 1939.

na = not applicable; estimated annual percent change was not calculated because one or more age-specific rates was equal to zero.

Source: Vital Statistics of the United States [ref. 10-14]; see also *Cautions in the Interpretations of Long-Term Trends Data*.

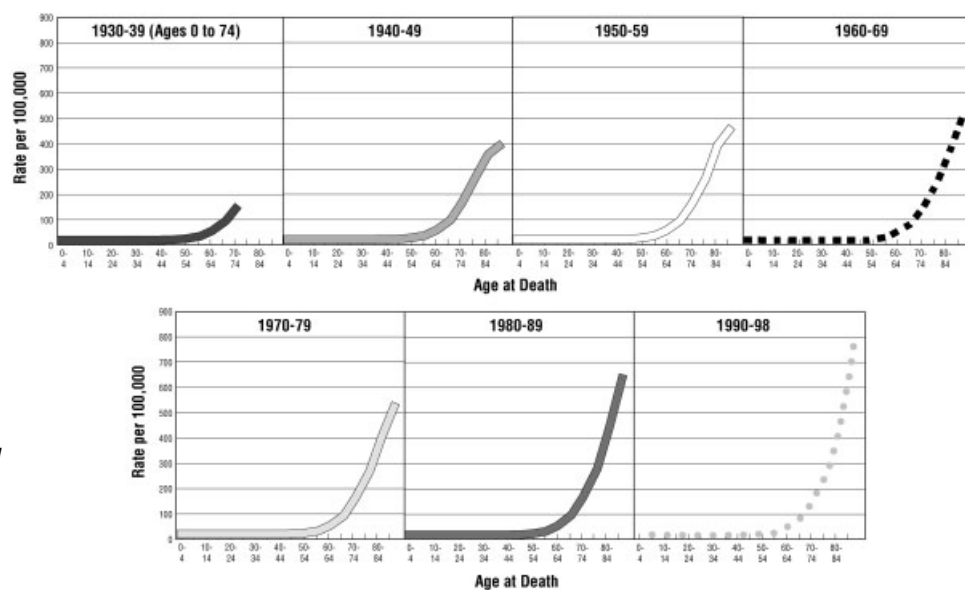


FIGURE 62. Male age-specific death rates for cancer of the prostate, separated by age at and decade of death, 1930–1998, United States. Source: *Vital Statistics of the United States*^{10–14}; see also the section entitled “Cautions in the Interpretation of Long-Term Trends Data” in the current article.

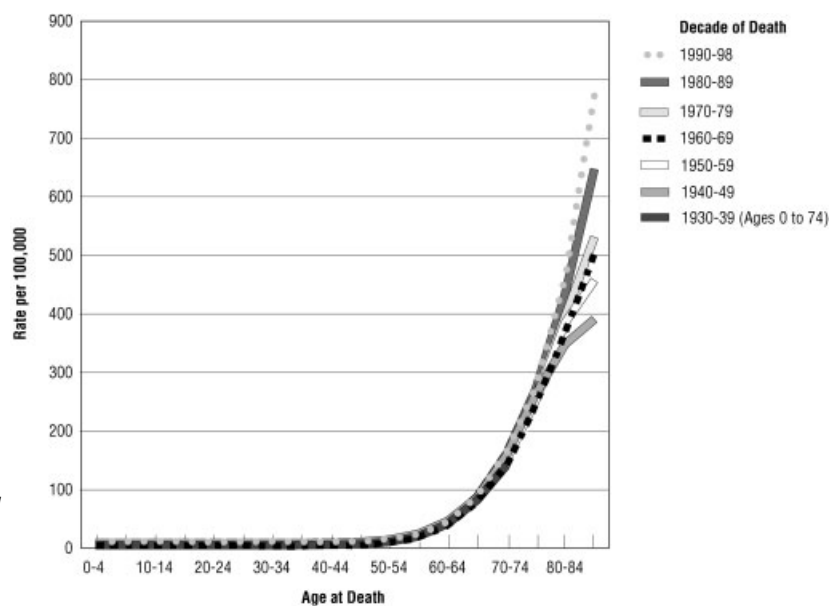


FIGURE 63. Male age-specific death rates for cancer of the prostate, by age at and decade of death, 1930–1998, United States. Source: *Vital Statistics of the United States*^{10–14}; see also the section entitled “Cautions in the Interpretation of Long-Term Trends Data” in the current article.

TABLE 36
Deaths and Death Rates for Cancer of the Stomach, by Gender and Year of Death, 1930-1998, United States

Year	Males				Females			
	Number	Rate			Number	Rate		
		Crude	1970 ^a	2000 ^b		Crude	1970 ^a	2000 ^b
1930	14,738	24.8	37.8	46.3	10,490	18.1	28.1	35.2
1931	14,818	24.8	37.2	45.7	10,384	17.8	27.1	33.8
1932	15,070	25.1	36.8	45.1	10,631	18.1	26.9	33.7
1933	15,706	24.8	36.1	44.2	10,860	17.5	25.9	32.5
1934	15,894	24.9	35.8	44.0	10,975	17.5	25.3	31.6
1935	16,077	25.1	35.5	43.7	11,027	17.5	24.9	31.4
1936	16,210	25.1	35.1	43.4	11,031	17.3	24.4	30.9
1937	16,150	24.9	34.3	42.5	10,758	16.8	23.1	29.2
1938	16,288	25.0	33.8	41.9	10,814	16.7	22.8	28.9
1939	15,910	24.2	32.5	40.3	10,277	15.8	21.2	26.9
1940	16,109	24.3	32.3	40.1	10,024	15.2	20.2	25.7
1941	15,754	23.5	30.9	38.5	9,811	14.8	19.2	24.6
1942	16,027	23.7	30.7	38.1	10,271	15.3	19.5	25.0
1943	15,854	23.1	29.7	36.9	9,866	14.5	18.3	23.5
1944	15,843	22.8	29.1	36.2	9,802	14.2	17.6	22.5
1945	15,916	22.7	28.5	35.5	9,916	14.2	17.3	22.2
1946	15,984	22.6	28.1	35.1	9,641	13.6	16.4	21.1
1947	16,295	22.6	28.0	35.0	9,672	13.4	16.0	20.7
1948	16,321	22.3	27.5	34.6	9,894	13.5	15.9	20.6
1949	15,632	21.0	25.7	32.3	9,159	12.2	14.2	18.5
1950	15,280	20.2	24.6	31.1	8,978	11.8	13.5	17.6
1951	14,966	19.5	23.5	29.7	8,717	11.2	12.7	16.5
1952	14,758	18.9	22.7	28.7	8,708	11.0	12.3	16.1
1953	14,752	18.6	22.2	28.1	8,621	10.7	11.8	15.6
1954	14,575	18.1	21.5	27.3	8,444	10.3	11.2	14.8
1955	14,119	17.2	20.3	25.8	8,138	9.8	10.5	13.7
1956	13,952	16.7	19.7	25.2	8,167	9.6	10.2	13.5
1957	13,542	16.0	18.7	23.9	7,980	9.2	9.7	12.7
1958	13,089	15.2	17.8	22.6	7,944	9.0	9.4	12.3
1959	13,271	15.1	17.7	22.6	7,753	8.7	8.9	11.8
1960	13,085	14.7	17.2	21.8	7,774	8.5	8.7	11.5
1961	12,647	13.9	16.3	20.9	7,466	8.0	8.1	10.7
1962	11,947	13.0	15.2	19.5	7,431	7.9	7.8	10.4
1963	11,896	12.7	15.0	19.4	7,404	7.7	7.6	10.2
1964	11,627	12.3	14.4	18.4	6,929	7.1	6.9	9.2
1965	11,059	11.6	13.5	17.5	6,968	7.1	6.8	9.0
1966	10,750	11.1	13.0	16.7	6,873	6.9	6.5	8.7
1967	10,396	10.7	12.4	16.1	6,654	6.6	6.2	8.2
1968	10,330	10.5	12.2	15.7	6,571	6.4	5.9	7.9
1969	10,000	10.1	11.7	15.0	6,429	6.2	5.7	7.5
1970	9,805	9.8	11.3	14.5	6,218	6.0	5.4	7.1
1971	9,421	9.3	10.7	13.8	6,170	5.8	5.2	6.8
1972	9,320	9.1	10.4	13.4	6,158	5.7	5.0	6.6
1973	9,178	8.9	10.1	13.0	6,020	5.6	4.8	6.3
1974	9,159	8.8	9.9	12.7	6,012	5.5	4.7	6.1
1975	8,955	8.5	9.5	12.2	6,026	5.4	4.6	6.0
1976	8,868	8.3	9.2	12.0	5,878	5.3	4.3	5.7
1977	8,688	8.1	8.9	11.5	5,753	5.1	4.1	5.4
1978	8,529	7.9	8.6	11.0	5,923	5.2	4.1	5.5
1979	8,650	7.9	8.5	11.0	5,859	5.1	4.0	5.2
1980	8,514	7.7	8.3	10.6	5,858	5.0	3.9	5.2
1981	8,631	7.7	8.2	10.6	5,797	4.9	3.8	5.0
1982	8,506	7.6	7.9	10.3	5,787	4.9	3.7	4.9
1983	8,362	7.4	7.7	9.9	5,790	4.8	3.6	4.8

(continued)

TABLE 36
(continued)

Year	Males				Females			
	Number	Rate			Number	Rate		
		Crude	1970 ^a	2000 ^b		Crude	1970 ^a	2000 ^b
1984	8,469	7.4	7.7	9.9	5,777	4.8	3.5	4.7
1985	8,345	7.2	7.4	9.5	5,606	4.6	3.4	4.4
1986	8,400	7.2	7.4	9.4	5,455	4.4	3.2	4.2
1987	8,241	7.0	7.1	9.1	5,501	4.4	3.2	4.2
1988	8,105	6.8	6.9	8.8	5,571	4.4	3.1	4.2
1989	8,520	7.1	7.1	9.2	5,666	4.5	3.1	4.2
1990	8,336	6.9	6.9	8.9	5,737	4.5	3.2	4.2
1991	8,569	7.0	6.9	8.9	5,656	4.4	3.0	4.0
1992	8,004	6.4	6.3	8.1	5,626	4.3	3.0	3.9
1993	8,229	6.5	6.4	8.2	5,621	4.3	2.9	3.9
1994	8,039	6.3	6.1	7.9	5,531	4.1	2.8	3.7
1995	8,010	6.2	6.0	7.7	5,635	4.2	2.8	3.7
1996	7,859	6.1	5.7	7.4	5,477	4.0	2.7	3.6
1997	7,766	5.9	5.5	7.2	5,296	3.9	2.6	3.4
1998	7,565	5.7	5.3	6.8	5,394	3.9	2.6	3.4

^a Rates are per 100,000 and are age-adjusted to the 1970 U.S. standard population.^b Rates are per 100,000 and are age-adjusted to the 2000 U.S. standard population.**Source:** Vital Statistics of the United States [ref. 10-14]; see also *Cautions in the Interpretations of Long-Term Trends Data*.

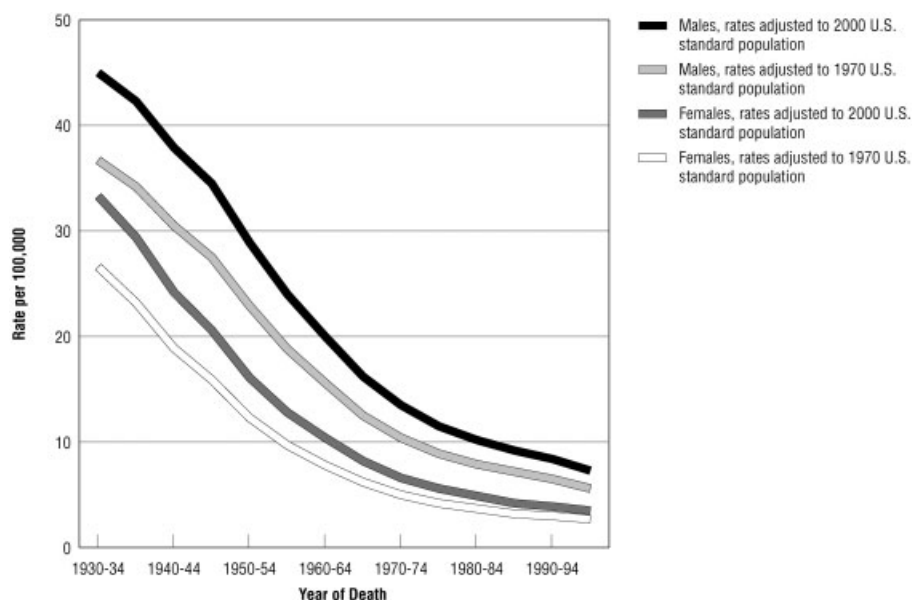


FIGURE 64. Death rates for cancer of the stomach, by gender and year of death, 1930–1998, United States. Source: *Vital Statistics of the United States*^{10–14}; see also the section entitled “Cautions in the Interpretation of Long-Term Trends Data” in the current article.

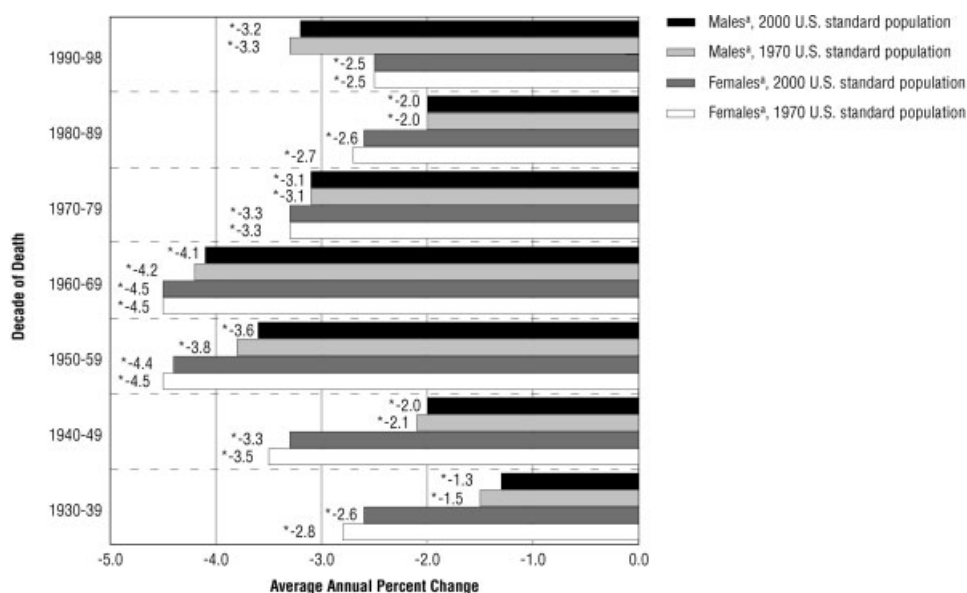


FIGURE 65. Average annual percent change^a in death rates for cancer of the stomach, by gender and decade of death, 1930–1998, United States. ^aAverage annual percent change is based on rates adjusted to 2000 or 1970 U.S. standard population. *Average annual percent change is significantly different from zero ($p < 0.05$). Source: *Vital Statistics of the United States*^{10–14}; see also the section entitled “Cautions in the Interpretation of Long-Term Trends Data” in the current article.

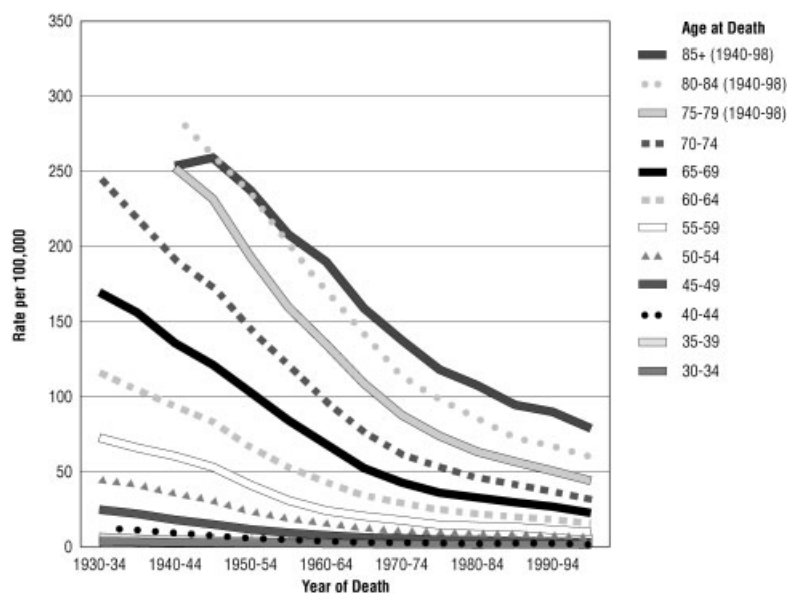


FIGURE 66. Male death rates for cancer of the stomach, by age at and year of death, 1930–1998, United States. Source: *Vital Statistics of the United States*^{10–14}; see also the section entitled “Cautions in the Interpretation of Long-Term Trends Data” in the current article.

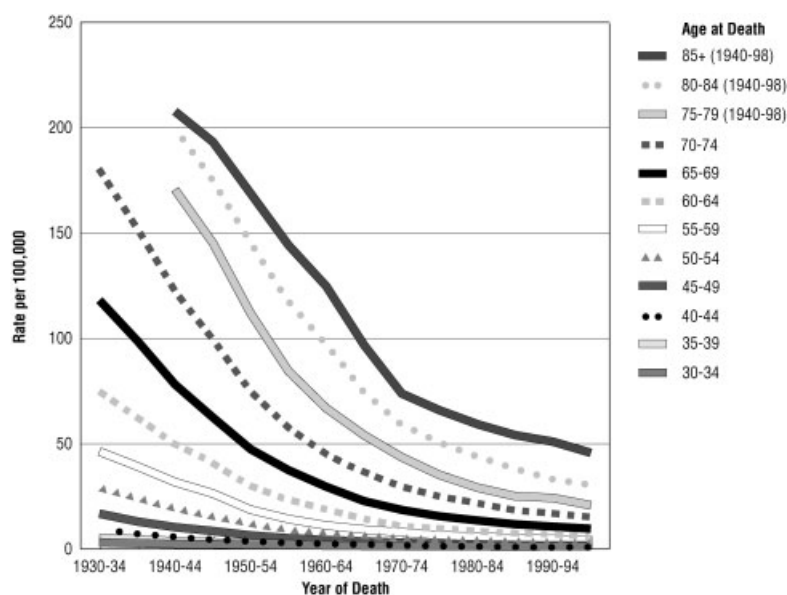


FIGURE 67. Female death rates for cancer of the stomach, by age at and year of death, 1930–1998, United States. Source: *Vital Statistics of the United States*^{10–14}; see also the section entitled “Cautions in the Interpretation of Long-Term Trends Data” in the current article.

TABLE 37
Male Deaths and Death Rates^a for Cancer of the Stomach, by Age at and Year of Death, 1930-1998, United States

Year	0-19		20-24		25-29		30-34		35-39		40-44		45-49		50-54		55-59		60-64		65-69		70-74		75-79 ^b		80-84 ^b		85+ ^b	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate
1930	16	0.1	14	0.3	45	1.0	104	2.4	251	5.6	532	13.3	918	26.0	1355	44.8	1831	71.7	2240	119.1	2472	179.1	2351	244.4	-	-	-	-	-	-
1931	9	0.0	16	0.3	45	1.0	111	2.5	249	5.6	525	12.9	865	24.2	1343	43.6	1787	73.3	2203	114.7	2491	176.0	2356	250.6	-	-	-	-	-	-
1932	9	0.0	19	0.4	49	1.0	84	1.9	238	5.9	492	11.8	917	25.4	1382	44.4	1890	75.0	2327	118.8	2472	181.8	2418	-	-	-	-	-	-	-
1933	13	0.1	11	0.2	39	0.8	86	1.8	265	5.9	559	12.7	998	26.0	1407	42.9	1922	67.7	2404	115.3	2561	184.6	2638	252.0	-	-	-	-	-	-
1934	11	0.0	21	0.4	45	0.9	110	2.3	242	5.4	477	10.7	916	23.4	1502	45.1	1965	71.3	2382	111.2	2569	180.5	2578	241.6	-	-	-	-	-	-
1935	13	0.1	22	0.4	47	0.9	92	1.9	202	4.5	494	11.1	970	24.3	1507	44.6	1946	68.4	2435	110.5	2627	193.7	2545	232.8	-	-	-	-	-	-
1936	13	0.1	18	0.3	49	0.9	94	1.9	233	5.1	503	11.3	924	22.8	1455	42.3	1962	65.4	2419	107.0	2750	162.8	2589	230.3	-	-	-	-	-	-
1937	14	0.1	19	0.3	44	0.8	88	1.8	214	4.7	525	11.9	917	22.2	1416	40.3	1905	66.1	2411	104.3	2731	157.5	2507	216.3	-	-	-	-	-	-
1938	11	0.0	11	0.2	43	0.8	104	2.1	213	4.6	501	11.4	918	22.0	1455	40.4	1936	66.1	2432	103.3	2738	133.5	2580	215.5	-	-	-	-	-	-
1939	14	0.1	14	0.2	39	0.7	94	1.9	177	3.8	465	10.6	837	19.9	1428	38.7	1897	63.7	2363	98.9	2715	148.1	2484	201.1	-	-	-	-	-	-
1940	5	0.0	17	0.3	39	0.7	84	1.6	185	3.9	444	10.0	822	19.5	1368	36.4	1864	61.3	2421	98.6	2781	147.6	2614	204.5	1974	271.2	1054	240.0	425	267.3
1941	11	0.0	10	0.2	43	0.8	96	1.9	199	4.1	430	9.6	804	18.9	1333	35.1	1917	61.9	2289	91.8	2678	138.5	2529	193.2	1888	250.4	1117	305.5	424	257.0
1942	6	0.0	12	0.2	27	0.5	66	1.3	138	3.2	390	8.6	810	18.9	1395	36.3	1886	58.2	2428	95.0	2781	140.0	2580	191.7	1917	249.6	1145	302.9	423	245.9
1943	*	**	7	0.1	33	0.6	73	1.4	185	3.7	417	9.0	751	17.3	1342	34.5	1962	61.1	2424	92.7	2627	128.9	2554	184.7	1988	251.6	1021	264.5	455	255.6
1944	*	**	15	0.2	40	0.7	84	1.6	166	3.3	390	8.1	731	16.7	1325	33.7	1952	58.8	2401	89.8	2616	125.2	2624	184.9	1960	241.1	1089	276.4	448	244.8
1945	15	0.1	14	0.2	39	0.7	77	1.4	172	3.4	392	8.3	682	15.4	1358	34.1	1883	56.7	2461	89.9	2612	121.5	2662	182.2	2002	237.8	1065	280.4	472	245.8
1946	10	0.0	10	0.2	36	0.6	86	1.6	184	3.6	351	7.3	688	15.4	1294	32.2	1908	56.5	2383	85.2	2683	121.8	2670	178.0	2076	238.3	1077	251.6	520	262.6
1947	11	0.0	31	0.5	39	0.7	72	1.3	168	3.2	327	6.7	685	15.3	1248	30.8	1844	53.6	2419	84.5	2896	128.4	2670	173.7	2126	235.4	1220	268.9	533	258.7
1948	12	0.0	11	0.2	36	0.6	80	1.4	174	3.3	359	7.3	702	15.6	1223	30.0	1868	53.2	2347	80.1	2774	120.3	2695	171.7	2193	234.8	1250	263.2	591	274.9
1949	8	0.0	9	0.2	25	0.4	54	1.0	188	3.4	340	6.8	638	14.1	1093	26.6	1884	46.9	2319	77.2	2723	115.3	2605	162.2	2077	214.6	1282	257.4	575	253.3
1950	8	0.0	7	0.1	28	0.5	63	1.1	139	2.9	307	6.0	626	13.8	1032	25.0	1646	45.1	2198	72.1	2612	107.0	2576	157.2	2108	210.4	1271	245.8	629	259.9
1951	12	0.0	10	0.2	24	0.4	56	1.0	167	3.0	306	5.9	566	12.2	1016	24.4	1597	43.1	2132	68.8	2695	107.7	2502	148.6	2004	192.9	1219	232.6	651	250.4
1952	6	0.0	6	0.1	21	0.4	66	1.1	114	2.0	318	6.1	543	11.5	967	23.2	1536	41.0	2095	66.2	2634	103.0	2491	143.5	2061	192.3	1264	237.1	630	227.4
1953	10	0.0	14	0.3	18	0.3	69	1.2	148	2.6	294	5.5	554	11.3	912	21.7	1556	41.4	2043	63.4	2634	100.8	2472	138.0	2079	188.3	1287	235.7	656	224.7
1954	9	0.0	7	0.1	31	0.5	52	0.9	160	2.8	270	5.0	506	10.3	951	21.8	1389	36.2	1986	60.7	2591	97.1	2584	138.9	2063	184.1	1278	226.6	705	229.6
1955	8	0.0	8	0.2	20	0.3	61	1.0	127	2.2	256	4.7	539	10.8	882	20.0	1302	34.0	1888	56.9	2550	93.9	2515	130.6	2009	171.6	1285	218.9	681	212.1
1956	7	0.0	9	0.2	19	0.3	46	0.8	147	2.5	284	5.2	497	9.8	854	19.5	1271	32.8	1896	54.6	2409	87.5	2513	126.5	2048	170.4	1281	210.3	727	221.0
1957	5	0.0	6	0.1	21	0.4	54	0.9	118	2.0	255	4.6	455	8.8	841	18.8	1174	30.0	1855	54.3	2337	83.3	2502	122.6	1959	157.9	1272	202.2	707	206.6
1958	7	0.0	9	0.2	15	0.3	51	0.8	142	2.4	236	4.2	468	8.9	776	17.0	1132	25.0	1655	49.1	2303	80.8	2448	117.0	1945	152.4	1222	190.0	655	189.9
1959	*	**	7	0.1	18	0.3	59	1.0	118	1.9	254	4.5	524	9.9	787	16.9	1216	23.9	1660	49.0	2231	77.2	2434	113.3	1963	148.2	1250	188.7	744	209.6
1960	*	**	5	0.1	15	0.3	46	0.8	123	2.0	233	4.1	449	8.4	818	17.3	1175	26.5	1680	49.6	2284	77.9	2382	108.1	1961	144.3	1233	185.4	684	189.0
1961	*	**	9	0.2	22	0.4	51	0.9	134	2.2	241	4.1	471	8.7	776	16.0	1012	23.8	1511	44.0	2121	71.8	2289	101.2	2043	145.4	1251	176.7	731	196.0
1962	*	**	7	0.1	11	0.2	49	0.9	123	2.0	212	3.6	389	7.1	766	15.5	1029	23.8	1450	42.0	1897	64.2	2191	96.0	1886	132.3	1234	170.4	689	184.2
1963	8	0.0	6	0.1	17	0.3	51	0.9	110	1.8	249	4.2	412	7.7	675	13.5	1045	23.7	1406	40.4	1917	65.0	2061	88.0	1928	132.6	1238	165.7	760	201.6
1964	*	**	6	0.1	16	0.3	39	0.7	105	1.8	208	3.4	414	7.5	751	14.9	987	21.9	1419	40.3	1878	63.5	2141	91.5	1802	121.8	1165	130.7	694	178.3
1965	5	0.0	*	**	14	0.2	33	0.6	83	1.4	225	3.7	361	6.5	630	12.4	983	21.4	1349	37.7	1884	56.7	2035	86.6	1723	114.9	1256	138.0	673	169.1
1966	*	**	13	0.2	13	0.2	40	0.7	114	2.0	196	3.2	395	7.0	680	13.2	949	20.4	1263	34.5	1646	55.1	1838	78.3	1731	113.7	1222	149.9	643	157.2
1967	*	**	*	**	24	0.4	43	0.8	85	1.5	206	3.4	365	6.4	633	12.2	961	20.5	1263	33.6	1538	51.0	1754	75.0	1665	107.6	1142	136.9	713	186.9
1968	*	**	8	0.1	13	0.2	25	0.5	77	1.4	163	2.7	368	6.4	664	11.3	965	20.4	1259	32.6	1554	51.1	1759	75.7	1702	108.7	138.6	136.6	654	148.6
1969	*	**	7	0.1	16	0.2	40	0.7	67	1.2	183	3.1	361	6.2	591	11.2	967	20.4	1242	31.3	1514	49.2	1629	70.3	1574	99.9	1099	127.2	706	153.8

(continued)

TABLE 37
(continued)

Year	0-19		20-24		25-29		30-34		35-39		40-44		45-49		50-54		55-59		60-64		65-69		70-74		75-79 ^b		80-84 ^b		85+ ^b		
	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	
1970	*	**	6	0.1	16	0.2	34	0.6	91	1.7	178	3.0	366	6.2	586	10.9	927	19.4	1262	31.3	1522	48.7	1577	68.1	1452	93.0	1097	125.2	685	140.1	1970
1971	*	**	7	0.1	20	0.3	29	0.5	69	1.3	154	2.7	335	6.1	569	10.4	848	17.6	1194	28.9	1385	43.2	1491	63.9	1455	90.5	1079	119.2	761	149.2	1971
1972	*	**	*	**	16	0.2	44	0.7	72	1.3	154	2.7	310	5.3	540	9.6	862	17.8	1286	30.5	1408	42.7	1430	61.4	1450	89.6	1020	106.6	720	137.9	1972
1973	*	**	5	0.1	14	0.2	39	0.6	83	1.5	159	2.8	332	6.1	553	9.7	842	17.3	1172	27.4	1416	41.8	1432	60.5	1351	84.0	1028	107.3	727	135.1	1973
1974	*	**	6	0.1	9	0.1	24	0.4	71	1.3	155	2.8	323	5.6	552	9.6	847	17.2	1247	28.8	1366	39.2	1452	60.3	1339	82.8	1040	107.4	724	128.1	1974
1975	*	**	6	0.1	22	0.3	31	0.4	58	1.0	142	2.6	279	4.9	578	10.1	779	15.4	1171	26.8	1388	38.6	1461	59.9	1284	78.3	995	101.4	748	125.9	1975
1976	*	**	6	0.1	23	0.3	41	0.6	70	1.2	130	2.4	267	4.7	546	9.5	780	15.1	1099	24.9	1398	38.0	1352	54.1	1353	80.4	1045	103.7	753	124.3	1976
1977	*	**	*	**	15	0.2	38	0.5	82	1.4	155	2.8	289	4.8	501	8.8	813	15.3	1135	25.5	1291	34.4	1413	54.5	1254	73.7	985	96.9	729	116.3	1977
1978	*	**	*	**	13	0.1	39	0.5	64	1.0	130	2.3	279	5.1	538	9.5	716	13.3	1112	24.7	1356	35.5	1374	51.3	1234	70.0	960	95.7	707	108.4	1978
1979	*	**	5	0.0	19	0.2	52	0.6	61	0.9	112	2.0	250	4.6	497	8.8	819	15.0	1089	23.8	1349	34.8	1439	52.0	1249	68.4	914	91.0	791	117.0	1979
1980	*	**	11	0.1	19	0.2	39	0.4	66	1.0	134	2.3	249	4.6	468	8.3	729	13.3	1123	24.0	1367	35.0	1394	48.8	1252	67.7	917	90.0	743	108.9	1980
1981	*	**	5	0.0	22	0.2	40	0.4	70	1.0	152	2.6	274	5.1	459	8.2	812	14.9	1044	21.7	1358	34.3	1421	48.4	1291	67.6	914	87.2	765	109.1	1981
1982	*	**	12	0.1	28	0.3	40	0.4	68	0.9	120	2.0	252	4.7	442	8.0	741	13.7	1118	22.8	1294	32.3	1472	49.1	1193	60.7	885	83.3	827	115.3	1982
1983	*	**	*	**	26	0.2	43	0.5	80	1.0	126	2.0	233	4.3	430	8.0	772	14.3	1088	21.0	1279	31.4	1388	45.4	1282	64.0	901	81.8	748	102.2	1983
1984	*	**	*	**	22	0.2	45	0.5	73	0.9	137	2.0	258	4.6	439	8.3	729	13.6	1064	21.2	1317	32.0	1421	45.7	1208	58.3	982	86.8	770	103.1	1984
1985	*	**	8	0.1	17	0.2	56	0.6	91	1.0	161	2.3	236	4.0	457	8.7	727	13.6	1032	20.4	1283	30.7	1443	45.7	1199	56.3	889	77.3	744	97.8	1985
1986	5	0.0	6	0.1	24	0.2	56	0.6	104	1.1	162	2.3	267	4.6	414	7.9	732	13.8	996	19.8	1313	30.7	1404	43.9	1323	60.5	837	68.9	756	97.0	1986
1987	*	**	*	**	15	0.1	43	0.4	108	1.2	182	2.4	225	3.7	375	7.2	672	12.9	1007	20.2	1303	29.8	1376	42.4	1315	58.6	863	69.8	752	94.2	1987
1988	*	**	6	0.1	11	0.1	53	0.5	86	0.9	176	2.2	233	3.7	406	7.6	675	13.2	1015	20.3	1264	28.7	1307	39.6	1250	54.3	908	71.0	715	88.3	1988
1989	*	**	8	0.1	20	0.2	44	0.4	95	1.0	151	1.8	278	4.2	442	8.1	668	13.3	992	20.0	1294	28.0	1437	42.8	1292	54.9	996	75.3	801	96.4	1989
1990	*	**	7	0.1	15	0.1	37	0.3	97	1.0	200	2.3	275	4.1	442	8.0	628	12.5	895	18.1	1252	27.8	1401	41.2	1329	55.6	938	68.2	816	97.0	1990
1991	*	**	11	0.1	17	0.2	55	0.5	119	1.2	216	2.3	273	4.0	433	7.7	623	12.5	1020	20.6	1310	29.2	1330	37.6	1370	55.1	966	68.6	826	93.1	1991
1992	7	0.0	7	0.1	18	0.2	41	0.4	121	1.2	164	1.8	277	3.7	389	6.6	572	11.4	835	17.1	1214	27.1	1381	37.8	1220	47.8	937	64.4	821	88.9	1992
1993	*	**	8	0.1	17	0.2	48	0.4	107	1.0	207	2.2	277	3.5	416	6.7	563	11.0	884	18.4	1172	26.0	1427	38.3	1262	48.5	1003	66.6	836	86.7	1993
1994	*	**	*	**	26	0.3	62	0.6	86	0.8	201	2.1	281	3.4	406	6.3	562	10.7	832	17.6	1121	24.9	1343	35.4	1257	47.2	997	64.1	859	85.6	1994
1995	*	**	9	0.1	18	0.2	36	0.3	98	0.9	170	1.7	313	3.7	434	6.5	571	10.7	816	17.3	1074	23.8	1338	34.9	1251	45.8	998	61.8	883	84.5	1995
1996	*	**	10	0.1	16	0.2	46	0.4	110	1.0	175	1.7	265	2.9	371	5.5	567	10.4	761	16.2	1011	22.4	1316	34.1	1291	45.6	1005	60.1	913	84.1	1996
1997	*	**	*	**	21	0.2	48	0.5	103	0.9	198	1.9	287	3.2	426	5.8	559	9.9	709	14.9	1020	22.8	1192	31.2	1300	44.4	1036	60.2	862	76.1	1997
1998	*	**	7	0.1	21	0.2	48	0.5	101	0.9	178	1.6	296	3.2	424	5.5	533	9.0	680	14.0	978	22.3	1204	31.2	1231	41.1	1001	56.7	862	72.6	1998

^a Rates are per 100,000.^b Rates cannot be calculated for 75-79, 80-84, and 85+ because population data are only available for 75+ from 1930 to 1939.

* Number of deaths is fewer than 5.

** Rate is not calculated since number of deaths is fewer than 5.

Source: Vital Statistics of the United States [ref. 10-14]; see also *Cautions in the Interpretations of Long-Term Trends Data*.

Article continues on next page.

TABLE 38
Average Annual Percent Change in Death Rates for Cancer of the Stomach, by Gender and Age at Death, 1930-1998, United States

Age	1930-39	1940-49	1950-59	1960-69	1970-79	1980-89	1990-98
Males							
0-19	1.4	6.3	-11.3*	-3.1	-1.5	na	na
20-24	-1.9	0.5	-0.3	-4.7	-4.4	-2.7	-5.6
25-29	-2.6*	-3.0	-3.4	-2.2	-3.5	-5.9	4.9
30-34	-2.4	-3.7	-2.4	-3.9	-1.1	0.4	2.1
35-39	-4.0*	-1.7	-3.3	-5.5*	-4.7*	1.0	-2.6
40-44	-1.9*	-4.3*	-4.0*	-3.8*	-3.0*	-1.1	-3.8*
45-49	-2.4*	-3.4*	-4.1*	-3.5*	-3.3*	-2.5*	-3.4*
50-54	-1.4*	-2.9*	-4.5*	-4.6*	-1.8*	-0.8	-4.5*
55-59	-2.0*	-2.5*	-5.2*	-3.2*	-3.3*	-0.8	-3.7*
60-64	-2.0*	-2.4*	-4.4*	-4.7*	-2.9*	-1.8*	-3.5*
65-69	-1.9*	-2.3*	-3.8*	-4.9*	-3.4*	-2.1*	-3.4*
70-74	-2.2*	-2.1*	-3.4*	-4.5*	-2.9*	-2.1*	-3.2*
75-79 ^a		-1.8*	-3.7*	-4.1*	-3.4*	-2.3*	-3.3*
80-84 ^a		-1.8*	-2.9*	-3.8*	-3.1*	-2.7*	-2.3*
85+ ^a		0.2	-2.7*	-3.0*	-3.0*	-2.3*	-3.1*
Age	1930-39	1940-49	1950-59	1960-69	1970-79	1980-89	1990-98
Females							
0-19	-0.8	-12.3*	na	-6.4	na	na	-3.8
20-24	-3.1	-1.3	0.6	-2.7	6.8	na	2.0
25-29	-2.5	-4.2	-3.5	-1.3	0.4	1.8	2.7
30-34	-4.5*	-2.9*	-3.3	-4.3	-3.4	0.2	1.7
35-39	-3.5*	-3.8*	-3.2*	-2.9*	-6.0*	-2.0	1.0
40-44	-5.0*	-4.3*	-2.6*	-4.3*	-3.8*	-3.7*	1.1
45-49	-4.9*	-4.1*	-4.0*	-3.7*	-4.4*	-3.4*	-1.0
50-54	-3.7*	-3.9*	-5.4*	-3.4*	-3.4*	-3.2*	-3.5*
55-59	-3.3*	-3.7*	-5.4*	-3.5*	-3.6*	-3.0*	-3.3*
60-64	-3.2*	-3.4*	-4.6*	-5.4*	-2.5*	-2.4*	-3.4*
65-69	-3.5*	-4.5*	-4.4*	-5.1*	-3.2*	-2.4*	-2.4*
70-74	-3.4*	-4.1*	-5.0*	-4.4*	-3.2*	-3.2*	-2.5*
75-79 ^a		-3.3*	-5.2*	-4.6*	-4.2*	-2.8*	-2.9*
80-84 ^a		-2.6*	-4.1*	-5.0*	-3.3*	-2.6*	-2.2*
85+ ^a		-1.4*	-2.8*	-4.4*	-2.6*	-1.9*	-2.6*

* Average annual percent change is significantly different from zero ($p < 0.05$).

^a Rates cannot be calculated for 75-79, 80-84, and 85+ because population data are only available for 75+ from 1930 to 1939.

na = not applicable; estimated annual percent change was not calculated because one or more age-specific rates was equal to zero.

Source: Vital Statistics of the United States [ref. 10-14]; see also *Cautions in the Interpretations of Long-Term Trends Data*.

TABLE 39
Female Deaths and Death Rates^a for Cancer of the Stomach, by Age at and Year of Death, 1930-1998, United States

Year	0-19		20-24		25-29		30-34		35-39		40-44		45-49		50-54		55-59		60-64		65-69		70-74		75-79 ^b		80-84 ^b		85+ ^b		
	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	
1930	14	0.1	13	0.2	49	1.0	105	2.4	215	5.0	418	11.2	587	18.1	861	31.2	1091	50.4	1327	75.4	1645	124.4	1788	188.9	-	-	-	-	-	-	1300
1931	9	0.0	15	0.3	33	0.7	100	2.3	201	4.7	348	9.1	573	17.4	853	30.3	1036	46.0	1406	70.0	1653	121.4	1734	180.1	-	-	-	-	-	-	1301
1932	8	0.0	20	0.4	42	0.9	113	2.5	203	4.52	368	9.4	588	17.6	792	27.6	1110	47.5	1373	74.3	1714	122.0	1780	178.5	-	-	-	-	-	-	1302
1933	6	0.0	21	0.4	31	0.6	92	1.9	177	4.0	344	8.2	533	15.0	821	27.1	1109	44.3	1485	75.9	1694	112.8	1891	181.0	-	-	-	-	-	-	1303
1934	13	0.1	16	0.3	47	0.9	84	1.7	199	4.5	371	8.7	589	16.3	857	27.9	1125	43.8	1455	71.5	1729	111.5	1835	171.2	-	-	-	-	-	-	1304
1935	8	0.0	19	0.3	51	1.0	94	1.9	195	4.4	365	8.5	550	14.8	802	25.6	1134	43.2	1422	67.6	1702	106.4	1861	188.7	-	-	-	-	-	-	1305
1936	9	0.0	7	0.1	42	0.8	75	1.5	202	4.5	320	8.1	531	14.0	818	25.7	1063	38.8	1433	66.0	1737	106.2	1814	159.4	-	-	-	-	-	-	1306
1937	5	0.0	21	0.4	38	0.7	90	1.8	198	4.3	354	7.5	528	13.6	793	24.3	1055	38.9	1384	62.5	1704	98.8	1762	150.0	-	-	-	-	-	-	1307
1938	13	0.1	16	0.3	35	0.6	84	1.7	159	3.4	271	6.3	474	12.0	791	23.7	1044	37.9	1425	62.6	1714	96.9	1823	150.0	-	-	-	-	-	-	1308
1939	11	0.0	12	0.2	38	0.7	89	1.7	139	3.1	287	6.6	462	11.5	720	21.0	1028	36.7	1320	56.9	1811	87.9	1672	132.8	-	-	-	-	-	-	1309
1940	8	0.0	17	0.3	44	0.8	80	1.5	151	3.1	284	6.5	442	11.1	706	20.1	946	33.0	1249	52.9	1584	83.5	1721	146.8	186.8	84.8	202.4	45.7	216.6	1390	
1941	8	0.0	10	0.2	32	0.6	78	1.5	154	3.1	276	6.2	434	9.8	654	18.2	939	32.0	1218	50.1	1583	80.9	1682	124.8	138.5	171.8	87.4	208.2	46.6	211.8	1391
1942	10	0.0	6	0.1	28	0.5	76	1.4	150	3.0	246	5.4	462	11.0	749	20.5	989	32.9	1284	51.8	1644	81.5	1734	124.3	144.2	171.1	93.3	208.7	50.3	218.7	1392
1943	7	0.0	10	0.2	27	0.5	75	1.4	141	2.8	245	5.3	430	10.1	685	18.4	918	29.8	1255	48.1	1529	73.5	1684	115.5	151.1	173.1	90.5	196.7	47.9	200.4	1393
1944	*	**	8	0.1	30	0.5	72	1.3	144	2.8	264	5.6	397	9.2	656	17.3	984	31.3	1284	48.0	1545	72.2	1671	112.4	137.8	152.6	89.9	190.7	47.7	193.1	1394
1945	*	**	8	0.1	26	0.4	75	1.4	132	2.9	265	5.6	427	9.7	638	16.6	978	30.4	1202	44.4	1578	71.4	1645	106.9	147.6	157.0	94.8	192.7	48.7	187.3	1395
1946	8	0.0	10	0.2	26	0.4	69	1.2	147	2.8	230	4.8	399	9.0	612	15.6	892	27.1	1169	42.1	1454	63.9	1701	107.0	147.8	151.4	92.9	179.7	51.2	188.2	1396
1947	*	**	7	0.1	25	0.4	72	1.3	135	2.5	221	4.5	389	8.7	606	15.2	879	26.0	1195	42.0	1492	63.7	1632	98.5	146.9	144.6	96.6	176.6	57.3	199.7	1397
1948	6	0.0	15	0.3	36	0.6	83	1.4	145	2.6	233	4.7	386	8.1	629	15.6	906	26.1	1223	41.9	1448	60.0	1640	97.0	189.9	141.8	103.2	178.5	206.6	194.8	
1949	*	**	9	0.2	24	0.4	59	1.0	111	2.0	211	4.2	336	7.4	556	13.6	806	22.6	1140	38.1	1356	54.6	1518	87.0	147.6	133.9	95.3	156.2	59.5	184.2	1398
1950	6	0.0	7	0.1	27	0.4	73	1.2	114	2.0	199	3.9	296	6.5	564	13.6	779	21.5	1035	34.1	1341	51.6	1477	82.2	141.2	122.9	101.9	130.0	62.0	178.7	1399
1951	*	**	6	0.1	23	0.4	69	1.1	116	2.0	203	3.9	325	7.0	503	12.0	744	20.0	1024	32.8	1311	49.0	1448	77.8	134.9	112.3	97.0	146.3	61.7	168.1	1351
1952	5	0.0	6	0.1	20	0.3	67	1.1	103	1.8	197	3.3	335	7.0	594	12.0	737	19.5	938	29.1	1260	46.0	1473	76.1	130.0	110.5	102.7	146.7	64.6	167.4	1352
1953	8	0.0	*	**	28	0.5	48	0.8	123	2.1	183	3.4	297	6.1	467	11.0	652	17.1	924	27.8	1295	46.1	1466	72.9	141.5	109.3	103.6	144.7	67.1	165.3	1353
1954	5	0.0	6	0.1	19	0.3	56	0.9	116	2.0	189	3.4	292	5.8	437	10.1	619	16.0	924	27.1	1295	44.9	1346	64.0	142.2	105.9	100.2	134.0	71.2	166.0	1354
1955	*	**	7	0.1	31	0.5	53	0.8	111	1.9	186	3.3	280	5.5	404	9.2	625	15.9	921	26.3	1313	38.0	1378	62.9	132.5	95.1	99.5	127.1	66.6	147.0	1355
1956	*	**	*	**	20	0.3	64	1.0	110	1.8	203	3.6	284	5.5	438	9.8	589	14.7	870	24.3	1216	40.3	1316	57.9	90.1	102.8	125.7	71.8	151.8	195.6	1356
1957	5	0.0	6	0.1	23	0.4	50	0.8	99	1.6	155	2.7	249	5.5	392	8.6	610	15.1	863	23.8	1216	39.2	1313	56.0	125.6	83.5	96.7	114.0	73.2	147.6	1357
1958	*	**	6	0.1	11	0.2	44	0.7	105	1.7	179	3.1	277	5.1	408	8.7	565	13.7	843	23.1	1160	36.4	1300	56.2	127.7	81.6	115.6	69.1	133.7	195.8	
1959	6	0.0	8	0.1	19	0.3	65	1.1	89	1.4	194	3.3	255	4.7	383	8.0	530	12.5	825	22.4	1074	32.9	1337	53.5	121.6	71.1	97.5	108.6	77.6	142.6	1359
1960	*	**	*	**	15	0.3	60	1.0	93	1.5	175	3.0	256	4.6	392	8.0	560	13.0	802	21.5	1082	32.5	1287	50.4	133.2	78.6	94.7	108.6	71.8	126.6	1360
1961	*	**	*	**	18	0.3	49	0.8	94	1.5	176	2.9	232	4.2	362	7.2	471	10.6	753	20.0	1084	31.8	1238	46.4	122.8	69.3	99.7	102.0	75.5	127.5	1361
1962	*	**	5	0.1	13	0.2	32	0.5	102	1.6	162	2.6	252	4.5	379	7.4	508	11.2	717	18.8	1037	30.0	1246	45.1	119.0	64.9	100.9	98.2	77.3	127.1	1362
1963	8	0.0	7	0.1	20	0.4	29	0.5	95	1.5	164	2.6	254	4.5	351	6.7	537	9.8	705	17.9	969	27.7	1238	43.4	118.9	63.5	101.7	94.7	82.6	131.7	1363
1964	7	0.0	6	0.1	14	0.2	49	0.9	67	1.1	156	2.5	228	4.0	340	6.4	471	9.8	706	18.0	931	26.3	1083	37.0	106.0	59.5	97.9	86.9	73.0	111.8	1364
1965	*	**	5	0.1	18	0.3	25	0.4	75	1.2	150	2.4	241	4.1	346	6.5	508	10.3	662	16.6	849	23.7	1191	39.9	123.7	61.5	95.9	81.5	69.9	102.2	1365
1966	*	**	8	0.1	15	0.3	37	0.7	79	1.3	154	2.4	218	3.7	335	6.2	471	9.4	664	16.2	912	25.2	1008	35.9	116.6	56.1	97.4	73.6	75.0	104.5	1366
1967	*	**	5	0.1	17	0.3	32	0.6	70	1.2	121	1.9	226	3.7	333	6.0	434	8.5	594	14.0	884	23.5	1101	36.0	116.3	54.1	95.7	75.2	73.5	96.7	1367
1968	*	**	*	**	20	0.3	28	0.5	71	1.2	128	2.0	200	3.3	363	6.5	447	8.7	621	14.2	805	21.6	1068	34.6	112.2	50.7	99.4	71.0	75.8	94.8	1368
1969	*	**	*	**	15	0.2	36	0.6	69	1.2	134	2.2	205	3.3	303	5.3	501	9.7	561	12.5	765	20.1	1024	33.0	111.2	49.0	94.8	68.6	74.8	88.2	1369

continued

TABLE 39
(continued)

Year	0-19		20-24		25-29		30-34		35-39		40-44		45-49		50-54		55-59		60-64		65-69		70-74		75-79 ^b		80-84 ^b		85+ ^b	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate
1970	*	**	8	0.1	8	0.1	17	0.3	67	1.2	111	1.8	209	3.3	288	5.0	450	8.6	582	12.7	787	20.3	947	30.2	1089	47.8	923	65.5	732	79.7
1971	*	**	5	0.1	15	0.2	34	0.6	59	1.0	114	1.9	185	2.9	305	5.2	430	8.2	543	11.5	793	20.0	954	30.0	1067	44.8	909	60.6	754	77.2
1972	*	**	*	**	12	0.2	40	0.6	80	1.4	132	2.2	176	3.1	288	4.8	426	8.0	560	11.6	784	19.1	914	28.7	1046	43.0	924	58.7	772	75.7
1973	*	**	8	0.1	19	0.2	38	0.6	62	1.1	89	1.5	190	3.8	285	4.6	419	7.8	536	10.9	735	17.3	908	28.0	1028	41.9	927	56.3	773	72.3
1974	5	0.0	5	0.1	16	0.2	38	0.5	70	1.2	99	1.7	202	3.3	269	4.3	393	7.2	577	11.6	733	16.7	922	27.9	1022	40.7	907	53.8	754	66.1
1975	*	**	5	0.1	19	0.2	26	0.4	49	0.8	90	1.6	181	3.0	304	4.9	410	7.3	576	11.4	710	15.7	887	26.5	1016	39.2	928	53.6	822	67.0
1976	*	**	7	0.1	14	0.2	27	0.4	46	0.8	84	1.5	134	2.2	271	4.3	376	6.6	502	9.9	730	15.7	844	24.7	989	37.1	912	50.9	941	72.9
1977	*	**	11	0.1	16	0.2	33	0.4	39	0.6	90	1.6	162	2.7	249	4.0	377	6.4	526	10.2	705	14.9	821	23.1	925	34.1	909	49.7	888	65.1
1978	*	**	11	0.1	14	0.1	22	0.3	58	0.9	94	1.6	141	2.4	229	3.7	390	6.5	511	9.8	770	16.0	889	23.5	988	34.5	913	49.7	929	64.4
1979	*	**	9	0.1	17	0.2	36	0.4	55	0.8	72	1.2	113	2.0	233	3.8	386	6.3	527	9.9	776	16.0	906	23.7	918	31.7	878	46.9	933	61.3
1980	*	**	*	**	18	0.2	42	0.5	44	0.6	74	1.2	139	2.4	222	3.6	389	6.3	503	9.3	659	13.5	889	22.5	943	32.0	881	46.0	1053	67.5
1981	*	**	*	**	13	0.1	33	0.3	60	0.8	82	1.3	123	2.2	242	4.0	371	6.1	506	9.1	670	13.6	906	22.3	886	29.1	885	44.8	1016	61.6
1982	*	**	7	0.1	18	0.2	34	0.4	59	0.7	104	1.6	127	2.3	222	3.8	369	6.1	520	9.2	718	14.4	858	20.7	932	29.7	848	41.8	968	56.3
1983	*	**	9	0.1	13	0.1	38	0.4	61	0.7	85	1.3	135	2.4	217	3.8	340	5.6	486	8.5	711	14.1	888	21.0	917	28.5	914	43.7	973	54.5
1984	5	0.0	8	0.1	19	0.2	34	0.3	68	0.8	90	1.3	144	2.5	234	4.1	336	5.6	485	8.4	642	12.6	863	20.1	888	26.9	887	41.7	1064	57.6
1985	*	**	7	0.1	18	0.2	37	0.4	52	0.6	83	1.2	131	2.2	208	3.7	340	5.8	502	8.6	684	12.3	797	18.3	881	26.0	856	38.6	1059	55.6
1986	*	**	7	0.1	17	0.2	46	0.4	69	0.7	91	1.2	123	2.0	169	3.0	313	5.4	480	8.2	596	11.3	772	17.6	868	25.1	873	38.2	1029	52.4
1987	*	**	10	0.1	22	0.2	39	0.4	60	0.6	68	0.9	118	1.9	173	3.1	280	4.9	461	8.0	660	12.3	783	17.6	895	25.3	889	37.7	1039	51.3
1988	*	**	10	0.1	18	0.2	37	0.3	49	0.5	94	1.1	122	1.8	171	3.0	290	5.2	431	7.4	619	11.4	779	17.3	893	24.8	903	37.2	1152	55.5
1989	*	**	7	0.1	19	0.2	51	0.5	69	0.7	88	1.0	118	1.7	176	3.1	261	4.7	438	7.6	641	11.7	804	17.7	900	24.5	906	36.3	1187	55.5
1990	*	**	*	**	25	0.2	41	0.4	64	0.6	99	1.1	145	2.1	197	3.4	264	4.8	476	8.4	625	11.2	793	17.3	963	25.9	852	33.4	1187	54.4
1991	*	**	5	0.1	26	0.3	33	0.3	76	0.7	82	0.9	133	1.9	182	3.0	282	5.2	403	7.1	589	10.6	802	17.0	918	24.2	930	35.3	1194	51.9
1992	*	**	7	0.1	16	0.2	49	0.4	79	0.7	100	1.1	114	1.5	188	3.0	267	4.9	405	7.3	615	11.2	760	15.8	894	23.2	880	32.8	1249	52.2
1993	*	**	8	0.1	20	0.2	41	0.4	65	0.6	89	0.9	125	1.5	212	3.2	279	5.0	404	7.4	592	10.7	733	15.0	915	23.6	893	32.5	1243	50.1
1994	*	**	8	0.1	24	0.3	39	0.4	68	0.6	101	1.0	135	1.6	201	3.0	223	3.9	390	7.3	521	9.5	797	16.1	964	24.6	850	30.3	1209	47.2
1995	*	**	7	0.1	20	0.2	45	0.4	86	0.8	105	1.0	168	1.9	199	2.8	272	4.7	364	6.8	548	10.1	769	15.4	855	21.5	939	32.8	1257	47.6
1996	*	**	7	0.1	19	0.2	52	0.5	68	0.6	107	1.0	171	1.8	200	2.8	236	4.0	327	6.2	540	10.0	753	15.2	850	20.9	889	30.6	1257	46.3
1997	*	**	6	0.1	25	0.3	28	0.3	92	0.8	131	1.2	125	1.3	171	2.2	247	4.0	334	6.3	488	9.2	687	13.9	839	20.7	847	28.8	1252	45.0
1998	*	**	*	**	28	0.3	49	0.5	82	0.7	111	1.0	185	1.9	219	2.7	255	4.0	328	6.1	485	9.3	686	13.9	851	20.2	848	28.6	1261	44.1

^a Rates are per 100,000.^b Rates cannot be calculated for 75-79, 80-84, and 85+ because population data are only available for 75+ from 1930 to 1939.

* Number of deaths is fewer than 5.

** Rate is not calculated since number of deaths is fewer than 5.

Source: Vital Statistics of the United States [ref. 10-14]; see also *Cautions in the Interpretations of Long-Term Trends Data*.

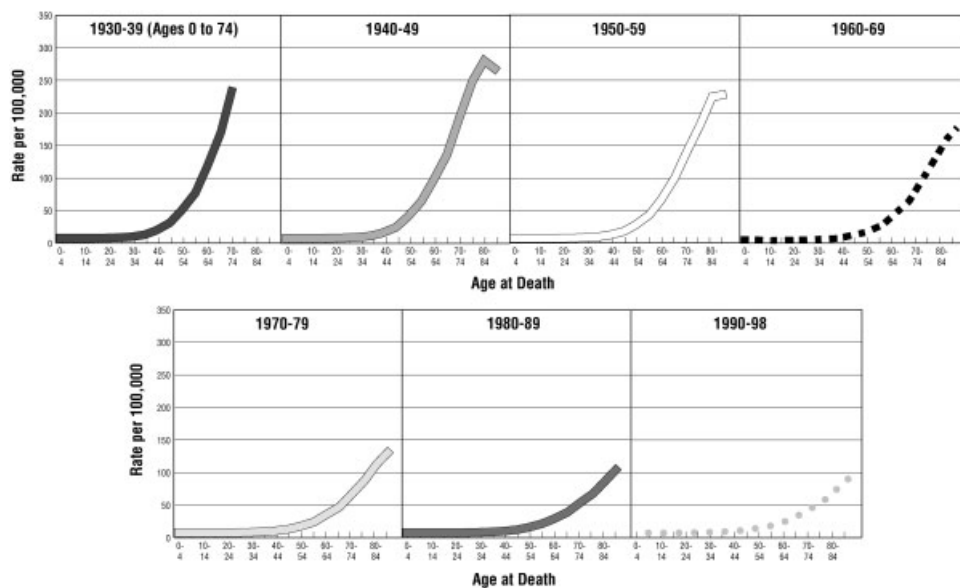


FIGURE 68. Male age-specific death rates for cancer of the stomach, separated by age at and decade of death, 1930–1998, United States. Source: *Vital Statistics of the United States*^{10–14}; see also the section entitled “Cautions in the Interpretation of Long-Term Trends Data” in the current article.

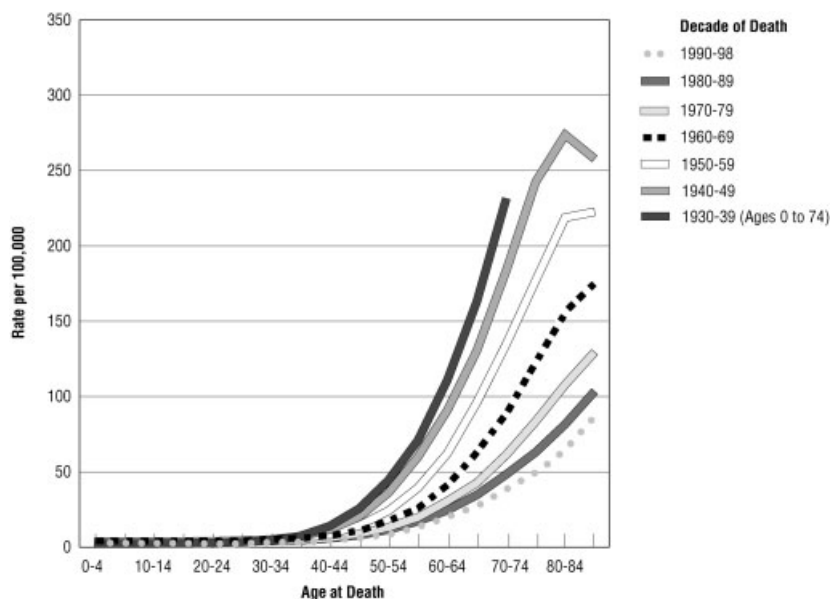


FIGURE 69. Male age-specific death rates for cancer of the stomach, by age at and decade of death, 1930–1998, United States. Source: *Vital Statistics of the United States*^{10–14}; see also the section entitled “Cautions in the Interpretation of Long-Term Trends Data” in the current article.

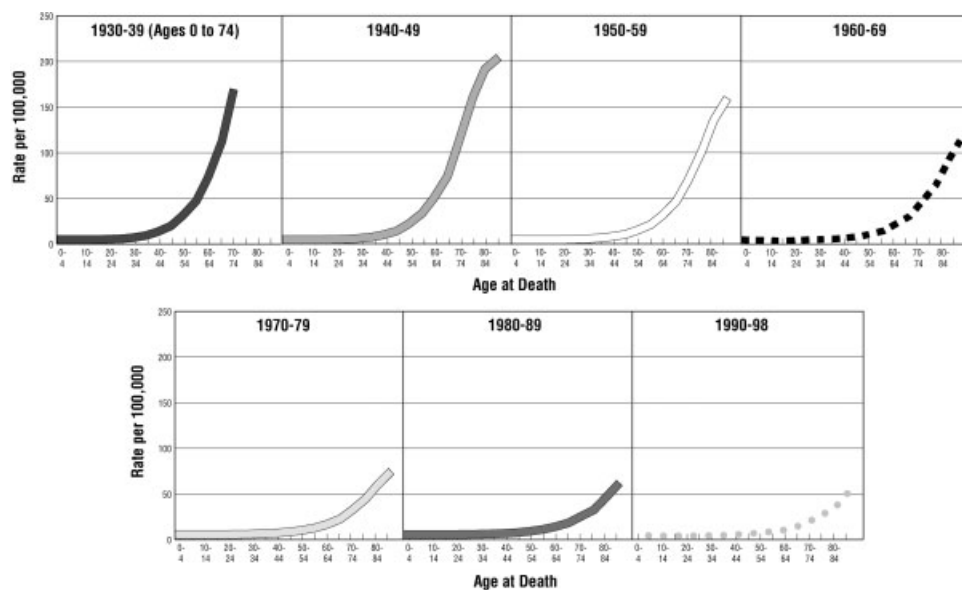


FIGURE 70. Female age-specific death rates for cancer of the stomach, separated by age at and decade of death, 1930–1998, United States. Source: *Vital Statistics of the United States*^{10–14}; see also the section entitled “Cautions in the Interpretation of Long-Term Trends Data” in the current article.

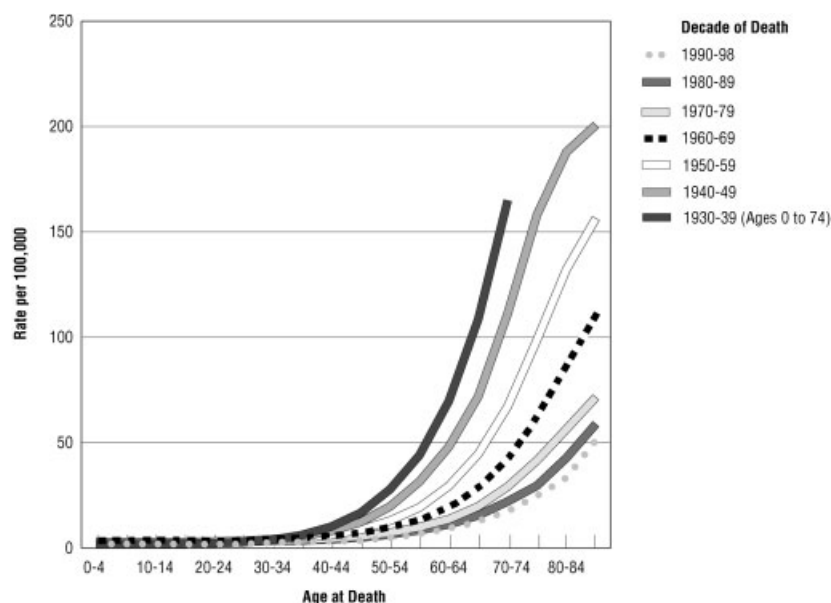


FIGURE 71. Female age-specific death rates for cancer of the stomach by age at and decade of death, 1930–1998, United States. Source: *Vital Statistics of the United States*^{10–14}; see also the section entitled “Cautions in the Interpretation of Long-Term Trends Data” in the current article.

TABLE 40
Female Deaths and Death Rates for Cancer of the Uterus,^a by Year of Death, 1930-1998, United States

Year	Number	Rate		
		Crude	1970 ^b	2000 ^c
1930	13,982	24.1	30.7	36.3
1931	14,299	24.5	30.7	36.5
1932	14,706	25.0	30.9	36.7
1933	15,231	24.5	30.1	35.6
1934	15,647	25.0	30.1	35.6
1935	15,875	25.1	30.0	35.7
1936	16,305	25.6	30.2	36.0
1937	16,360	25.5	29.7	35.6
1938	16,326	25.3	28.9	34.4
1939	16,527	25.4	28.8	34.3
1940	16,741	25.5	28.5	34.0
1941	16,516	24.8	27.4	32.7
1942	16,393	24.4	26.7	32.1
1943	16,968	24.9	27.0	32.4
1944	17,152	24.9	26.7	31.9
1945	17,255	24.7	26.3	31.6
1946	17,208	24.3	25.7	30.9
1947	17,455	24.2	25.5	30.6
1948	17,120	23.3	24.5	29.4
1949	16,262	21.7	22.5	27.0
1950	16,085	21.1	21.8	26.2
1951	15,398	19.9	20.5	24.5
1952	15,264	19.4	19.8	23.8
1953	15,547	19.4	19.7	23.6
1954	15,130	18.5	18.7	22.5
1955	15,170	18.2	18.3	22.0
1956	14,784	17.4	17.5	21.0
1957	14,854	17.2	17.2	20.6
1958	14,940	17.0	16.9	20.3
1959	14,388	16.1	15.9	19.2
1960	14,416	15.8	15.7	18.9
1961	14,382	15.5	15.2	18.3
1962	14,290	15.1	14.9	17.8
1963	14,147	14.7	14.4	17.4
1964	13,987	14.4	14.0	16.9
1965	13,838	14.0	13.6	16.4
1966	13,396	13.4	12.9	15.6
1967	13,143	13.0	12.4	15.0
1968	12,759	12.5	11.8	14.3
1969	12,475	12.1	11.4	13.7
1970	12,060	11.6	10.8	13.1
1971	12,216	11.5	10.7	12.9
1972	12,092	11.3	10.4	12.6
1973	11,774	10.9	9.9	12.0
1974	11,604	10.6	9.6	11.6
1975	11,153	10.1	9.0	10.9
1976	11,289	10.1	8.9	10.8
1977	10,942	9.7	8.4	10.2
1978	10,872	9.5	8.2	10.0
1979	10,733	9.3	7.9	9.6
1980	10,931	9.4	7.9	9.6
1981	10,718	9.1	7.6	9.2
1982	10,616	8.9	7.4	9.0
1983	10,692	8.9	7.3	8.9
1984	10,558	8.7	7.1	8.6
1985	10,488	8.6	6.9	8.5

(continued)

TABLE 40
(continued)

Year	Number	Rate		
		Crude	1970 ^b	2000 ^c
1986	10,427	8.5	6.8	8.3
1987	10,336	8.3	6.6	8.1
1988	10,357	8.3	6.5	8.0
1989	10,354	8.2	6.4	7.9
1990	10,679	8.4	6.5	8.1
1991	10,464	8.1	6.3	7.7
1992	10,717	8.2	6.3	7.8
1993	10,700	8.1	6.2	7.6
1994	10,789	8.1	6.2	7.6
1995	10,752	8.0	6.0	7.5
1996	10,874	8.0	6.0	7.4
1997	10,706	7.8	5.9	7.2
1998	10,777	7.8	5.8	7.2

^a Includes uterine cervix, uterine corpus, and uterus NOS^b Rates are per 100,000 and are age-adjusted to the 1970 U.S. standard population.^c Rates are per 100,000 and are age-adjusted to the 2000 U.S. standard population.**Source:** Vital Statistics of the United States [ref. 10-14]; see also *Cautions in the Interpretations of Long-Term Trends Data*.

TABLE 41
Female Deaths and Death Rates* for Cancer of the Uterus,^b by Age at and Year of Death, 1930-1998, United States

Year	0-19		20-24		25-29		30-34		35-39		40-44		45-49		50-54		55-59		60-64		65-69		70-74		75-79 ^c		80-84 ^c		85+ ^c	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate
1930	26	0.1	55	1.0	240	5.1	552	12.7	909	21.0	1507	40.5	1755	54.0	1906	69.1	1898	86.3	1615	91.7	1338	101.2	1083	113.6	-	-	-	-	-	-
1931	12	0.1	68	1.3	201	4.2	528	12.0	985	22.3	1485	38.8	1855	56.4	1962	69.6	1770	78.7	1676	93.0	1435	106.4	1096	113.8	-	-	-	-	-	-
1932	13	0.1	77	1.4	237	4.8	518	11.7	998	22.3	1485	37.6	1868	56.0	2065	72.1	1785	76.4	1768	95.7	1427	101.6	1199	121.6	-	-	-	-	-	-
1933	16	0.1	61	1.1	222	4.2	531	11.2	1007	22.6	1478	35.3	1905	53.8	2045	67.6	2000	79.9	1873	95.1	1547	103.0	1215	116.3	-	-	-	-	-	-
1934	8	0.0	77	1.4	267	5.0	557	11.6	1017	22.9	1586	37.3	1909	52.7	2109	68.6	2046	79.7	1880	92.4	1539	99.2	1289	121.2	-	-	-	-	-	-
1935	13	0.1	88	1.5	272	5.1	565	11.5	1060	23.7	1470	34.3	1980	53.3	2148	68.6	2035	77.5	1845	87.6	1644	102.8	1240	112.4	-	-	-	-	-	-
1936	17	0.1	63	1.1	282	5.2	581	11.7	1074	23.8	1490	34.7	1929	50.7	2218	68.6	2029	76.0	1972	90.8	1773	107.4	1279	112.4	-	-	-	-	-	-
1937	13	0.1	54	0.9	256	4.7	600	11.9	1070	23.3	1543	35.9	1988	51.1	2112	64.8	2067	76.3	1924	86.3	1726	101.1	1330	113.2	-	-	-	-	-	-
1938	13	0.1	78	1.3	305	5.5	607	11.9	999	21.4	1583	36.8	1953	49.3	2167	64.8	2029	73.8	1936	85.0	1741	98.4	1347	110.9	-	-	-	-	-	-
1939	11	0.0	54	0.9	288	5.1	571	11.1	1111	23.4	1508	34.8	1948	48.5	2164	63.0	2029	72.5	1973	85.1	1805	98.5	1411	112.1	-	-	-	-	-	-
1940	16	0.1	75	1.3	253	4.5	628	12.1	1068	21.9	1543	35.2	1985	49.2	2165	61.5	2081	72.7	1933	81.9	1864	98.2	1435	109.8	320	117.0	519	123.9	237	112.3
1941	17	0.1	55	0.9	282	4.6	646	12.3	1086	21.1	1601	35.9	1933	46.9	2093	58.4	2055	68.9	1934	79.6	1799	92.0	1420	105.3	900	110.8	515	119.5	233	103.9
1942	13	0.1	57	1.0	212	3.7	573	10.7	1039	20.8	1470	32.4	1823	43.6	2172	53.5	2072	68.8	1932	77.3	1801	89.2	1434	102.8	965	114.5	549	122.8	272	118.3
1943	11	0.0	73	1.2	226	3.9	567	10.5	1013	20.0	1569	34.0	1905	44.8	2179	58.6	2154	70.0	2029	73.0	1852	89.1	1516	105.2	1002	114.8	572	124.3	282	118.0
1944	16	0.1	59	1.0	247	4.2	614	11.2	1074	20.9	1545	33.0	1867	43.2	2178	57.5	2214	70.4	2088	79.2	1861	86.9	1549	104.2	979	108.4	567	120.4	281	113.8
1945	12	0.1	46	0.8	204	3.4	554	10.0	1064	20.4	1470	30.9	1863	42.5	2200	57.1	2208	71.7	2053	75.8	1937	87.6	1506	97.9	1120	118.1	604	122.8	304	116.9
1946	16	0.1	59	1.0	200	3.3	553	9.9	1078	20.3	1488	30.8	1886	42.8	2174	55.5	2221	67.4	2015	72.6	1892	83.2	1543	97.1	1105	113.2	602	116.4	355	130.5
1947	9	0.0	50	0.8	209	3.4	533	9.4	981	18.1	1504	30.6	1910	42.7	2124	53.4	2264	67.0	2137	75.1	1953	83.4	1618	98.7	1149	113.1	647	118.3	361	125.8
1948	20	0.1	55	0.9	205	3.3	503	8.7	891	16.1	1406	26.2	1794	39.9	2056	50.9	2280	65.8	2140	73.4	1910	79.2	1643	97.2	1166	110.3	672	116.5	370	122.1
1949	13	0.1	58	1.0	187	3.0	500	8.6	954	16.9	1363	26.9	1780	39.3	1943	47.4	2087	58.6	1936	64.7	1856	74.7	1565	88.7	1005	91.2	668	106.5	330	102.2
1950	18	0.1	59	1.0	202	3.2	438	7.4	868	15.1	1319	25.6	1737	38.1	1907	45.9	2049	56.5	1976	65.0	1885	72.6	1485	82.6	1112	96.8	658	102.7	358	103.2
1951	10	0.0	54	0.9	158	2.5	371	6.2	823	14.2	1241	23.7	1533	32.9	1892	45.2	1980	52.7	1914	61.3	1831	68.4	1471	79.0	1132	94.3	623	94.0	370	100.8
1952	14	0.1	53	0.9	204	3.3	398	6.5	839	14.3	1172	22.0	1539	32.2	1814	43.1	1896	50.1	1886	58.5	1790	65.3	1483	76.6	1142	91.4	648	94.2	377	97.7
1953	13	0.0	36	0.7	176	2.9	418	6.7	755	12.8	1235	22.8	1524	31.2	1842	43.3	1894	48.5	2028	61.0	1889	67.2	1525	75.8	1127	87.0	678	94.7	401	98.8
1954	12	0.0	46	0.8	165	2.7	375	6.0	743	12.5	1171	21.3	1474	29.5	1794	41.6	1870	48.3	1928	56.5	1812	62.8	1502	71.4	1157	86.2	672	89.8	400	92.5
1955	12	0.0	46	0.9	161	2.7	406	6.4	763	12.7	1156	20.7	1321	29.7	1707	39.0	1816	46.1	1956	55.9	1821	61.7	1580	71.2	1158	83.1	659	84.2	419	92.5
1956	15	0.0	44	0.8	166	2.8	422	6.7	743	12.2	1069	18.9	1436	27.6	1609	36.0	1867	46.7	1880	52.6	1778	58.9	1499	65.9	1144	79.2	672	82.2	432	91.3
1957	11	0.0	44	0.8	150	2.6	425	6.8	690	11.1	1072	18.7	1409	26.6	1711	37.4	1802	44.5	1865	52.0	1899	61.1	1500	63.9	1107	73.6	880	81.4	449	90.5
1958	6	0.0	35	0.7	135	2.4	389	6.3	738	11.8	988	17.1	1338	24.9	1641	35.1	1785	43.2	1916	52.4	1977	62.0	1578	65.2	1200	76.7	717	82.1	491	95.0
1959	17	0.1	34	0.6	118	2.1	336	5.5	742	11.7	994	17.0	1296	23.7	1495	31.2	1685	39.9	1820	49.3	1904	58.4	1569	62.8	1170	71.3	711	79.2	491	90.3
1960	12	0.0	38	0.7	127	2.3	346	5.7	677	10.6	985	16.6	1321	23.9	1520	31.2	1638	38.1	1863	49.9	1864	56.0	1574	61.6	1157	68.3	773	84.5	515	90.8
1961	10	0.0	31	0.5	110	2.0	331	5.5	633	9.9	972	16.1	1301	23.3	1522	30.3	1643	37.1	1821	48.3	1909	56.0	1673	62.7	1199	67.6	758	77.6	466	78.7
1962	9	0.0	34	0.6	124	2.3	317	5.4	648	10.2	980	15.6	1173	20.8	1529	28.9	1603	35.2	1886	49.6	1877	54.3	1662	60.2	1217	66.4	750	73.0	500	82.2
1963	12	0.0	30	0.5	136	2.5	299	5.2	616	9.8	954	15.2	1209	21.3	1440	27.7	1649	35.9	1778	46.2	1797	51.4	1638	57.5	1264	66.9	805	75.0	516	82.3
1964	18	0.0	37	0.6	103	1.8	294	5.2	528	8.5	959	15.1	1133	19.7	1498	28.4	1538	31.9	1770	45.3	1835	51.9	1655	56.5	1280	65.7	797	70.8	539	82.5
1965	13	0.0	32	0.5	130	2.3	315	5.6	552	9.0	913	14.3	1188	20.4	1399	26.1	1464	28.7	1695	42.5	1832	51.2	1730	57.9	1243	61.8	812	69.0	517	75.6
1966	12	0.0	35	0.5	117	2.0	270	4.8	515	8.5	840	13.2	1112	18.8	1304	24.0	1475	29.4	1577	38.5	1766	48.7	1689	55.7	1281	62.2	823	67.3	567	79.0
1967	18	0.0	31	0.4	93	1.5	214	3.8	449	7.7	849	13.4	1056	17.5	1277	23.2	1446	28.5	1614	38.2	1708	46.5	1735	56.7	1259	58.6	806	63.4	574	75.5
1968	6	0.0	41	0.5	103	1.6	227	4.0	431	7.4	718	11.4	1063	17.3	1186	21.2	1471	28.7	1581	36.6	1679	45.0	1506	48.8	1358	56.1	613	60.0	579	72.4
1969	14	0.0	35	0.4	98	1.5	212	3.7	406	7.1	735	11.8	1017	16.3	1177	20.7	1445	27.9	1520	33.7	1690	44.5	1437	46.3	1273	56.1	829	60.8	587	69.2

(continued)

TABLE 41
(continued)

Year	0-19		20-24		25-29		30-34		35-39		40-44		45-49		50-54		55-59		60-64		65-69		70-74		75-79 ^c		80-84 ^c		85+ ^c	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate
1970	10	0.0	30	0.4	107	1.6	201	3.4	330	6.1	639	10.4	988	15.8	1143	19.8	1302	25.0	1487	32.4	1574	40.6	1540	49.2	1280	56.2	813	57.7	594	64.6
1971	13	0.0	23	0.3	111	1.6	199	3.3	371	6.5	630	10.4	988	15.7	1115	18.9	1325	25.1	1538	32.5	1619	40.8	1517	47.7	1250	52.5	865	57.7	651	66.6
1972	14	0.0	30	0.3	102	1.3	226	3.6	346	6.1	578	9.7	950	15.3	1076	17.8	1288	23.9	1466	30.3	1614	39.3	1546	48.5	1388	55.0	870	55.3	666	65.3
1973	7	0.0	36	0.4	79	1.0	218	3.3	324	5.6	503	8.5	827	13.4	1118	18.2	1236	23.1	1527	31.0	1559	36.7	1482	45.7	1227	50.0	949	57.6	678	63.4
1974	5	0.0	37	0.4	104	1.3	188	2.7	328	5.6	508	8.8	746	12.2	1047	16.8	1234	22.6	1504	30.1	1519	34.7	1488	45.1	1258	50.1	914	54.2	721	63.2
1975	7	0.0	32	0.3	101	1.2	164	2.3	270	4.6	455	8.0	701	11.5	971	15.6	1163	20.8	1406	27.9	1514	33.4	1432	42.8	1233	47.6	948	54.8	754	61.5
1976	9	0.0	29	0.3	97	1.1	188	2.6	279	4.6	439	7.7	596	9.9	988	15.8	1234	21.6	1429	28.1	1516	32.7	1412	41.3	1259	47.3	1040	58.0	772	59.8
1977	*	**	23	0.2	96	1.0	181	2.3	290	4.5	399	6.8	560	9.5	884	14.0	1168	19.8	1423	27.7	1528	32.3	1454	40.9	1212	44.7	983	53.7	775	56.8
1978	*	**	29	0.3	106	1.1	176	2.1	259	3.9	443	7.7	603	10.3	815	13.2	1111	18.4	1381	26.6	1588	33.0	1402	38.0	1221	43.5	902	48.1	832	57.7
1979	*	**	21	0.2	77	0.8	196	2.3	278	4.0	352	6.0	515	8.3	796	13.0	1102	18.0	1356	25.6	1565	32.2	1465	38.3	1213	41.9	949	50.7	842	55.4
1980	*	**	31	0.3	105	1.1	186	2.1	287	4.0	378	6.3	531	9.3	734	12.1	1083	17.3	1375	25.4	1556	31.9	1540	38.0	1264	42.9	946	49.4	930	59.7
1981	8	0.0	26	0.2	112	1.1	204	2.2	253	3.5	373	6.1	471	8.4	728	12.1	1032	16.9	1391	25.0	1526	30.9	1445	35.6	1249	41.0	950	48.1	950	57.6
1982	7	0.0	28	0.3	106	1.0	205	2.2	272	3.4	365	5.7	477	8.5	686	11.8	947	15.6	1296	22.9	1558	31.2	1471	35.5	1267	41.1	965	47.5	933	54.2
1983	9	0.0	30	0.3	98	0.9	203	2.1	311	3.8	371	5.5	461	8.0	581	10.1	959	15.8	1361	23.8	1512	29.9	1509	35.7	1296	40.3	984	47.1	1007	56.4
1984	*	**	30	0.3	102	1.0	216	2.2	308	3.6	407	5.9	470	8.0	601	10.6	902	15.1	1285	22.2	1486	29.1	1531	35.6	1252	37.9	995	46.3	970	52.5
1985	5	0.0	26	0.2	111	1.0	205	2.0	325	3.6	399	5.4	448	7.5	616	11.0	850	14.4	1238	21.2	1464	28.4	1516	34.8	1323	39.1	966	43.6	1006	52.8
1986	*	**	23	0.2	118	1.1	225	2.2	335	3.6	389	5.3	488	8.0	586	10.5	803	13.7	1234	21.2	1491	28.3	1461	33.2	1242	35.9	1021	44.7	1006	51.2
1987	*	**	19	0.2	108	1.0	266	2.5	325	3.5	387	4.9	505	8.0	555	10.0	741	12.9	1107	19.1	1486	27.7	1489	33.5	1346	38.0	1035	43.9	965	47.7
1988	*	**	25	0.3	99	0.9	216	2.0	320	3.3	447	5.4	491	7.4	561	9.9	723	12.9	1177	20.3	1424	26.3	1498	33.3	1318	36.5	1065	43.9	992	47.8
1989	*	**	27	0.3	92	0.9	234	2.1	340	3.5	469	5.5	508	7.4	566	9.8	720	13.1	1060	18.5	1484	27.0	1407	31.0	1347	36.7	1004	40.2	1093	51.1
1990	*	**	23	0.2	81	0.8	250	2.3	392	3.9	513	5.8	530	7.6	636	10.9	746	13.6	1045	18.4	1418	25.5	1488	32.5	1371	36.9	1104	43.2	1077	49.4
1991	*	**	21	0.2	70	0.7	250	2.2	399	3.9	506	5.3	516	7.2	537	9.3	699	12.9	1059	18.8	1398	25.3	1458	31.0	1335	35.2	1061	40.3	1132	49.2
1992	*	**	27	0.3	106	1.1	251	2.2	407	3.8	530	5.6	528	6.8	622	10.0	709	13.0	938	17.3	1388	25.2	1494	31.0	1383	35.9	1165	44.1	1126	47.1
1993	*	**	21	0.2	88	0.9	241	2.2	384	3.5	484	5.0	598	7.4	629	9.6	703	12.6	987	18.2	1271	23.1	1527	31.2	1435	37.0	1150	41.8	1177	47.4
1994	*	**	17	0.2	93	1.0	236	2.1	401	3.6	474	4.8	614	7.2	668	9.8	722	12.7	981	18.4	1318	24.1	1578	31.9	1353	34.5	1141	40.7	1190	46.5
1995	*	**	21	0.2	86	0.9	228	2.1	369	3.3	535	5.2	644	7.2	673	9.6	690	12.0	925	17.4	1226	22.6	1446	29.0	1382	34.8	1191	41.6	1332	50.5
1996	*	**	23	0.3	102	1.1	226	2.1	404	3.6	546	5.2	578	6.2	676	9.4	702	11.9	999	18.9	1290	23.9	1440	29.0	1323	32.6	1211	41.7	1349	49.7
1997	*	**	25	0.3	91	1.0	225	2.2	378	3.3	509	4.7	678	7.2	683	8.8	783	12.8	968	18.2	1150	21.7	1406	28.5	1342	32.3	1111	37.8	1352	48.6
1998	*	**	20	0.2	85	0.9	209	2.1	403	3.5	512	4.6	671	7.0	734	9.1	761	11.8	896	16.5	1166	22.4	1386	28.0	1419	33.6	1169	38.4	1344	47.0

^a Rates are per 100,000.^b Includes uterine cervix, uterine corpus, and uterus NOS^c Rates cannot be calculated for 75-79, 80-84, and 85+ because population data are only available for 75+ from 1930 to 1939.

* Number of deaths is fewer than 5.

** Rate is not calculated since number of deaths is fewer than 5.

Source: Vital Statistics of the United States [ref. 10-14]; see also Cautions in the Interpretations of Long-Term Trends Data.

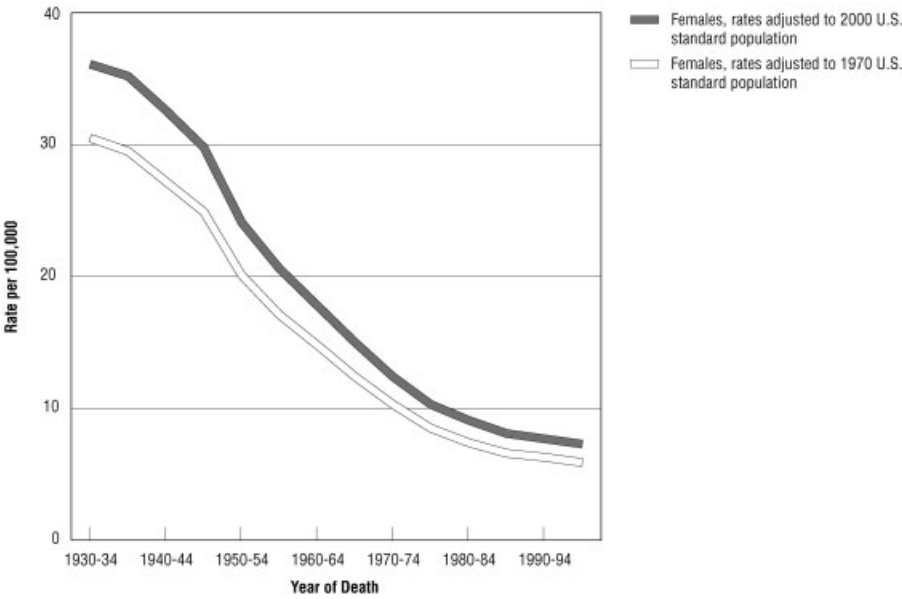


FIGURE 72. Female death rates for cancer of the uterus, by year of death, 1930–1998, United States. Source: *Vital Statistics of the United States*^{10–14}; see also the section entitled “Cautions in the Interpretation of Long-Term Trends Data” in the current article.

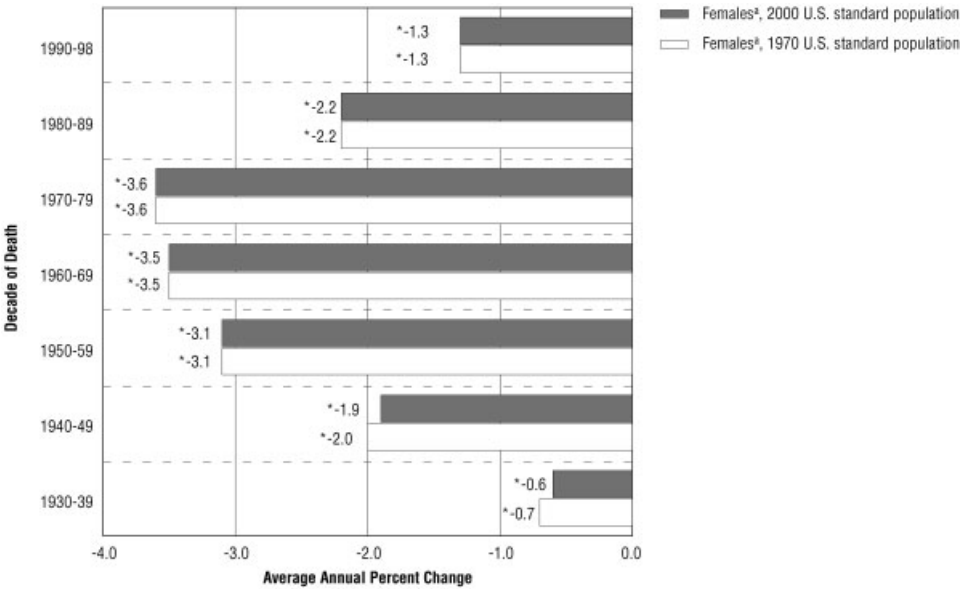


FIGURE 73. Average annual percent change^a in death rates for cancer of the uterus, by decade of death, 1930–1998, United States. ^aAverage annual percent change is based on rates adjusted to 2000 or 1970 U.S. standard population. *Average annual percent change is significantly different from zero ($p < 0.05$). Source: *Vital Statistics of the United States*^{10–14}; see also the section entitled “Cautions in the Interpretation of Long-Term Trends Data” in the current article.

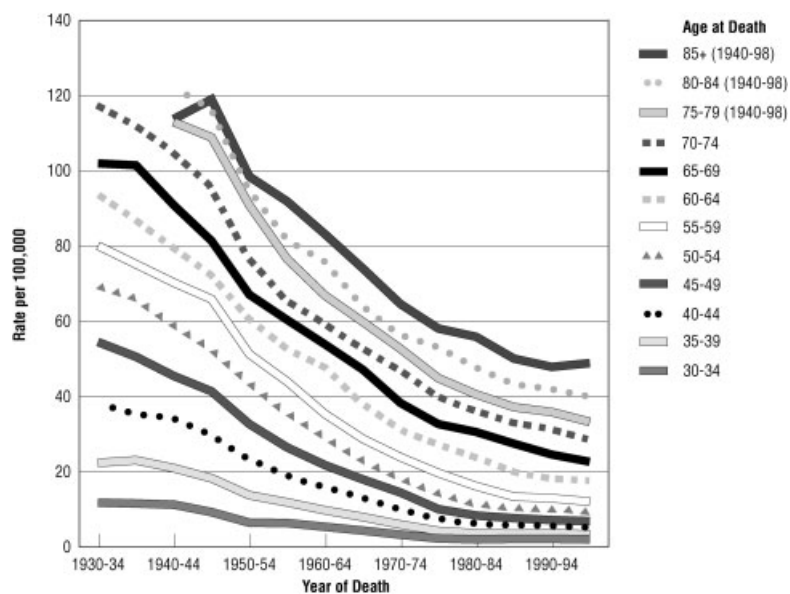


FIGURE 74. Female death rates for cancer of the uterus, by age at and year of death, 1930–1998, United States. Source: *Vital Statistics of the United States*^{10–14}; see also the section entitled “Cautions in the Interpretation of Long-Term Trends Data” in the current article.

TABLE 42
Average Annual Percent Change in Female Death Rates for Cancer of the Uterus, by Age at Death, 1930-1998, United States

	1930-39	1940-49	1950-59	1960-69	1970-79	1980-89	1990-98
Age							
0-19	-4.0	-2.1	-5.8	-0.6	-14.2*	na	-6.3
20-24	-1.7	-2.3	-3.9*	-3.7*	-4.5	-1.2	0.7
25-29	1.6	-4.0*	-3.3*	-4.8*	-5.5*	-1.8*	3.1
30-34	-0.6	-3.8*	-1.4	-4.7*	-5.8*	0.3	-1.2*
35-39	0.6	-2.9*	-3.0*	-4.4*	-5.8*	-1.1	-1.7*
40-44	-1.3*	-2.8*	-4.4*	-4.0*	-5.4*	-1.9*	-2.2*
45-49	-1.5*	-2.0*	-4.5*	-4.0*	-6.7*	-1.9*	-0.8
50-54	-1.1*	-2.4*	-3.9*	-4.7*	-4.7*	-2.3*	-1.7*
55-59	-1.3*	-1.6*	-3.2*	-3.7*	-3.7*	-3.5*	-1.4*
60-64	-1.2*	-1.9*	-2.8*	-4.4*	-2.6*	-3.4*	-0.6
65-69	-0.4	-2.4*	-2.0*	-2.7*	-3.0*	-2.0*	-1.8*
70-74	-0.5	-1.7*	-3.1*	-2.8*	-3.0*	-1.9*	-1.7*
75-79 ^a		-1.4	-3.3*	-2.0*	-3.1*	-1.8*	-1.5*
80-84 ^a		-1.0*	-2.7*	-3.5*	-1.4*	-1.9*	-1.1
85+ ^a		0.5	-1.4*	-2.2*	-2.0*	-2.2*	-0.1

* Average annual percent change is significantly different from zero ($p < 0.05$).

^a Rates cannot be calculated for 75-79, 80-84, and 85+ because population data are only available for 75+ from 1930 to 1939.

na = not applicable; estimated annual percent change was not calculated because one or more age-specific rates was equal to zero.

Source: Vital Statistics of the United States [ref. 10-14]; see also *Cautions in the Interpretations of Long-Term Trends Data*.

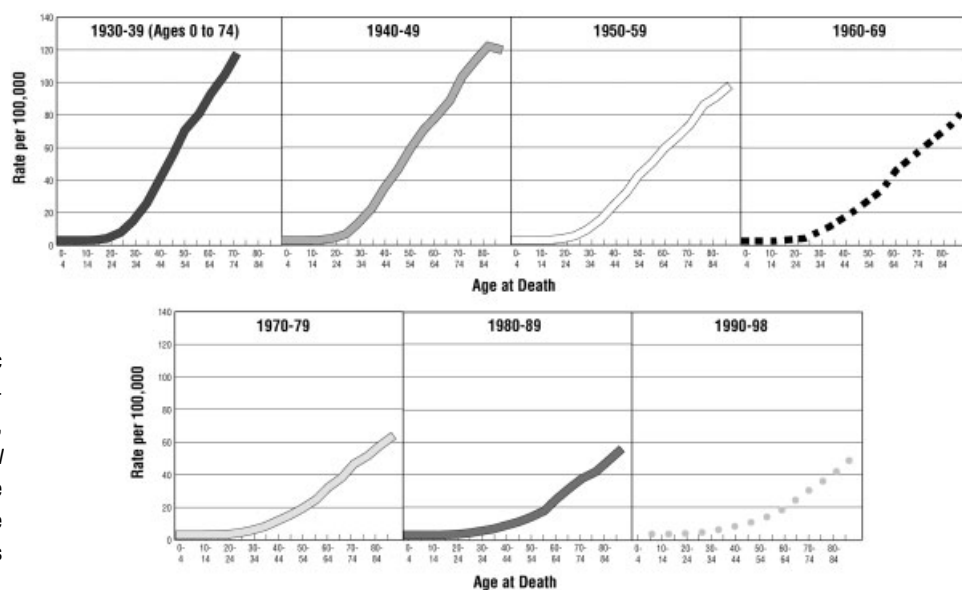


FIGURE 75. Female age-specific death rates for cancer of the uterus, separated by age at and decade of death, 1930–1998, United States. Source: *Vital Statistics of the United States*^{10–14}; see also the section entitled “Cautions in the Interpretation of Long-Term Trends Data” in the current article.

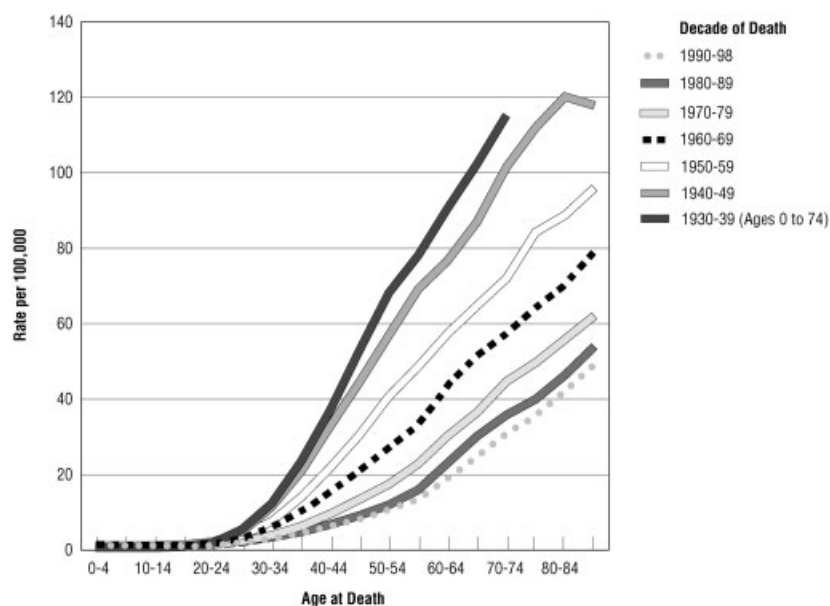


FIGURE 76. Female age-specific death rates for cancer of the uterus, by age at and decade of death, 1930–1998, United States. Source: *Vital Statistics of the United States*^{10–14}; see also the section entitled “Cautions in the Interpretation of Long-Term Trends Data” in the current article.

Article continues on next page.

APPENDIX A
Abbreviated version of International Classification of Diseases (ICD) death codes by cancer site, including all cancers sites combined

CANCER SITE	ICD-4 (1930-1938)	ICD-5 (1939-1948)	ICD-6 (1949-1957)	ICD-7 (1958-1967)	ICD-8A (1968-1978)	ICD-9 (1979-1998)
All Cancer Sites	45-53, 72a	45-55, 74a, 74b	140.0-205	140.0-205	140.0-207.9	140.0-208.9
Female Breast	50	50	170	170-	174_	174.0-174.6, 174.8-174.9
Colon, Rectum, Anal Canal, and Small Intestine	46c, 46d	46c, 46d, 46e	152, 153, 154	152.0, 152.7-152.9, 153.0-153.3, 153.7-153.9, 154-	152.0-152.2, 152.8-152.9, 153.0-153.3, 153.8-153.9, 154.0-154.2	152.0-152.3, 152.8-152.9, 153.0-153.9, 154.0-154.2, 154.8, 159.0
Leukemia	72a	74a, 74b	204	204.0-204.4	204.0-204.1, 204.9, 205.0-205.1, 205.9, 206.0-206.1, 206.9, 207.0-207.2, 207.9	202.4, 204.0-204.2, 204.8-204.9, 205.0-205.3, 205.8-205.9, 206.0-206.2, 206.8-206.9, 207.0, 207.2, 207.8, 208.0-208.2, 208.8-208.9
Liver, Gallbladder, and Biliary Passages	46e	46f	155, 156	155.0-155.1, 155.8, 156- (or 156.1)	155.0-155.1, 156.0-156.2, 156.9, 197.8	155.0-155.2, 156.0-156.2, 156.8-156.9
Lung, Bronchus, Trachea, and Pleura	47b, 47c	47b-47f	162, 163	162.0-162.2, 162.8, 163-	162.0-162.1, 163.0	162.0, 162.2-162.5, 162.8-162.9, 163.0-163.1, 163.8-163.9
Ovary, Fallopian Tube, and Broad Ligament	49a	49a, 49b	175	175.0-175.1, 175.8-175.9	183.0-183.1, 183.9	183.0, 183.2-183.5, 183.8-183.9
Pancreas	46f	46g	157	157-	157.0, 157.8-157.9	157.0-157.4, 157.8-157.9
Prostate	51c	51b	177	177-	185_	185_
Stomach	46b	46b	151	151-	151.0-151.1, 151.8-151.9	151.0-151.6, 151.8-151.9
Uterus ^a (combined)	48, 55b	48a, 48b	171, 172, 173, 174	171-, 172-, 173-, 174-	180_, 181_, 182.0, 182.9	179_, 180.0-180.1, 180.8-180.9, 181_, 182.0-182.1, 182.8

^a Uterine corpus and uterine cervix are presented as one cancer site because they cannot be separated until 1946.

APPENDIX B

Complete version of International Classification of Diseases (ICD) death codes by cancer site

Site	ICD-4 (1930-1938)	ICD-5 (1959-1948)	ICD-6 (1949-1957)	ICD-7 (1958-1967)	ICD-8A (1968-1978)	ICD-9 (1979-1998)
Female breast	Cancers and other malignant tumors 50 Of the breast	50 Cancer of the breast Cancer of the mammary gland Cancer of nipple Paget's disease of nipple	170 Malignant neoplasm of breast Cancer en cuirasse Malignant neoplasm of: mammary gland breast nipple Paget's disease of: breast nipple	170 Malignant neoplasm of breast Cancer en cuirasse Malignant neoplasm of: mammary gland breast nipple Paget's disease of: breast nipple	174 , Malignant neoplasm of breast Breast (male) (female) connective tissue skin soft parts Mammary gland Nipple Paget's disease of: breast nipple	174 Malignant neoplasm of female breast Includes: breast (female) connective tissue soft parts Paget's disease of: breast nipple Excludes: skin of breast (172.5, 173.5) 174.0 Nipple and areola 174.1 Central portion 174.2 Upper-inner quadrant 174.3 Lower-inner quadrant 174.4 Upper-outer quadrant 174.5 Lower-outer quadrant 174.6 Axillary tail 174.8 Other Malignant neoplasm of contiguous or overlapping sites of breast whose point of origin cannot be determined
Colon, rectum, anal canal, and small intestine	46 Cancer and other malignant tumors of the digestive tract and peritoneum 46c Duodenum Cancer of duodenum 46d Rectum and anus Cancer of anus lower sigmoid flexure Cancer of rectosigmoid junction rectum 46e Intestines (except duodenum and rectum) Cancer of appendix cecum colon ileocecal valve Ileum intestinal glands Cancer of the intestines (except duodenum and rectum) jejunum sigmoid flexure upper sigmoid flexure	46 Cancer of the digestive organs and peritoneum 46c Duodenum Cancer of duodenum 46d Rectum and anus Cancer of anus lower sigmoid flexure Cancer of rectosigmoid junction rectum 46e Intestines (except duodenum and rectum) Cancer of appendix cecum colon ileocecal valve Ileum intestinal glands Cancer of the intestines (except duodenum and rectum) jejunum sigmoid flexure upper sigmoid flexure	152 Malignant neoplasm of small intestine, including duodenum Malignant neoplasm of: duodenum ileum Malignant neoplasm of: jejunum small intestine 153 Malignant neoplasm of large intestine, except rectum Malignant neoplasm of: appendix caecum caput coli cecum colon Malignant neoplasm of: hepatic flexure ilocaecum large intestine sigmoid flexure splenic flexure 154 Malignant neoplasm of rectum Excludes malignant neoplasm of anus (191) Malignant neoplasm of: anal canal (not anus) recto-sigmoid (junction) rectum	152 Malignant neoplasm of small intestine, including duodenum 152.0 Duodenum 152.1 Ileum 152.2 Jejunum 152.8 Other specified parts Excludes: ileocaecal valve (153.0) 152.9 Part unspecified 153 Malignant neoplasm of large intestine, except rectum specified part of small intestine 152.9 Part unspecified Malignant neoplasm of small intestine NOS Malignant neoplasm of large intestine, except rectum 153.0 Caecum, appendix, and ascending colon caput coli ileocaecal valve 153.1 Transverse colon, including hepatic and splenic flexures 153.2 Descending colon 153.3 Sigmoid colon Sigmoid (flexure) Excludes: rectosigmoid junction (154.0) 153.8 Large intestine (including colon), part unspecified 153.9 Intestinal tract, part unspecified 154 Malignant neoplasm of rectum and rectosigmoid junction 154.0 Rectosigmoid (junction) 154.1 Rectum 154.2 Anal canal Anal sphincter transverse colon Excludes: anus (skin)	152 Malignant neoplasm of small intestine, including duodenum 152.0 Duodenum 152.1 Jejunum 152.2 Ileum Excludes: ileocaecal valve (153.4) 152.3 Meckel's diverticulum 152.8 Other Malignant neoplasm of contiguous or overlapping sites of small intestine whose point of origin cannot be determined Duodenoperijunal junction 152.9 Small intestine, unspecified 153 Malignant neoplasm of colon 153.0 Hepatic flexure 153.1 Transverse colon 153.2 Descending colon 153.3 Sigmoid colon Sigmoid (flexure) Excludes: rectosigmoid junction (154.0) 153.4 Cecum Ileocaecal valve 153.5 Appendix 153.6 Ascending colon 153.7 Splenic flexure 153.8 Other Malignant neoplasm of contiguous or overlapping sites of colon whose point of origin cannot be determined	

(continued)

Note: ICD code for anus was not included after 1948. ICD code for duodenum was included beginning in 1939. See note for stomach cancer.

APPENDIX B (continued)

Site	ICD-4 (1930-1939)	ICD-5 (1939-1949)	ICD-6 (1949-1957)	ICD-7 (1959-1967)	ICD-9A (1968-1978)	ICD-9 (1979-1988)
Leukemia	Diseases of the blood and blood-making organs 72a True leukemias	74 Leukemias and aleukemias Excludes: Pseudo leukemia (Hodgkin's disease) (44b) Infantile pseudoleukemia (73d) Agranulocytosis (76a) 74a Leukemias Leukemia Leukocythemia Lymphatic leukemia Lymphochloroma Lymphoid leukemia Myelogenous leukemia Myeloid leukemia 74b Aleukemias Aleukemia Aleukemic leukemia	204 Leukemia and aleukemia Excludes agranulocytosis 204.0 Lymphatic aleukemia Leukemia, leukemia, leukocythemia, leukosis: lymphatic (acute) lymphoblastic (acute) lymphoid (acute) Lymphocythemia 204.1 Myeloid leukemia Leukemia, aleukemia, leukocythemia, leukosis: eosinophilic (acute) myelogenous (acute) myeloid (acute) Mydemia Myelocythemia Myelosis, leukopenic 204.2 Monocytic leukemia Leukemia, aleukemia, leukocythemia, leukosis: monocytic (acute) monoblastic (acute) 204.3 Acute leukemia, unspecified type Leukemia, aleukemia, leukocythemia, leukosis: acute, unspecified as to type 204.4 Other and unspecified leukemia Leukemia, aleukemia, leukocythemia, leukosis: not acute, unspecified as to type Megakaryocytic leukemia	153.2 Descending colon Malignant neoplasm of descending colon 153.3 Sigmoid junction Malignant neoplasm of sigmoid (colon) (flexure) 153.7 Multiple parts of large intestine Malignant neoplasm of sites classifiable to more than one of the above subdivisions 153.8 Large intestine (including colon), part unspecified Malignant neoplasm of colon NOS large intestine NOS 153.9 Intestinal tract, part unspecified Malignant neoplasm of intestine, NOS 154- Malignant neoplasm of rectum Excludes malignant neoplasm of anus (190.3,191.5) Malignant neoplasm of anal canal (not anus) rectosigmoid (junction) rectum	(172.6, 173.6)	153.9 Colon, unspecified Large intestine NOS 154 Malignant neoplasms of rectum, rectosigmoid junction and anus 154.0 Rectosigmoid junction Rectosigmoid (colon) Colon with rectum 154.1 Rectum Rectal ampulla 154.2 Anal canal Anal sphincter 154.8 Other Malignant neoplasm of contiguous or overlapping sites of colon whose point of origin cannot be determined Anorectum Cloacogenic zone 159 Malignant neoplasm of other and ill-defined sites within the digestive organs and peritoneum 159.0 Intestinal tract, part unspecified Intestine NOS 202 Other malignant neoplasm of lymphoid and histiocytic tissue 202.1 Leukemic Reticulohistiocytosis Hairy-cell leukemia 204 Lymphoid leukemia Includes leukæmia lymphatic lymphocytic 204.0 Acute Excludes: acute exacerbation of chronic lymphoid leukemia (204.1) 204.1 Chronic 204.2 Subacute 204.8 Other 204.9 Unspecified 205 Myeloid leukemia Includes leukæmia granulocytic myelogenous 205.0 Acute 205.1 Chronic Excludes: acute exacerbation of chronic myeloid leukemia (205.1) 205.1 Chronic 205.2 Subacute 205.3 Myeloid sarcoma Chloroma Granulocytic sarcoma

(continued)

APPENDIX B (continued)

Site	ICD-4 (1930-1939)	ICD-5 (1939-1948)	ICD-6 (1949-1957)	ICD-7 (1958-1967)	ICD-8A (1968-1979)	ICD-9 (1979-1998)
Liver, gall-bladder, and biliary passages	46 Cancer and other malignant tumors of the digestive tract and peritoneum 46e Liver and biliary passages	46 Cancer of the digestive organs and peritoneum 46f Liver and biliary passages Cancer of bile duct gall duct gallbladder Cancer of liver Vater's ampulla	155 Malignant neoplasm of biliary passages and of liver (stated to be primary site) Malignant neoplasm of: ampulla of Vater biliary duct, passage, or cystic duct Malignant neoplasm of: gallbladder gall ducts liver, stated to be primary site 156 Malignant neoplasm of liver (secondary and unspecified) Malignant neoplasm of liver: not stated whether primary or secondary primary site not specified	204.3 Acute leukaemia Leukaemia, aleukaemia, leucocythaemia, leucosis: acute, unspecified as to type Any condition in 204.0 or 204.1 specified as acute 204.4 Other and unspecified leukaemia Acute erythraemia (Dl Guglielmo's disease) Leukaemia, aleukaemia, leucocythaemia, leucosis: not acute, unspecified as to type Megakaryocytic leukaemia	206.1 Chronic 206.9 Unspecified 207 Other and unspecified leukaemia Includes: aleukaemia, leukaemia (aleukaemic); NOS giant cell megakaryocytic stem cell 207.0 Leukaemia, acute 207.1 Leukaemia, chronic 207.2 Acute erythraemia dl Guglielmo's disease 207.9 Leukaemia, unspecified	205.8 Other 205.9 Unspecified 206 Monocytic leukaemia Includes: monocytoid leukaemia 206.0 Acute Excludes: acute exacerbation of chronic monocytic leukaemia (206.1) 206.1 Chronic 206.2 Subacute 206.8 Other 206.9 Unspecified 207 Other specified leukaemia Excludes: leukaemic reticulendotheliosis (202.4) Plasma cell leukaemia (203.1) 207.0 Acute erythraemia and erythroleukaemia Acute erythraemic myelosis Dl Guglielmo's disease 207.2 Megakaryocytic leukaemia 207.8 Other specified leukaemia Lymphosarcoma cell leukaemia 208 Leukaemia of unspecified cell type 208.0 Acute Excludes: acute exacerbation of chronic unspecified leukaemia (208.1) Acute leukaemia NOS Blast cell leukaemia Stem cell leukaemia 208.1 Chronic Chronic leukaemia NOS 208.2 Subacute Subacute leukaemia NOS 208.8 Other 208.9 Unspecified Leukaemia NOS 155 Malignant neoplasm of liver and intrahepatic bile ducts 155.0 Liver Carcinoma: liver, specified as primary hepatocellular liver cell Hepatoblastoma 155.1 Intrahepatic bile ducts Canaliculi biliferi Interlobular bile ducts biliary canals Intrahepatic biliary passages

(continued)

APPENDIX B (continued)

Site	ICD-4 (1930-1938)	ICD-5 (1939-1948)	ICD-6 (1949-1957)	ICD-7 (1958-1967)	ICD-8A (1968-1978)	ICD-9 (1979-1988)
Lung, bronchus, trachea, and pleura	47 Cancer and other malignant tumors of the respiratory system	47 Cancer of the respiratory system	This title is not to be used for primary death classification if the site of the primary neoplasm is known. Not to be used for primary morbidity classification if a primary neoplasm of known site is present.	cystic duct (common) Malignant neoplasm of: gallbladder gall duct NOS extrahepatic hepatic duct 153.8 Multiple sites Malignant neoplasm of sites classifiable to both the above subdivisions	biliary passages gall duct 156 Malignant neoplasm of gallbladder and bile ducts 156.0 Gallbladder 156.1 Extrahepatic bile ducts Biliary duct or passages (extrahepatic) Common bile duct Cystic duct Hepatic duct 156.2 Ampulla of Vater 156.9 Biliary tract, unspecified 197 Secondary malignant neoplasm of respiratory and digestive systems 197.8 Liver, unspecified	canaliculi gall duct 155.2 Liver, not specified as primary or secondary 156 Malignant neoplasm of gallbladder and extrahepatic bile ducts 156.0 Gallbladder 156.1 Malignant neoplasm of extrahepatic bile ducts Biliary duct or passage NOS Common bile duct Cystic duct Hepatic duct 156.2 Ampulla of Vater 156.8 Other Malignant neoplasm of contiguous or overlapping sites of liver whose point of origin cannot be determined 156.9 Biliary tract, part unspecified Malignant neoplasm involving both intrahepatic and extrahepatic bile duct
	47b Lungs and pleura	47b Trachea				162 Malignant neoplasm of trachea, bronchus, and lung
	47c Other respiratory organs	47c Bronchus Bronchogenic cancer Cancer of bronchus 47d Lung Cancer of lung Pulmonary cancer 47e Pleura Cancer of pleura 47f Mediastinum and unspecified sites Cancer of mediastinal gland Mediastinum Cancer of the respiratory system (part not specified)	162 Malignant neoplasm of bronchus and of trachea, and of lung specified as primary 162.0 Trachea Malignant neoplasm of: trachea (specified as primary site) lung (specified as primary site) pleura (specified as primary site) pulmonary (specified as primary site) primary site trachea: NOS primary Pancoast's tumour unless specified as benign 163 Malignant neoplasm of lung and bronchus, unspecified as to whether primary or secondary Malignant neoplasm of: bronchus (unspecified as to whether primary or secondary) lung (unspecified as to whether primary or secondary) pleura (unspecified as to whether primary or secondary) pulmonary (unspecified as to whether primary or secondary)	162.0 Trachea Cartilage of trachea Mucosa of trachea 162.1 Bronchus and lung Malignant neoplasm of bronchus, lung NOS primary Bronchogenic carcinoma Pulmonary carcinoma Pancoast's tumour, unless specified as benign 163 Malignant neoplasm of other and unspecified respiratory organs 163.0 Pleura Malignant neoplasm of pleura specified as primary 162.8 Multiple sites Malignant neoplasm of sites classifiable to more than one of the above subdivisions 163 Malignant neoplasm of lung, unspecified as to whether primary or secondary Malignant neoplasm of: lung (unspecified as to whether primary or secondary) pleura (unspecified as to whether primary or secondary)	162.0 Trachea 162.2 Main bronchus Carina Hilus 162.3 Upper lobe, bronchus or lung 162.4 Middle lobe, bronchus or lung 162.5 Lower lobe, bronchus or lung 162.8 Other Malignant neoplasm of contiguous or overlapping sites of bronchus or lung whose point of origin cannot be determined 162.9 Bronchus and lung, unspecified 163.0 Parietal 163.1 Visceral 163.8 Other Malignant neoplasm of contiguous or overlapping sites of pleura whose point of origin cannot be determined 163.9 Pleura, unspecified	

Note: ICD code for mediastinum and other respiratory was not included after 1948.

(continued)

APPENDIX B (continued)

Site	ICD-4 (1930-1938)	ICD-5 (1939-1948)	ICD-6 (1949-1957)	ICD-7 (1958-1967)	ICD-8A (1968-1978)	ICD-9 (1979-1998)
Ovary, Fallopian tube, and broad ligament	49 Cancer and other malignant tumors of other female genital organs 49a Ovary and Fallopian tube	49 Cancer of the female genital organs 49a Ovary Cancer of ovary Teratoma of ovary 49b Fallopian tube and parametrium Cancer of Fallopian tube Cancer of parametrium	175 Malignant neoplasm of ovary, Fallopian tube, and broad ligament Malignant neoplasm of: broad ligament Fallopian tube ovary oviduct uterine ligament Malignant teratoma (cystic) of: broad ligament Fallopian tube ovary oviduct	175 Malignant neoplasm of ovary, Fallopian tube, and broad ligament 175.0 Ovary Malignant neoplasm of ovary Malignant teratoma (cystic) of ovary 175.1 Fallopian tube and broad ligament Malignant neoplasm of: broad ligament Fallopian tube oviduct uterine ligament Malignant teratoma (cystic) of: broad ligament Fallopian tube ovary oviduct	183 Malignant neoplasm of ovary, Fallopian tube, and broad ligament 183.0 Ovary Dysgerminoma Malignant teratoma (cystic of ovary) 183.1 Fallopian tube and broad ligament Oviduct ligament Round ligament Uterine ligament Utero-ovarian ligament Uterosacral ligament 183.9 Part unspecified Uterine adnexa NOS	183 Malignant neoplasm of ovary and other uterine adnexa 183.0 Ovary 183.2 Fallopian tube Oviduct Uterine tube 183.3 Broad ligament 183.4 Parametrium Uterine ligament NOS 183.5 Round ligament 183.8 Other Malignant neoplasm of contiguous or overlapping sites of ovary whose point of origin cannot be determined 183.9 Uterine adnexa, unspecified
Pancreas	46 Cancer and other malignant tumors of digestive tract and peritoneum 46f Pancreas	46 Cancer of the digestive organs and peritoneum 46g Pancreas Cancer of pancreas	157 Malignant neoplasm of pancreas Malignant islet cell tumour of pancreas Malignant neoplasm of pancreas	157 Malignant neoplasm of pancreas 157.0 Head 157.8 Other specified parts Body of pancreas Neck of pancreas Tail of pancreas 157.9 Unspecified	157 Malignant neoplasm of pancreas 157.0 Head of pancreas 157.1 Body of pancreas 157.2 Tail of pancreas 157.3 Pancreatic duct Duct of: Santorini Wirsung 157.4 Islets of Langerhans Islets of Langerhans, any part of pancreas 157.8 Other Malignant neoplasm of contiguous or overlapping sites of pancreas whose point of origin cannot be determined 157.9 Part unspecified 185 Malignant neoplasm of prostate (excludes seminal vesicles)	157 Malignant neoplasm of pancreas 157.0 Head of pancreas 157.1 Body of pancreas 157.2 Tail of pancreas 157.3 Pancreatic duct Duct of: Santorini Wirsung 157.4 Islets of Langerhans Islets of Langerhans, any part of pancreas 157.8 Other Malignant neoplasm of contiguous or overlapping sites of pancreas whose point of origin cannot be determined 157.9 Part unspecified 185 Malignant neoplasm of prostate (excludes seminal vesicles)
Prostate	51 Cancer and other malignant tumors of the male genitourinary organs 51c Prostate Cancer and other malignant tumors of the digestive tract and peritoneum 46b Stomach and duodenum	51 Cancer of the male genital organs 51b Prostate Cancer of prostate 46 Cancer of the digestive system and peritoneum 46b Stomach Cancer of cardiac orifice of stomach pylorus Cancer of the stomach Gastric cancer	177 Malignant neoplasm of prostate Malignant neoplasm of the prostate gland	177 Malignant neoplasm of prostate Malignant neoplasm of prostate (gland)	185 Malignant neoplasm of prostate	185 Malignant neoplasm of prostate (excludes seminal vesicles)
Stomach	46b Stomach and duodenum	46 Cancer of the digestive system and peritoneum 46b Stomach Cancer of cardiac orifice of stomach pylorus Cancer of the stomach Gastric cancer	151 Malignant neoplasm of stomach Carcinoma ventriculi Gastric cancer Malignant neoplasm of: cardia cardiac orifice	151 Malignant neoplasm of stomach Carcinoma ventriculi Gastric cancer Malignant neoplasm of: cardia cardiac orifice	151 Malignant neoplasm of stomach 151.0 Cardia Cardiac orifice Cardio-esophageal junction 151.1 Pylorus 151.8 Other specified parts Curvature (greater) (lesser) of stomach	151 Malignant neoplasm of stomach 151.0 Cardia Cardiac orifice Cardio-esophageal junction 151.1 Pylorus Prepylorus

Note: ICD code for duodenum was not included after 1938.

APPENDIX B (continued)

Site	ICD-4 (1930-1938)	ICD-5 (1939-1948)	ICD-6 (1949-1957)	ICD-7 (1958-1967)	ICD-8A (1968-1978)	ICD-9 (1979-1998)
Uterus ^a (combined)	48 Cancer and other malignant tumor of the uterus	48 Cancer of the uterus	171 Malignant neoplasm of: pylorus stomach (fundus)	Malignant neoplasm of: pylorus stomach (fundus)	Fundus of stomach 151.9 Part unspecified Carcinoma ventriculi Gastric cancer	Pyloric canal 151.2 Pyloric antrum Antrum of stomach NOS 151.3 Fundus of stomach 151.4 Body of stomach 151.5 Lesser curvature, unspecified Lesser curvature, not classifiable to 151.1-151.4 151.6 Greater curvature, unspecified Greater curvature, not classifiable to 151.0-151.4 151.8 Other Malignant neoplasm of contiguous or overlapping sites of stomach whose point of origin cannot be determined Anterior wall, not classifiable to 151.0-151.4 Posterior wall, not classifiable to 151.0-151.4 151.9 Stomach, unspecified Carcinoma ventriculi Gastric cancer
^a Uterine corpus and uterine cervix are presented as one cancer site because they cannot be separated until 1946.	55b Cancers and other malignant tumors of uterus (nature unspecified)	48a Cervix 48b Other and unspecified sites Cancer of fundus (of uterus) placenta uterus Cancer of womb Decidua malignum Syncytoma	171 Malignant neoplasm of: cervix (uteri) external os uteri 172 Malignant neoplasm of corpus uteri Malignant neoplasm of: body of uterus corpus uteri fundus of uterus 173 Malignant neoplasm of other parts of uterus, including chorionepithelioma Chorionepithelioma Chorionic carcinoma Decidua malignum Malignant change in uterine fibroid Malignant neoplasm of placenta Syncytoma malignum 174 Malignant neoplasm of uterus, unspecified Malignant neoplasm of uterus, unspecified part	171- Malignant neoplasm of cervix uteri Malignant neoplasm of: cervix (uteri) external os uteri 172- Malignant neoplasm of corpus uteri Malignant neoplasm of: body of uterus corpus uteri fundus of uterus 173- Malignant neoplasm of other parts of uterus, including chorionepithelioma (excludes chorionepithelioma in males) Chorionepithelioma Chorionic carcinoma Decidua malignum Malignant change in uterine fibroid Malignant neoplasm of placenta Syncytoma (malignum) 174- Malignant neoplasm of uterus, unspecified Malignant neoplasm of uterus NOS	180_ Malignant neoplasm of cervix uteri 181_ Malignant neoplasm of chorionepithelioma Chorionepithelioma Chorionic carcinoma Decidua malignum Malignant neoplasm of placenta 182 Other malignant neoplasm of uterus 182.0 Corpus uteri Body of uterus Endometrium Fundus of uterus Myometrium 182.9 Uterus, unspecified Malignant change in uterine fibroid 182 Malignant neoplasm of body of uterus 182.0 Corpus uteri except isthmus Cornu Endometrium Fundus Myometrium 182.1 Isthmus Lower uterine segment 182.8 Other Malignant neoplasm of contiguous or overlapping sites of body of uterus whose point of origin cannot be determined	179 Malignant neoplasm of uterus, part unspecified 180 Malignant neoplasm of cervix uteri 180.0 Endocervix Cervical canal Endocervical canal Endocervical gland 180.1 Exocervix 180.8 Other Malignant neoplasm of contiguous or overlapping sites of cervix uteri whose point of origin cannot be determined 180.9 Cervix uteri, unspecified 181_ Malignant neoplasm of placenta Chorionepithelioma NOS Chorionepithelioma NOS Excludes: chorionadenoma (desmues) hydatidiform mole malignant 182 Malignant neoplasm of body of uterus 182.0 Corpus uteri except isthmus Cornu Endometrium Fundus Myometrium 182.1 Isthmus Lower uterine segment 182.8 Other Malignant neoplasm of contiguous or overlapping sites of body of uterus whose point of origin cannot be determined