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SURVEILLANCE REPORT #123

LIVER CIRRHOSIS MORTALITY IN THE UNITED STATES: NATIONAL, STATE, AND REGIONAL TRENDS, 2000–2023

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HIGHLIGHTS

This surveillance report, prepared biennially by the Alcohol Epidemiologic Data System (AEDS), National Institute on Alcohol Abuse and Alcoholism (NIAAA), presents trends in liver cirrhosis mortality in the United States. Data on the underlying cause of death were compiled from public use data files published annually by the National Center for Health Statistics (NCHS). Population data from the U.S. Census Bureau and NCHS were used as denominators to calculate mortality rates.

The age-adjusted death rate from liver cirrhosis in the United States increased steadily, from 11.9 deaths per 100,000 population at the end of Prohibition in 1933 to a peak of 18.1 deaths per 100,000 population in 1973, and then steadily declined for three decades until 2006, at 9.0 deaths per 100,000 population. However, this trend reversed course and increased up to the COVID-19 pandemic era, reaching 15.5 deaths per 100,000 population in 2021, but dropped to 14.1 deaths per 100,000 population by 2023. Sex differences in alcohol-related liver cirrhosis, also known as alcohol-associated liver disease, mortality across ages reflected the consequences of a consistent but narrowing gender gap in alcohol consumption. The following are highlights of liver cirrhosis mortality in 2023 and its trends from 2000 through 2023.

Cirrhosis Mortality in 2023

- In 2023, cirrhosis was the 9th leading cause of death in the United States, accounting for a total of 56,975 deaths—2,409 fewer than in 2022. The crude death rate from all cirrhosis was 17.0 deaths per 100,000 population, down 4.5 percent from the 2022 estimate of 17.8, and the rate from alcohol-related cirrhosis was 8.5, 7.8 percent lower than the 2022 estimate of 9.3.
- Of all cirrhosis deaths, 50.3 percent (28,632 deaths) were alcohol related. The proportion of alcohol-related cirrhosis was highest (80.3 percent) among decedents ages 25 to 34, followed by decedents ages 35 to 44, at 75.6 percent. The gender gap in the proportion of alcohol-related cirrhosis was smaller among those who died before reaching age 55 than among those in older age groups.
- The age-adjusted death rate from cirrhosis for Hispanic White males was 1.3 times the rate for non-Hispanic White males and 2.2 times the rate for non-Hispanic Black males. The rate for Hispanic White females was 1.1 times the rate for non-Hispanic White females and 1.9 times the rate for non-Hispanic Black females.
- Wide variations existed across Hispanic subgroups. The 5-year annual average of the age-adjusted death rate from all cirrhosis was highest among Mexican-origin Hispanics and lowest among Cuban-origin Hispanics, in both males and females.

Cirrhosis Mortality Trends

- Although the age-adjusted all-cause mortality rate declined by 13.6 percent from 2000 to 2023, the death rate from cirrhosis over the same period increased dramatically by 46.1 percent, from 9.7 to 14.1 deaths per 100,000 population. This rise was not uniform across racial groups. Rates for White males and females increased by 43.0 percent and 89.1 percent, respectively. By contrast, the rate for Black males declined by 21.8 percent, and the rate for Black females increased slightly by 1.8 percent.
- The age-adjusted death rate from cirrhosis for males was approximately twice that of females (with the male-to-female ratio declining from 2.2 in 2000 to 1.7 in 2023), but the ratio varied slightly by race/Hispanic origin.
- The age-adjusted death rate from alcohol-related cirrhosis surged by 72.2 percent, rising from 4.3 deaths per 100,000 population in 2000 to 7.4 deaths per 100,000 population in 2023. Specifically, rates for males and females increased by 51.2 percent and 125 percent, respectively. Among White males and females, the rates increased by 66.0 percent and 157 percent, respectively. However, the rate for Black males declined by 16.9 percent, and the rate for Black females increased by 9.7 percent.
- The age-specific death rate from cirrhosis increased substantially between 2000 and 2023 across age groups: 25–34 (234 percent), 35–44 (49.8 percent), 45–54 (27.1 percent), 55–64 (56.0 percent), 65–74 (40.6 percent), 75–84 (43.5 percent), and 85 or older (65.5 percent).
- Between 2000–2002 and 2021–2023, every state except the District of Columbia saw an increase in the 3-year average of the age-adjusted death rate from cirrhosis.

Healthy People 2030 Objectives

- One of the objectives of *Healthy People 2030* is to reduce age-adjusted death rates from cirrhosis, not including portal hypertension and fatty (change of) liver not elsewhere classified, to no more than 10.9 deaths per 100,000 population. To achieve this goal, the age-adjusted death rate must decrease by at least 2.5 percent per year from 2023 through 2030.

INTRODUCTION

This surveillance report on liver cirrhosis mortality is one of a series of three reports published biennially to monitor trends in alcohol consumption and alcohol-associated liver disease (or alcohol-related liver cirrhosis) mortality in the United States. These surveillance reports are prepared by the Alcohol Epidemiologic Data System (AEDS), Division of Epidemiology and Prevention Research, National Institute on Alcohol Abuse and Alcoholism (NIAAA), and are intended to be useful to researchers, policymakers, and other professionals interested in alcohol misuse and its long-term effects. The data are also essential in assessing progress toward meeting the Nation's health promotion and disease prevention objective of reducing cirrhosis mortality, as stated in *Healthy People 2030* (U.S. Department of Health and Human Services [HHS] n.d.).

Cirrhosis of the liver is an outcome caused by a variety of factors, including alcohol consumption, obesity, exposure to various drugs and toxic chemicals, viral hepatitis, and other viral and infectious diseases (Goldberg and Chopra 2024a; Huang et al. 2023b; Jain and Saxena 2024; Scaglione et al. 2015; Wahlang et al. 2013; Zakhari 2013). It has been well established that alcohol misuse is a major contributor to deaths from cirrhosis and the related condition of alcoholic hepatitis (Huang et al. 2023a; Mackowiak et al. 2024; Mann et al. 2003; Osna et al. 2017; Rehm and Shield 2019; Roerecke et al. 2019; Szabo and Mandrekar 2010). The recent decline in Hepatitis C deaths, due to improvements in treatment options (Kim et al. 2018; Lee and Terrault 2019; Pageaux et al. 2022), has increased the relative contribution of alcohol consumption to cirrhosis mortality.

Heavy and prolonged alcohol consumption are key determinants of liver disease development, with women being more susceptible than men (Ding et al. 2023; Kezer et al. 2021; Llamosas-Falcón et al. 2022, 2024; Hernández-Évole et al. 2024; Park et al. 2022). As the primary site for detoxification of alcohol

by oxidation of its metabolites, the liver can undergo three pathologies: fatty liver, alcoholic hepatitis, and cirrhosis. Patients with cirrhosis are susceptible to infections and complications, and their prognosis is highly variable (Bajaj et al. 2021; Goldberg and Chopra 2024b; Piano et al. 2024; Premkumar and Anand 2022). Other than liver transplantation, no established medical treatment is capable of fully reversing liver damage, particularly in cases of advanced cirrhosis characterized by extensive scarring and severe vascular alterations (Dezső et al. 2022; Singh et al. 2017; Tapper and Parikh 2023). It is important to note that alcohol-associated liver disease is frequently diagnosed at later stages (Shah et al. 2019) and continued to be the primary reason for liver transplants among adults, representing 38.6% of all cases in 2022 (Kwong et al. 2024). In earlier stages, if patients with cirrhosis resulting from alcohol consumption abstain from further alcohol use, the consequences of this disease can be treated, and their lives can be prolonged (Crabb et al. 2020; Lackner et al. 2017; Xie et al. 2014). Early detection of liver fibrosis through screening, combined with integrated liver and addiction care—including interventions for alcohol misuse and strategies to prevent further liver damage—as well as the identification of vulnerable populations, is crucial for prolonging life expectancy and improving health disparities in liver cirrhosis (Anouti et al. 2024; Ginès et al. 2022; Haque et al. 2024; Jones et al. 2023; Kardashian et al. 2023; Singal et al. 2024).

The coding scheme used in the United States to classify cause of death is the International Classification of Diseases (ICD), a statistical classification of disease and injury widely used by countries supporting mortality reporting systems. ICD codes classify the cause of death from cirrhosis as either related to alcohol or not related to alcohol. However, because of the stigma associated with excessive alcohol use, some physicians and other officials who certify causes of death may not identify alcohol in the case of a death from

cirrhosis in an effort to protect the decedent's family members. Furthermore, it is difficult to determine the alcohol-relatedness of a cirrhosis death without knowing the decedent's history of alcohol consumption. As a result, alcohol-associated liver disease mortality can be significantly underreported. For instance, from 2000 to 2023, the proportion of all cirrhosis deaths coded as alcohol related ranged from 43.6 to 54.3 percent (depending on year). However, some researchers believe alcohol might have contributed to a substantially higher proportion of all deaths from cirrhosis (Crabb et al. 2020; Haberman and Weinbaum 1990; Powell and Klatskin 1968; Puffer and Griffith 1967; Ramstedt 2003; Stein et al. 2016). Therefore, this surveillance report examines all cirrhosis deaths as well as those that are explicitly coded as alcohol related.

This report has been presenting national data since its first issue, published in 1986. Beginning with its 2014 issue, the report added data for States and Census Regions, and the report's title was revised accordingly. The current report focuses on data in the 2000s and onward to closely monitor the emerging trends and patterns in cirrhosis mortality. To provide readers with a quick reference of the historical trend, the report retains one table and one figure on national total cirrhosis mortality from 1910 to the present. Detailed national data for 1970–1999 are available online in the 2012 issue of this report (<http://pubs.niaaa.nih.gov/publications/Surveillance93/Cirr09.pdf>).

DATA SOURCES

Death counts and rates in this report are based on a single underlying cause of each death, defined as “the disease or injury which initiated the train of morbid events leading directly or indirectly to death or circumstances of the accident or violence which produced the fatal injury” (National Center for Health Statistics [NCHS] 1982). This approach is consistent with other mortality statistics reported by NCHS.

Cirrhosis death records for national trends for 1970–2023 were extracted from public use mortality data files produced by NCHS. These data files contained individual records of each death occurring in the United States, except for data files for 1972, which contained only a 50-percent sample of all U.S. deaths. The deaths counted in this report are for U.S. residents only. Deaths of foreign residents in the United States are not counted. Cirrhosis death data for States and Census Regions for 2000–2023 were obtained from the CDC WONDER online mortality database using its query system (<https://wonder.cdc.gov/>).

Historical cirrhosis mortality rates for 1910–1969 (presented in Figure 1 and Table 1) were calculated using historical government documents made available online by NCHS (<https://www.cdc.gov/nchs/products/vsus.htm>). For 1910–1919, the data sources included the National Office of Vital Statistics special report (1956) and intercensal resident population estimates in death registration States developed by the Bureau of the Census and presented in Linder and Grove (1943). For 1920–1969, the data sources included the annual reports of the Mortality Statistics (Bureau of the Census 1922–1938) and Vital Statistics in the United States (Bureau of the Census 1939–1946; NCHS 1961–1974; National Office of Vital Statistics 1947–1951 and 1953–1960). Note that all historical mortality statistics were based on numbers obtained through State death registration offices. Before 1933, not all States collected death registration information. The changing number of death registration States impeded the process of obtaining comparable mortality data for the United States before 1933.

Population data from various estimates provided by the U.S. Census Bureau and NCHS were used as denominators for calculating mortality rates in this report. Appendix A lists the detailed data sources for population estimates at the national and State levels and for Hispanic subgroups.

Crosswalk of ICD-10 codes to ICD-9 codes and ICDA-8 codes

ICD-10	ICD-9	ICDA-8
K70.0 Alcoholic fatty liver	571.0 Alcoholic fatty liver	571.0 Alcohol-related liver cirrhosis
K70.1 Alcoholic hepatitis	571.1 Acute alcoholic hepatitis	
K70.2 Alcoholic fibrosis and sclerosis of liver	571.2 Alcoholic cirrhosis of liver	
K70.3 Alcoholic cirrhosis of liver		
K70.9 Alcoholic liver disease, unspecified	571.3 Alcoholic liver damage, unspecified	
K70.4 Alcoholic hepatic failure		571.8 Specified liver cirrhosis without mention of alcohol
K73.0 Chronic persistent hepatitis, not elsewhere classified (n.e.c.) K73.1 Chronic lobular hepatitis, n.e.c. K73.2 Chronic active hepatitis, n.e.c. K73.8 Other chronic hepatitis, n.e.c. K73.9 Chronic hepatitis, unspecified	571.4 Chronic hepatitis	
K74.3 Primary biliary cirrhosis K74.4 Secondary biliary cirrhosis K74.5 Biliary cirrhosis, unspecified	571.6 Biliary cirrhosis	
K76.0 Fatty (change of) liver, n.e.c. ¹	571.8 Other chronic nonalcoholic liver disease	
K76.6 Portal hypertension ¹	572.3 Portal hypertension	
K74.0 Hepatic fibrosis K74.2 Hepatic fibrosis with hepatic sclerosis K74.6 Other and unspecified cirrhosis of liver	571.5 Cirrhosis of the liver without mention of alcohol	571.9 Unspecified liver cirrhosis without mention of alcohol
K74.1 Hepatic sclerosis	571.9 Unspecified liver cirrhosis without mention of alcohol	

¹ Not defined as liver cirrhosis by NCHS.

METHODS

Definitions and Subclassifications of Liver Cirrhosis

This report presents data for three major subcategories of liver cirrhosis: alcohol-related liver cirrhosis, specified liver cirrhosis without mention of alcohol, and unspecified liver cirrhosis without mention of alcohol (see the last column of the table “Crosswalk of ICD-10 codes to ICD-9 codes and ICDA-8 codes” on page 4). When the case numbers are small, the latter two subcategories are combined into one and labeled

as “all other cirrhosis without mention of alcohol.”

During the long period (1910–2023) for which historical mortality statistics are shown in this report, cause of death was classified according to nine revisions of the ICD. The ICD has been revised periodically to reflect progress in medical knowledge, with later revisions generally providing greater specificity of coding.

The eighth (NCHS 1968), ninth (World Health Organization [WHO] 1978), and tenth (WHO 1992) revisions of the ICD (ICDA-8,

ICD-9, and ICD-10, implemented in 1968, 1979, and 1999, respectively) provide for coding categories of cirrhosis with and without mention of alcohol. ICD-9 uses different categories for cirrhosis than ICDA-8. ICD-10 uses twice as many categories for cirrhosis as does ICD-9. To examine trends for comparable diseases over time, ICD-9 and ICD-10 categories must be matched and recoded to those consistent with ICDA-8 categories. The relevant crosswalk of the three ICD revisions, developed by AEDS staff in collaboration with NIAAA's former Division of Biometry and Epidemiology (DBE), is shown in the table "Crosswalk of ICD-10 codes to ICD-9 codes and ICDA-8 codes." As the ICD-10 column shows, this report includes portal hypertension (ICD code K76.6) and fatty (change of) liver not elsewhere classified (n.e.c.) (ICD code K76.0) among cirrhosis categories. Because NCHS counts only ICD codes K70, K73, and K74 as liver cirrhosis, numbers presented in this report are slightly larger than those reported by NCHS.

Race and Hispanic Origin of Decedent

Data presented in this report include White and Black race categories. Other races such as American Indian/Alaska Native and Asian/Pacific Islander are not shown separately but are subsumed within the "all races" category. In compliance with the "Revisions to the Standards for the Classification of Federal Data on Race and Ethnicity" (Office of Management and Budget 1997), the 2003 revision of the U.S. Standard Certificate of Death introduced the option to report more than one race, or multiple races. Initially, only seven states (California, Hawaii, Idaho, Maine, Montana, New York, and Wisconsin) adopted this in 2003. However, by 2018, all states and the District of Columbia had begun reporting multiple races on death certificates (Xu et al. 2021). From 2003 to 2020, the National Center for Health Statistics 'bridged' multiple races to a single race. This was done to ensure uniformity over time and

comparability between death certificates and population estimates. During this process, a single race was assigned to multiracial decedents based on the combination of races, Hispanic origin, sex, and age indicated on their death certificates (Weed 2004). However, with the completion of the transition to collecting multiple-race data in 2018, NCHS discontinued the practice of bridging races on mortality data from 2021 onwards. For trend analysis by race, a break in the data series occurs in 2020 due to this methodological shift. That year marks the transition from bridged-race estimates to single-race estimates, which are introduced for the first time in this report.

Vital statistics data also provide information on the Hispanic origin (also known as ethnicity) of decedents. From 2000 through 2023, the percentage of cirrhosis deaths with unknown Hispanic origin was less than 1 percent for both Black and White decedents. In 2023, only 0.3 percent of cirrhosis decedents had an "unknown" classification for Hispanic origin. The tables and figures showing data based on Hispanic origin excluded decedents for whom Hispanic origin could not be determined. Readers are cautioned that rates calculated for Black Hispanics are unreliable because of the small number of cirrhosis deaths in this population subgroup.

After continuous, rapid population growth over the past few decades, Hispanics became the largest minority group in the United States in 2001 (U.S. Census Bureau 2011). Although Hispanics often are considered one ethnic group, they are well known for heterogeneity by country of origin in terms of socioeconomic status and drinking patterns, which may well affect cirrhosis mortality. To provide information on Hispanic subgroup differences, this report presents additional data on cirrhosis mortality rates for four major Hispanic subgroups: Mexican-origin, Puerto Rican-origin, Cuban-origin, and Other Hispanics.

Mortality Measures

For epidemiologic purposes, mortality rates are used to compare the frequency of death from a disease or condition. The following measures are used in this report to assess trends in liver cirrhosis mortality:

- *Unadjusted (or crude) death rates*—These are summary measures calculated by dividing the total number of deaths from cirrhosis (or subcategories) in the population in a certain year by the total number of individuals in that population in that year (i.e., population at risk). Problems can arise when comparing crude rates between various years to assess any change in mortality over time because the populations at risk may differ with respect to an underlying characteristic such as age, race, or sex. For example, an older population tends to have a higher rate of death for a target disease than a younger population because death from disease is more common in an aging population. In this case, rates in different populations should be assessed by comparing age-specific rates and age-adjusted rates.
- *Age-specific death rates*—These rates for any year refer to the number of deaths from liver cirrhosis (or subcategories) in a defined age interval, divided by the total number of persons in that age interval. For a given age interval, examining age-specific rates for various years allows comparison of mortality rates among subgroups of the population that do not differ in their age distribution. Age-specific rates also provide a basis for detailed study of the variation of mortality rates among different age intervals in any single year.
- *Age-adjusted death rates*—These are statistically constructed summary rates that account for differences in mortality, regardless of any difference in the age distribution between populations. Age adjustment assumes that populations have the same age distribution and applies a standard age distribution to the calculation of age-adjusted rates for various populations. Therefore, when comparing age-

adjusted rates of two populations, any differences between the rates can no longer be attributed to the difference in the age distribution between the two populations. Age adjustment is crucial for standardizing rates over many years because the U.S. population has grown progressively older in recent decades. Without age adjustment, any apparent increases in unadjusted mortality rates for cirrhosis (or any other disease) could be due to the fact that older people are more likely to die from disease.

According to the HHS requirement (1998), this report applies the year 2000 standard population to the calculation of all age-adjusted death rates (replacing the 1940 standard population used in issues published before 2002).¹

Age-adjusted death rates presented in this report were computed by using 10-year age intervals of the enumerated population of the United States in 2000 as the standard population. Results from the age adjustment allow for meaningful comparison of similar rates over long periods of time or from different subpopulations. The basic procedure involves finding the expected number of deaths that would have existed if the age-specific rates for a particular year prevailed in a population whose age distribution was like that of the United States in 2000. This was accomplished by multiplying the specific rates for each age group by the population estimate for the corresponding age group in the standard population. The age-adjusted death rate was then calculated by adding the expected number of deaths for each age group and dividing this sum by the total population estimate taken as the standard.

Rates for Hispanic subgroups are based on 5-year annual moving averages to increase the reliability of these estimates. Readers are cautioned that the rates are subject to sampling variability of the population data (denominator) drawn from either the Current Population

Survey or the American Community Survey as well as random variations of the death counts (numerator) drawn from the mortality data.

Rates for States and Census Regions are based on 3-year annual moving averages to increase the reliability of these estimates.

Limitations

There is no standard definition of liver cirrhosis deaths. This report is based on the NIAAA definition (Stinson et al. 2001), which includes more ICD codes than the NCHS definition but fewer than the WHO Global Burden of Disease definition (Mokdad et al. 2014). The NIAAA definition does not include

¹ Standard population age distribution:

Age group	Number	
	1940	2000
0 to 24 years	432,093	97,039,882
25 to 34 years	162,066	37,233,437
35 to 44 years	139,237	44,659,185
45 to 54 years	117,811	37,030,152
55 to 64 years	80,294	23,961,506
65 to 74 years	48,426	18,135,514
75 to 84 years	17,303	12,314,793
85+ years	2,770	4,259,173
All ages	1,000,000	274,633,642

Source: Murphy (2000) for 1940 age standard; Miniño et al. (2007) for 2000 age standard.

those deaths with an underlying cause of viral hepatitis, other liver diseases, and some other complications of liver diseases. Death numbers and the corresponding mortality trends over time can differ when estimated using different definitions (Asrani et al. 2013; Manos et al. 2008; Vong and Bell 2004).

The introduction of ICD-10 for 1999 data brought changes in rules for selecting the underlying cause of death and new categories. These new rules and categories may contribute to observed changes in the number of deaths from liver cirrhosis. Anderson and colleagues (2001) conducted a comparability study that estimated

that the use of ICD-10 would classify an additional 3.67 percent of deaths as due to cirrhosis when compared with ICD-9. Readers should keep this in mind when examining trends involving data from 1999 and later years. In addition, NCHS implemented coding changes in 2007 that resulted in more deaths being assigned to alcoholic liver disease (ICD-10 code K70). Therefore, the unusually big increase in cirrhosis deaths observed from 2006 to 2007 may be largely due to these coding changes (Xu et al. 2010).

REFERENCES

- Anouti, A.; Kerr, T.A.; Mitchell, M.C.; and Cotter, T.G. Advances in the management of alcohol-associated liver disease. *Gastroenterology Report* 12, goae097, 2024.
- Anderson, R.N.; Miniño, A.M.; Hoyert, D.L.; and Rosenberg, H.M. Comparability of Cause of Death between ICD-9 and ICD-10: Preliminary Estimates. *National Vital Statistics Reports*, Vol. 49, No. 2. Hyattsville, MD: National Center for Health Statistics, 2001.
- Arias, E.; Anderson, R.N.; Kung, H.C.; Murphy, S.L.; and Kochanek, K.D. Deaths: Final Data for 2001. *National Vital Statistics Reports*, Vol. 52, No. 3. Hyattsville, MD: National Center for Health Statistics, 2003.
- Asrani, S.K.; Larson, J.J.; Yawn, B.; Therneau, T.M.; and Kim, W.R. Underestimation of liver-related mortality in the United States. *Gastroenterology* 145(2):375–382, 2013.
- Bajaj, J.S.; Kamath, P.S.; and Reddy, K.R. The evolving challenge of infections in cirrhosis. *New England Journal of Medicine* 384(24):2317–2330, 2021.
- Bureau of the Census. *Mortality Statistics (Data for Years 1920–1936)*. Washington, DC: Department of Commerce, 1922–1938. Available at: <https://www.cdc.gov/nchs/products/vsus.htm>. Accessed May 15, 2024.
- Bureau of the Census. *Vital Statistics of the United States (Data for Years 1937–1944)*. Washington, DC: Department of Commerce, 1939–1946. Available at: <https://www.cdc.gov/nchs/products/vsus.htm>. Accessed May 15, 2024.
- Crabb, D.W.; Im, G.Y.; Szabo, G.; Mellinger, J.L.; and Lucey, M.R. Diagnosis and treatment of alcohol-associated liver diseases: 2019 practice guidance from the American Association for the Study of Liver Diseases. *Hepatology* 71:306, 2020.
- Department of Health and Human Services. *HHS Policy for Changing the Population Standard for Age*

- Adjusting Death Rates*. Memorandum from the Secretary. Washington, DC: DHHS, August 26, 1998. Available at: <https://aspe.hhs.gov/datacncl/ageadj.htm>. Accessed May 15, 2024.
- Dezső, K.; Paku, S.; Kóbori, L.; Thorgeirsson, S.S.; and Nagy, P. What makes cirrhosis irreversible?—consideration on structural changes. *Frontiers in Medicine* 9:876293, 2022.
- Ding, C.; Ng Fat, L.; Britton, A.; Im, P.K.; Lin, K.; Topiwala, A.; Li, L.; Chen, Z.; Millwood, I.Y.; Bell, S.; and Mehta, G. Binge-pattern alcohol consumption and genetic risk as determinants of alcohol-related liver disease. *Nature Communications* 14(1):8041, 2023.
- Ginès, P.; Castera, L.; Lammert, F.; Graupera, I.; Serra-Burriel, M.; Allen, A.M.; Wong, V.W.-S.; Hartmann, P.; Thiele, M.; Caballeria, L.; de Knegt, R.J.; Grgurevic, I.; Augustin, S.; Tsochatzis, E.A.; Schattenberg, J.M.; Guha, I.N.; Martini, A.; Morillas, R.M.; Garcia-Retortillo, M.; de Koning, H.J.; Fabrellas, N.; Pich, J.; Ma, A.T.; Diaz, M.A.; Roulot, D.; Newsome, P.N.; Manns, M.; Kamath, P.S.; Krag, A.; and LiverScreen Consortium Investigators. Population screening for liver fibrosis: Towards early diagnosis and intervention for chronic liver diseases. *Hepatology* 75(1):219, 2022.
- Goldberg, E.; and Chopra, S. Cirrhosis in adults: Etiologies, clinical manifestations, and diagnosis. In: *UpToDate*, Post, T.W. (ed.), Waltham, MA: UpToDate, 2024a.
- Goldberg, E.; and Chopra, S. Cirrhosis in adults: Overview of complications, general management, and prognosis. In: *UpToDate*, Post, T.W. (ed.), Waltham, MA: UpToDate, 2024b.
- Grove, R.D.; and Hetzel, A.M. *Vital Statistics Rates in the United States, 1940–1960*. Public Health Service Publication No. 1677. Washington, DC: Department of Health, Education, and Welfare, Public Health Service, National Center for Health Statistics, 1968.
- Haberman, P.W.; and Weinbaum, D.F. Liver cirrhosis with and without mention of alcohol as cause of death. *British Journal of Addiction* 85(2):217–222, 1990.
- Haque, L.Y.; Zuluaga, P.; Muga, R.; and Fuster, D. Treatment of alcohol use disorder in patients with alcohol-associated liver disease: Innovative approaches and a call to action. *Addiction Science & Clinical Practice* 19:19, 2024.
- Hernández-Évole, H.; Jiménez-Esquível, N.; Pose, E.; and Bataller, R. Alcohol-associated liver disease: Epidemiology and management. *Annals of Hepatology* 29:101162, 2024.
- Heron, M.; Hoyert, D.L.; Murphy, S.L.; Xu, J.; Kochanek, K.D.; and Tejada-Vera, B. Deaths: Final Data for 2006. *National Vital Statistics Reports*, Vol. 57, No. 14. Hyattsville, MD: National Center for Health Statistics, 2009.
- Hoyert, D.L.; Heron, M.P.; Murphy, S.L.; and Kung, H.C. Deaths: Final Data for 2003. *National Vital Statistics Reports*, Vol. 54, No. 13. Hyattsville, MD: National Center for Health Statistics, 2006.
- Huang, D.Q.; Mathurin, P.; Cortez-Pinto, H.; and Loomba, R. Global epidemiology of alcohol-associated cirrhosis and HCC: Trends, projections and risk factors. *Nature Reviews Gastroenterology & Hepatology* 20:37–49, 2023a.
- Huang, D.Q.; Terrault, N.A.; Tacke, F.; Gluud, L.L.; Arrese, M.; Bugianesi, E.; and Loomba, R. Global epidemiology of cirrhosis—etiopathology, trends and predictions. *Nature Reviews Gastroenterology & Hepatology* 20:388–398, 2023b.
- Jain, P.; and Saxena, P. Machine learning based liver cirrhosis detection using different algorithm: A review. *International Journal of Scientific Research in Science and Technology* 11:69–78, 2024.
- Jones, P.D.; Lai, J.C.; Bajaj, J.S.; and Kanwal, F. Actionable solutions to achieve health equity in chronic liver disease. *Clinical Gastroenterology and Hepatology* 21:1992–2000, 2023.
- Kardashian, A.; Serper, M.; Terrault, N.; and Nephew, L.D. Health disparities in chronic liver disease. *Hepatology* 77:1382, 2023.
- Kezer, C.A.; Simonetto, D.A.; and Shah, V.H. Sex differences in alcohol consumption and alcohol-associated liver disease. *Mayo Clinic Proceedings* 96: 1006–1016, 2021.
- Kim, D.; Li, A.A.; Gadiparthi, C.; Khan, M.A.; Cholankeril, G.; Glenn, J.S.; and Ahmed, A. Changing trends in etiology-based annual mortality from chronic liver disease, from 2007 through 2016. *Gastroenterology* 155(4):1154–1163, 2018.
- Kochanek, K.D.; Murphy, S.L.; Anderson, R.N.; and Scott, C. Deaths: Final Data for 2002. *National Vital Statistics Reports*, Vol. 53, No. 5. Hyattsville, MD: National Center for Health Statistics, 2004.
- Kochanek, K.D.; Murphy, S.L.; and Xu, J. Deaths: Final Data for 2011. *National Vital Statistics Reports*, Vol. 63, No. 3. Hyattsville, MD: National Center for Health Statistics, 2015.
- Kochanek, K.D.; Murphy, S.L.; Xu, J.; and Arias, E. Deaths: Final Data for 2017. *National Vital Statistics Reports*, Vol. 68, No. 9. Hyattsville, MD: National Center for Health Statistics, 2019.
- Kochanek, K.D.; Murphy, S.L.; Xu, J.; and Tejada-Vera, B. Deaths: Final Data for 2014. *National Vital Statistics Reports*, Vol. 65, No. 4. Hyattsville, MD: National Center for Health Statistics, 2016.
- Kochanek, K.D.; Xu, J.; Murphy, S.L.; Miniño, A.M.; and Kung, H.C. Deaths: Final Data for 2009. *National Vital Statistics Reports*, Vol. 60, No. 3. Hyattsville, MD: National Center for Health Statistics, 2011.

- Kung, H.C.; Hoyert, D.L.; Xu, J.; and Murphy, S.L. Deaths: Final Data for 2005. *National Vital Statistics Reports*, Vol. 56, No. 10. Hyattsville, MD: National Center for Health Statistics, 2008.
- Kwong, A.J.; Kim, W.R.; Lake, J.R.; Schladt, D.P.; Schnellinger, E.M.; Gauntt, K.; McDermott, M.; Weiss, S.; Handarova, D.K.; Snyder, J.J.; and Israni, A.K. OPTN/SRTR 2022 Annual Data Report: Liver. *American Journal of Transplantation* 24:S176–S265, 2024.
- Lackner, C.; Spindelboeck, W.; Haybaeck, J.; Douschan, P.; Rainer, F.; Terracciano, L.; Haas, J.; Berghold, A.; Bataller, R.; and Stauber, R.E. Histological parameters and alcohol abstinence determine long-term prognosis in patients with alcoholic liver disease. *Journal of Hepatology* 66:610–618, 2017.
- Lee, B.P.; and Terrault, N.A. Liver-related mortality in the United States: Hepatitis C declines, non-alcoholic fatty liver and alcohol rise. *Translational Gastroenterology and Hepatology* 4:19, 2019.
- Linder, F.E.; and Grove, R.D. *Vital Statistics Rates in the United States: 1900–1940*. Washington, DC: Department of Commerce, Bureau of the Census, 1943.
- Llamas-Falcón, L.; Probst, C.; Buckley, C.; Jiang, H.; Lasserre, A.M.; Puka, K.; Tran, A.; Zhu, Y.; and Rehm, J. How does alcohol use impact morbidity and mortality of liver cirrhosis? A systematic review and dose–response meta-analysis. *Hepatology International* 18(1):216–224, 2024.
- Llamas-Falcón, L.; Probst, C.; Buckley, C.; Jiang, H.; Lasserre, A.M.; Puka, K.; Tran, A.; and Rehm, J. Sex-specific association between alcohol consumption and liver cirrhosis: An updated systematic review and meta-analysis. *Frontiers in Gastroenterology (Lausanne)* 1:1005729, 2022.
- Mackowiak, B.; Fu, Y.; Maccioni, L.; and Gao, B. Alcohol-associated liver disease. *The Journal of Clinical Investigation* 134(3):e176345, 2024.
- Mann, R.E.; Smart, R.G.; and Govoni, R. The epidemiology of alcoholic liver disease. *Alcohol Research & Health* 27(3):209–219, 2003.
- Manos, M.M.; Leyden, W.A.; Murphy, R.C.; Terrault, N.A.; and Bell, B.P. Limitations of conventionally derived chronic liver disease mortality rates: Results of a comprehensive assessment. *Hepatology* 47(4):1150–1157, 2008.
- Miniño, A.M.; Arias, E.; Kochanek, K.D.; Murphy, S.L.; and Smith, B.L. Deaths: Final Data for 2000. *National Vital Statistics Reports*, Vol. 50, No. 15. Hyattsville, MD: National Center for Health Statistics, 2002.
- Miniño, A.M.; Heron, M.P.; Murphy, S.L.; and Kochanek, K.D. Deaths: Final Data for 2004. *National Vital Statistics Reports*, Vol. 55, No. 19. Hyattsville, MD: National Center for Health Statistics, 2007.
- Miniño, A.M.; Murphy, S.L.; Xu, J.; and Kochanek, K.D. Deaths: Final Data for 2008. *National Vital Statistics Reports*, Vol. 59, No. 10. Hyattsville, MD: National Center for Health Statistics, 2011.
- Mokdad, A.A.; Lopez, A.D.; Shahraz, S.; Lozano, R.; Mokdad, A.H.; Stanaway, J.; Murray, C.J.; and Naghavi, M. Liver cirrhosis mortality in 187 countries between 1980 and 2010: A systematic analysis. *BMC Medicine* 12:145, 2014.
- Murphy, S.L. Deaths: Final Data for 1998. *National Vital Statistics Reports*, Vol. 48, No. 11. Hyattsville, MD: National Center for Health Statistics, 2000.
- Murphy, S.L.; Kochanek, K.D.; Xu, J.; and Heron, M. Deaths: Final Data for 2012. *National Vital Statistics Reports*, Vol. 63, No. 9. Hyattsville, MD: National Center for Health Statistics, 2015.
- Murphy, S.L.; Xu, J.; and Kochanek, K.D. Deaths: Final Data for 2010. *National Vital Statistics Reports*, Vol. 61, No. 4. Hyattsville, MD: National Center for Health Statistics, 2013.
- Murphy, S.L.; Xu, J.; Kochanek, K.D.; Arias, E.; and Tejada-Vera, B. Deaths: Final Data for 2018. *National Vital Statistics Reports*, Vol. 69, No. 13. Hyattsville, MD: National Center for Health Statistics, 2021.
- Murphy, S.L.; Xu, J.; Kochanek, K.D.; Curtin, S.C.; and Arias, E. Deaths: Final Data for 2015. *National Vital Statistics Reports*, Vol. 66, No. 6. Hyattsville, MD: National Center for Health Statistics, 2017.
- National Cancer Institute. *U.S. Population Data*. Bethesda, MD: NCI, 2002. Available at: <http://seer.cancer.gov/popdata/download.html>. Accessed May 15, 2024.
- National Center for Health Statistics. *Vital Statistics of the United States (Data for Years 1959–1969)*. Washington, DC: U.S. Department of Health, Education, and Welfare, Public Health Service, 1961–1974. Available at: <https://www.cdc.gov/nchs/products/vsus.htm>. Accessed May 15, 2024.
- National Center for Health Statistics. *Eighth Revision, International Classification of Diseases Adapted for Use in the United States*. DHEW Pub. No. PHS 1693. Washington, DC: U.S. Department of Health, Education, and Welfare, 1968.
- National Center for Health Statistics. *Instructions for Classifying the Underlying Cause of Death*, 1983. Hyattsville, MD: National Center for Health Statistics, September 1982.
- National Center for Health Statistics. Bridged-race Intercensal Estimates of the July 1, 1990–July 1, 1999, United States Resident Population by State, County, Age Group, Sex, Race, and Hispanic Origin. Washington, DC: U.S. Census Bureau and National Cancer Institute, April 15, 2003. Available at:

- https://www.cdc.gov/nchs/nvss/bridged_race/data_documentation.htm. Accessed May 15, 2024.
- National Center for Health Statistics. Intercensal Estimates of the Resident Population of the United States for July 1, 2000–July 1, 2009, by Year, County, Single-year of Age (0, 1, 2, . . . , 85 Years and Over), Bridged Race, Hispanic Origin, and Sex. Washington, DC: NCHS and U.S. Census Bureau, October 26, 2012. Available at: https://www.cdc.gov/nchs/nvss/bridged_race.htm. Accessed May 15, 2024.
- National Center for Health Statistics. Vintage 2020 Postcensal Estimates of the Resident Population of the United States (April 1, 2010, July 1, 2010–July 1, 2020), by Year, County, Single-year of Age (0, 1, 2, . . . , 85 years and over), Bridged Race, Hispanic Origin, and Sex. Washington, DC: NCHS and U.S. Census Bureau, September 22, 2021. Available at https://www.cdc.gov/nchs/nvss/bridged_race.htm. Accessed May 15, 2024.
- National Office of Vital Statistics. *Vital Statistics of the United States (Data for Years 1945–1949)*. Washington, DC: Federal Security Agency, United States Public Health Service, 1947–1951. Available at: <https://www.cdc.gov/nchs/products/vsus.htm>. Accessed May 15, 2024.
- National Office of Vital Statistics. *Vital Statistics of the United States (Data for Years 1950–1958)*. Washington, DC: U.S. Department of Health, Education, and Welfare, Public Health Service, 1953–1960. Available at: <https://www.cdc.gov/nchs/products/vsus.htm>. Accessed May 15, 2024.
- National Office of Vital Statistics. Death Rates by Age, Race, and Sex, United States, 1900–1953: Cirrhosis of Liver. Vital Statistics—Special Reports. Vol. 43, No. 24. Washington, DC: U.S. Department of Health, Education, and Welfare, Public Health Service, 1956.
- Office of Management and Budget. Revisions to the standards for the classification of federal data on race and ethnicity. *Federal Register* 62 (210): 58782–58790, 1997. Available at: <https://www.whitehouse.gov/wp-content/uploads/2017/11/Revisions-to-the-Standards-for-the-Classification-of-Federal-Data-on-Race-and-Ethnicity-October30-1997.pdf>. Accessed May 15, 2024.
- Osna, N.A.; Donohue, T.M.; and Kharbanda, K.K. Alcoholic liver disease: Pathogenesis and current management. *Alcohol Research: Current Reviews* 38: 147–161, 2017.
- Pageaux, G.-P.; Nzinga, C.L.; Ganne, N.; Samuel, D.; Dorival, C.; Zoulim, F.; Cagnot, C.; Decaens, T.; Thabut, D.; Asselah, T.; Mathurin, P.; Habersetzer, F.; Bronowicki, J.-P.; Guyader, D.; Rosa, I.; Leroy, V.; Chazouilleres, O.; de Ledinghen, V.; Bourliere, M.; Causse, X.; Cales, P.; Metivier, S.; Loustaud-Ratti, V.; Riachi, G.; Alric, L.; Gelu-Simeon, M.; Minello, A.; Gournay, J.; Geist, C.; Tran, A.; Abergel, A.; Portal, I.; d’Alteroche, L.; Raffi, F.; Fontaine, H.; Carrat, F.; Pol, S.; and French ANRS CO22 Hepather Cohort. Clinical outcomes after treatment with direct antiviral agents: Beyond the virological response in patients with previous HCV-related decompensated cirrhosis. *BMC Infectious Diseases* 22:94, 2022.
- Park, S.H.; Lee, Y.-S.; Sim, J.; Seo, S.; and Seo, W. Alcoholic liver disease: A new insight into the pathogenesis of liver disease. *Archives of Pharmacal Research* 45:447–459, 2022.
- Piano, S.; Bunchorntavakul, C.; Marciano, S.; and Rajender Reddy, K. Infections in cirrhosis. *The Lancet Gastroenterology & Hepatology* S2468–1253(24):00078–5, 2024.
- Powell, W.J.; and Klatskin, G. Duration of survival in patients with Laennec’s cirrhosis: Influence of alcohol withdrawal, and possible effects of recent changes in general management of the disease. *American Journal of Medicine* 44(3):406–420, 1968.
- Premkumar, M., and Anand, A.C. Overview of complications in cirrhosis. *Journal of Clinical and Experimental Hepatology* 12:1150–1174, 2022.
- Puffer, R.R.; and Griffith, G.W. *Patterns of Urban Mortality: Report of the Inter-American Investigation of Mortality*. Washington, DC: Pan American Health Organization, 1967.
- Ramstedt, M. Alcohol consumption and liver cirrhosis mortality with and without mention of alcohol—The case of Canada. *Addiction* 98(9):1267–1276, 2003.
- Rehm, J.; and Shield, K.D. Global burden of alcohol use disorders and alcohol liver disease. *Biomedicine* 7: 99, 2019.
- Roerecke, M.; Vafaei, A.; Hasan, O.S.; Chrystoja, B.R.; Cruz, M.; Lee, R.; Neuman, M.G.; and Rehm, J. Alcohol consumption and risk of liver cirrhosis: A systematic review and meta-analysis. *The American Journal of Gastroenterology* 114:1574–1586, 2019.
- Scaglione, S.; Kliethermes, S.; Cao, G.; Shoham, D.; Durazo, R.; Luke, A.; and Volk, M.L. The epidemiology of cirrhosis in the United States: A population-based study. *Journal of Clinical Gastroenterology* 49(8):690–696, 2015.
- Shah, N.D.; Ventura-Cots, M.; Abraldes, J.G.; Alborae, M.; Alfadhli, A.; Argemi, J.; Badia-Aranda, E.; Arús-Soler, E.; Barritt, A.S.; Bessone, F.; Biryukova, M.; Carrilho, F.J.; Fernández, M.C.; Guiridi, Z.D.; Kassas, M.E.; Eng-Kiong, T.; Farias, A.Q.; George, J.; Gui, W.; Thuraijah, P.H.; Hsiang, J.C.; Husić-Selimovic, A.; Isakov, V.; Karone, M.; Kim, W.; Kluwe, J.; Kochhar, R.; Dhaka, N.; Costa, P.M.; Pharm, M.A.N.; Ono, S.K.; Reis, D.; Rodil, A.; Domech, C.R.; Sáez-Royuela, F.; Scheurich, C.; Siow, W.; Sivad-Burina, N.; Traquino, E.S.D.S.; Some, F.; Spreckic, S.; Tan, S.; Vorobioff, J.; Wandera, A.; Wu, P.; Yacoub, M.; Yang, L.; Yu, Y.; Zahiragic, N.; Zhang, C.; Cortez-Pinto, H.; and

- Bataller, R. Alcohol-related liver disease is rarely detected at early stages compared with liver diseases of other etiologies worldwide. *Clinical Gastroenterology and Hepatology* 17: 2320–2329.e12, 2019.
- Singal, A.K.; Leggio, L.; and DiMartini, A. Alcohol use disorder in alcohol-associated liver disease: Two sides of the same coin. *Liver Transplantation* 30:200, 2024.
- Singh, S.; Osna, N.A.; and Kharbanda, K.K. Treatment options for alcoholic and non-alcoholic fatty liver disease: A review. *World Journal of Gastroenterology* 23(36):6549–6570, 2017.
- Stein, E.; Cruz-Lemini, M.; Altamirano, J.; Ndugga, N.; Couper, D.; Abinales, J.G.; and Bataller, R. Heavy daily alcohol intake at the population level predicts the weight of alcohol in cirrhosis burden worldwide. *Journal of Hepatology* pii:S0168–8278(16):30307–30315, 2016.
- Stinson, F.S.; Grant, B.F.; and Dufour, M.C. The critical dimension of ethnicity in liver cirrhosis mortality statistics. *Alcoholism: Clinical and Experimental Research* 25(8):1181–1187, 2001.
- Szabo, G.; and Mandrekar, P. Focus on: Alcohol and the liver. *Alcohol Research & Health* 33(1–2):87–96, 2010.
- Tapper, E.B.; and Parikh, N.D. Diagnosis and management of cirrhosis and its complications: A review. *JAMA* 329:1589–1602, 2023.
- 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, DC: Department of Commerce, 1974.
- U.S. Census Bureau. Table 2. Intercensal Estimates of the Resident Population by Sex, Race, and Hispanic Origin for the United States: April 1, 2000, to July 1, 2010 (US-EST00INT-02). Washington, DC: U.S. Census Bureau, September 2011. Available at: <https://www.census.gov/data/tables/time-series/demo/popest/intercensal-2000-2010-national.html>. Accessed May 15, 2024.
- U.S. Census Bureau. 2000–2023 American Community Survey 1-year Public Use Microdata Samples. Washington, DC: U.S. Census Bureau, 2024a. Available at: <https://www2.census.gov/programs-surveys/acs/data/pums/>. Accessed January 16, 2025.
- U.S. Census Bureau. Annual State Resident Population Estimates for 6 Race Groups (5 Race Alone Groups and Two or More Races) by Age, Sex, and Hispanic Origin: April 1, 2020 to July 1, 2023. Washington, DC: U.S. Census Bureau, 2024b. Available at: <https://www2.census.gov/programs-surveys/popest/datasets/2020-2023/state/asrh/sc-est2023-alldata6.csv>. Accessed January 16, 2025.
- U.S. Department of Health and Human Services. *Healthy People 2030—Drug and Alcohol Use*. Washington, DC: Office of Disease Prevention and Health Promotion, U.S. Department of Health and Human Services, n.d. Available at: <https://odphp.health.gov/healthypeople/objectives-and-data/browse-objectives/drug-and-alcohol-use>. Accessed May 15, 2024.
- Vong, S.; and Bell, B.P. Chronic liver disease mortality in the United States, 1990–1998. *Hepatology* 39(2):476–483, 2004.
- Wahlang, B.; Beier, J.I.; Clair, H.B.; Bellis-Jones, H.J.; Falkner, K.C.; McClain, C.J.; and Cave, M.C. Toxicant-associated steatohepatitis. *Toxicologic Pathology* 41(2):343–360, 2013.
- Weed, J.A. NCHS procedures for multiple-race and Hispanic origin data: Collection, coding, editing, and transmitting. In: 2004 Joint Meeting of NAPHSIS and VSCP. Portland, Oregon. June 6–10, 2004. Available at: https://www.cdc.gov/nchs/data/dvs/Multiple_race_do_cu_5-10-04.pdf. Accessed May 15, 2024.
- World Health Organization. *International Classification of Diseases, 9th Revision*. Geneva, Switzerland: WHO, 1978.
- World Health Organization. *International Classification of Diseases and Related Health Problems, Tenth Revision*. Geneva, Switzerland: WHO, 1992.
- Xie, Y.-D.; Feng, B.; Gao, Y.; and Wei, L. Effect of abstinence from alcohol on survival of patients with alcoholic cirrhosis: A systematic review and meta-analysis. *Hepatology Research: The Official Journal of the Japan Society of Hepatology* 44(4): 436–449, 2014.
- Xu, J.; Kochanek, K.D.; Murphy, S.L.; and Tejada-Vera, B. Deaths: Final Data for 2007. *National Vital Statistics Reports*, Vol. 58, No. 19. Hyattsville, MD: National Center for Health Statistics, 2010.
- Xu, J.; Murphy, S.L.; Kochanek, K.D.; and Bastian, B.A. Deaths: Final Data for 2013. *National Vital Statistics Reports*, Vol. 64, No. 2. Hyattsville, MD: National Center for Health Statistics, 2016.
- Xu, J.; Murphy, S.L.; Kochanek, K.D.; Bastian, B.; and Arias, E. Deaths: Final Data for 2016. *National Vital Statistics Reports*, Vol. 67, No. 5. Hyattsville, MD: National Center for Health Statistics, 2018.
- Xu, J.; Murphy, S.L.; Kochanek, K.D.; and Arias, E. Deaths: Final Data for 2019. *National Vital Statistics Reports*, Vol. 70, No. 8. Hyattsville, MD: National Center for Health Statistics, 2021.
- Zakhari, S. Bermuda Triangle for the liver: Alcohol, obesity, and viral hepatitis. *Journal of Gastroenterology and Hepatology* 28(Suppl. 1):18–25, 2013.

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Figure 1. Age-adjusted death rates from liver cirrhosis by sex (death registration States, 1910–1932, and United States, 1933–2023).

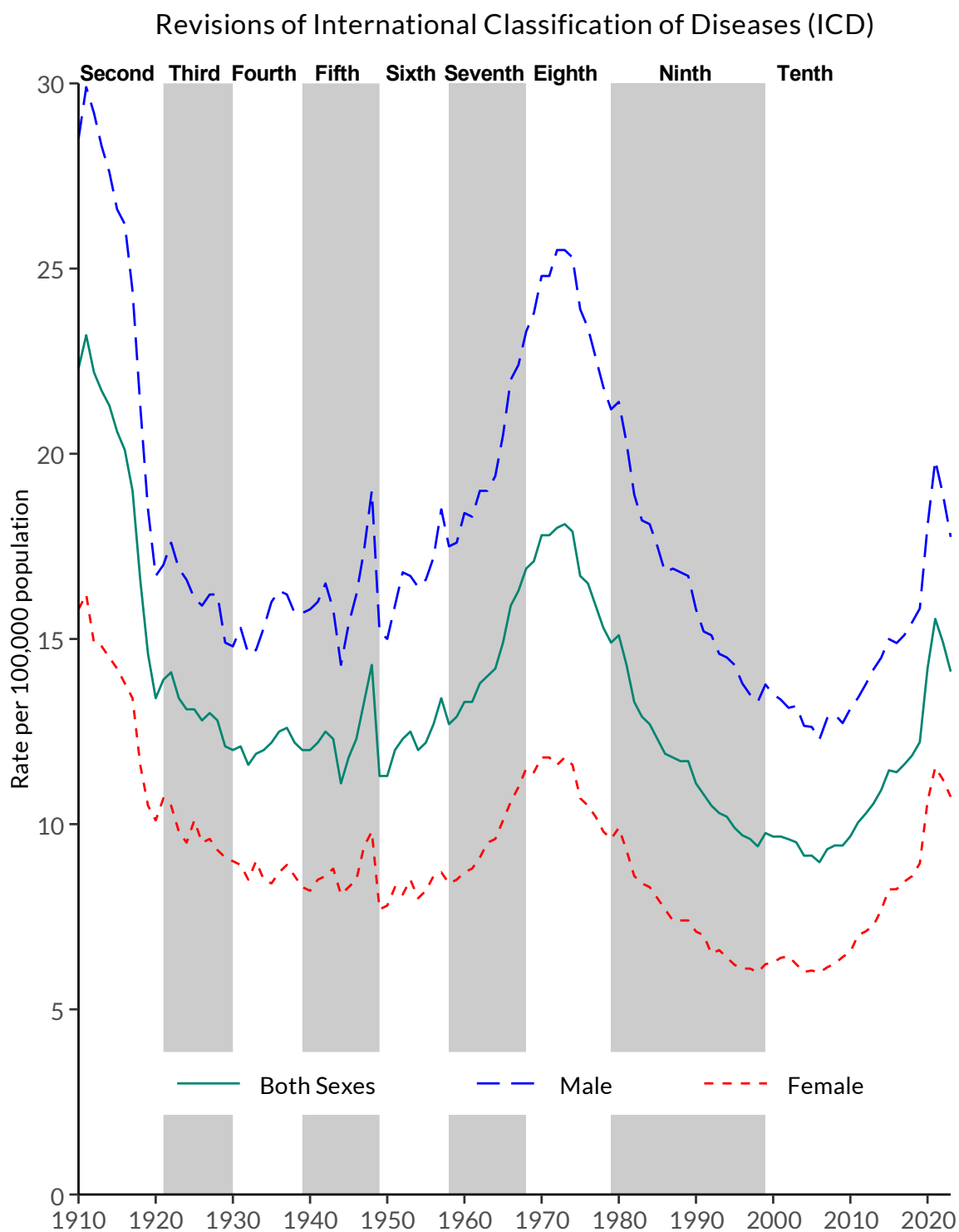


Figure 2. Age-specific death rates from liver cirrhosis, United States, 2000–2023.

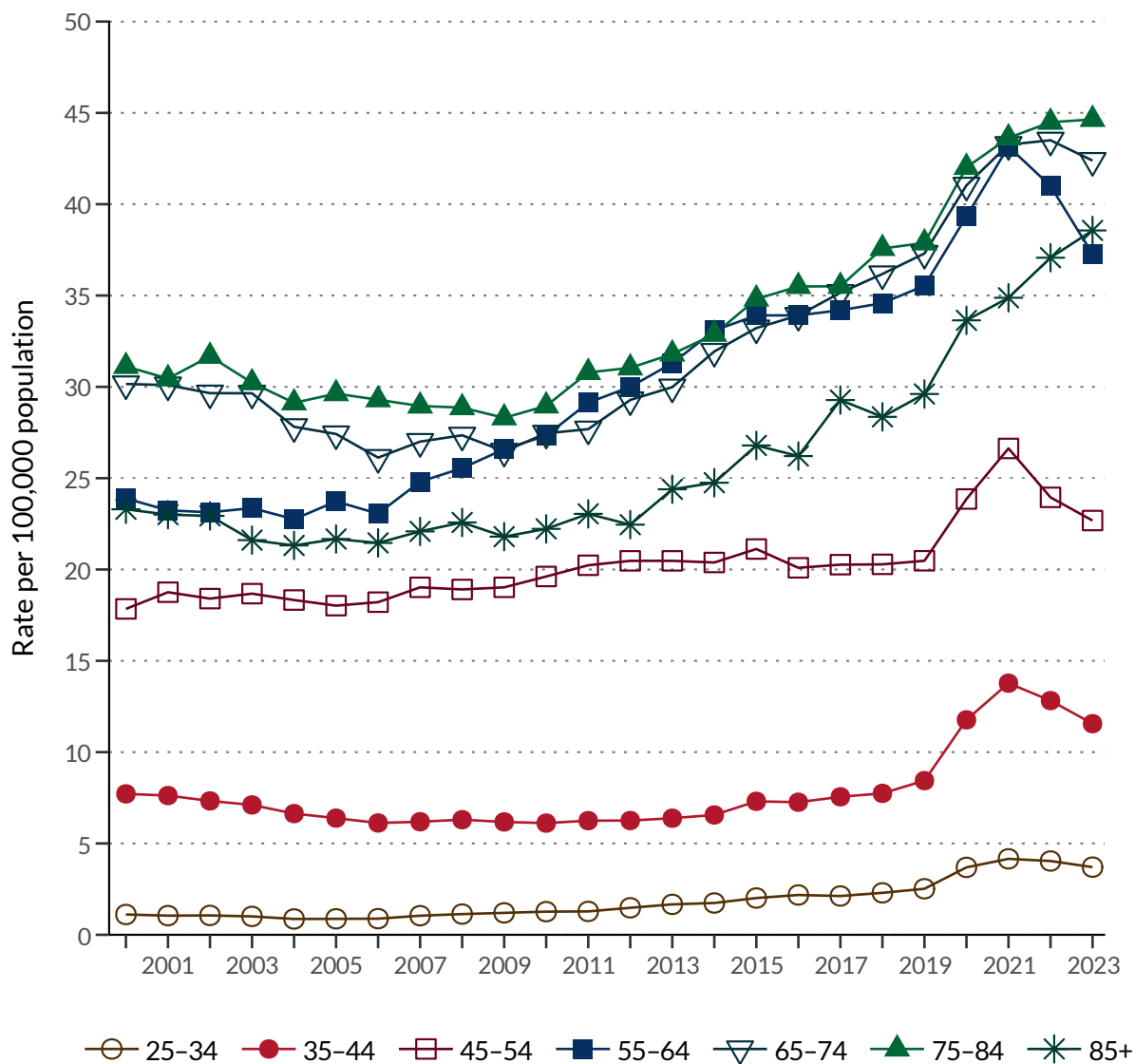
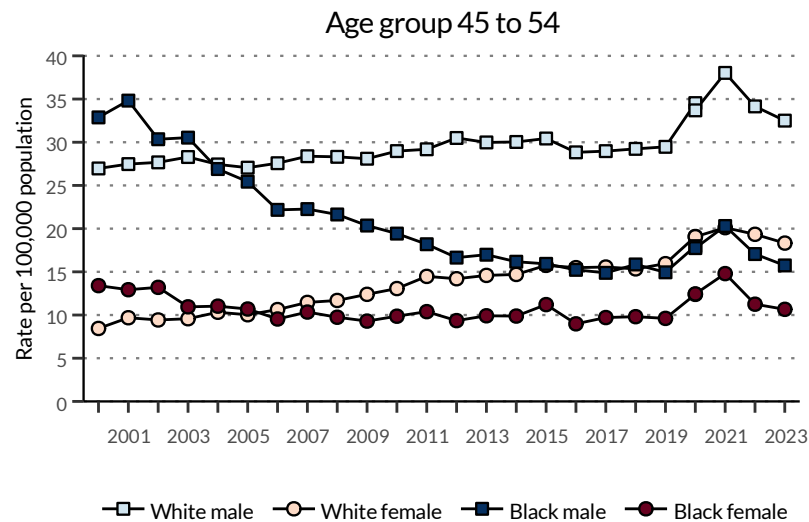
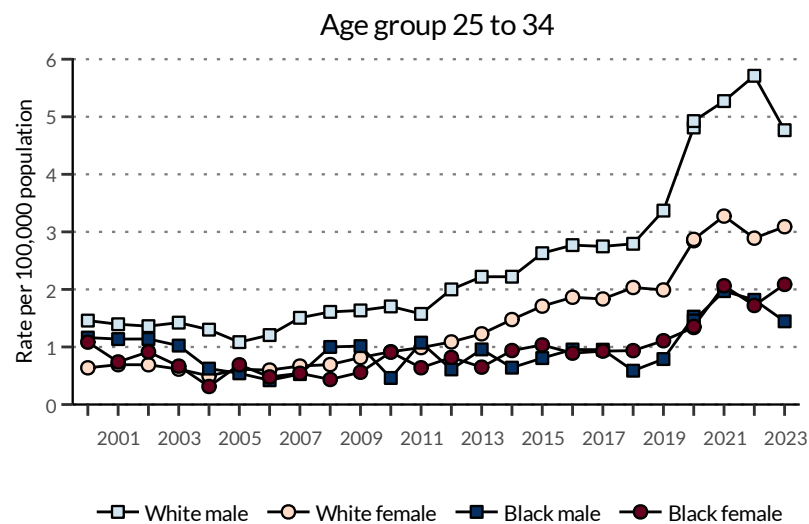
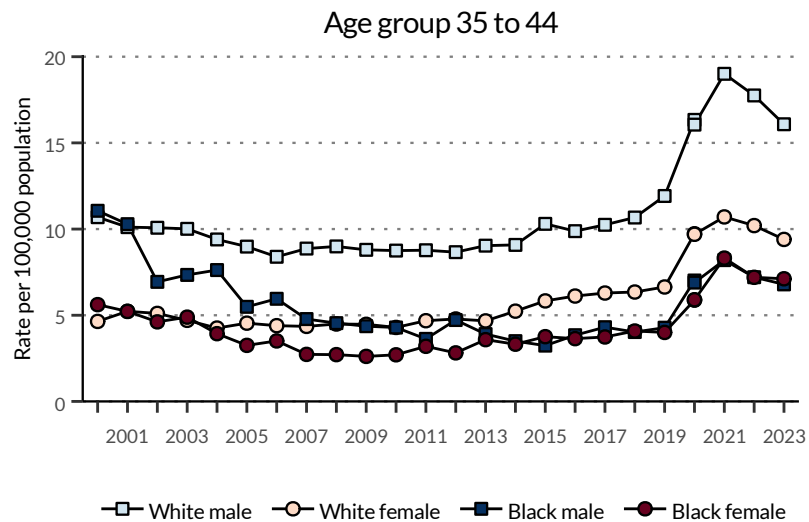


Figure 3. Age-specific death rates from liver cirrhosis by race and sex, United States, 2000–2023.

Note: Different age groups may have different scales.

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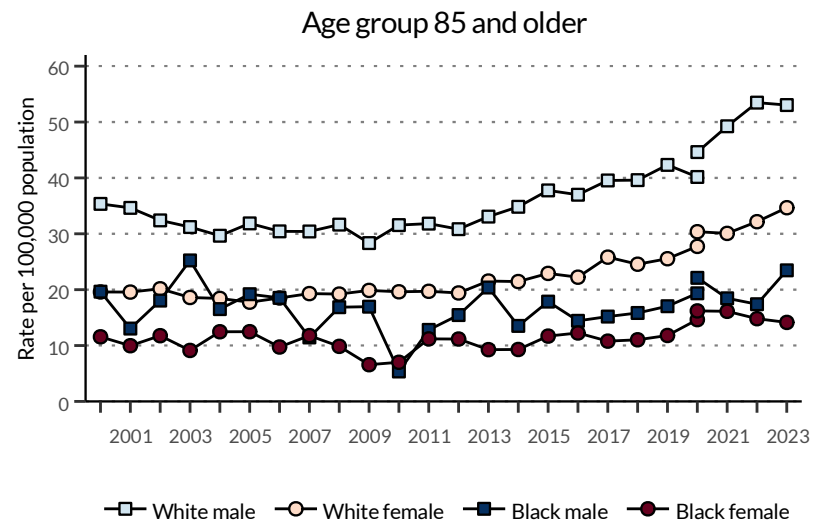
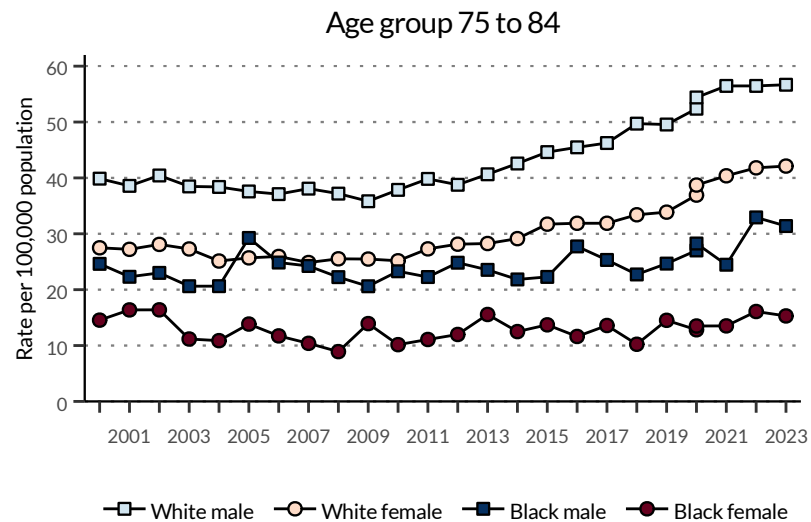
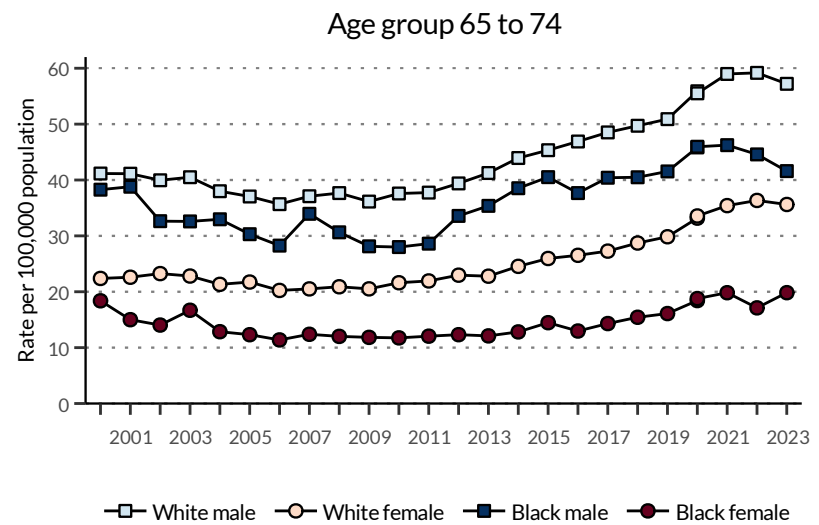
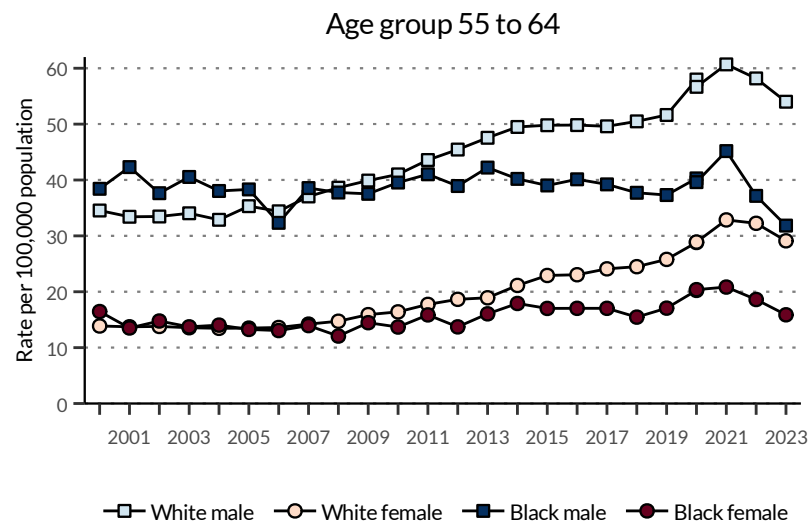


Figure 4. Age-adjusted death rates from liver cirrhosis by sex, race, and Hispanic origin, United States, 2000–2023.

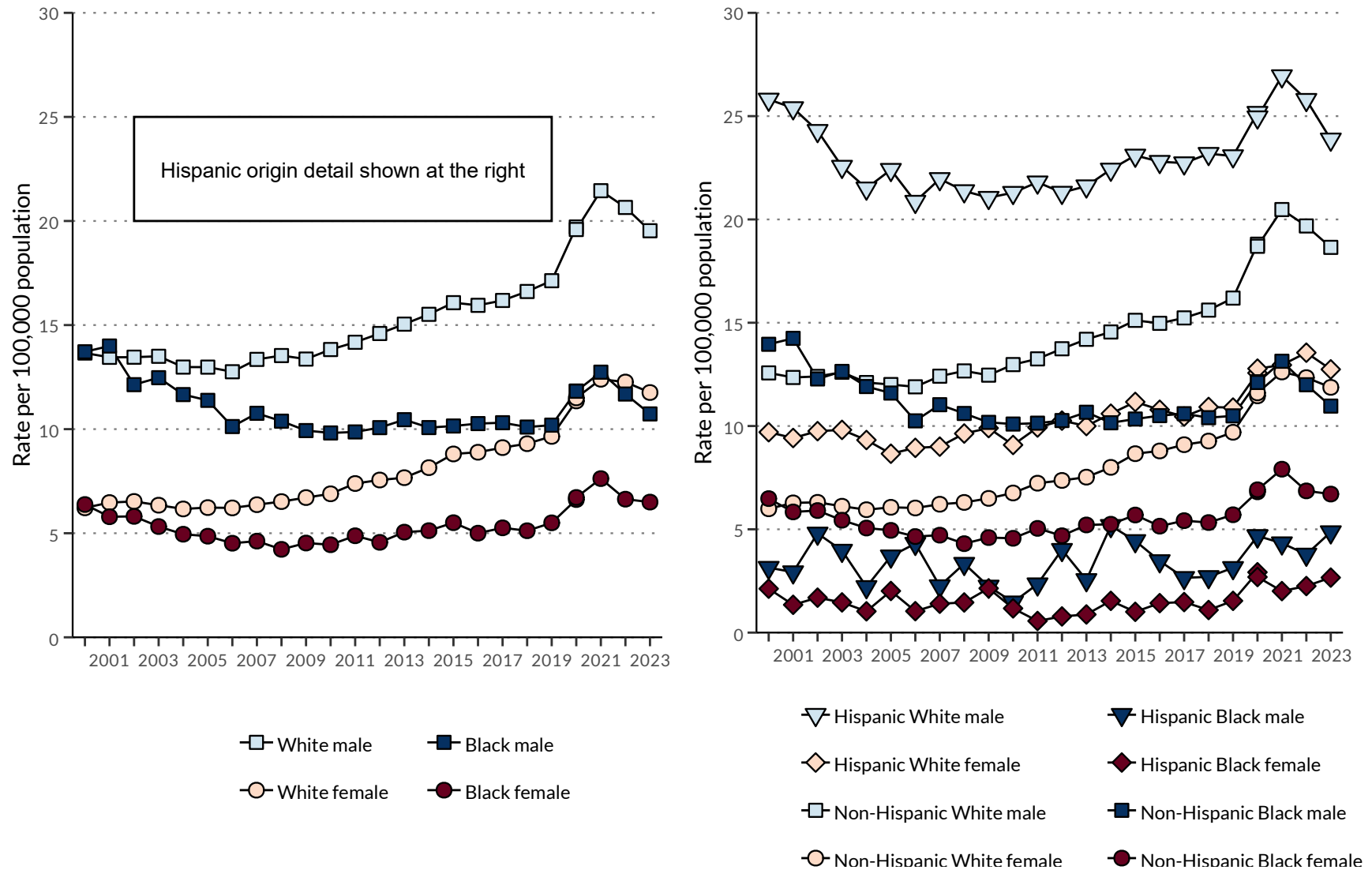


Figure 5. Age-adjusted death rates from liver cirrhosis reported with and without mention of alcohol, United States, 2000–2023.

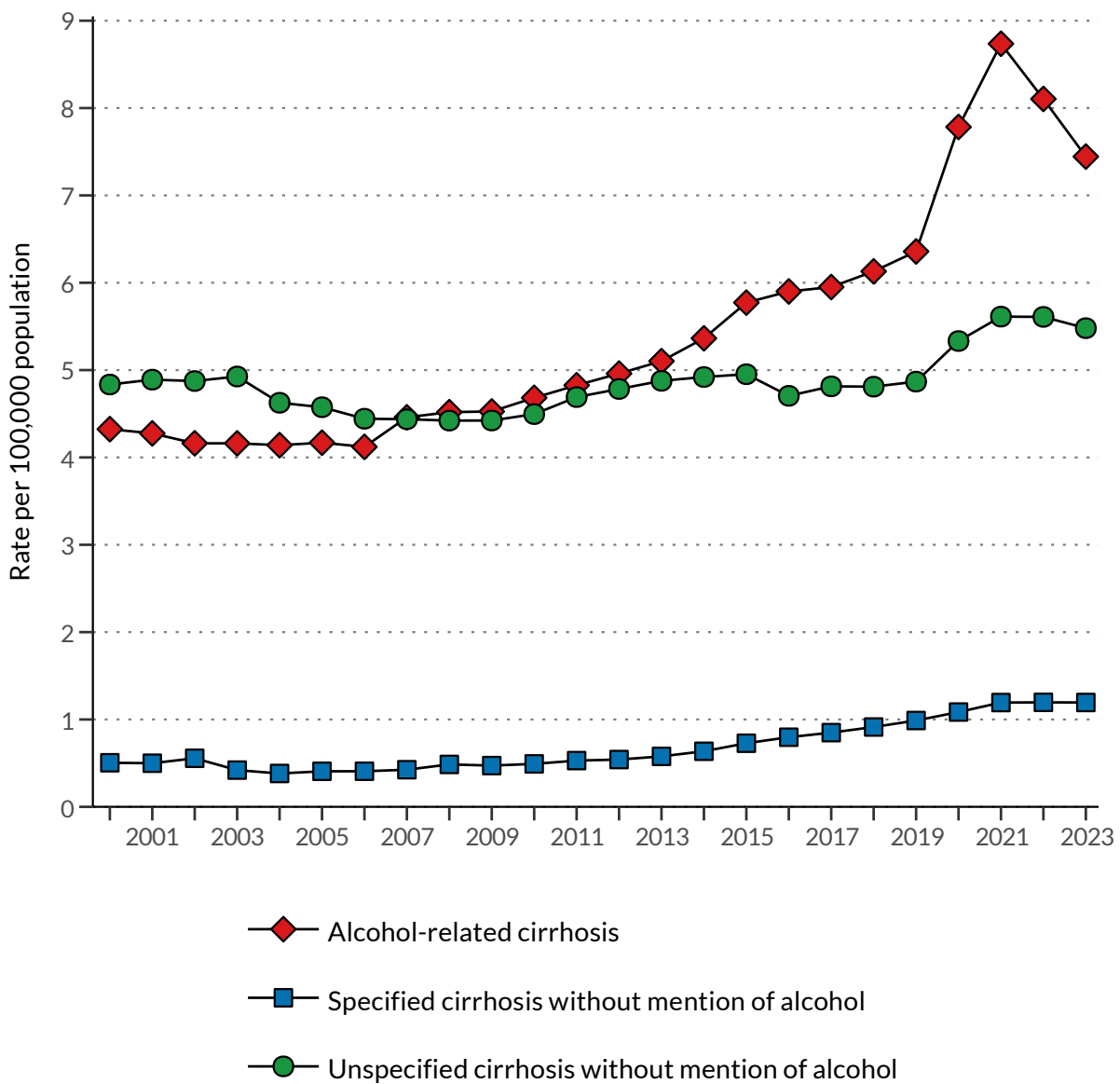


Figure 6. Percentage of all cirrhosis deaths coded as alcohol related by age, United States, 2000–2023.

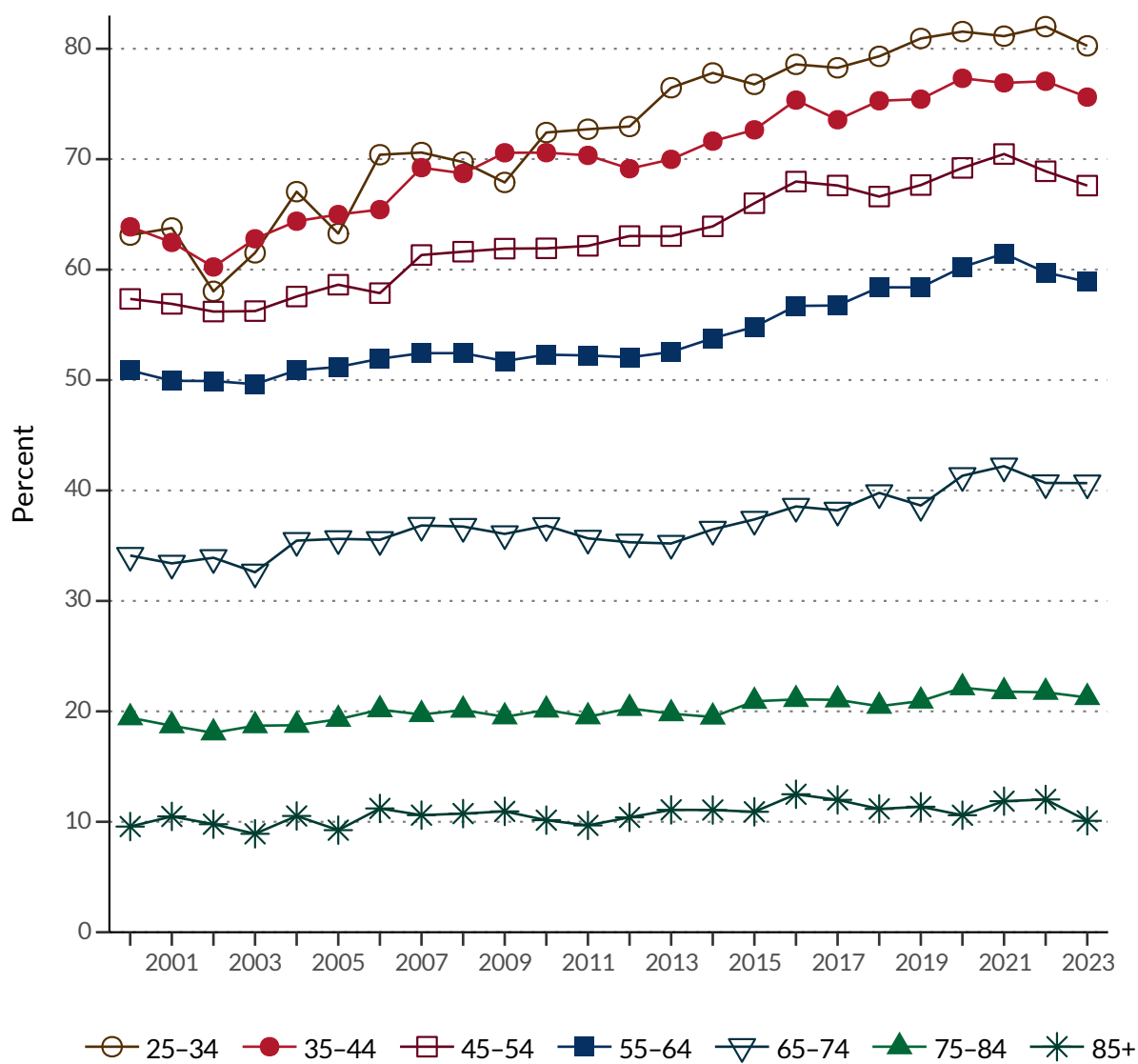
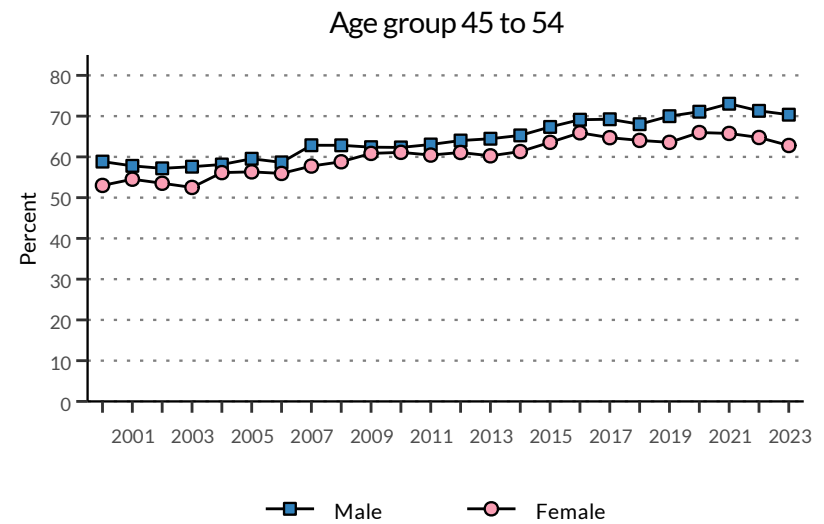
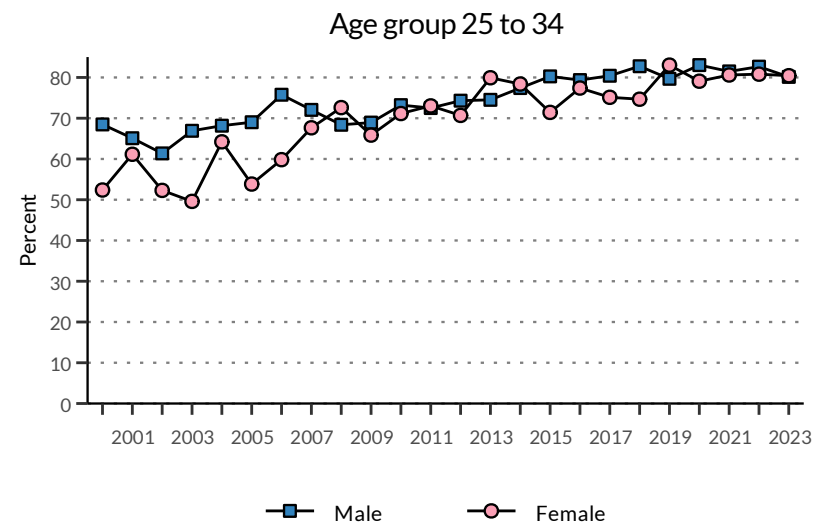
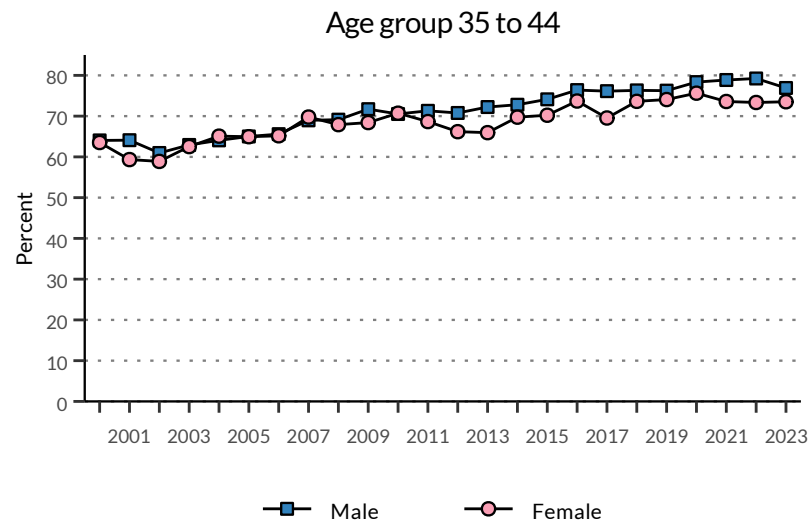
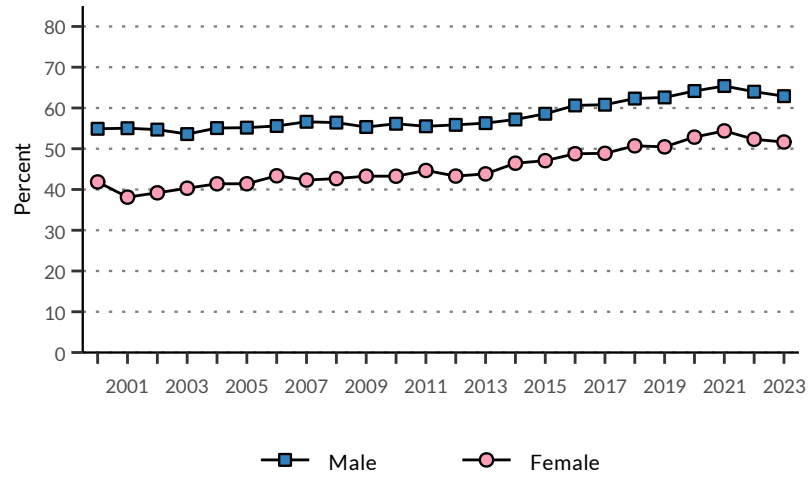


Figure 7. Percentage of all cirrhosis deaths coded as alcohol related by sex and age, United States, 2000–2023.

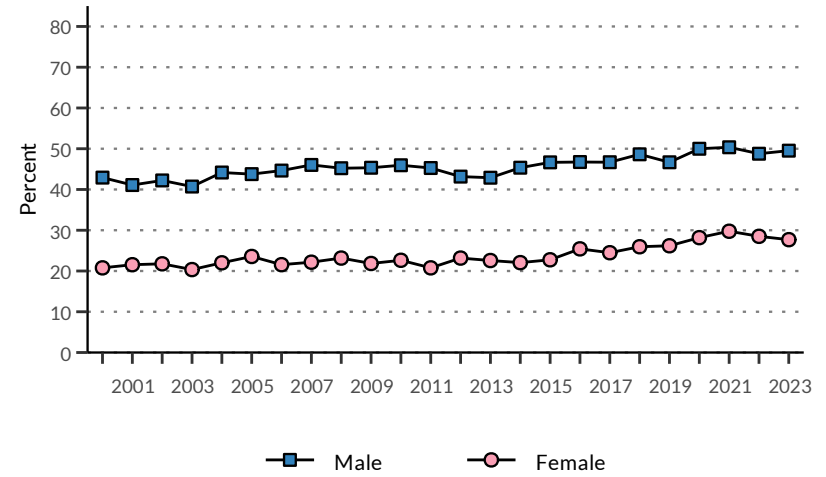
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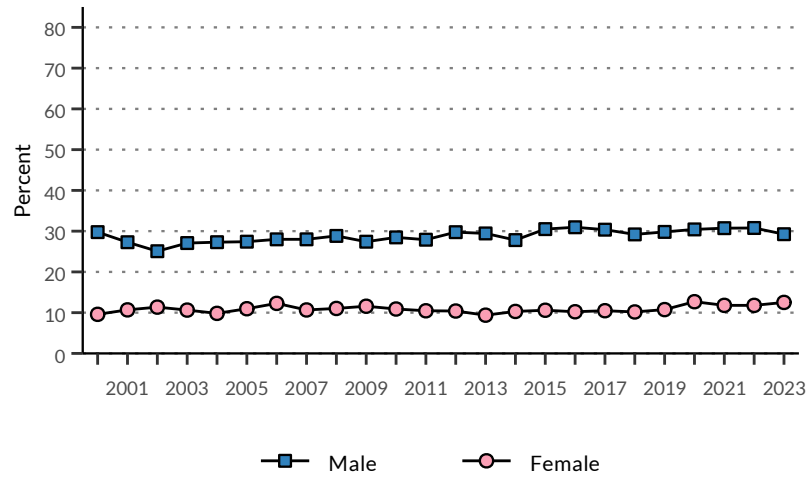
Age group 55 to 64



Age group 65 to 74



Age group 75 to 84



Age group 85 and older

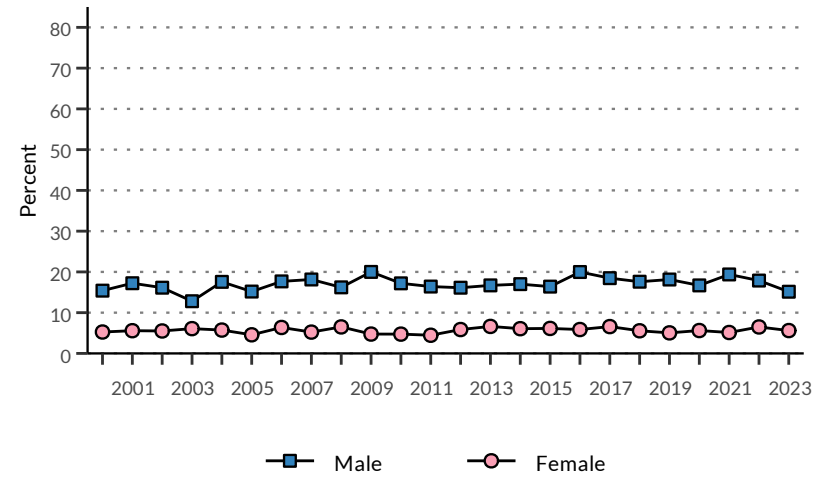
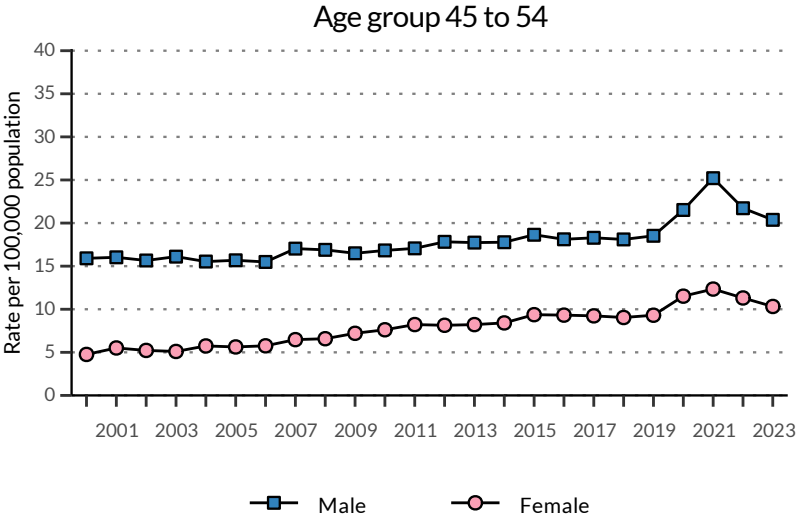
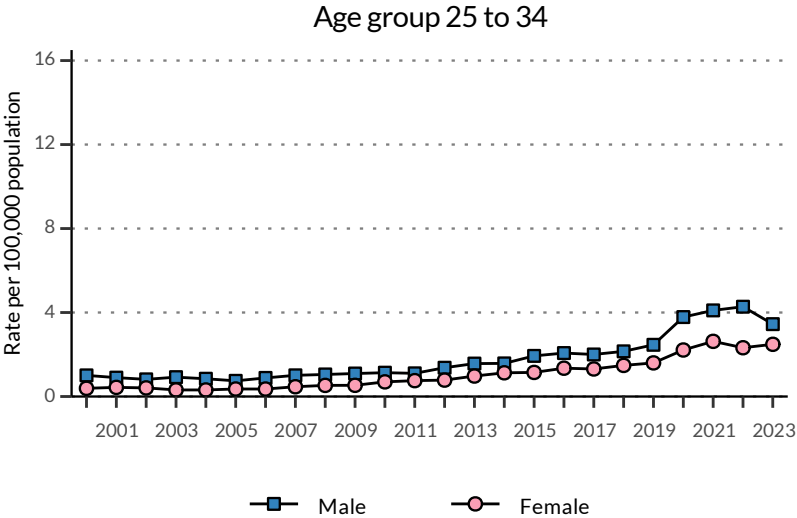
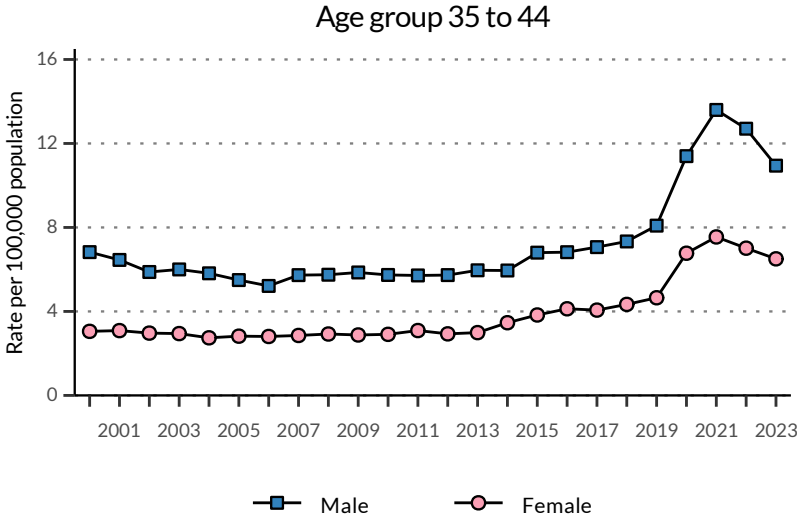


Figure 8. Age-specific death rates from alcohol-related liver cirrhosis by sex, United States, 2000–2023.

Note: Different age groups may have different scales.

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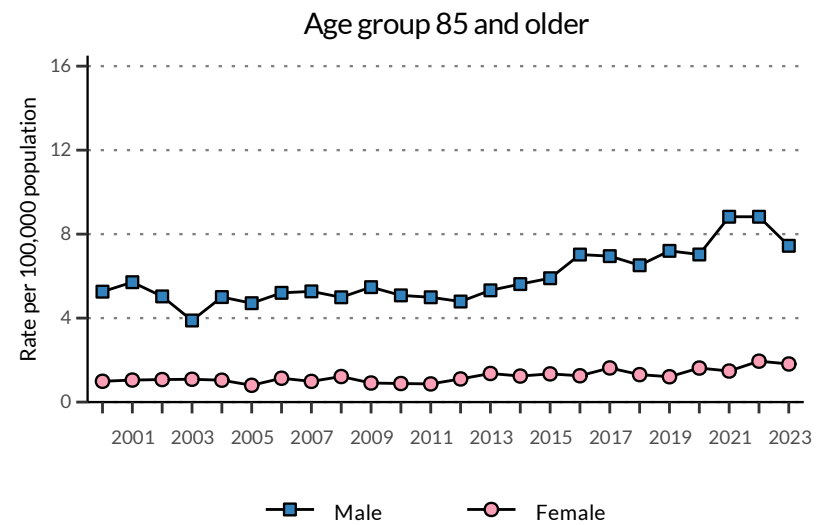
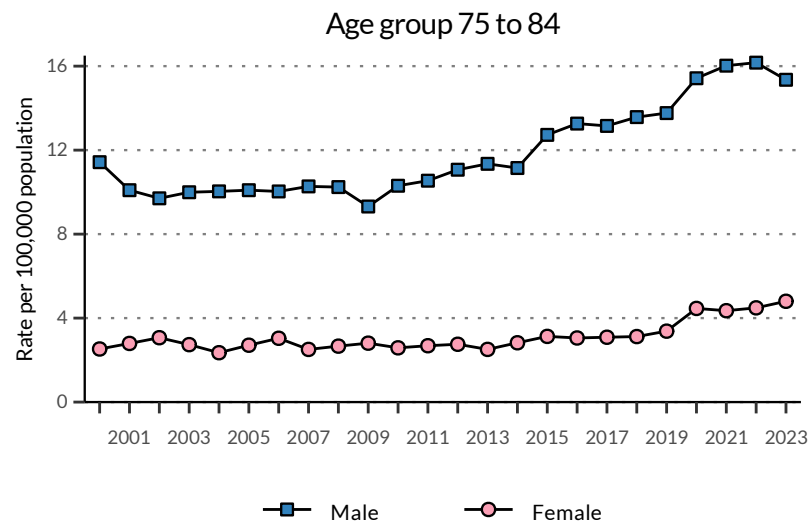
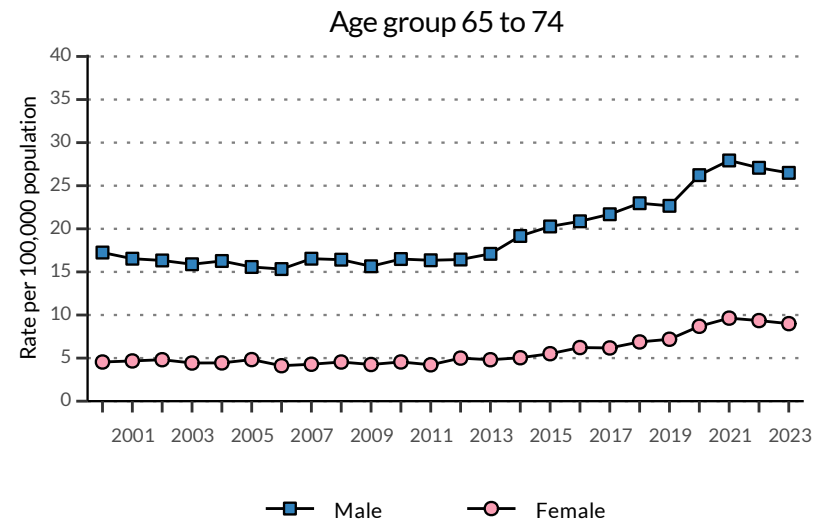
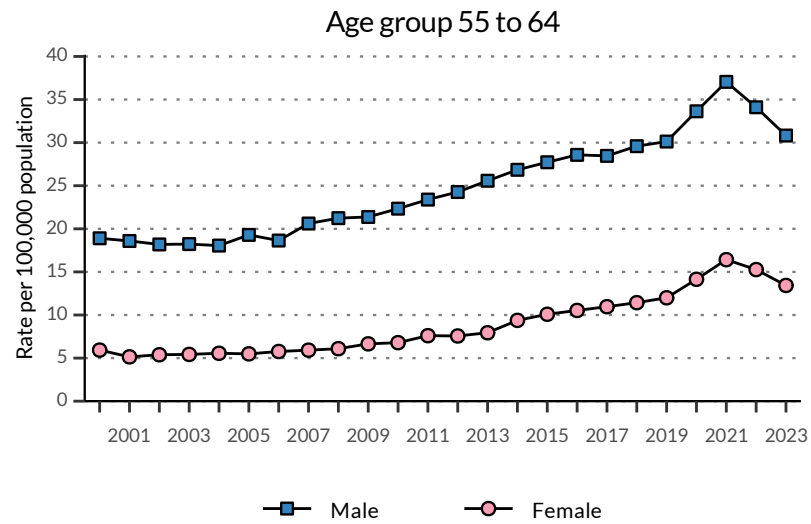


Figure 9. Age-adjusted death rates from alcohol-related liver cirrhosis by sex, race, and Hispanic origin, United States, 2000–2023.

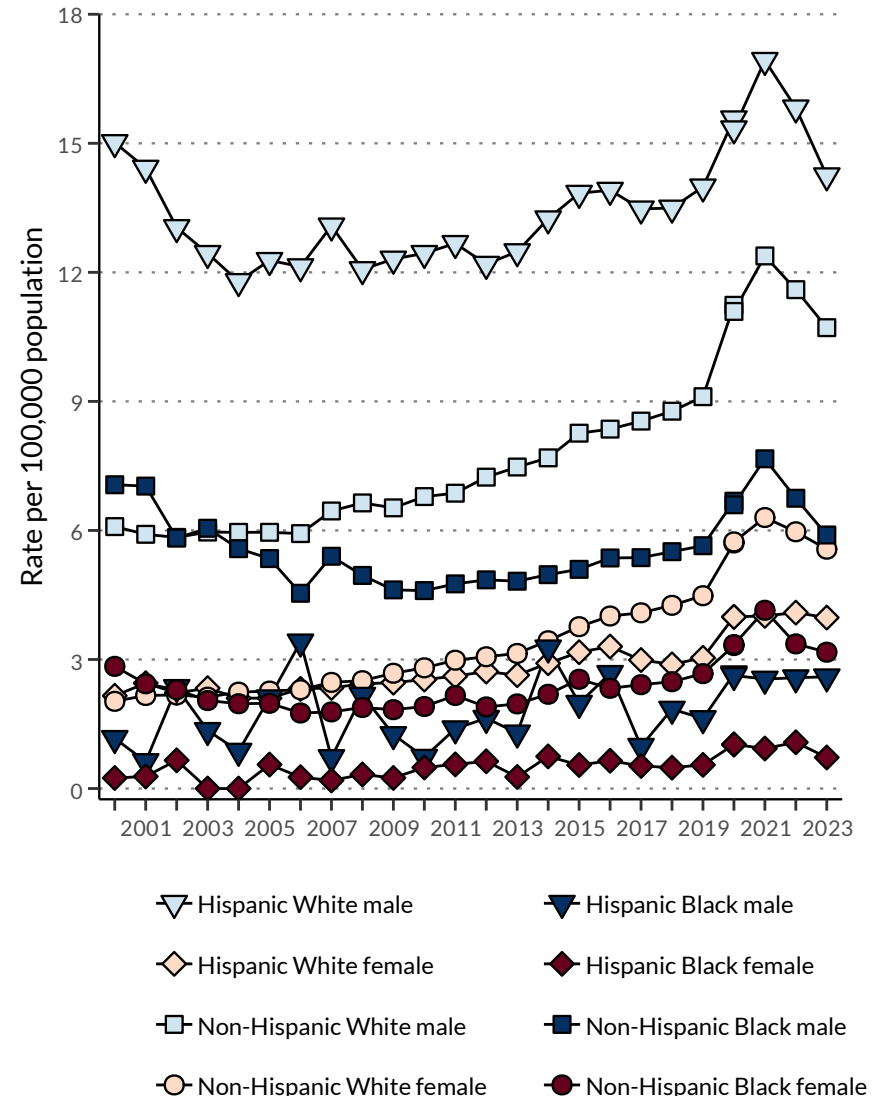
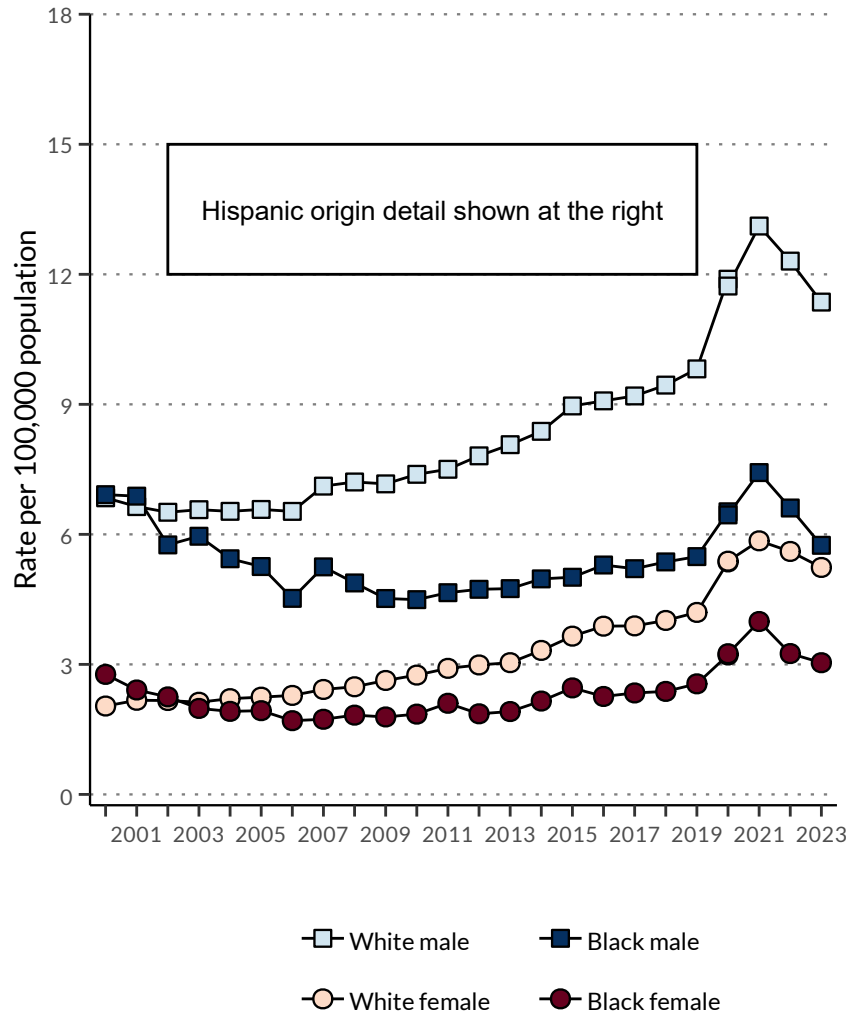


Figure 10. Age-adjusted death rates from specified liver cirrhosis without mention of alcohol by sex, race, and Hispanic origin, United States, 2000–2023.

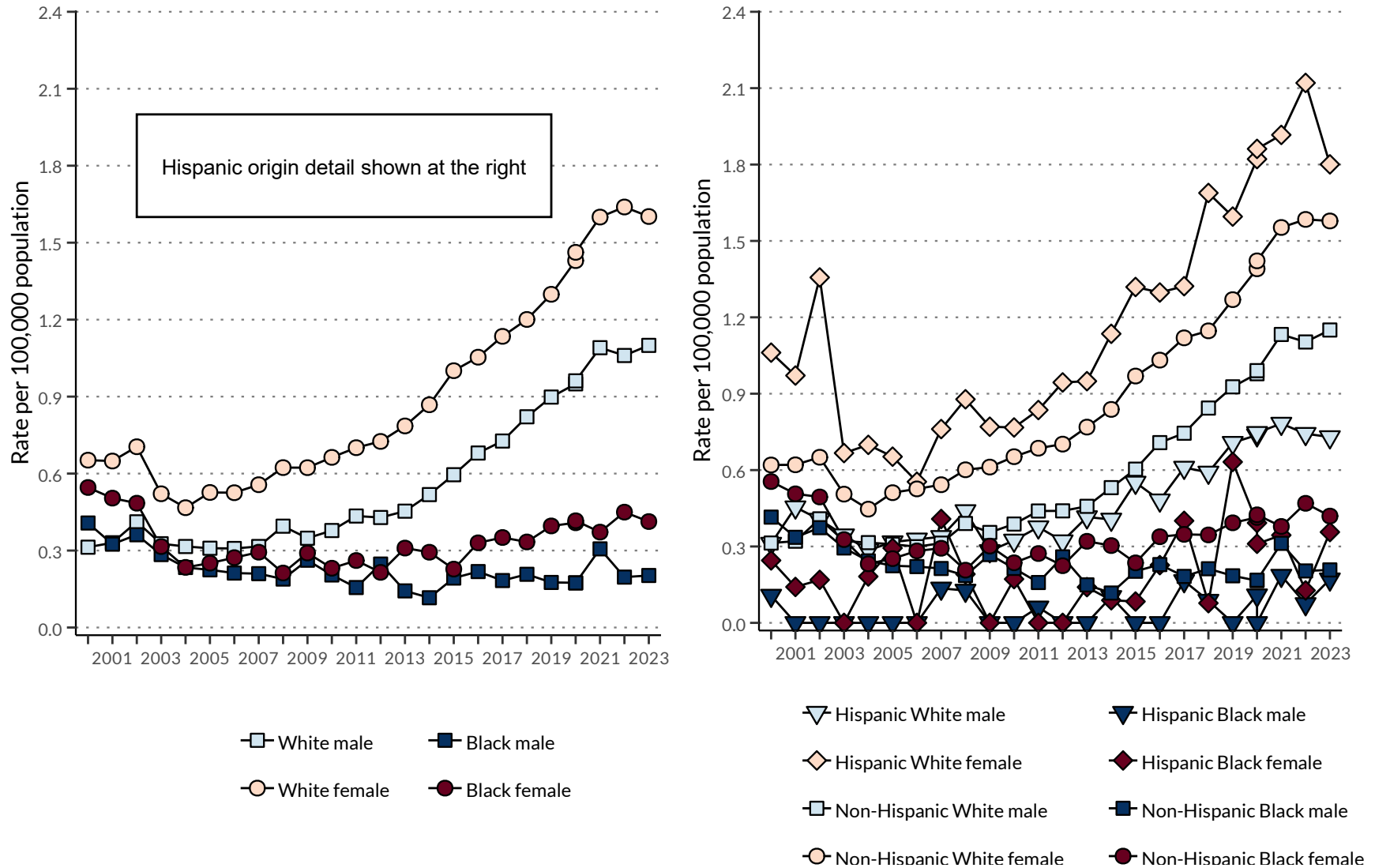


Figure 11. Age-adjusted death rates from unspecified liver cirrhosis without mention of alcohol by sex, race, and Hispanic origin, United States, 2000–2023.

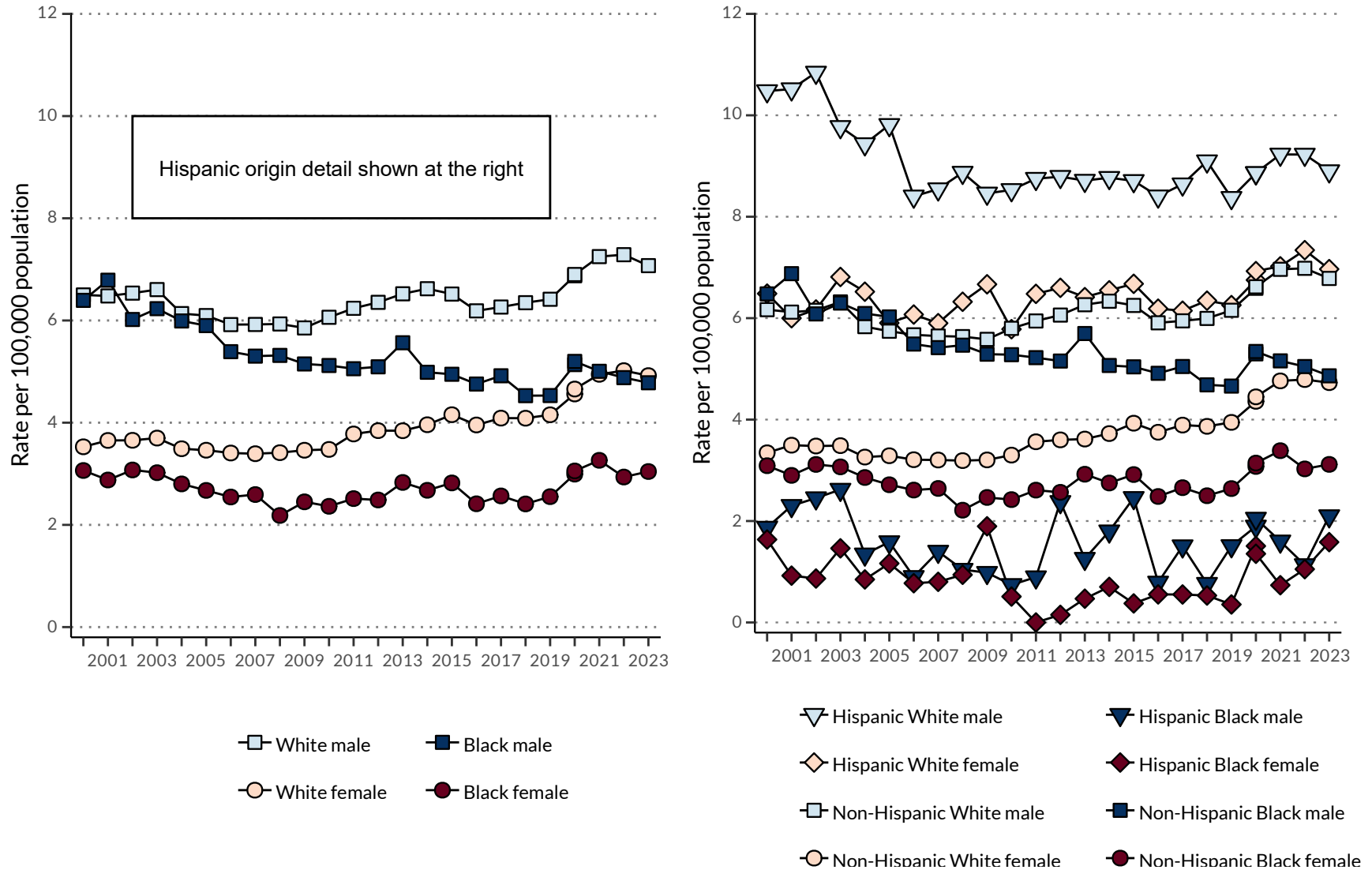


Figure 12. Five-year annual average of age-adjusted death rates from liver cirrhosis with and without mention of alcohol by Hispanic subgroup and sex, United States, 2019–2023.

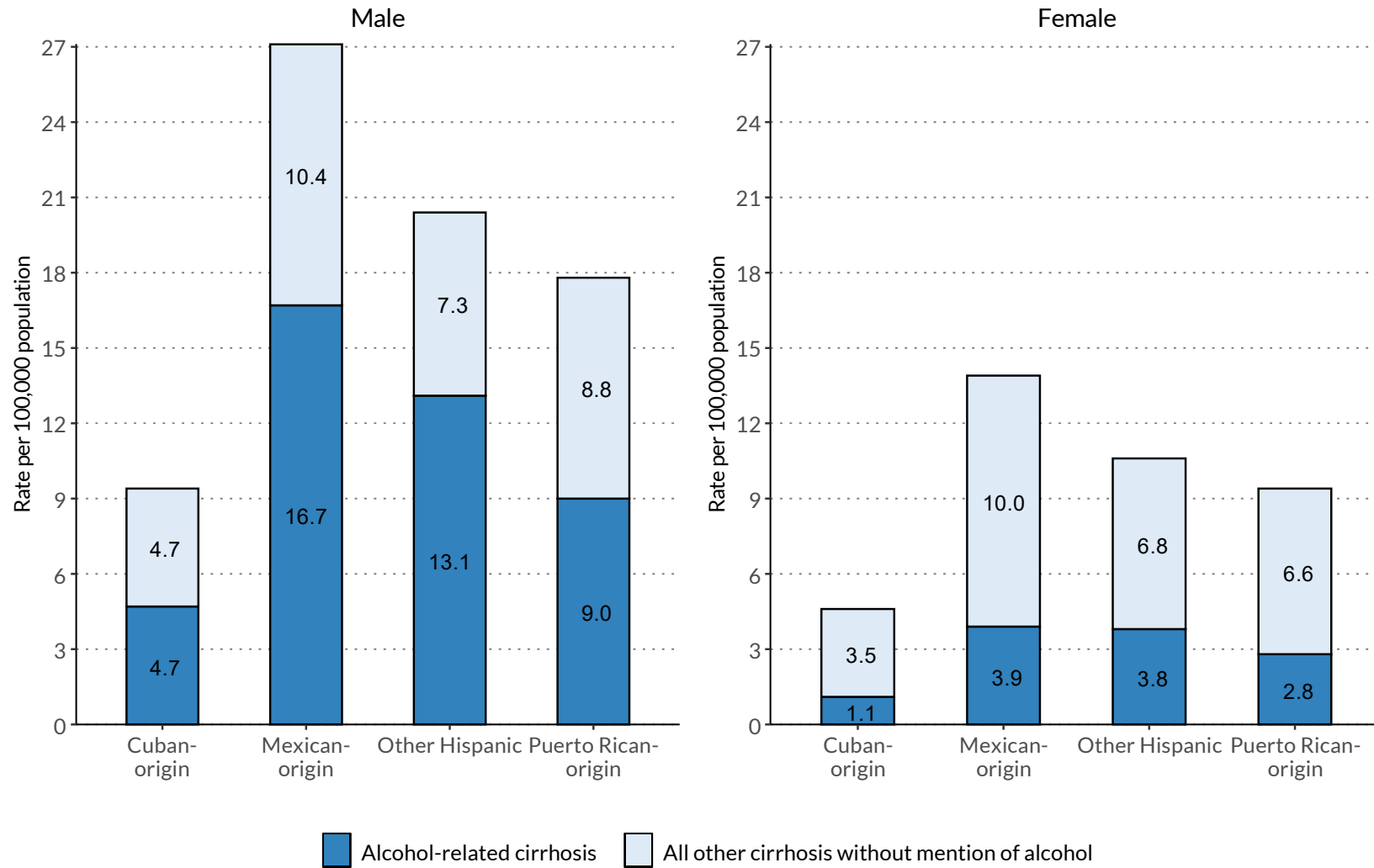


Figure 13. Three-year annual average of age-adjusted death rates from all liver cirrhosis by State, 2021–2023.

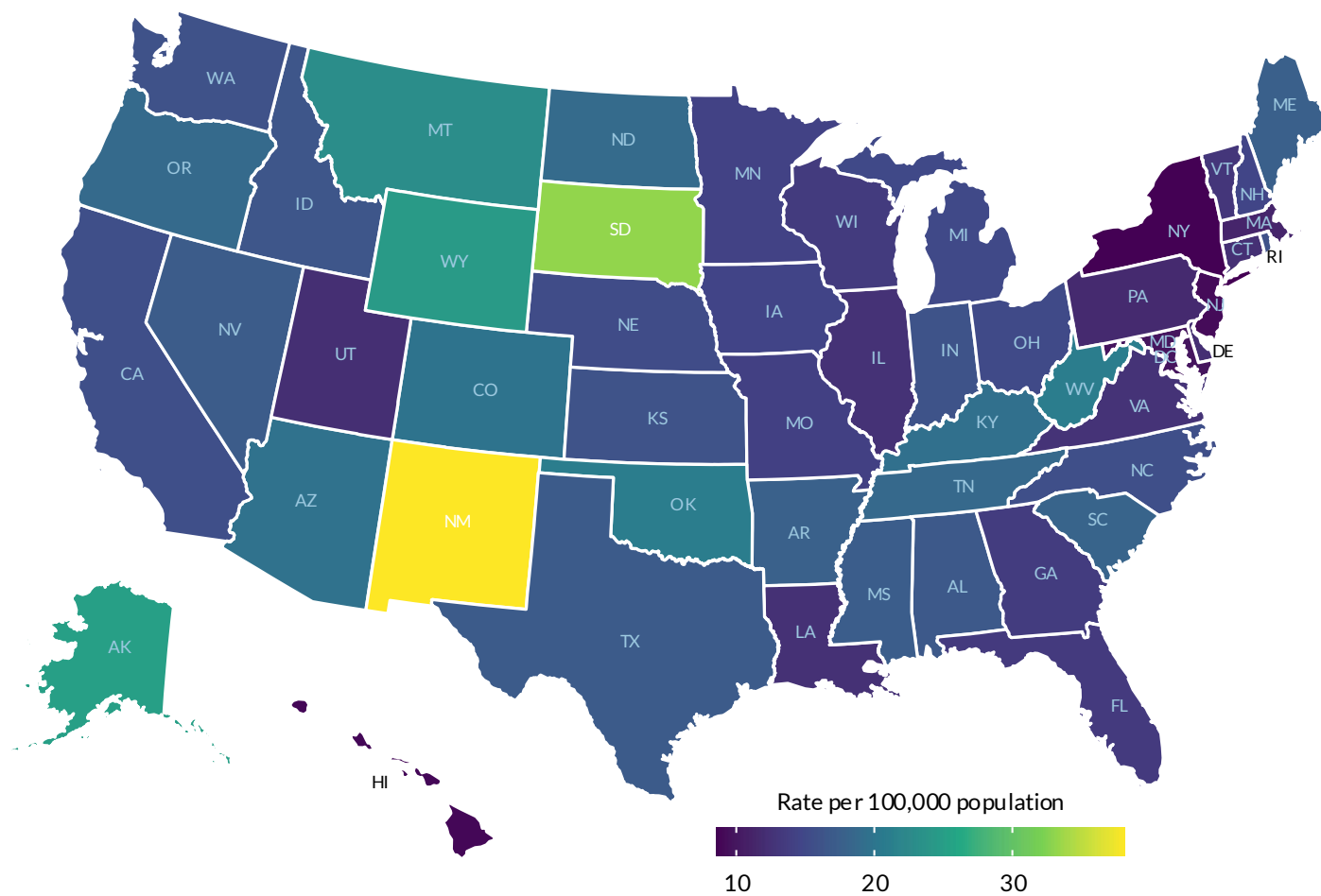


Figure 14. Three-year annual average of age-adjusted death rates from alcohol-related liver cirrhosis by State, 2021–2023.

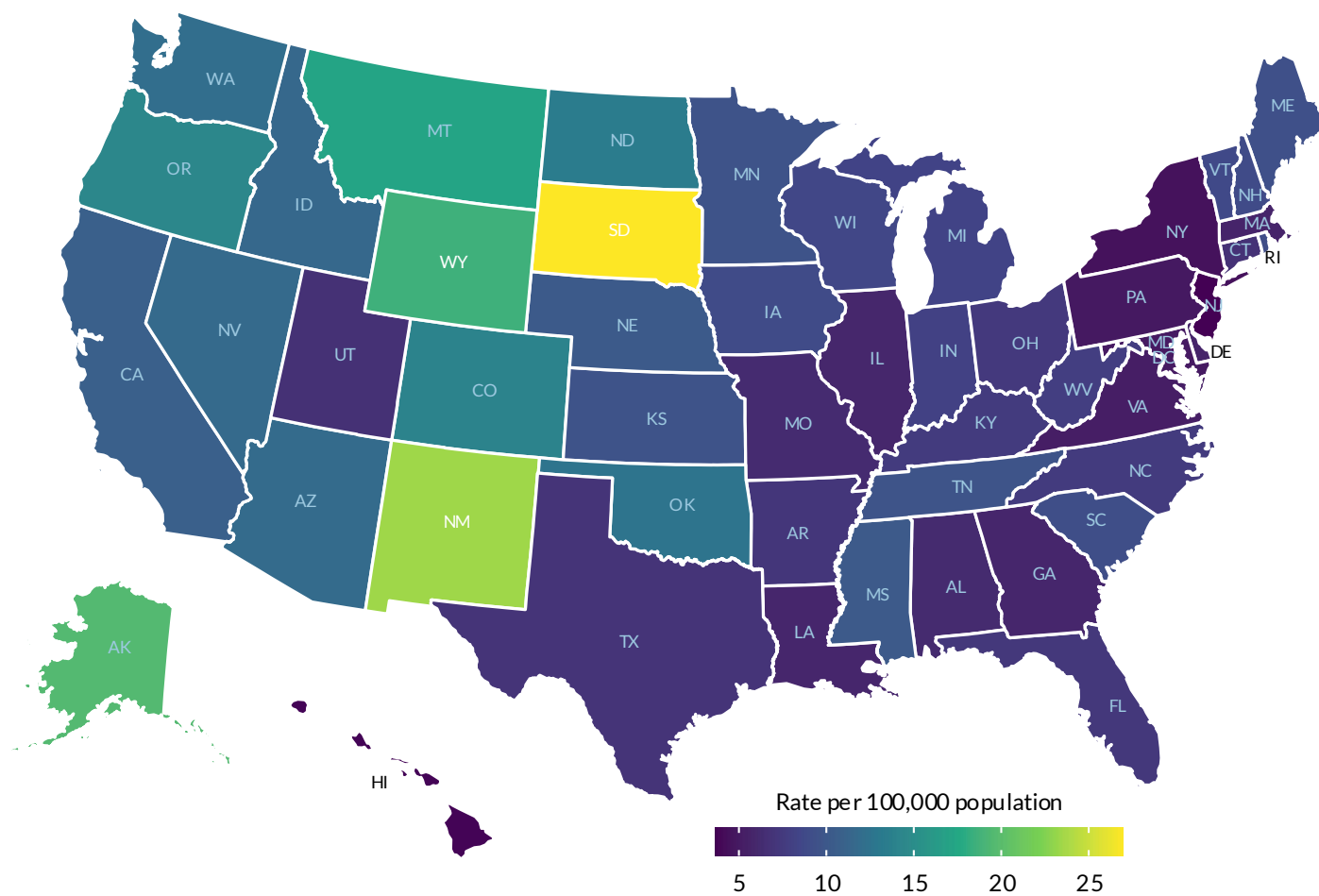


Figure 15. Three-year annual average of age-adjusted death rates from all other liver cirrhosis without mention of alcohol by State, 2021–2023.

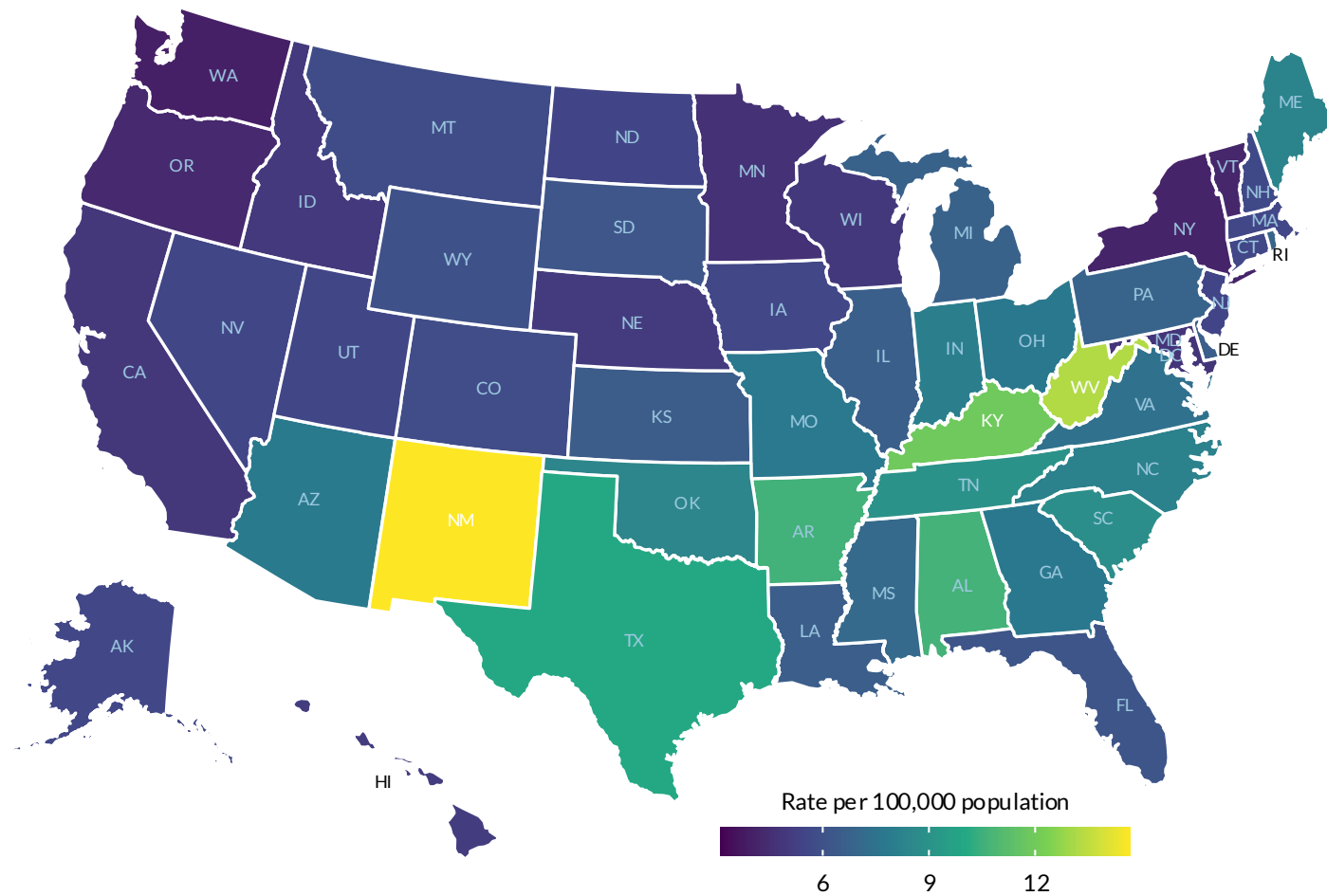


Table 1. Age-adjusted death rates¹ from liver cirrhosis by sex (death registration States, 1910–1932, and United States, 1933–2023).

Year	Both Sexes	Male	Female	Year	Both Sexes	Male	Female
2023	14.1	17.8	10.7	1966	15.9	22.0	10.6
2022	14.9	18.9	11.2	1965	14.9	20.5	10.1
2021	15.5	19.8	11.5	1964	14.2	19.4	9.6
2020	14.2	18.1	10.6	1963	14.0	19.0	9.5
2019	12.2	15.8	8.9	1962	13.8	19.0	9.1
2018	11.9	15.4	8.6	1961	13.3	18.3	8.8
2017	11.6	15.1	8.4	1960	13.3	18.4	8.7
2016	11.4	14.9	8.2	1959	12.9	17.6	8.5
2015	11.5	15.0	8.2	1958	12.7	17.5	8.4
2014	10.9	14.5	7.7	1957	13.4	18.5	8.7
2013	10.6	14.2	7.3	1956	12.7	17.2	8.6
2012	10.3	13.8	7.1	1955	12.2	16.6	8.2
2011	10.0	13.4	7.0	1954	12.0	16.4	8.0
2010	9.7	13.1	6.6	1953	12.5	16.7	8.5
2009	9.4	12.7	6.4	1952	12.3	16.8	8.1
2008	9.4	13.0	6.2	1951	12.0	15.9	8.3
2007	9.3	12.9	6.1	1950	11.3	15.0	7.8
2006	9.0	12.3	6.0	1949	11.3	15.2	7.7
2005	9.2	12.6	6.0	1948	14.3	19.0	9.8
2004	9.1	12.7	6.0	1947	13.3	17.4	9.4
2003	9.5	13.2	6.2	1946	12.3	16.2	8.5
2002	9.6	13.1	6.4	1945	11.8	15.4	8.3
2001	9.7	13.4	6.4	1944	11.1	14.3	8.1
2000	9.7	13.5	6.3	1943	12.3	15.8	8.8
1999	9.8	13.8	6.2	1942	12.5	16.5	8.6
1998	9.4	13.3	6.0	1941	12.2	16.0	8.5
1997	9.6	13.5	6.1	1940	12.0	15.8	8.2
1996	9.7	13.8	6.1	1939	12.0	15.7	8.3
1995	9.9	14.3	6.2	1938	12.2	15.7	8.6
1994	10.2	14.5	6.4	1937	12.6	16.2	8.9
1993	10.3	14.6	6.6	1936	12.5	16.3	8.7
1992	10.5	15.1	6.5	1935	12.2	16.0	8.4
1991	10.8	15.2	7.0	1934	12.0	15.3	8.5
1990	11.1	15.8	7.1	1933 ³	11.9	14.7	9.0
1989	11.7	16.7	7.4	1932	11.6	14.6	8.5
1988	11.7	16.8	7.4	1931	12.1	15.3	8.9
1987	11.8	16.9	7.4	1930	12.0	14.8	9.0
1986	11.9	16.8	7.7	1929	12.1	14.9	9.1
1985	12.3	17.5	8.0	1928	12.8	16.2	9.3
1984	12.7	18.1	8.3	1927	13.0	16.2	9.6
1983	12.9	18.2	8.4	1926	12.8	15.9	9.5
1982	13.3	18.9	8.6	1925	13.1	16.1	10.1
1981	14.3	20.3	9.3	1924	13.1	16.6	9.5
1980	15.1	21.4	9.9	1923	13.4	16.9	9.8
1979	14.9	21.2	9.6	1922	14.1	17.6	10.5
1978	15.3	21.8	9.8	1921	13.9	17.0	10.7
1977	15.9	22.6	10.2	1920	13.4	16.7	10.1
1976	16.5	23.4	10.5	1919	14.6	18.5	10.5
1975	16.7	23.9	10.7	1918	16.6	21.3	11.6
1974	17.9	25.3	11.6	1917	19.0	24.4	13.4
1973	18.1	25.5	11.8	1916	20.1	26.2	13.8
1972 ²	18.0	25.5	11.6	1915	20.6	26.6	14.2
1971	17.8	24.8	11.8	1914	21.3	27.6	14.5
1970	17.8	24.8	11.8	1913	21.7	28.3	14.8
1969	17.1	23.8	11.4	1912	22.2	29.2	14.9
1968	16.9	23.3	11.5	1911	23.2	29.9	16.2
1967	16.3	22.4	11.0	1910	22.3	28.5	15.8

¹ Rates per 100,000 population computed by the direct standardization method, using year 2000 total population of the United States as the standard age distribution.

² Deaths based on a 50-percent sample.

³ Reporting States increased from 10 States and the District of Columbia in 1900 to the entire contiguous United States in 1933.

Table 2. Age-specific number of deaths, age-specific death rates, and age-adjusted death rates¹ from all liver cirrhosis by race, Hispanic origin, and sex, United States, 2000–2023.

Race, Hispanic origin, ² sex, and year	Number of deaths, by age group									Deaths per 100,000 population, by age group								Age-adjusted deaths per 100,000 population
	All ³	0–24	25–34	35–44	45–54	55–64	65–74	75–84	85+	All	25–34	35–44	45–54	55–64	65–74	75–84	85+	
All races, both sexes																		
2023	56,975	83	1,687	5,131	9,184	15,599	14,702	8,200	2,389	17.0	3.7	11.6	22.7	37.3	42.4	44.6	38.6	14.1
2022	59,384	84	1,839	5,626	9,706	17,344	14,790	7,746	2,246	17.8	4.0	12.8	23.9	41.0	43.5	44.5	37.1	14.9
2021	60,990	83	1,893	5,981	10,836	18,465	14,550	7,073	2,107	18.4	4.2	13.8	26.6	43.2	43.3	43.6	34.9	15.5
2020	55,592	68	1,686	5,049	9,805	16,932	13,364	6,648	2,039	16.8	3.7	11.8	23.9	39.3	41.0	42.0	33.6	14.2
2019	47,919	51	1,159	3,517	8,367	15,079	11,740	6,048	1,954	14.6	2.5	8.4	20.5	35.5	37.3	37.9	29.6	12.2
2018	45,972	52	1,049	3,193	8,432	14,600	11,015	5,776	1,854	14.1	2.3	7.7	20.3	34.6	36.2	37.6	28.4	11.9
2017	44,478	43	962	3,080	8,557	14,319	10,408	5,213	1,894	13.7	2.1	7.6	20.3	34.2	35.2	35.5	29.3	11.6
2016	43,018	63	976	2,937	8,580	14,037	9,696	5,052	1,673	13.3	2.2	7.3	20.1	33.9	33.9	35.5	26.2	11.4
2015	42,443	46	887	2,955	9,085	13,818	9,131	4,840	1,678	13.2	2.0	7.3	21.1	33.9	33.2	34.8	26.8	11.5
2014	39,949	47	757	2,651	8,832	13,230	8,417	4,495	1,518	12.5	1.7	6.6	20.4	33.1	31.9	32.9	24.8	10.9
2013	37,890	55	714	2,582	8,957	12,291	7,554	4,275	1,462	12.0	1.7	6.4	20.5	31.3	30.0	31.8	24.4	10.6
2012	36,305	47	625	2,534	9,061	11,573	7,026	4,120	1,317	11.6	1.5	6.3	20.5	30.0	29.3	31.0	22.5	10.3
2011	34,869	62	535	2,539	9,049	11,090	6,225	4,054	1,313	11.2	1.3	6.2	20.2	29.1	27.7	30.8	23.0	10.0
2010	32,982	56	522	2,506	8,825	10,052	6,001	3,787	1,232	10.7	1.3	6.1	19.6	27.3	27.5	29.0	22.2	9.7
2009	31,522	42	489	2,563	8,535	9,414	5,620	3,686	1,170	10.3	1.2	6.2	19.0	26.6	26.5	28.3	21.8	9.4
2008	30,858	54	456	2,659	8,406	8,727	5,608	3,774	1,173	10.1	1.1	6.3	18.9	25.5	27.3	28.9	22.6	9.4
2007	29,925	60	415	2,649	8,359	8,218	5,319	3,789	1,113	9.9	1.0	6.2	19.0	24.8	27.0	29.0	22.1	9.3
2006	28,193	52	348	2,647	7,883	7,362	5,017	3,836	1,044	9.4	0.9	6.1	18.2	23.1	26.1	29.3	21.5	9.0
2005	28,175	53	343	2,779	7,658	7,270	5,177	3,874	1,017	9.5	0.9	6.4	18.0	23.7	27.4	29.6	21.7	9.2
2004	27,554	65	340	2,906	7,630	6,668	5,192	3,783	969	9.4	0.9	6.6	18.3	22.8	27.8	29.1	21.3	9.1
2003	28,085	32	395	3,139	7,624	6,543	5,485	3,898	965	9.7	1.0	7.1	18.7	23.4	29.6	30.2	21.6	9.5
2002	27,794	65	417	3,272	7,361	6,177	5,453	4,043	1,002	9.7	1.1	7.3	18.4	23.1	29.7	31.7	22.9	9.6
2001	27,485	49	414	3,434	7,387	5,834	5,533	3,835	992	9.6	1.0	7.6	18.8	23.2	30.1	30.5	23.0	9.7
2000	27,005	56	442	3,485	6,780	5,836	5,544	3,866	993	9.6	1.1	7.7	17.8	23.9	30.2	31.1	23.3	9.7
All races, male																		
2023	34,258	44	992	3,182	5,846	10,048	8,739	4,284	1,123	20.7	4.3	14.2	29.0	49.0	53.5	52.5	49.2	17.8
2022	36,033	61	1,193	3,544	6,159	11,041	8,886	4,055	1,091	21.8	5.2	16.0	30.5	53.3	55.5	52.5	49.4	18.9
2021	37,386	53	1,161	3,770	7,011	11,872	8,789	3,732	996	22.7	5.0	17.2	34.5	56.7	55.5	52.1	45.6	19.8
2020	34,015	34	1,055	3,141	6,214	11,051	8,059	3,543	917	20.7	4.6	14.5	30.3	52.4	52.5	50.7	42.1	18.1
2019	29,466	26	723	2,206	5,337	9,863	7,135	3,230	943	18.2	3.1	10.6	26.5	48.1	48.6	46.2	39.7	15.8
2018	28,455	35	603	1,976	5,459	9,676	6,718	3,123	864	17.7	2.6	9.6	26.6	47.5	47.2	46.5	37.0	15.4
2017	27,509	28	572	1,885	5,505	9,457	6,430	2,770	861	17.2	2.5	9.3	26.4	46.8	46.5	43.3	37.6	15.1
2016	26,762	31	591	1,800	5,521	9,411	5,972	2,646	786	16.8	2.6	8.9	26.2	47.1	44.7	42.9	35.2	14.9
2015	26,460	28	537	1,847	5,871	9,297	5,588	2,508	781	16.8	2.4	9.2	27.7	47.3	43.5	41.7	36.0	15.0
2014	25,249	28	447	1,643	5,816	9,049	5,211	2,359	694	16.1	2.0	8.2	27.2	47.0	42.3	40.1	33.1	14.5
2013	24,241	31	455	1,660	5,930	8,604	4,696	2,218	647	15.6	2.1	8.3	27.5	45.4	39.9	38.5	31.9	14.2

Table 2. Age-specific number of deaths, age-specific death rates, and age-adjusted death rates¹ from all liver cirrhosis by race, Hispanic origin, and sex, United States, 2000–2023. (Continued)

Race, Hispanic origin, ² sex, and year	Number of deaths, by age group									Deaths per 100,000 population, by age group								Age-adjusted deaths per 100,000 population
	All ³	0–24	25–34	35–44	45–54	55–64	65–74	75–84	85+	All	25–34	35–44	45–54	55–64	65–74	75–84	85+	
2012	23,159	32	393	1,632	6,068	8,080	4,268	2,101	583	15.0	1.8	8.1	27.8	43.5	38.1	37.2	29.7	13.8
2011	22,136	37	320	1,620	5,960	7,736	3,784	2,104	573	14.4	1.5	8.0	27.1	42.1	36.1	37.8	30.4	13.4
2010	21,222	29	321	1,659	5,976	7,063	3,650	1,988	535	14.0	1.5	8.1	27.0	39.8	35.9	36.2	29.6	13.1
2009	20,198	28	325	1,686	5,835	6,597	3,404	1,846	475	13.4	1.6	8.2	26.4	38.6	34.5	34.0	27.4	12.7
2008	20,056	32	310	1,746	5,877	6,203	3,450	1,925	512	13.4	1.5	8.3	26.9	37.7	36.3	35.5	30.8	13.0
2007	19,469	32	279	1,769	5,855	5,819	3,270	1,979	463	13.1	1.4	8.3	27.1	36.4	35.9	36.7	29.1	12.9
2006	18,165	29	231	1,711	5,618	5,164	3,040	1,922	447	12.4	1.2	8.0	26.4	33.5	34.3	35.8	29.4	12.3
2005	18,237	30	213	1,829	5,499	5,166	3,089	1,959	448	12.6	1.1	8.5	26.3	35.0	35.6	36.8	31.0	12.6
2004	17,826	34	245	1,978	5,464	4,629	3,152	1,931	393	12.4	1.2	9.1	26.7	32.8	36.8	36.8	28.5	12.7
2003	18,198	19	272	2,093	5,605	4,588	3,298	1,913	406	12.8	1.4	9.5	28.0	34.0	39.0	36.9	30.3	13.2
2002	17,710	38	264	2,141	5,375	4,273	3,238	1,974	403	12.5	1.3	9.6	27.4	33.3	38.7	38.7	31.2	13.1
2001	17,627	28	275	2,256	5,362	4,074	3,356	1,851	418	12.6	1.4	10.1	27.7	33.8	40.2	37.0	33.1	13.4
2000	17,451	32	295	2,394	5,044	4,037	3,339	1,885	422	12.6	1.5	10.7	27.0	34.4	40.2	38.4	34.1	13.5
All races, female																		
2023	22,717	39	695	1,949	3,338	5,551	5,963	3,916	1,266	13.4	3.1	8.8	16.4	26.0	32.5	38.4	32.4	10.7
2022	23,351	23	646	2,082	3,547	6,303	5,904	3,691	1,155	13.9	2.9	9.6	17.5	29.2	32.8	38.1	30.0	11.2
2021	23,604	30	732	2,211	3,825	6,593	5,761	3,341	1,111	14.1	3.3	10.3	18.8	30.2	32.4	36.9	28.8	11.5
2020	21,577	34	631	1,908	3,591	5,881	5,305	3,105	1,122	12.9	2.8	9.0	17.5	26.8	30.8	35.2	28.9	10.6
2019	18,453	25	436	1,311	3,030	5,216	4,605	2,818	1,011	11.1	1.9	6.3	14.6	23.8	27.4	31.4	23.9	8.9
2018	17,517	17	446	1,217	2,973	4,924	4,297	2,653	990	10.6	2.0	5.9	14.1	22.5	26.5	30.7	23.5	8.6
2017	16,969	15	390	1,195	3,052	4,862	3,978	2,443	1,033	10.3	1.7	5.8	14.3	22.4	25.2	29.5	24.7	8.4
2016	16,256	32	385	1,137	3,059	4,626	3,724	2,406	887	9.9	1.7	5.6	14.1	21.6	24.5	29.9	21.4	8.2
2015	15,983	18	350	1,108	3,214	4,521	3,543	2,332	897	9.8	1.6	5.5	14.7	21.4	24.2	29.5	21.9	8.2
2014	14,700	19	310	1,008	3,016	4,181	3,206	2,136	824	9.1	1.4	5.0	13.7	20.2	22.9	27.4	20.4	7.7
2013	13,649	24	259	922	3,027	3,687	2,858	2,057	815	8.5	1.2	4.5	13.6	18.1	21.3	26.8	20.6	7.3
2012	13,146	15	232	902	2,993	3,493	2,758	2,019	734	8.2	1.1	4.4	13.3	17.5	21.6	26.5	18.8	7.1
2011	12,733	25	215	919	3,089	3,354	2,441	1,950	740	8.0	1.0	4.5	13.6	17.0	20.3	25.7	19.4	7.0
2010	11,760	27	201	847	2,849	2,989	2,351	1,799	697	7.5	1.0	4.1	12.5	15.7	20.1	23.7	18.7	6.6
2009	11,324	14	164	877	2,700	2,817	2,216	1,840	695	7.3	0.8	4.2	11.8	15.4	19.5	24.2	19.1	6.4
2008	10,802	22	146	913	2,529	2,524	2,158	1,849	661	7.0	0.7	4.3	11.2	14.3	19.6	24.1	18.7	6.2
2007	10,456	28	136	880	2,504	2,399	2,049	1,810	650	6.8	0.7	4.1	11.2	14.0	19.3	23.5	18.9	6.1
2006	10,028	23	117	936	2,265	2,198	1,977	1,914	597	6.6	0.6	4.3	10.3	13.3	19.1	24.8	17.8	6.0
2005	9,938	23	130	950	2,159	2,104	2,088	1,915	569	6.6	0.7	4.3	10.0	13.3	20.5	24.7	17.5	6.0
2004	9,728	31	95	928	2,166	2,039	2,040	1,852	576	6.5	0.5	4.2	10.2	13.4	20.2	23.9	18.2	6.0
2003	9,887	13	123	1,046	2,019	1,955	2,187	1,985	559	6.7	0.6	4.7	9.7	13.5	21.8	25.7	17.9	6.2
2002	10,084	27	153	1,131	1,986	1,904	2,215	2,069	599	6.9	0.8	5.0	9.8	13.7	22.1	27.0	19.5	6.4
2001	9,858	21	139	1,178	2,025	1,760	2,177	1,984	574	6.8	0.7	5.2	10.1	13.5	21.7	26.1	18.8	6.4
2000	9,554	24	147	1,091	1,736	1,799	2,205	1,981	571	6.6	0.7	4.8	9.0	14.2	21.9	26.4	18.9	6.3

Table 2. Age-specific number of deaths, age-specific death rates, and age-adjusted death rates¹ from all liver cirrhosis by race, Hispanic origin, and sex, United States, 2000–2023. (Continued)

Race, Hispanic origin, ² sex, and year	Number of deaths, by age group									Deaths per 100,000 population, by age group								Age-adjusted deaths per 100,000 population
	All ³	0–24	25–34	35–44	45–54	55–64	65–74	75–84	85+	All	25–34	35–44	45–54	55–64	65–74	75–84	85+	
White, male																		
2023 ⁴	30,194	37	797	2,699	5,059	8,871	7,746	3,953	1,032	24.0	4.8	16.1	32.5	54.0	57.2	56.7	53.0	19.5
2022 ⁴	31,619	45	958	2,959	5,341	9,691	7,877	3,733	1,012	25.2	5.7	17.8	34.1	58.2	59.2	56.5	53.5	20.7
2021 ⁴	32,531	39	888	3,146	6,000	10,256	7,813	3,459	928	25.9	5.3	19.0	38.0	60.7	59.0	56.5	49.2	21.5
2020 ⁴	29,799	30	835	2,631	5,390	9,662	7,148	3,260	842	23.7	4.9	16.1	33.7	56.7	55.5	54.4	44.6	19.6
2020.....	29,898	30	842	2,643	5,417	9,691	7,163	3,266	845	23.7	4.8	16.3	34.5	58.0	55.9	52.4	40.2	19.7
2019.....	26,083	21	590	1,910	4,695	8,656	6,330	2,999	880	20.7	3.4	11.9	29.5	51.6	50.9	49.6	42.3	17.1
2018.....	25,121	30	487	1,694	4,757	8,443	6,003	2,893	813	20.0	2.8	10.7	29.2	50.5	49.7	49.7	39.6	16.6
2017.....	24,251	22	477	1,610	4,809	8,250	5,721	2,561	800	19.3	2.7	10.2	29.0	49.6	48.5	46.2	39.5	16.2
2016.....	23,650	26	477	1,544	4,860	8,213	5,355	2,437	734	18.9	2.8	9.9	28.8	49.8	46.9	45.5	37.0	15.9
2015.....	23,425	18	448	1,614	5,186	8,099	4,992	2,335	730	18.8	2.6	10.3	30.4	49.8	45.3	44.6	37.8	16.1
2014.....	22,411	24	375	1,426	5,170	7,918	4,652	2,190	654	18.1	2.2	9.1	30.0	49.5	43.9	42.6	34.8	15.5
2013.....	21,385	27	371	1,426	5,225	7,497	4,185	2,052	602	17.3	2.2	9.0	30.0	47.6	41.2	40.6	33.1	15.0
2012.....	20,465	24	331	1,373	5,393	7,062	3,808	1,928	544	16.7	2.0	8.7	30.5	45.4	39.4	38.8	30.8	14.6
2011.....	19,548	30	258	1,400	5,230	6,718	3,410	1,960	540	16.0	1.6	8.8	29.2	43.6	37.7	39.8	31.8	14.2
2010.....	18,743	21	276	1,414	5,237	6,131	3,301	1,846	516	15.4	1.7	8.8	29.0	41.0	37.6	37.9	31.6	13.8
2009.....	17,827	16	262	1,445	5,082	5,760	3,082	1,733	445	14.7	1.6	8.8	28.1	39.9	36.1	35.8	28.3	13.4
2008.....	17,658	26	255	1,510	5,093	5,398	3,098	1,800	477	14.7	1.6	9.0	28.3	38.6	37.7	37.2	31.6	13.5
2007.....	17,084	19	236	1,518	5,064	5,042	2,923	1,839	440	14.3	1.5	8.9	28.4	37.1	37.1	38.1	30.4	13.4
2006.....	16,000	22	188	1,459	4,862	4,523	2,738	1,785	420	13.5	1.2	8.4	27.6	34.4	35.7	37.1	30.4	12.8
2005.....	15,945	20	169	1,578	4,696	4,468	2,796	1,797	418	13.5	1.1	9.0	27.1	35.3	37.0	37.6	31.9	13.0
2004.....	15,582	24	204	1,668	4,676	3,988	2,835	1,815	372	13.3	1.3	9.4	27.4	32.9	38.0	38.4	29.7	13.0
2003.....	15,908	13	224	1,797	4,742	3,956	2,994	1,798	380	13.7	1.4	10.0	28.3	34.0	40.5	38.5	31.2	13.5
2002.....	15,539	34	216	1,836	4,561	3,711	2,935	1,862	380	13.5	1.4	10.1	27.7	33.5	40.0	40.4	32.4	13.5
2001.....	15,235	18	223	1,866	4,483	3,477	3,021	1,745	396	13.3	1.4	10.1	27.5	33.4	41.1	38.6	34.6	13.5
2000.....	15,189	20	236	1,984	4,259	3,499	3,022	1,772	395	13.4	1.5	10.7	27.0	34.5	41.2	39.9	35.4	13.7
White, Hispanic, male																		
2023 ⁴	5,764	14	286	803	1,330	1,629	1,113	445	144	20.1	6.4	18.8	37.0	61.5	76.1	72.9	80.4	23.9
2022 ⁴	6,045	21	304	857	1,377	1,773	1,122	444	147	21.4	6.9	20.3	39.1	69.3	80.7	77.8	86.6	25.8
2021 ⁴	6,162	10	292	894	1,494	1,799	1,124	429	120	22.2	6.7	21.5	43.3	72.6	84.6	80.6	73.1	26.9
2020 ⁴	5,510	14	240	780	1,272	1,670	1,019	424	91	20.0	5.5	18.9	37.5	69.8	80.8	83.0	56.1	24.9
2020.....	5,531	14	242	782	1,278	1,675	1,024	425	91	20.1	5.4	19.3	38.6	71.7	82.0	80.2	50.0	25.2
2019.....	4,796	5	195	561	1,116	1,490	916	398	115	17.7	4.4	14.0	34.4	66.5	77.9	79.2	66.8	23.1
2018.....	4,638	13	146	494	1,170	1,429	909	362	114	17.3	3.3	12.5	36.7	66.7	81.8	75.8	69.8	23.2
2017.....	4,366	6	122	462	1,106	1,409	804	334	123	16.6	2.8	11.9	35.5	68.9	76.6	73.7	79.3	22.7
2016.....	4,213	6	139	453	1,072	1,361	735	347	99	16.3	3.3	11.9	35.3	69.9	74.1	80.1	67.8	22.8
2015.....	4,094	7	124	436	1,137	1,258	708	323	101	16.2	3.0	11.7	38.6	67.8	75.9	77.9	74.4	23.1

Table 2. Age-specific number of deaths, age-specific death rates, and age-adjusted death rates¹ from all liver cirrhosis by race, Hispanic origin, and sex, United States, 2000–2023. (Continued)

Race, Hispanic origin, ² sex, and year	Number of deaths, by age group									Deaths per 100,000 population, by age group								Age-adjusted deaths per 100,000 population
	All ³	0–24	25–34	35–44	45–54	55–64	65–74	75–84	85+	All	25–34	35–44	45–54	55–64	65–74	75–84	85+	
2014	3,892	5	113	404	1,088	1,313	646	260	63	15.7	2.7	11.1	38.0	74.8	73.7	65.4	50.4	22.4
2013	3,553	8	93	376	1,071	1,102	567	265	71	14.6	2.3	10.5	38.6	66.1	68.7	69.6	61.4	21.6
2012	3,400	4	95	356	1,041	1,098	520	226	60	14.2	2.3	10.1	38.7	69.1	67.1	61.9	56.2	21.3
2011	3,306	12	77	379	1,038	993	503	251	52	14.0	1.9	10.9	39.9	65.7	69.3	71.8	52.7	21.8
2010	3,062	5	93	362	937	903	460	242	60	13.2	2.3	10.6	37.3	63.3	66.8	72.4	66.1	21.3
2009	2,944	6	101	386	917	837	456	189	52	13.0	2.6	11.5	38.1	62.5	69.6	59.3	61.9	21.1
2008	2,850	7	90	376	923	782	439	183	50	12.9	2.3	11.5	40.2	62.0	70.5	59.7	64.9	21.4
2007	2,781	6	84	384	915	713	438	198	42	13.0	2.2	12.0	41.9	60.0	73.9	67.1	59.4	22.0
2006	2,516	10	66	358	843	657	343	191	46	12.1	1.7	11.5	40.7	58.7	60.3	67.4	70.9	20.9
2005	2,563	8	67	368	814	661	408	207	27	12.7	1.8	12.3	41.4	63.0	74.6	76.7	44.9	22.4
2004	2,376	10	67	375	818	553	337	195	21	12.2	1.8	12.9	44.2	56.4	64.0	76.5	37.7	21.5
2003	2,377	4	82	384	760	612	331	181	23	12.6	2.3	13.7	43.3	66.5	65.3	75.4	43.5	22.6
2002	2,433	9	71	407	798	560	403	157	27	13.3	2.0	15.0	48.1	64.8	82.6	69.6	53.8	24.3
2001	2,412	5	68	421	782	555	386	171	23	13.6	2.0	16.1	49.9	68.6	81.9	81.0	47.2	25.4
2000	2,306	6	82	403	706	524	393	162	30	13.5	2.5	16.1	48.0	68.4	86.6	82.2	63.2	25.8
White, non-Hispanic, male																		
2023 ⁴	24,329	23	509	1,891	3,713	7,204	6,602	3,500	887	25.1	4.1	15.1	31.0	52.3	54.7	55.0	50.2	18.6
2022 ⁴	25,466	24	652	2,093	3,948	7,877	6,724	3,282	864	26.2	5.3	16.8	32.6	55.9	56.4	54.3	50.1	19.7
2021 ⁴	26,266	29	595	2,245	4,490	8,410	6,661	3,028	808	26.9	4.8	18.1	36.4	58.3	55.9	54.1	47.0	20.5
2020 ⁴	24,217	16	591	1,847	4,103	7,965	6,111	2,834	749	24.7	4.7	15.1	32.5	54.3	52.6	51.7	43.4	18.7
2020	24,295	16	596	1,857	4,124	7,989	6,121	2,839	752	24.6	4.6	15.3	33.3	55.6	52.9	49.8	39.1	18.8
2019	21,194	16	394	1,345	3,562	7,131	5,387	2,594	765	21.4	3.0	11.2	28.1	49.1	47.8	46.7	40.1	16.2
2018	20,402	17	340	1,194	3,576	6,979	5,072	2,525	699	20.6	2.6	10.0	27.3	47.9	46.3	47.3	37.0	15.6
2017	19,777	16	354	1,145	3,685	6,782	4,895	2,222	677	19.9	2.7	9.7	27.3	46.5	45.6	43.7	36.2	15.2
2016	19,332	20	337	1,090	3,755	6,816	4,596	2,085	632	19.5	2.6	9.2	27.2	46.9	44.1	42.3	34.4	15.0
2015	19,223	11	323	1,172	4,019	6,794	4,270	2,007	626	19.4	2.5	9.8	28.5	47.2	42.4	41.7	34.8	15.1
2014	18,419	19	261	1,014	4,061	6,562	3,989	1,922	590	18.6	2.0	8.4	28.3	46.1	41.1	40.5	33.7	14.6
2013	17,741	19	277	1,046	4,131	6,352	3,601	1,784	531	17.9	2.2	8.6	28.2	45.1	38.6	38.2	31.2	14.2
2012	16,967	20	234	1,014	4,320	5,920	3,275	1,698	484	17.2	1.9	8.2	28.8	42.4	36.8	36.9	29.2	13.7
2011	16,193	18	180	1,015	4,178	5,709	2,900	1,705	488	16.4	1.5	8.1	27.3	41.1	34.9	37.3	30.5	13.3
2010	15,624	16	183	1,047	4,277	5,213	2,829	1,603	456	15.9	1.5	8.2	27.5	38.5	34.9	35.3	29.5	13.0
2009	14,819	10	161	1,054	4,140	4,902	2,617	1,543	392	15.1	1.3	8.1	26.4	37.4	33.2	34.1	26.4	12.5
2008	14,774	19	164	1,132	4,157	4,606	2,656	1,612	427	15.1	1.4	8.4	26.5	36.2	34.9	35.6	29.9	12.7
2007	14,260	12	148	1,131	4,132	4,316	2,482	1,640	397	14.6	1.3	8.1	26.4	34.8	34.1	36.2	28.9	12.4
2006	13,438	12	119	1,096	4,006	3,852	2,389	1,590	373	13.7	1.0	7.7	25.7	32.0	33.6	35.1	28.4	11.9
2005	13,321	12	102	1,203	3,855	3,792	2,379	1,587	391	13.7	0.9	8.3	25.0	32.7	34.0	35.2	31.2	12.0
2004	13,151	13	137	1,289	3,832	3,422	2,489	1,619	350	13.5	1.1	8.7	25.2	30.7	35.9	36.2	29.2	12.1
2003	13,474	9	141	1,407	3,961	3,324	2,657	1,615	357	13.9	1.2	9.3	26.4	31.1	38.6	36.4	30.7	12.6

Table 2. Age-specific number of deaths, age-specific death rates, and age-adjusted death rates¹ from all liver cirrhosis by race, Hispanic origin, and sex, United States, 2000–2023. (Continued)

Race, Hispanic origin, ² sex, and year	Number of deaths, by age group									Deaths per 100,000 population, by age group								Age-adjusted deaths per 100,000 population
	All ³	0–24	25–34	35–44	45–54	55–64	65–74	75–84	85+	All	25–34	35–44	45–54	55–64	65–74	75–84	85+	
2002	13,032	25	144	1,419	3,740	3,129	2,522	1,698	353	13.4	1.2	9.2	25.2	30.6	36.8	38.8	31.4	12.4
2001	12,767	13	155	1,441	3,687	2,905	2,620	1,572	371	13.2	1.2	9.1	25.0	30.3	38.1	36.5	33.9	12.3
2000	12,807	14	151	1,571	3,527	2,956	2,617	1,607	363	13.3	1.2	9.8	24.6	31.6	38.0	37.8	33.9	12.6
Black, male																		
2023 ⁴	2,356	3	51	204	401	776	682	201	38	10.7	1.4	6.8	15.7	31.8	41.6	31.4	23.5	10.7
2022 ⁴	2,558	8	64	212	434	910	705	198	27	11.7	1.8	7.2	17.1	37.2	44.6	32.9	17.4	11.7
2021 ⁴	2,817	5	69	237	518	1,114	708	138	28	13.0	2.0	8.2	20.3	45.2	46.2	24.5	18.5	12.7
2020 ⁴	2,547	2	51	196	458	977	674	156	33	11.8	1.5	6.9	17.7	39.6	46.0	28.3	22.1	11.8
2020	2,572	2	57	202	462	983	676	157	33	11.3	1.5	7.0	18.0	40.3	45.8	27.0	19.3	11.8
2019	2,193	2	29	121	388	902	584	138	28	9.8	0.8	4.3	14.9	37.3	41.5	24.7	17.0	10.2
2018	2,138	—	21	112	417	898	543	122	25	9.6	0.6	4.0	15.9	37.7	40.5	22.7	15.8	10.1
2017	2,137	3	33	118	395	916	519	130	23	9.7	1.0	4.3	14.9	39.2	40.4	25.3	15.2	10.3
2016	2,079	1	32	104	406	916	462	137	21	9.5	1.0	3.8	15.2	40.1	37.7	27.7	14.4	10.3
2015	2,012	3	26	87	425	869	471	106	25	9.4	0.8	3.2	15.9	39.0	40.5	22.3	17.9	10.2
2014	1,955	—	20	93	433	868	423	100	18	9.2	0.6	3.5	16.2	40.2	38.5	21.8	13.5	10.1
2013	1,972	2	29	103	458	883	367	104	26	9.4	1.0	3.9	17.0	42.2	35.4	23.5	20.4	10.5
2012	1,837	3	18	124	451	787	329	106	19	8.9	0.6	4.7	16.6	38.9	33.6	24.8	15.5	10.1
2011	1,794	3	31	95	495	799	264	92	15	8.8	1.1	3.6	18.2	41.0	28.6	22.3	12.8	9.9
2010	1,738	3	13	113	527	733	250	93	6	8.6	0.5	4.3	19.4	39.5	28.0	23.3	5.4	9.8
2009	1,692	5	28	116	544	658	243	80	18	8.5	1.0	4.4	20.4	37.5	28.1	20.6	17.0	9.9
2008	1,705	4	27	122	566	628	256	85	17	8.7	1.0	4.5	21.6	37.8	30.6	22.2	16.9	10.4
2007	1,708	10	14	129	568	611	274	91	11	8.8	0.5	4.8	22.3	38.6	33.9	24.2	11.5	10.8
2006	1,545	5	11	161	550	487	222	92	17	8.1	0.4	6.0	22.2	32.3	28.3	24.9	18.5	10.1
2005	1,685	8	14	148	613	545	232	107	17	9.0	0.5	5.5	25.4	38.3	30.3	29.3	19.2	11.4
2004	1,700	8	16	206	627	509	246	74	14	9.2	0.6	7.6	26.9	38.0	33.0	20.6	16.5	11.7
2003	1,761	4	26	199	688	512	238	73	21	9.7	1.0	7.3	30.5	40.5	32.6	20.6	25.2	12.5
2002	1,658	3	29	189	659	450	233	80	15	9.2	1.1	6.9	30.3	37.6	32.6	23.0	18.0	12.1
2001	1,879	4	29	281	726	479	272	76	11	10.6	1.1	10.3	34.8	42.3	38.8	22.3	13.0	14.0
2000	1,775	9	30	300	651	422	263	82	17	10.2	1.2	11.1	32.9	38.4	38.3	24.6	19.6	13.7
Black, Hispanic, ⁵ male																		
2023 ⁴	58	—	7	7	8	16	17	2	1	3.4	2.7	3.0	4.8	13.2	25.0	7.6	14.4	4.9
2022 ⁴	42	—	—	10	13	7	10	1	1	2.5	—	4.5	8.0	6.0	15.6	4.1	15.3	3.8
2021 ⁴	45	—	1	8	5	14	14	2	1	2.8	0.4	3.7	3.2	12.3	23.1	8.8	16.3	4.3
2020 ⁴	48	—	3	5	15	15	5	5	—	3.0	1.2	2.4	9.9	13.6	8.8	23.1	—	4.7
2020	52	—	3	8	15	15	6	5	—	3.0	1.1	3.5	9.3	12.9	9.9	20.9	—	4.7
2019	28	—	—	2	5	10	6	3	2	1.6	—	0.9	3.2	9.0	10.6	13.3	31.1	3.1

Table 2. Age-specific number of deaths, age-specific death rates, and age-adjusted death rates¹ from all liver cirrhosis by race, Hispanic origin, and sex, United States, 2000–2023. (Continued)

Race, Hispanic origin, ² sex, and year	Number of deaths, by age group									Deaths per 100,000 population, by age group								Age-adjusted deaths per 100,000 population
	All ³	0–24	25–34	35–44	45–54	55–64	65–74	75–84	85+	All	25–34	35–44	45–54	55–64	65–74	75–84	85+	
2018	28	—	1	1	9	12	3	2	—	1.7	0.4	0.5	5.8	11.3	5.7	9.5	—	2.7
2017	27	—	1	1	8	10	7	—	—	1.7	0.4	0.5	5.3	9.9	14.2	—	—	2.7
2016	26	—	1	—	9	6	4	6	—	1.7	0.4	—	6.2	6.3	8.7	32.5	—	3.5
2015	33	—	1	2	9	10	5	5	1	2.2	0.4	1.0	6.4	11.0	11.7	28.9	20.5	4.4
2014	41	—	1	4	10	14	9	3	—	2.8	0.4	2.2	7.3	16.4	22.9	18.5	—	5.2
2013	16	—	—	3	3	5	2	1	2	1.1	—	1.7	2.3	6.2	5.5	6.6	49.5	2.6
2012	24	—	1	3	4	6	5	5	—	1.7	0.4	1.8	3.1	7.9	14.8	35.1	—	4.0
2011	18	—	1	—	8	7	1	1	—	1.3	0.5	—	6.5	9.9	3.2	7.5	—	2.3
2010	10	—	—	1	3	5	—	1	—	0.8	—	0.6	2.5	7.5	—	8.1	—	1.5
2009	14	—	—	1	5	4	4	—	—	1.1	—	0.7	4.4	6.6	14.5	—	—	2.2
2008	22	—	1	3	9	5	4	—	—	1.9	0.5	2.0	8.5	8.9	15.4	—	—	3.3
2007	15	—	—	2	8	4	1	—	—	1.4	—	1.4	8.0	7.7	4.1	—	—	2.3
2006	22	—	—	2	10	4	5	1	—	2.1	—	1.5	10.7	8.3	21.8	10.5	—	4.3
2005	14	—	—	1	3	5	3	1	1	1.4	—	0.8	3.4	11.2	13.8	11.1	46.6	3.7
2004	11	—	—	2	6	2	—	1	—	1.2	—	1.6	7.3	4.9	—	12.0	—	2.2
2003	13	—	—	2	2	4	2	3	—	1.5	—	1.7	2.6	10.6	10.4	38.6	—	4.0
2002	16	—	—	2	3	5	4	2	—	1.9	—	1.8	4.2	14.4	22.2	27.4	—	4.8
2001	11	—	1	1	4	3	1	1	—	1.4	0.7	0.9	6.0	9.4	5.9	14.7	—	2.9
2000	13	—	2	3	2	4	2	—	—	1.7	1.6	3.0	3.2	13.4	12.6	—	—	3.1
Black, non-Hispanic, male																		
2023 ⁴	2,278	3	44	196	392	754	656	196	37	11.2	1.3	7.1	16.5	32.6	41.7	31.9	23.9	11.0
2022 ⁴	2,493	8	64	197	419	892	690	197	26	12.4	2.0	7.2	17.6	38.3	45.5	34.1	17.5	12.0
2021 ⁴	2,757	5	67	229	512	1,090	692	135	27	13.7	2.1	8.6	21.4	46.3	47.1	24.9	18.5	13.1
2020 ⁴	2,485	2	48	189	440	958	665	151	32	12.4	1.5	7.2	18.1	40.7	47.2	28.5	22.3	12.1
2020	2,506	2	54	192	444	964	666	152	32	12.0	1.6	7.2	18.4	41.5	47.1	27.3	19.6	12.1
2019	2,149	2	29	119	381	887	573	132	26	10.4	0.9	4.6	15.6	38.5	42.5	24.6	16.5	10.5
2018	2,097	—	20	111	403	883	536	119	25	10.2	0.6	4.3	16.3	38.8	41.6	23.1	16.5	10.4
2017	2,093	3	32	117	385	898	507	128	23	10.3	1.0	4.6	15.4	40.2	41.0	25.9	15.8	10.6
2016	2,033	1	31	104	395	898	453	130	21	10.1	1.0	4.1	15.7	41.1	38.4	27.3	15.0	10.5
2015	1,963	3	25	83	412	852	463	101	24	9.8	0.8	3.3	16.3	39.9	41.3	22.0	17.8	10.3
2014	1,887	—	19	89	419	839	407	96	18	9.6	0.7	3.6	16.5	40.5	38.4	21.7	14.0	10.2
2013	1,932	2	27	98	450	870	360	101	24	9.9	1.0	4.0	17.5	43.3	36.0	23.7	19.4	10.7
2012	1,800	3	17	121	443	776	321	100	19	9.3	0.6	4.9	17.2	39.9	33.9	24.2	15.9	10.3
2011	1,768	3	30	95	482	789	263	91	15	9.3	1.1	3.9	18.6	42.0	29.5	22.7	13.2	10.1
2010	1,717	3	12	111	518	726	249	92	6	9.1	0.5	4.5	20.0	40.6	28.8	23.8	5.5	10.1
2009	1,667	5	28	114	535	649	238	80	18	8.9	1.1	4.5	20.9	38.3	28.5	21.2	17.5	10.2
2008	1,676	4	26	118	554	620	252	85	17	9.1	1.0	4.6	22.1	38.6	31.1	22.9	17.3	10.6

Table 2. Age-specific number of deaths, age-specific death rates, and age-adjusted death rates¹ from all liver cirrhosis by race, Hispanic origin, and sex, United States, 2000–2023. (Continued)

Race, Hispanic origin, ² sex, and year	Number of deaths, by age group									Deaths per 100,000 population, by age group								Age-adjusted deaths per 100,000 population
	All ³	0–24	25–34	35–44	45–54	55–64	65–74	75–84	85+	All	25–34	35–44	45–54	55–64	65–74	75–84	85+	
2007	1,687	10	14	126	559	603	273	91	11	9.3	0.6	4.9	22.8	39.3	34.9	24.9	11.8	11.0
2006	1,511	5	11	157	538	478	216	89	17	8.4	0.5	6.1	22.5	32.8	28.3	24.7	19.0	10.2
2005	1,662	8	14	145	609	537	226	106	16	9.4	0.6	5.6	26.2	39.0	30.4	29.7	18.5	11.6
2004	1,680	8	16	204	617	505	244	72	14	9.6	0.7	7.9	27.4	38.9	33.6	20.5	16.9	11.9
2003	1,730	4	26	196	678	501	234	70	21	10.0	1.1	7.6	31.2	40.9	32.9	20.2	25.8	12.6
2002	1,628	3	28	186	651	441	227	77	15	9.5	1.2	7.1	31.0	38.0	32.6	22.6	18.4	12.3
2001	1,855	3	28	280	715	472	270	75	11	10.9	1.2	10.7	35.4	42.9	39.5	22.5	13.3	14.2
2000	1,753	9	28	295	645	416	260	82	17	10.5	1.1	11.3	33.6	38.9	38.7	25.1	20.0	14.0
White, female																		
2023 ⁴	19,673	23	497	1,512	2,781	4,857	5,277	3,589	1,137	15.6	3.1	9.4	18.3	29.1	35.6	42.1	34.7	11.8
2022 ⁴	20,260	18	466	1,628	2,948	5,465	5,299	3,392	1,044	16.1	2.9	10.2	19.3	32.3	36.3	41.8	32.2	12.3
2021 ⁴	20,158	19	529	1,696	3,090	5,651	5,131	3,059	983	16.0	3.3	10.7	20.1	32.9	35.4	40.4	30.1	12.4
2020 ⁴	18,589	22	466	1,521	2,968	5,018	4,719	2,869	1,006	14.7	2.9	9.7	19.1	28.9	33.6	38.7	30.4	11.5
2020	18,686	25	474	1,534	2,989	5,038	4,742	2,877	1,007	14.5	2.8	9.7	19.1	28.8	33.2	36.9	27.7	11.4
2019	16,091	18	332	1,038	2,539	4,528	4,135	2,572	928	12.5	2.0	6.6	15.9	25.8	29.8	33.9	25.5	9.7
2018	15,332	15	338	984	2,498	4,294	3,860	2,450	893	12.0	2.0	6.3	15.3	24.5	28.7	33.4	24.6	9.3
2017	14,832	11	304	966	2,586	4,207	3,577	2,241	939	11.6	1.8	6.3	15.6	24.1	27.3	31.9	25.8	9.1
2016	14,228	21	307	935	2,618	3,989	3,369	2,183	806	11.2	1.9	6.1	15.5	23.0	26.5	31.9	22.2	8.9
2015	13,938	15	279	895	2,696	3,915	3,180	2,135	823	11.0	1.7	5.8	15.7	22.9	26.0	31.7	22.9	8.8
2014	12,761	14	239	807	2,546	3,555	2,895	1,942	763	10.1	1.5	5.2	14.7	21.1	24.5	29.1	21.5	8.2
2013	11,840	20	197	724	2,562	3,137	2,578	1,866	756	9.4	1.2	4.7	14.6	18.9	22.8	28.3	21.5	7.7
2012	11,516	11	173	745	2,535	3,046	2,483	1,850	673	9.2	1.1	4.8	14.2	18.6	23.0	28.1	19.4	7.6
2011	11,096	17	156	735	2,621	2,874	2,227	1,796	670	8.9	1.0	4.7	14.5	17.7	21.9	27.3	19.7	7.4
2010	10,265	20	143	682	2,389	2,576	2,140	1,660	655	8.3	0.9	4.3	13.1	16.4	21.6	25.2	19.6	6.9
2009	9,860	11	126	723	2,270	2,413	1,981	1,688	647	8.0	0.8	4.5	12.4	15.9	20.5	25.5	19.9	6.7
2008	9,430	15	106	742	2,129	2,163	1,953	1,712	610	7.7	0.7	4.5	11.7	14.7	20.9	25.5	19.2	6.5
2007	9,088	21	101	734	2,072	2,033	1,846	1,682	599	7.4	0.7	4.4	11.5	14.2	20.5	24.9	19.3	6.4
2006	8,752	14	90	753	1,900	1,883	1,782	1,770	559	7.2	0.6	4.4	10.6	13.6	20.2	25.9	18.5	6.2
2005	8,637	19	92	787	1,765	1,799	1,891	1,763	521	7.2	0.6	4.5	10.0	13.5	21.7	25.7	17.8	6.2
2004	8,452	23	75	746	1,785	1,723	1,845	1,726	528	7.1	0.5	4.3	10.3	13.5	21.3	25.1	18.4	6.2
2003	8,596	6	93	835	1,629	1,666	1,967	1,873	527	7.2	0.6	4.7	9.6	13.6	22.8	27.3	18.6	6.3
2002	8,733	21	105	920	1,578	1,620	2,005	1,922	562	7.4	0.7	5.1	9.4	13.8	23.2	28.1	20.2	6.5
2001	8,543	10	106	954	1,605	1,518	1,961	1,848	541	7.3	0.7	5.2	9.7	13.7	22.6	27.2	19.6	6.5
2000	8,165	15	99	853	1,355	1,497	1,956	1,853	537	7.0	0.6	4.6	8.4	13.9	22.4	27.5	19.6	6.2
White, Hispanic, female																		
2023 ⁴	3,079	5	112	265	451	674	804	563	205	11.0	2.7	6.8	13.1	25.4	48.2	68.4	65.7	12.7
2022 ⁴	3,174	4	105	290	465	743	828	542	197	11.5	2.5	7.6	13.8	28.9	51.9	69.9	66.0	13.6

Table 2. Age-specific number of deaths, age-specific death rates, and age-adjusted death rates¹ from all liver cirrhosis by race, Hispanic origin, and sex, United States, 2000–2023. (Continued)

Race, Hispanic origin, ² sex, and year	Number of deaths, by age group									Deaths per 100,000 population, by age group								Age-adjusted deaths per 100,000 population
	All ³	0–24	25–34	35–44	45–54	55–64	65–74	75–84	85+	All	25–34	35–44	45–54	55–64	65–74	75–84	85+	
2021 ⁴	2,935	8	104	272	438	744	680	512	177	10.8	2.6	7.2	13.2	29.8	44.5	70.1	61.1	13.0
2020 ⁴	2,782	7	101	266	393	637	710	498	170	10.4	2.5	7.1	12.1	26.3	48.8	71.1	59.7	12.8
2020	2,800	7	102	268	395	642	714	501	171	10.4	2.5	7.1	12.2	26.5	48.5	68.2	54.0	12.6
2019	2,336	5	59	188	319	576	633	401	155	8.8	1.5	5.0	10.0	24.6	45.4	57.1	51.6	10.9
2018	2,248	6	60	171	322	554	596	404	135	8.6	1.5	4.6	10.3	24.6	45.1	60.3	47.1	10.9
2017	2,073	4	52	168	344	503	517	364	121	8.0	1.3	4.6	11.3	23.2	41.1	57.1	44.5	10.5
2016	2,049	6	54	166	351	515	445	391	121	8.1	1.4	4.6	11.8	24.8	37.3	64.0	47.1	10.8
2015	2,037	4	45	162	334	521	504	362	105	8.2	1.2	4.6	11.6	26.3	44.7	61.7	43.6	11.2
2014	1,846	6	39	123	335	450	463	313	117	7.6	1.0	3.5	11.9	23.8	43.5	55.5	52.3	10.6
2013	1,660	5	34	108	332	384	383	308	106	7.0	0.9	3.1	12.2	21.3	38.0	56.8	50.8	10.0
2012	1,640	5	27	112	322	405	383	287	99	7.0	0.7	3.3	12.2	23.5	40.2	55.0	50.9	10.3
2011	1,519	5	30	90	327	363	348	275	81	6.6	0.8	2.7	12.7	22.1	38.8	54.9	44.7	9.9
2010	1,329	6	20	92	303	297	293	235	83	5.9	0.6	2.8	12.2	19.1	34.3	48.9	49.5	9.1
2009	1,368	5	25	96	260	331	296	270	85	6.3	0.7	3.0	10.9	22.5	36.2	58.6	54.4	9.9
2008	1,265	1	19	111	249	255	305	259	66	6.0	0.5	3.6	10.9	18.4	39.2	58.2	45.1	9.6
2007	1,133	3	20	81	236	244	262	230	57	5.5	0.6	2.7	10.8	18.6	35.3	53.7	41.4	9.0
2006	1,074	2	22	92	222	211	241	227	57	5.4	0.7	3.2	10.7	17.0	33.8	55.2	44.1	8.9
2005	1,003	6	17	100	185	215	247	183	50	5.2	0.5	3.6	9.4	18.5	36.0	46.6	41.1	8.7
2004	1,015	8	12	90	170	219	267	216	33	5.5	0.4	3.3	9.1	20.1	40.3	58.0	29.0	9.3
2003	1,012	1	23	92	161	187	298	211	39	5.6	0.7	3.5	9.1	18.2	46.6	60.0	35.7	9.8
2002	977	8	21	97	176	199	257	165	54	5.6	0.7	3.9	10.5	20.6	41.6	49.8	51.9	9.8
2001	902	4	16	106	168	173	233	164	38	5.4	0.5	4.4	10.6	19.1	39.1	52.6	37.8	9.4
2000	873	4	11	100	147	171	236	161	43	5.4	0.4	4.3	9.8	19.8	41.1	55.1	44.4	9.7
White, non-Hispanic, female																		
2023 ⁴	16,551	18	383	1,243	2,325	4,175	4,460	3,018	929	16.8	3.2	10.2	19.8	29.8	33.9	39.2	31.3	11.9
2022 ⁴	17,047	14	360	1,336	2,476	4,708	4,460	2,846	847	17.3	3.0	11.0	20.9	32.8	34.3	38.8	28.7	12.3
2021 ⁴	17,180	11	423	1,421	2,644	4,895	4,438	2,542	806	17.4	3.5	11.8	21.9	33.3	34.2	37.1	27.1	12.6
2020 ⁴	15,777	15	365	1,254	2,567	4,371	4,000	2,370	835	15.9	3.0	10.5	20.8	29.2	31.7	35.3	27.6	11.6
2020	15,856	18	372	1,265	2,586	4,386	4,019	2,375	835	15.6	3.0	10.5	20.8	29.1	31.3	33.7	25.2	11.5
2019	13,728	13	272	850	2,215	3,939	3,496	2,169	773	13.5	2.2	7.1	17.4	25.9	28.1	31.5	23.2	9.7
2018	13,043	9	278	810	2,170	3,726	3,254	2,039	757	12.8	2.2	6.9	16.5	24.4	26.9	30.6	22.6	9.3
2017	12,720	7	252	794	2,231	3,691	3,055	1,874	815	12.5	2.0	6.8	16.4	24.1	25.8	29.3	24.2	9.1
2016	12,138	15	252	765	2,257	3,462	2,913	1,790	684	11.9	2.0	6.5	16.2	22.7	25.3	28.7	20.3	8.8
2015	11,862	11	233	728	2,357	3,376	2,669	1,771	717	11.6	1.9	6.2	16.6	22.4	24.0	28.8	21.4	8.7
2014	10,882	8	200	682	2,203	3,093	2,426	1,625	645	10.7	1.6	5.7	15.2	20.7	22.6	26.6	19.4	8.0
2013	10,153	15	162	616	2,222	2,743	2,190	1,555	650	10.0	1.3	5.1	15.0	18.6	21.2	25.7	19.7	7.5
2012	9,845	6	146	631	2,204	2,630	2,096	1,559	573	9.7	1.2	5.2	14.5	18.0	21.3	25.8	17.5	7.4
2011	9,562	12	126	643	2,286	2,507	1,879	1,520	589	9.4	1.0	5.2	14.7	17.2	20.3	25.0	18.3	7.2

Table 2. Age-specific number of deaths, age-specific death rates, and age-adjusted death rates¹ from all liver cirrhosis by race, Hispanic origin, and sex, United States, 2000–2023. (Continued)

Race, Hispanic origin, ² sex, and year	Number of deaths, by age group									Deaths per 100,000 population, by age group								Age-adjusted deaths per 100,000 population
	All ³	0–24	25–34	35–44	45–54	55–64	65–74	75–84	85+	All	25–34	35–44	45–54	55–64	65–74	75–84	85+	
2010	8,916	14	123	588	2,081	2,272	1,844	1,423	571	8.8	1.0	4.6	13.2	16.1	20.4	23.3	18.0	6.8
2009	8,480	6	100	626	2,007	2,079	1,684	1,415	562	8.3	0.8	4.8	12.6	15.2	19.1	23.0	18.1	6.5
2008	8,153	14	87	628	1,877	1,905	1,646	1,452	544	8.0	0.7	4.7	11.8	14.3	19.2	23.2	18.0	6.3
2007	7,951	18	81	653	1,836	1,788	1,583	1,450	542	7.8	0.7	4.7	11.5	13.8	19.2	22.9	18.3	6.2
2006	7,664	12	68	659	1,672	1,666	1,541	1,543	502	7.6	0.6	4.6	10.6	13.2	19.0	24.1	17.4	6.0
2005	7,617	13	74	684	1,575	1,582	1,642	1,576	471	7.5	0.6	4.7	10.1	13.0	20.5	24.4	16.7	6.1
2004	7,417	15	63	654	1,604	1,500	1,576	1,509	495	7.3	0.5	4.4	10.4	12.8	19.7	23.2	18.0	5.9
2003	7,567	5	70	740	1,465	1,474	1,667	1,658	488	7.5	0.6	4.9	9.6	13.1	20.9	25.5	17.9	6.1
2002	7,734	13	84	820	1,396	1,416	1,742	1,755	508	7.7	0.7	5.3	9.3	13.1	21.8	27.0	18.9	6.3
2001	7,620	6	90	843	1,434	1,343	1,723	1,679	502	7.5	0.7	5.3	9.6	13.2	21.3	25.9	18.8	6.3
2000	7,269	11	87	751	1,202	1,322	1,715	1,688	493	7.2	0.7	4.7	8.3	13.3	21.0	26.2	18.6	6.0
Black, female																		
2023 ⁴	1,683	4	74	229	305	448	422	151	50	7.1	2.1	7.1	10.7	15.9	19.8	15.3	14.1	6.5
2022 ⁴	1,693	2	61	228	321	527	353	150	51	7.2	1.7	7.2	11.3	18.6	17.1	16.1	14.8	6.6
2021 ⁴	1,921	3	73	260	422	593	396	119	55	8.2	2.1	8.3	14.8	20.8	19.8	13.5	16.1	7.6
2020 ⁴	1,702	5	48	182	358	579	359	116	55	7.3	1.4	5.9	12.4	20.4	18.8	13.5	16.2	6.7
2020	1,723	6	50	186	363	584	361	117	56	7.0	1.3	5.9	12.4	20.2	18.4	12.8	14.6	6.6
2019	1,415	4	41	125	284	488	301	128	44	5.8	1.1	4.0	9.6	17.1	16.1	14.5	11.8	5.5
2018	1,293	2	34	126	293	436	275	87	40	5.4	0.9	4.1	9.8	15.5	15.4	10.2	11.0	5.1
2017	1,306	2	33	114	292	472	244	111	38	5.5	0.9	3.7	9.7	17.0	14.3	13.6	10.8	5.3
2016	1,225	6	31	110	271	462	211	92	42	5.2	0.9	3.6	9.0	17.0	13.0	11.6	12.3	5.0
2015	1,306	2	35	113	338	451	223	105	39	5.6	1.0	3.8	11.2	17.0	14.5	13.7	11.7	5.5
2014	1,203	3	31	99	299	461	187	93	30	5.2	0.9	3.3	9.9	17.9	12.8	12.5	9.3	5.1
2013	1,140	1	21	106	302	401	167	113	29	5.0	0.6	3.6	9.9	16.0	12.1	15.6	9.3	5.1
2012	1,010	3	26	83	286	332	161	85	34	4.5	0.8	2.8	9.4	13.7	12.3	12.0	11.2	4.6
2011	1,067	5	20	94	319	370	149	77	33	4.8	0.6	3.2	10.4	15.9	12.1	11.1	11.2	4.9
2010	949	5	28	80	302	304	141	69	20	4.3	0.9	2.7	9.9	13.7	11.7	10.2	7.0	4.4
2009	931	1	17	78	281	305	138	93	18	4.3	0.6	2.6	9.3	14.5	11.8	13.9	6.6	4.5
2008	850	3	13	82	289	242	136	59	26	4.0	0.4	2.7	9.7	12.1	12.0	8.9	9.9	4.2
2007	906	6	16	83	300	267	136	68	30	4.3	0.5	2.7	10.3	13.9	12.4	10.4	11.8	4.6
2006	858	7	14	107	270	238	122	76	24	4.1	0.5	3.5	9.5	13.1	11.4	11.7	9.7	4.5
2005	893	2	20	99	295	229	129	89	30	4.3	0.7	3.3	10.7	13.3	12.3	13.8	12.5	4.9
2004	890	7	9	120	295	229	132	69	29	4.4	0.3	3.9	11.0	14.0	12.9	10.9	12.5	5.0
2003	929	4	19	150	284	212	169	70	21	4.6	0.7	4.9	10.9	13.7	16.7	11.2	9.1	5.3
2002	989	5	26	142	331	217	140	101	27	5.0	0.9	4.6	13.2	14.8	14.0	16.4	11.8	5.8
2001	962	9	21	161	312	189	148	99	23	4.9	0.7	5.2	12.9	13.5	15.0	16.4	10.0	5.8
2000	1,034	7	31	172	308	224	179	86	27	5.4	1.1	5.6	13.4	16.5	18.4	14.5	11.6	6.4

Table 2. Age-specific number of deaths, age-specific death rates, and age-adjusted death rates¹ from all liver cirrhosis by race, Hispanic origin, and sex, United States, 2000–2023. (Continued)

Race, Hispanic origin, ² sex, and year	Number of deaths, by age group									Deaths per 100,000 population, by age group								Age-adjusted deaths per 100,000 population
	All ³	0–24	25–34	35–44	45–54	55–64	65–74	75–84	85+	All	25–34	35–44	45–54	55–64	65–74	75–84	85+	
Black, Hispanic, ⁵ female																		
2023 ⁴	34	—	4	7	7	3	7	4	2	2.0	1.6	2.9	3.7	2.2	8.5	10.8	15.4	2.7
2022 ⁴	30	—	3	6	7	6	6	1	1	1.8	1.2	2.5	3.8	4.5	7.7	2.9	8.2	2.3
2021 ⁴	25	—	4	7	5	4	1	4	—	1.5	1.6	3.0	2.8	3.1	1.4	12.3	—	2.0
2020 ⁴	29	—	—	6	5	7	4	4	3	1.8	—	2.6	2.9	5.6	5.8	13.1	26.4	2.7
2020.....	34	—	—	6	7	7	5	5	4	1.9	—	2.4	3.8	5.2	6.6	14.6	29.8	2.9
2019.....	17	—	1	—	4	4	4	3	1	1.0	0.4	—	2.2	3.1	5.7	9.3	7.9	1.5
2018.....	12	—	—	—	3	4	3	1	1	0.7	—	—	1.7	3.3	4.5	3.2	8.4	1.1
2017.....	15	—	1	—	5	3	2	2	2	0.9	0.4	—	3.0	2.6	3.2	7.0	17.8	1.5
2016.....	15	—	1	1	4	4	3	1	1	0.9	0.4	0.5	2.5	3.6	5.1	3.7	9.5	1.4
2015.....	11	—	—	—	4	5	2	—	—	0.7	—	—	2.5	4.8	3.7	—	—	1.0
2014.....	15	—	1	2	5	3	2	1	1	1.0	0.4	1.0	3.3	3.1	4.0	4.1	10.8	1.5
2013.....	8	—	—	1	1	3	3	—	—	0.5	—	0.5	0.7	3.2	6.4	—	—	0.9
2012.....	7	—	1	2	—	2	1	1	—	0.5	0.4	1.1	—	2.3	2.3	4.5	—	0.8
2011.....	5	—	—	—	3	1	1	—	—	0.4	—	—	2.2	1.2	2.4	—	—	0.6
2010.....	8	—	—	—	2	2	3	1	—	0.6	—	—	1.5	2.6	7.8	5.0	—	1.2
2009.....	11	—	—	—	1	3	—	7	—	0.9	—	—	0.8	4.2	—	37.1	—	2.1
2008.....	12	1	—	2	6	1	2	—	—	1.0	—	1.2	5.1	1.5	5.8	—	—	1.5
2007.....	9	—	2	—	2	1	3	1	—	0.8	1.0	—	1.8	1.6	9.3	5.9	—	1.4
2006.....	5	—	—	1	—	1	1	2	—	0.5	—	0.7	—	1.8	3.3	12.5	—	1.0
2005.....	11	—	—	2	4	2	—	2	1	1.1	—	1.4	4.1	3.8	—	13.1	20.2	2.0
2004.....	5	—	—	1	1	1	1	—	1	0.5	—	0.7	1.1	2.1	3.6	—	22.0	1.0
2003.....	6	—	—	—	1	2	1	2	—	0.7	—	—	1.2	4.5	3.8	14.7	—	1.5
2002.....	9	—	1	2	3	1	1	1	—	1.0	0.6	1.6	3.8	2.4	4.0	7.9	—	1.7
2001.....	6	—	—	1	3	—	1	1	—	0.7	—	0.9	4.0	—	4.3	8.4	—	1.3
2000.....	8	—	—	—	1	5	1	1	—	1.0	—	—	1.5	14.1	4.5	9.0	—	2.1
Black, non-Hispanic, female																		
2023 ⁴	1,645	4	70	220	298	443	415	147	48	7.5	2.1	7.4	11.2	16.5	20.3	15.5	14.1	6.7
2022 ⁴	1,657	2	58	221	313	517	347	149	50	7.6	1.8	7.5	11.7	19.2	17.5	16.6	15.0	6.9
2021 ⁴	1,889	3	68	253	416	587	392	115	55	8.7	2.1	8.7	15.5	21.6	20.4	13.6	16.7	7.9
2020 ⁴	1,667	5	48	175	351	571	355	110	52	7.7	1.5	6.1	13.0	21.0	19.3	13.3	15.8	6.9
2020.....	1,683	6	50	179	354	576	356	110	52	7.4	1.4	6.1	12.9	20.9	18.9	12.5	14.1	6.8
2019.....	1,393	4	40	125	280	482	295	124	43	6.2	1.2	4.3	10.1	17.6	16.4	14.6	11.9	5.7
2018.....	1,277	2	33	126	290	431	270	86	39	5.7	1.0	4.4	10.3	16.0	15.7	10.5	11.1	5.3
2017.....	1,283	2	32	111	286	468	240	108	36	5.8	1.0	3.9	10.1	17.6	14.6	13.7	10.6	5.4
2016.....	1,202	5	30	109	266	453	208	90	41	5.5	0.9	3.9	9.3	17.4	13.3	11.8	12.3	5.2

Table 2. Age-specific number of deaths, age-specific death rates, and age-adjusted death rates¹ from all liver cirrhosis by race, Hispanic origin, and sex, United States, 2000–2023. (Continued)

Race, Hispanic origin, ² sex, and year	Number of deaths, by age group									Deaths per 100,000 population, by age group								Age-adjusted deaths per 100,000 population
	All ³	0–24	25–34	35–44	45–54	55–64	65–74	75–84	85+	All	25–34	35–44	45–54	55–64	65–74	75–84	85+	
2015	1,286	2	35	113	332	439	221	105	39	5.9	1.1	4.0	11.6	17.2	14.9	14.2	12.0	5.7
2014	1,177	2	30	97	291	453	183	92	29	5.5	1.0	3.5	10.1	18.3	13.0	12.8	9.2	5.2
2013	1,125	1	21	105	299	395	163	112	29	5.3	0.7	3.8	10.3	16.4	12.2	15.9	9.5	5.2
2012	995	3	25	80	284	327	158	84	34	4.7	0.9	2.9	9.7	14.0	12.5	12.2	11.5	4.7
2011	1,059	5	20	92	315	369	148	77	33	5.1	0.7	3.3	10.7	16.4	12.4	11.4	11.5	5.0
2010	935	5	28	80	298	298	138	68	20	4.5	1.0	2.9	10.2	13.9	11.9	10.3	7.2	4.6
2009	913	1	17	77	278	301	137	84	18	4.5	0.6	2.7	9.6	14.8	12.1	12.9	6.7	4.6
2008	834	2	13	80	281	240	134	58	26	4.1	0.5	2.8	9.9	12.4	12.2	9.0	10.1	4.3
2007	893	5	14	83	298	265	132	66	30	4.5	0.5	2.9	10.7	14.3	12.4	10.4	12.0	4.7
2006	853	7	14	106	270	237	121	74	24	4.3	0.5	3.7	9.9	13.4	11.6	11.7	10.0	4.6
2005	880	2	20	97	291	225	129	87	29	4.5	0.7	3.3	10.9	13.4	12.7	13.9	12.3	4.9
2004	881	7	9	118	292	228	131	68	28	4.6	0.3	4.0	11.3	14.4	13.1	11.0	12.3	5.1
2003	921	4	19	150	282	210	168	67	21	4.8	0.7	5.1	11.2	14.0	17.0	10.9	9.3	5.4
2002	976	5	25	140	327	215	139	99	26	5.2	0.9	4.7	13.5	15.1	14.3	16.4	11.5	5.9
2001	943	9	20	159	305	188	145	94	23	5.0	0.7	5.4	13.0	13.8	15.1	15.9	10.1	5.8
2000	1,023	7	31	172	306	219	177	84	27	5.5	1.1	5.8	13.7	16.5	18.6	14.5	11.7	6.5

— No deaths in this table cell.

¹ Rates per 100,000 population computed by the direct standardization method, using year 2000 total population of the United States as the standard age distribution.

² Excludes deaths for which Hispanic origin was unknown.

³ Includes deaths for which age of decedent was unknown; age-specific numbers of deaths may not sum to total.

⁴ Single-race population.

⁵ Rates are not reliable due to the small number of cirrhosis deaths among Hispanic Blacks.

Table 3. Age-specific number of deaths, age-specific death rates, and age-adjusted death rates¹ from liver cirrhosis with and without mention of alcohol by sex, United States, 2000–2023.

Liver cirrhosis subcategory, sex, and year	Number of deaths, by age group									Deaths per 100,000 population, by age group								Age-adjusted deaths per 100,000 population
	All ²	0–24	25–34	35–44	45–54	55–64	65–74	75–84	85+	All	25–34	35–44	45–54	55–64	65–74	75–84	85+	
Alcohol-related cirrhosis																		
Both sexes																		
2023	28,632	39	1,354	3,880	6,209	9,187	5,979	1,743	241	8.5	3.0	8.7	15.3	21.9	17.2	9.5	3.9	7.4
2022	30,910	46	1,508	4,335	6,688	10,362	6,017	1,683	270	9.3	3.3	9.9	16.5	24.5	17.7	9.7	4.5	8.1
2021	33,098	46	1,536	4,600	7,636	11,348	6,140	1,541	250	10.0	3.4	10.6	18.8	26.5	18.3	9.5	4.1	8.7
2020	29,505	29	1,375	3,904	6,786	10,198	5,524	1,472	216	8.9	3.0	9.1	16.5	23.7	17.0	9.3	3.6	7.8
2019	24,110	25	938	2,653	5,661	8,805	4,536	1,266	222	7.3	2.0	6.4	13.9	20.8	14.4	7.9	3.4	6.4
2018	23,172	21	832	2,404	5,617	8,526	4,382	1,182	207	7.1	1.8	5.8	13.5	20.2	14.4	7.7	3.2	6.1
2017	22,246	14	753	2,266	5,786	8,126	3,976	1,097	227	6.8	1.7	5.6	13.7	19.4	13.4	7.5	3.5	6.0
2016	21,815	28	767	2,213	5,832	7,961	3,738	1,065	209	6.8	1.7	5.5	13.7	19.2	13.1	7.5	3.3	5.9
2015	21,028	19	681	2,147	5,997	7,574	3,413	1,012	183	6.6	1.5	5.3	13.9	18.6	12.4	7.3	2.9	5.8
2014	19,388	23	589	1,899	5,645	7,116	3,070	876	168	6.1	1.4	4.7	13.0	17.8	11.6	6.4	2.7	5.4
2013	18,146	22	546	1,807	5,646	6,458	2,659	846	162	5.7	1.3	4.5	12.9	16.4	10.6	6.3	2.7	5.1
2012	17,419	20	456	1,752	5,712	6,025	2,481	835	137	5.5	1.1	4.3	12.9	15.6	10.3	6.3	2.3	5.0
2011	16,749	19	389	1,786	5,624	5,792	2,220	791	127	5.4	0.9	4.4	12.6	15.2	9.9	6.0	2.2	4.8
2010	15,990	24	378	1,769	5,465	5,257	2,209	762	125	5.2	0.9	4.3	12.1	14.3	10.1	5.8	2.3	4.7
2009	15,183	13	332	1,809	5,283	4,869	2,027	719	128	4.9	0.8	4.4	11.8	13.8	9.5	5.5	2.4	4.5
2008	14,864	18	318	1,827	5,180	4,576	2,060	759	126	4.9	0.8	4.3	11.7	13.4	10.0	5.8	2.4	4.5
2007	14,406	17	293	1,834	5,126	4,309	1,959	747	118	4.8	0.7	4.3	11.7	13.0	9.9	5.7	2.3	4.5
2006	13,050	14	245	1,732	4,562	3,823	1,783	773	117	4.4	0.6	4.0	10.5	12.0	9.3	5.9	2.4	4.1
2005	12,928	7	217	1,806	4,490	3,721	1,844	747	94	4.4	0.6	4.2	10.6	12.1	9.8	5.7	2.0	4.2
2004	12,548	11	228	1,871	4,392	3,393	1,841	709	102	4.3	0.6	4.3	10.6	11.6	9.9	5.5	2.2	4.1
2003	12,360	6	243	1,971	4,288	3,247	1,788	729	86	4.3	0.6	4.5	10.5	11.6	9.7	5.7	1.9	4.2
2002	12,121	9	242	1,971	4,137	3,083	1,849	730	98	4.2	0.6	4.4	10.3	11.5	10.1	5.7	2.2	4.2
2001	12,207	8	264	2,145	4,203	2,913	1,848	717	104	4.3	0.7	4.8	10.7	11.6	10.1	5.7	2.4	4.3
2000	12,109	8	279	2,226	3,888	2,969	1,891	751	95	4.3	0.7	4.9	10.2	12.2	10.3	6.0	2.2	4.3
Male																		
2023	19,443	17	795	2,447	4,113	6,320	4,328	1,253	170	11.7	3.4	10.9	20.4	30.8	26.5	15.4	7.4	10.2
2022	21,059	31	986	2,808	4,391	7,065	4,334	1,248	195	12.8	4.3	12.7	21.7	34.1	27.1	16.2	8.8	11.2
2021	22,598	28	946	2,973	5,121	7,763	4,426	1,147	193	13.7	4.1	13.6	25.2	37.1	27.9	16.0	8.8	12.1
2020	20,123	18	876	2,461	4,417	7,090	4,029	1,078	153	12.3	3.8	11.4	21.5	33.6	26.2	15.4	7.0	10.7
2019	16,650	17	576	1,682	3,735	6,173	3,330	963	171	10.3	2.5	8.1	18.5	30.1	22.7	13.8	7.2	9.0
2018	16,099	18	499	1,508	3,713	6,029	3,267	912	152	10.0	2.2	7.3	18.1	29.6	23.0	13.6	6.5	8.7

Table 3. Age-specific number of deaths, age-specific death rates, and age-adjusted death rates¹ from liver cirrhosis with and without mention of alcohol by sex, United States, 2000–2023. (Continued)

Liver cirrhosis subcategory, sex, and year	Number of deaths, by age group									Deaths per 100,000 population, by age group								Age-adjusted deaths per 100,000 population
	All ²	0–24	25–34	35–44	45–54	55–64	65–74	75–84	85+	All	25–34	35–44	45–54	55–64	65–74	75–84	85+	
2017	15,470	11	460	1,435	3,811	5,750	3,002	841	159	9.7	2.0	7.1	18.3	28.5	21.7	13.2	7.0	8.5
2016	15,150	16	469	1,375	3,816	5,705	2,791	819	157	9.5	2.1	6.8	18.1	28.6	20.9	13.3	7.0	8.4
2015	14,715	13	431	1,369	3,954	5,446	2,607	765	128	9.3	1.9	6.8	18.6	27.7	20.3	12.7	5.9	8.3
2014	13,666	15	346	1,196	3,796	5,174	2,363	656	118	8.7	1.6	5.9	17.8	26.8	19.2	11.1	5.6	7.8
2013	12,991	14	339	1,199	3,822	4,842	2,014	653	108	8.4	1.6	6.0	17.7	25.6	17.1	11.3	5.3	7.5
2012	12,422	16	292	1,155	3,884	4,513	1,842	625	94	8.0	1.4	5.7	17.8	24.3	16.4	11.1	4.8	7.3
2011	11,847	14	232	1,155	3,757	4,294	1,713	587	94	7.7	1.1	5.7	17.1	23.4	16.4	10.5	5.0	7.1
2010	11,441	12	235	1,170	3,724	3,964	1,677	566	92	7.5	1.1	5.7	16.8	22.3	16.5	10.3	5.1	6.9
2009	10,881	12	224	1,209	3,640	3,650	1,543	506	95	7.2	1.1	5.9	16.5	21.4	15.7	9.3	5.5	6.7
2008	10,817	8	212	1,207	3,693	3,499	1,560	555	83	7.2	1.1	5.7	16.9	21.2	16.4	10.2	5.0	6.8
2007	10,549	8	201	1,220	3,680	3,294	1,505	554	84	7.1	1.0	5.7	17.0	20.6	16.5	10.3	5.3	6.8
2006	9,443	6	175	1,122	3,295	2,870	1,357	538	79	6.4	0.9	5.2	15.5	18.6	15.3	10.0	5.2	6.2
2005	9,425	6	147	1,189	3,274	2,850	1,352	537	68	6.5	0.7	5.5	15.7	19.3	15.6	10.1	4.7	6.3
2004	9,155	8	167	1,267	3,176	2,549	1,392	527	69	6.4	0.8	5.8	15.5	18.1	16.3	10.0	5.0	6.3
2003	9,104	3	182	1,317	3,228	2,459	1,343	518	52	6.4	0.9	6.0	16.1	18.2	15.9	10.0	3.9	6.4
2002	8,814	7	162	1,305	3,074	2,337	1,367	495	65	6.2	0.8	5.9	15.7	18.2	16.3	9.7	5.0	6.4
2001	8,932	5	179	1,446	3,099	2,242	1,379	505	72	6.4	0.9	6.5	16.0	18.6	16.5	10.1	5.7	6.6
2000	8,985	5	202	1,533	2,968	2,216	1,433	561	65	6.5	1.0	6.8	15.9	18.9	17.2	11.4	5.3	6.8
Female																		
2023	9,189	22	559	1,433	2,096	2,867	1,651	490	71	5.4	2.5	6.5	10.3	13.4	9.0	4.8	1.8	4.8
2022	9,851	15	522	1,527	2,297	3,297	1,683	435	75	5.9	2.3	7.0	11.3	15.3	9.4	4.5	1.9	5.2
2021	10,500	18	590	1,627	2,515	3,585	1,714	394	57	6.3	2.6	7.5	12.3	16.4	9.6	4.4	1.5	5.5
2020	9,382	11	499	1,443	2,369	3,108	1,495	394	63	5.6	2.2	6.8	11.5	14.1	8.7	4.5	1.6	5.0
2019	7,460	8	362	971	1,926	2,632	1,206	303	51	4.5	1.6	4.7	9.3	12.0	7.2	3.4	1.2	3.9
2018	7,073	3	333	896	1,904	2,497	1,115	270	55	4.3	1.5	4.3	9.0	11.4	6.9	3.1	1.3	3.7
2017	6,776	3	293	831	1,975	2,376	974	256	68	4.1	1.3	4.1	9.2	11.0	6.2	3.1	1.6	3.6
2016	6,665	12	298	838	2,016	2,256	947	246	52	4.1	1.3	4.1	9.3	10.5	6.2	3.1	1.3	3.6
2015	6,313	6	250	778	2,043	2,128	806	247	55	3.9	1.1	3.8	9.4	10.1	5.5	3.1	1.3	3.5
2014	5,722	8	243	703	1,849	1,942	707	220	50	3.5	1.1	3.5	8.4	9.4	5.0	2.8	1.2	3.2
2013	5,155	8	207	608	1,824	1,616	645	193	54	3.2	1.0	3.0	8.2	7.9	4.8	2.5	1.4	2.9
2012	4,997	4	164	597	1,828	1,512	639	210	43	3.1	0.8	2.9	8.1	7.6	5.0	2.8	1.1	2.8
2011	4,902	5	157	631	1,867	1,498	507	204	33	3.1	0.8	3.1	8.2	7.6	4.2	2.7	0.9	2.8
2010	4,549	12	143	599	1,741	1,293	532	196	33	2.9	0.7	2.9	7.6	6.8	4.6	2.6	0.9	2.6
2009	4,302	1	108	600	1,643	1,219	484	213	33	2.8	0.5	2.9	7.2	6.7	4.3	2.8	0.9	2.5

Table 3. Age-specific number of deaths, age-specific death rates, and age-adjusted death rates¹ from liver cirrhosis with and without mention of alcohol by sex, United States, 2000–2023. (Continued)

Liver cirrhosis subcategory, sex, and year	Number of deaths, by age group									Deaths per 100,000 population, by age group								Age-adjusted deaths per 100,000 population
	All ²	0–24	25–34	35–44	45–54	55–64	65–74	75–84	85+	All	25–34	35–44	45–54	55–64	65–74	75–84	85+	
2008	4,047	10	106	620	1,487	1,077	500	204	43	2.6	0.5	2.9	6.6	6.1	4.5	2.7	1.2	2.4
2007	3,857	9	92	614	1,446	1,015	454	193	34	2.5	0.5	2.9	6.5	5.9	4.3	2.5	1.0	2.3
2006	3,607	8	70	610	1,267	953	426	235	38	2.4	0.4	2.8	5.8	5.8	4.1	3.0	1.1	2.2
2005	3,503	1	70	617	1,216	871	492	210	26	2.3	0.4	2.8	5.6	5.5	4.8	2.7	0.8	2.2
2004	3,393	3	61	604	1,216	844	449	182	33	2.3	0.3	2.7	5.7	5.6	4.4	2.4	1.0	2.2
2003	3,256	3	61	654	1,060	788	445	211	34	2.2	0.3	2.9	5.1	5.4	4.4	2.7	1.1	2.1
2002	3,307	2	80	666	1,063	746	482	235	33	2.3	0.4	3.0	5.2	5.4	4.8	3.1	1.1	2.2
2001	3,275	3	85	699	1,104	671	469	212	32	2.3	0.4	3.1	5.5	5.1	4.7	2.8	1.0	2.2
2000	3,124	3	77	693	920	753	458	190	30	2.2	0.4	3.1	4.8	5.9	4.5	2.5	1.0	2.1
Other specified cirrhosis																		
Both sexes																		
2023	5,206	18	63	127	349	908	1,826	1,538	377	1.6	0.1	0.3	0.9	2.2	5.3	8.4	6.1	1.2
2022	5,094	21	54	139	343	944	1,774	1,477	342	1.5	0.1	0.3	0.8	2.2	5.2	8.5	5.6	1.2
2021	4,963	20	62	160	358	893	1,814	1,330	326	1.5	0.1	0.4	0.9	2.1	5.4	8.2	5.4	1.2
2020	4,468	18	58	125	337	881	1,613	1,119	317	1.3	0.1	0.3	0.8	2.0	5.0	7.1	5.2	1.1
2019	4,043	16	48	112	301	780	1,484	1,039	263	1.2	0.1	0.3	0.7	1.8	4.7	6.5	4.0	1.0
2018	3,647	12	45	99	318	755	1,255	917	246	1.1	0.1	0.2	0.8	1.8	4.1	6.0	3.8	0.9
2017	3,339	15	47	86	288	697	1,208	764	234	1.0	0.1	0.2	0.7	1.7	4.1	5.2	3.6	0.8
2016	3,064	14	52	100	259	698	1,093	678	170	0.9	0.1	0.2	0.6	1.7	3.8	4.8	2.7	0.8
2015	2,736	12	46	105	270	654	921	553	175	0.9	0.1	0.3	0.6	1.6	3.4	4.0	2.8	0.7
2014	2,334	16	38	82	253	552	784	482	127	0.7	0.1	0.2	0.6	1.4	3.0	3.5	2.1	0.6
2013	2,057	20	43	102	226	476	636	415	139	0.7	0.1	0.3	0.5	1.2	2.5	3.1	2.3	0.6
2012	1,890	15	29	82	226	452	570	403	113	0.6	0.1	0.2	0.5	1.2	2.4	3.0	1.9	0.5
2011	1,806	20	33	106	231	473	492	352	99	0.6	0.1	0.3	0.5	1.2	2.2	2.7	1.7	0.5
2010	1,645	16	36	88	230	410	443	338	84	0.5	0.1	0.2	0.5	1.1	2.0	2.6	1.5	0.5
2009	1,553	13	35	91	209	392	401	313	99	0.5	0.1	0.2	0.5	1.1	1.9	2.4	1.8	0.5
2008	1,550	20	36	120	238	327	402	305	102	0.5	0.1	0.3	0.5	1.0	2.0	2.3	2.0	0.5
2007	1,344	23	34	96	204	337	302	265	83	0.4	0.1	0.2	0.5	1.0	1.5	2.0	1.6	0.4
2006	1,254	21	35	112	233	256	286	248	63	0.4	0.1	0.3	0.5	0.8	1.5	1.9	1.3	0.4
2005	1,231	18	36	111	188	250	277	265	85	0.4	0.1	0.3	0.4	0.8	1.5	2.0	1.8	0.4
2004	1,134	37	34	122	220	208	230	231	52	0.4	0.1	0.3	0.5	0.7	1.2	1.8	1.1	0.4
2003	1,230	14	39	143	228	231	273	230	71	0.4	0.1	0.3	0.6	0.8	1.5	1.8	1.6	0.4
2002	1,596	41	64	173	259	245	347	362	105	0.6	0.2	0.4	0.6	0.9	1.9	2.8	2.4	0.6

Table 3. Age-specific number of deaths, age-specific death rates, and age-adjusted death rates¹ from liver cirrhosis with and without mention of alcohol by sex, United States, 2000–2023. (Continued)

Liver cirrhosis subcategory, sex, and year	Number of deaths, by age group									Deaths per 100,000 population, by age group								Age-adjusted deaths per 100,000 population
	All ²	0–24	25–34	35–44	45–54	55–64	65–74	75–84	85+	All	25–34	35–44	45–54	55–64	65–74	75–84	85+	
2001	1,414	31	46	139	235	247	326	295	94	0.5	0.1	0.3	0.6	1.0	1.8	2.3	2.2	0.5
2000	1,407	20	44	160	228	192	345	332	86	0.5	0.1	0.4	0.6	0.8	1.9	2.7	2.0	0.5
Male																		
2023	1,916	10	30	58	132	357	633	576	120	1.2	0.1	0.3	0.7	1.7	3.9	7.1	5.3	1.0
2022	1,800	15	30	63	125	337	601	516	113	1.1	0.1	0.3	0.6	1.6	3.8	6.7	5.1	0.9
2021	1,827	16	34	71	158	322	630	486	110	1.1	0.1	0.3	0.8	1.5	4.0	6.8	5.0	1.0
2020	1,591	7	29	58	139	329	558	370	101	1.0	0.1	0.3	0.7	1.6	3.6	5.3	4.6	0.8
2019	1,463	6	29	51	128	271	521	368	89	0.9	0.1	0.2	0.6	1.3	3.5	5.3	3.7	0.8
2018	1,322	7	21	41	137	273	408	360	75	0.8	0.1	0.2	0.7	1.3	2.9	5.4	3.2	0.7
2017	1,167	10	23	34	125	257	408	252	58	0.7	0.1	0.2	0.6	1.3	2.9	3.9	2.5	0.7
2016	1,086	5	27	45	110	269	346	231	53	0.7	0.1	0.2	0.5	1.3	2.6	3.7	2.4	0.6
2015	929	7	18	42	124	248	276	163	51	0.6	0.1	0.2	0.6	1.3	2.1	2.7	2.4	0.5
2014	786	9	14	32	102	206	245	149	29	0.5	0.1	0.2	0.5	1.1	2.0	2.5	1.4	0.5
2013	667	8	22	43	85	159	196	116	38	0.4	0.1	0.2	0.4	0.8	1.7	2.0	1.9	0.4
2012	649	9	15	39	99	168	189	102	28	0.4	0.1	0.2	0.5	0.9	1.7	1.8	1.4	0.4
2011	622	10	16	53	106	174	139	89	35	0.4	0.1	0.3	0.5	0.9	1.3	1.6	1.9	0.4
2010	540	8	14	50	101	146	112	86	23	0.4	0.1	0.2	0.5	0.8	1.1	1.6	1.3	0.4
2009	513	5	21	40	93	160	98	76	20	0.3	0.1	0.2	0.4	0.9	1.0	1.4	1.2	0.3
2008	542	14	25	70	111	122	99	81	20	0.4	0.1	0.3	0.5	0.7	1.0	1.5	1.2	0.4
2007	443	13	19	55	88	119	81	58	10	0.3	0.1	0.3	0.4	0.7	0.9	1.1	0.6	0.3
2006	429	12	17	53	129	95	55	53	15	0.3	0.1	0.2	0.6	0.6	0.6	1.0	1.0	0.3
2005	412	9	18	48	99	91	64	64	18	0.3	0.1	0.2	0.5	0.6	0.7	1.2	1.2	0.3
2004	415	19	25	69	116	63	64	47	12	0.3	0.1	0.3	0.6	0.4	0.7	0.9	0.9	0.3
2003	430	9	21	74	118	76	71	41	19	0.3	0.1	0.3	0.6	0.6	0.8	0.8	1.4	0.3
2002	530	22	34	79	129	72	92	80	22	0.4	0.2	0.4	0.7	0.6	1.1	1.6	1.7	0.4
2001	432	18	24	68	96	75	75	60	15	0.3	0.1	0.3	0.5	0.6	0.9	1.2	1.2	0.3
2000	410	12	19	95	97	50	66	56	15	0.3	0.1	0.4	0.5	0.4	0.8	1.1	1.2	0.3
Female																		
2023	3,290	8	33	69	217	551	1,193	962	257	1.9	0.1	0.3	1.1	2.6	6.5	9.4	6.6	1.4
2022	3,294	6	24	76	218	607	1,173	961	229	2.0	0.1	0.3	1.1	2.8	6.5	9.9	5.9	1.4
2021	3,136	4	28	89	200	571	1,184	844	216	1.9	0.1	0.4	1.0	2.6	6.7	9.3	5.6	1.4
2020	2,877	11	29	67	198	552	1,055	749	216	1.7	0.1	0.3	1.0	2.5	6.1	8.5	5.6	1.3
2019	2,580	10	19	61	173	509	963	671	174	1.5	0.1	0.3	0.8	2.3	5.7	7.5	4.1	1.2
2018	2,325	5	24	58	181	482	847	557	171	1.4	0.1	0.3	0.9	2.2	5.2	6.4	4.1	1.1

Table 3. Age-specific number of deaths, age-specific death rates, and age-adjusted death rates¹ from liver cirrhosis with and without mention of alcohol by sex, United States, 2000–2023. (Continued)

Liver cirrhosis subcategory, sex, and year	Number of deaths, by age group									Deaths per 100,000 population, by age group								Age-adjusted deaths per 100,000 population
	All ²	0–24	25–34	35–44	45–54	55–64	65–74	75–84	85+	All	25–34	35–44	45–54	55–64	65–74	75–84	85+	
2017	2,172	5	24	52	163	440	800	512	176	1.3	0.1	0.3	0.8	2.0	5.1	6.2	4.2	1.0
2016	1,978	9	25	55	149	429	747	447	117	1.2	0.1	0.3	0.7	2.0	4.9	5.5	2.8	0.9
2015	1,807	5	28	63	146	406	645	390	124	1.1	0.1	0.3	0.7	1.9	4.4	4.9	3.0	0.9
2014	1,548	7	24	50	151	346	539	333	98	1.0	0.1	0.2	0.7	1.7	3.8	4.3	2.4	0.8
2013	1,390	12	21	59	141	317	440	299	101	0.9	0.1	0.3	0.6	1.6	3.3	3.9	2.5	0.7
2012	1,241	6	14	43	127	284	381	301	85	0.8	0.1	0.2	0.6	1.4	3.0	3.9	2.2	0.7
2011	1,184	10	17	53	125	299	353	263	64	0.7	0.1	0.3	0.6	1.5	2.9	3.5	1.7	0.6
2010	1,105	8	22	38	129	264	331	252	61	0.7	0.1	0.2	0.6	1.4	2.8	3.3	1.6	0.6
2009	1,040	8	14	51	116	232	303	237	79	0.7	0.1	0.2	0.5	1.3	2.7	3.1	2.2	0.6
2008	1,008	6	11	50	127	205	303	224	82	0.7	0.1	0.2	0.6	1.2	2.8	2.9	2.3	0.6
2007	901	10	15	41	116	218	221	207	73	0.6	0.1	0.2	0.5	1.3	2.1	2.7	2.1	0.5
2006	825	9	18	59	104	161	231	195	48	0.5	0.1	0.3	0.5	1.0	2.2	2.5	1.4	0.5
2005	819	9	18	63	89	159	213	201	67	0.5	0.1	0.3	0.4	1.0	2.1	2.6	2.1	0.5
2004	719	18	9	53	104	145	166	184	40	0.5	0.0	0.2	0.5	1.0	1.6	2.4	1.3	0.4
2003	800	5	18	69	110	155	202	189	52	0.5	0.1	0.3	0.5	1.1	2.0	2.5	1.7	0.5
2002	1,066	19	30	94	130	173	255	282	83	0.7	0.2	0.4	0.6	1.2	2.5	3.7	2.7	0.7
2001	982	13	22	71	139	172	251	235	79	0.7	0.1	0.3	0.7	1.3	2.5	3.1	2.6	0.6
2000	997	8	25	65	131	142	279	276	71	0.7	0.1	0.3	0.7	1.1	2.8	3.7	2.3	0.6
Unspecified cirrhosis																		
Both sexes																		
2023	23,137	26	270	1,124	2,626	5,504	6,897	4,919	1,771	6.9	0.6	2.5	6.5	13.2	19.9	26.8	28.6	5.5
2022	23,380	17	277	1,152	2,675	6,038	6,999	4,586	1,634	7.0	0.6	2.6	6.6	14.3	20.6	26.3	27.0	5.6
2021	22,929	17	295	1,221	2,842	6,224	6,596	4,202	1,531	6.9	0.6	2.8	7.0	14.5	19.6	25.9	25.3	5.6
2020	21,619	21	253	1,020	2,682	5,853	6,227	4,057	1,506	6.5	0.6	2.4	6.5	13.6	19.1	25.6	24.8	5.3
2019	19,766	10	173	752	2,405	5,494	5,720	3,743	1,469	6.0	0.4	1.8	5.9	12.9	18.2	23.4	22.3	4.9
2018	19,153	19	172	690	2,497	5,319	5,378	3,677	1,401	5.9	0.4	1.7	6.0	12.6	17.7	23.9	21.4	4.8
2017	18,893	14	162	728	2,483	5,496	5,224	3,352	1,433	5.8	0.4	1.8	5.9	13.1	17.6	22.8	22.2	4.8
2016	18,139	21	157	624	2,489	5,378	4,865	3,309	1,294	5.6	0.4	1.5	5.8	13.0	17.0	23.2	20.3	4.7
2015	18,679	15	160	703	2,818	5,590	4,797	3,275	1,320	5.8	0.4	1.7	6.6	13.7	17.5	23.6	21.1	5.0
2014	18,227	8	130	670	2,934	5,562	4,563	3,137	1,223	5.7	0.3	1.7	6.8	13.9	17.3	22.9	19.9	4.9
2013	17,687	13	125	673	3,085	5,357	4,259	3,014	1,161	5.6	0.3	1.7	7.1	13.6	16.9	22.4	19.4	4.9
2012	16,996	12	140	700	3,123	5,096	3,975	2,882	1,067	5.4	0.3	1.7	7.1	13.2	16.6	21.7	18.2	4.8
2011	16,314	23	113	647	3,194	4,825	3,513	2,911	1,087	5.2	0.3	1.6	7.1	12.7	15.6	22.1	19.1	4.7

Table 3. Age-specific number of deaths, age-specific death rates, and age-adjusted death rates¹ from liver cirrhosis with and without mention of alcohol by sex, United States, 2000–2023. (Continued)

Liver cirrhosis subcategory, sex, and year	Number of deaths, by age group									Deaths per 100,000 population, by age group								Age-adjusted deaths per 100,000 population
	All ²	0–24	25–34	35–44	45–54	55–64	65–74	75–84	85+	All	25–34	35–44	45–54	55–64	65–74	75–84	85+	
2010	15,347	16	108	649	3,130	4,385	3,349	2,687	1,023	5.0	0.3	1.6	7.0	11.9	15.3	20.5	18.5	4.5
2009	14,786	16	122	663	3,043	4,153	3,192	2,654	943	4.8	0.3	1.6	6.8	11.7	15.0	20.4	17.6	4.4
2008	14,444	16	102	712	2,988	3,824	3,146	2,710	945	4.7	0.3	1.7	6.7	11.2	15.3	20.7	18.2	4.4
2007	14,175	20	88	719	3,029	3,572	3,058	2,777	912	4.7	0.2	1.7	6.9	10.8	15.5	21.2	18.1	4.4
2006	13,889	17	68	803	3,088	3,283	2,948	2,815	864	4.7	0.2	1.9	7.1	10.3	15.4	21.5	17.8	4.4
2005	14,016	28	90	862	2,980	3,299	3,056	2,862	838	4.7	0.2	2.0	7.0	10.8	16.2	21.9	17.9	4.6
2004	13,872	17	78	913	3,018	3,067	3,121	2,843	815	4.7	0.2	2.1	7.2	10.5	16.7	21.9	17.9	4.6
2003	14,495	12	113	1,025	3,108	3,065	3,424	2,939	808	5.0	0.3	2.3	7.6	10.9	18.5	22.8	18.1	4.9
2002	14,077	15	111	1,128	2,965	2,849	3,257	2,951	799	4.9	0.3	2.5	7.4	10.7	17.7	23.1	18.3	4.9
2001	13,864	10	104	1,150	2,949	2,674	3,359	2,823	794	4.9	0.3	2.6	7.5	10.7	18.3	22.4	18.4	4.9
2000	13,489	28	119	1,099	2,664	2,675	3,308	2,783	812	4.8	0.3	2.4	7.0	11.0	18.0	22.4	19.0	4.8
Male																		
2023	12,899	17	167	677	1,601	3,371	3,778	2,455	833	7.8	0.7	3.0	7.9	16.4	23.1	30.1	36.5	6.5
2022	13,174	15	177	673	1,643	3,639	3,951	2,291	783	8.0	0.8	3.0	8.1	17.6	24.7	29.7	35.4	6.7
2021	12,961	9	181	726	1,732	3,787	3,733	2,099	693	7.9	0.8	3.3	8.5	18.1	23.6	29.3	31.7	6.7
2020	12,301	9	150	622	1,658	3,632	3,472	2,095	663	7.5	0.6	2.9	8.1	17.2	22.6	30.0	30.5	6.5
2019	11,353	3	118	473	1,474	3,419	3,284	1,899	683	7.0	0.5	2.3	7.3	16.7	22.4	27.1	28.8	6.0
2018	11,034	10	83	427	1,609	3,374	3,043	1,851	637	6.9	0.4	2.1	7.8	16.6	21.4	27.5	27.3	6.0
2017	10,872	7	89	416	1,569	3,450	3,020	1,677	644	6.8	0.4	2.0	7.5	17.1	21.8	26.2	28.2	5.9
2016	10,526	10	95	380	1,595	3,437	2,835	1,596	576	6.6	0.4	1.9	7.6	17.2	21.2	25.8	25.8	5.9
2015	10,816	8	88	436	1,793	3,603	2,705	1,580	602	6.8	0.4	2.2	8.5	18.3	21.0	26.3	27.7	6.1
2014	10,797	4	87	415	1,918	3,669	2,603	1,554	547	6.9	0.4	2.1	9.0	19.0	21.1	26.4	26.1	6.2
2013	10,583	9	94	418	2,023	3,603	2,486	1,449	501	6.8	0.4	2.1	9.4	19.0	21.1	25.2	24.7	6.2
2012	10,088	7	86	438	2,085	3,399	2,237	1,374	461	6.5	0.4	2.2	9.6	18.3	20.0	24.3	23.5	6.1
2011	9,667	13	72	412	2,097	3,268	1,932	1,428	444	6.3	0.3	2.0	9.5	17.8	18.4	25.6	23.6	6.0
2010	9,241	9	72	439	2,151	2,953	1,861	1,336	420	6.1	0.3	2.2	9.7	16.6	18.3	24.3	23.2	5.8
2009	8,804	11	80	437	2,102	2,787	1,763	1,264	360	5.8	0.4	2.1	9.5	16.3	17.9	23.3	20.7	5.7
2008	8,697	10	73	469	2,073	2,582	1,791	1,289	409	5.8	0.4	2.2	9.5	15.7	18.8	23.8	24.6	5.8
2007	8,477	11	59	494	2,087	2,406	1,684	1,367	369	5.7	0.3	2.3	9.7	15.1	18.5	25.3	23.2	5.8
2006	8,293	11	39	536	2,194	2,199	1,628	1,331	353	5.7	0.2	2.5	10.3	14.3	18.4	24.8	23.2	5.8
2005	8,400	15	48	592	2,126	2,225	1,673	1,358	362	5.8	0.2	2.7	10.2	15.1	19.3	25.5	25.1	6.0
2004	8,256	7	53	642	2,172	2,017	1,696	1,357	312	5.7	0.3	2.9	10.6	14.3	19.8	25.8	22.6	6.0
2003	8,664	7	69	702	2,259	2,053	1,884	1,354	335	6.1	0.3	3.2	11.3	15.2	22.3	26.1	25.0	6.5
2002	8,366	9	68	757	2,172	1,864	1,779	1,399	316	5.9	0.3	3.4	11.1	14.5	21.2	27.4	24.5	6.4

Table 3. Age-specific number of deaths, age-specific death rates, and age-adjusted death rates¹ from liver cirrhosis with and without mention of alcohol by sex, United States, 2000–2023. (Continued)

Liver cirrhosis subcategory, sex, and year	Number of deaths, by age group									Deaths per 100,000 population, by age group								Age-adjusted deaths per 100,000 population
	All ²	0–24	25–34	35–44	45–54	55–64	65–74	75–84	85+	All ²	25–34	35–44	45–54	55–64	65–74	75–84	85+	
2001	8,263	5	72	742	2,167	1,757	1,902	1,286	331	5.9	0.4	3.3	11.2	14.6	22.8	25.7	26.2	6.4
2000	8,056	15	74	766	1,979	1,771	1,840	1,268	342	5.8	0.4	3.4	10.6	15.1	22.1	25.8	27.7	6.4
Female																		
2023	10,238	9	103	447	1,025	2,133	3,119	2,464	938	6.1	0.5	2.0	5.0	10.0	17.0	24.1	24.0	4.5
2022	10,206	2	100	479	1,032	2,399	3,048	2,295	851	6.1	0.4	2.2	5.1	11.1	16.9	23.7	22.1	4.6
2021	9,968	8	114	495	1,110	2,437	2,863	2,103	838	5.9	0.5	2.3	5.4	11.2	16.1	23.2	21.7	4.6
2020	9,318	12	103	398	1,024	2,221	2,755	1,962	843	5.6	0.5	1.9	5.0	10.1	16.0	22.2	21.7	4.3
2019	8,413	7	55	279	931	2,075	2,436	1,844	786	5.0	0.2	1.3	4.5	9.5	14.5	20.6	18.6	3.9
2018	8,119	9	89	263	888	1,945	2,335	1,826	764	4.9	0.4	1.3	4.2	8.9	14.4	21.1	18.2	3.8
2017	8,021	7	73	312	914	2,046	2,204	1,675	789	4.9	0.3	1.5	4.3	9.4	14.0	20.2	18.9	3.8
2016	7,613	11	62	244	894	1,941	2,030	1,713	718	4.6	0.3	1.2	4.1	9.1	13.3	21.3	17.3	3.7
2015	7,863	7	72	267	1,025	1,987	2,092	1,695	718	4.8	0.3	1.3	4.7	9.4	14.3	21.5	17.5	3.9
2014	7,430	4	43	255	1,016	1,893	1,960	1,583	676	4.6	0.2	1.3	4.6	9.1	14.0	20.3	16.8	3.7
2013	7,104	4	31	255	1,062	1,754	1,773	1,565	660	4.4	0.1	1.3	4.8	8.6	13.2	20.4	16.6	3.7
2012	6,908	5	54	262	1,038	1,697	1,738	1,508	606	4.3	0.3	1.3	4.6	8.5	13.6	19.8	15.5	3.6
2011	6,647	10	41	235	1,097	1,557	1,581	1,483	643	4.2	0.2	1.2	4.8	7.9	13.2	19.5	16.9	3.6
2010	6,106	7	36	210	979	1,432	1,488	1,351	603	3.9	0.2	1.0	4.3	7.5	12.7	17.8	16.2	3.3
2009	5,982	5	42	226	941	1,366	1,429	1,390	583	3.8	0.2	1.1	4.1	7.5	12.6	18.3	16.1	3.3
2008	5,747	6	29	243	915	1,242	1,355	1,421	536	3.7	0.1	1.1	4.0	7.0	12.3	18.6	15.2	3.2
2007	5,698	9	29	225	942	1,166	1,374	1,410	543	3.7	0.1	1.0	4.2	6.8	13.0	18.3	15.8	3.3
2006	5,596	6	29	267	894	1,084	1,320	1,484	511	3.7	0.1	1.2	4.1	6.6	12.8	19.2	15.3	3.3
2005	5,616	13	42	270	854	1,074	1,383	1,504	476	3.7	0.2	1.2	4.0	6.8	13.6	19.4	14.6	3.4
2004	5,616	10	25	271	846	1,050	1,425	1,486	503	3.8	0.1	1.2	4.0	6.9	14.1	19.2	15.9	3.4
2003	5,831	5	44	323	849	1,012	1,540	1,585	473	3.9	0.2	1.5	4.1	7.0	15.3	20.5	15.1	3.6
2002	5,711	6	43	371	793	985	1,478	1,552	483	3.9	0.2	1.7	3.9	7.1	14.8	20.3	15.7	3.6
2001	5,601	5	32	408	782	917	1,457	1,537	463	3.9	0.2	1.8	3.9	7.0	14.5	20.3	15.2	3.6
2000	5,433	13	45	333	685	904	1,468	1,515	470	3.8	0.2	1.5	3.5	7.1	14.6	20.2	15.5	3.5

¹ Rates per 100,000 population computed by the direct standardization method, using year 2000 total population of the United States as the standard age distribution.

² Includes deaths in which age of decedent was unknown; age-specific numbers of deaths may not sum to total.

Table 4. Age-adjusted death rates¹ from liver cirrhosis with and without mention of alcohol by sex, race, and Hispanic origin,² United States, 2000–2023.

Liver cirrhosis subcategory and year	All races/origins			Male						Female					
				White			Black			White			Black		
	Both sexes	Male	Female	All ³	Hispanic	Non-Hispanic	All ³	Hispanic ⁴	Non-Hispanic	All ³	Hispanic	Non-Hispanic	All ³	Hispanic ⁴	Non-Hispanic
Alcohol-related cirrhosis															
2023 ⁵	7.4	10.2	4.8	11.4	14.2	10.7	5.7	2.6	5.9	5.2	4.0	5.6	3.0	0.7	3.2
2022 ⁵	8.1	11.2	5.2	12.3	15.8	11.6	6.6	2.6	6.7	5.6	4.1	6.0	3.2	1.1	3.4
2021 ⁵	8.7	12.1	5.5	13.1	16.9	12.4	7.4	2.5	7.7	5.9	4.0	6.3	4.0	0.9	4.1
2020 ⁵	7.8	10.7	5.0	11.7	15.3	11.1	6.4	2.6	6.6	5.4	4.0	5.7	3.2	1.0	3.3
2020.....	7.8	10.7	5.0	11.9	15.6	11.2	6.5	2.7	6.7	5.4	4.0	5.7	3.2	1.0	3.3
2019.....	6.4	9.0	3.9	9.8	14.0	9.1	5.5	1.6	5.6	4.2	3.0	4.5	2.6	0.5	2.7
2018.....	6.1	8.7	3.7	9.4	13.5	8.8	5.4	1.8	5.5	4.0	2.9	4.3	2.4	0.5	2.5
2017.....	6.0	8.5	3.6	9.2	13.5	8.5	5.2	1.0	5.4	3.9	3.0	4.1	2.3	0.5	2.4
2016.....	5.9	8.4	3.6	9.1	13.9	8.4	5.3	2.7	5.4	3.9	3.3	4.0	2.3	0.6	2.3
2015.....	5.8	8.3	3.5	9.0	13.8	8.3	5.0	2.0	5.1	3.7	3.2	3.8	2.5	0.5	2.5
2014.....	5.4	7.8	3.2	8.4	13.2	7.7	5.0	3.3	5.0	3.3	2.9	3.4	2.2	0.7	2.2
2013.....	5.1	7.5	2.9	8.1	12.5	7.5	4.7	1.3	4.8	3.0	2.6	3.1	1.9	0.3	2.0
2012.....	5.0	7.3	2.8	7.8	12.2	7.2	4.7	1.6	4.9	3.0	2.7	3.1	1.9	0.6	1.9
2011.....	4.8	7.1	2.8	7.5	12.7	6.9	4.7	1.4	4.8	2.9	2.6	3.0	2.1	0.6	2.2
2010.....	4.7	6.9	2.6	7.4	12.4	6.8	4.5	0.7	4.6	2.8	2.5	2.8	1.9	0.5	1.9
2009.....	4.5	6.7	2.5	7.2	12.3	6.5	4.5	1.3	4.6	2.6	2.5	2.7	1.8	0.2	1.8
2008.....	4.5	6.8	2.4	7.2	12.1	6.6	4.9	2.2	5.0	2.5	2.4	2.5	1.8	0.3	1.9
2007.....	4.5	6.8	2.3	7.1	13.1	6.5	5.3	0.7	5.4	2.4	2.3	2.5	1.7	0.2	1.8
2006.....	4.1	6.2	2.2	6.5	12.1	5.9	4.5	3.4	4.5	2.3	2.3	2.3	1.7	0.3	1.8
2005.....	4.2	6.3	2.2	6.6	12.3	6.0	5.3	2.1	5.3	2.2	2.1	2.3	1.9	0.6	2.0
2004.....	4.1	6.3	2.2	6.5	11.8	6.0	5.4	0.9	5.6	2.2	2.1	2.2	1.9	—	2.0
2003.....	4.2	6.4	2.1	6.6	12.4	6.0	6.0	1.4	6.1	2.1	2.3	2.1	2.0	—	2.0
2002.....	4.2	6.4	2.2	6.5	13.0	5.8	5.8	2.3	5.8	2.2	2.2	2.2	2.3	0.7	2.3
2001.....	4.3	6.6	2.2	6.6	14.4	5.9	6.9	0.6	7.0	2.2	2.4	2.2	2.4	0.3	2.4
2000.....	4.3	6.8	2.1	6.8	15.0	6.1	6.9	1.2	7.1	2.0	2.2	2.0	2.8	0.2	2.8
Other specified cirrhosis															
2023 ⁵	1.2	1.0	1.4	1.1	0.7	1.2	0.2	0.2	0.2	1.6	1.8	1.6	0.4	0.4	0.4
2022 ⁵	1.2	0.9	1.4	1.1	0.7	1.1	0.2	0.1	0.2	1.6	2.1	1.6	0.4	0.1	0.5
2021 ⁵	1.2	1.0	1.4	1.1	0.8	1.1	0.3	0.2	0.3	1.6	1.9	1.6	0.4	0.3	0.4
2020 ⁵	1.1	0.8	1.3	1.0	0.7	1.0	0.2	—	0.2	1.5	1.9	1.4	0.4	0.3	0.4
2020.....	1.1	0.8	1.3	0.9	0.7	1.0	0.2	0.1	0.2	1.4	1.8	1.4	0.4	0.4	0.4

Table 4. Age-adjusted death rates¹ from liver cirrhosis with and without mention of alcohol by sex, race, and Hispanic origin,²
United States, 2000–2023. (Continued)

Liver cirrhosis subcategory and year	All races/origins			Male						Female					
				White			Black			White			Black		
	Both sexes	Male	Female	All ³	Hispanic	Non-Hispanic	All ³	Hispanic ⁴	Non-Hispanic	All ³	Hispanic	Non-Hispanic	All ³	Hispanic ⁴	Non-Hispanic
2019.....	1.0	0.8	1.2	0.9	0.7	0.9	0.2	—	0.2	1.3	1.6	1.3	0.4	0.6	0.4
2018.....	0.9	0.7	1.1	0.8	0.6	0.8	0.2	0.1	0.2	1.2	1.7	1.1	0.3	0.1	0.3
2017.....	0.8	0.7	1.0	0.7	0.6	0.7	0.2	0.2	0.2	1.1	1.3	1.1	0.4	0.4	0.3
2016.....	0.8	0.6	0.9	0.7	0.5	0.7	0.2	—	0.2	1.1	1.3	1.0	0.3	0.2	0.3
2015.....	0.7	0.5	0.9	0.6	0.6	0.6	0.2	—	0.2	1.0	1.3	1.0	0.2	0.1	0.2
2014.....	0.6	0.5	0.8	0.5	0.4	0.5	0.1	0.1	0.1	0.9	1.1	0.8	0.3	0.1	0.3
2013.....	0.6	0.4	0.7	0.5	0.4	0.5	0.1	—	0.1	0.8	0.9	0.8	0.3	0.1	0.3
2012.....	0.5	0.4	0.7	0.4	0.3	0.4	0.2	—	0.3	0.7	0.9	0.7	0.2	—	0.2
2011.....	0.5	0.4	0.6	0.4	0.4	0.4	0.2	0.1	0.2	0.7	0.8	0.7	0.3	—	0.3
2010.....	0.5	0.4	0.6	0.4	0.3	0.4	0.2	—	0.2	0.7	0.8	0.7	0.2	0.2	0.2
2009.....	0.5	0.3	0.6	0.3	0.3	0.4	0.3	—	0.3	0.6	0.8	0.6	0.3	—	0.3
2008.....	0.5	0.4	0.6	0.4	0.4	0.4	0.2	0.1	0.2	0.6	0.9	0.6	0.2	0.2	0.2
2007.....	0.4	0.3	0.5	0.3	0.3	0.3	0.2	0.1	0.2	0.6	0.8	0.5	0.3	0.4	0.3
2006.....	0.4	0.3	0.5	0.3	0.3	0.3	0.2	—	0.2	0.5	0.6	0.5	0.3	—	0.3
2005.....	0.4	0.3	0.5	0.3	0.3	0.3	0.2	—	0.2	0.5	0.7	0.5	0.3	0.3	0.3
2004.....	0.4	0.3	0.4	0.3	0.3	0.3	0.2	—	0.2	0.5	0.7	0.4	0.2	0.2	0.2
2003.....	0.4	0.3	0.5	0.3	0.3	0.3	0.3	—	0.3	0.5	0.7	0.5	0.3	—	0.3
2002.....	0.6	0.4	0.7	0.4	0.4	0.4	0.4	—	0.4	0.7	1.4	0.7	0.5	0.2	0.5
2001.....	0.5	0.3	0.6	0.3	0.5	0.3	0.3	—	0.3	0.6	1.0	0.6	0.5	0.1	0.5
2000.....	0.5	0.3	0.6	0.3	0.3	0.3	0.4	0.1	0.4	0.7	1.1	0.6	0.5	0.2	0.6
Unspecified cirrhosis															
2023 ⁵	5.5	6.5	4.5	7.1	8.9	6.8	4.8	2.1	4.9	4.9	7.0	4.7	3.0	1.6	3.1
2022 ⁵	5.6	6.7	4.6	7.3	9.2	7.0	4.9	1.1	5.0	5.0	7.3	4.8	2.9	1.1	3.0
2021 ⁵	5.6	6.7	4.6	7.2	9.2	7.0	5.0	1.6	5.2	4.9	7.0	4.8	3.3	0.7	3.4
2020 ⁵	5.3	6.5	4.3	6.9	8.9	6.6	5.2	2.0	5.3	4.7	6.9	4.4	3.1	1.4	3.1
2020.....	5.3	6.5	4.3	6.9	8.9	6.6	5.1	1.9	5.3	4.6	6.8	4.4	3.0	1.5	3.1
2019.....	4.9	6.0	3.9	6.4	8.4	6.2	4.5	1.5	4.7	4.2	6.3	3.9	2.6	0.4	2.6
2018.....	4.8	6.0	3.8	6.3	9.1	6.0	4.5	0.8	4.7	4.1	6.3	3.9	2.4	0.5	2.5
2017.....	4.8	5.9	3.8	6.3	8.6	5.9	4.9	1.5	5.0	4.1	6.1	3.9	2.6	0.6	2.7
2016.....	4.7	5.9	3.7	6.2	8.4	5.9	4.8	0.8	4.9	4.0	6.2	3.8	2.4	0.6	2.5
2015.....	5.0	6.1	3.9	6.5	8.7	6.3	4.9	2.5	5.0	4.2	6.7	3.9	2.8	0.4	2.9
2014.....	4.9	6.2	3.7	6.6	8.8	6.3	5.0	1.8	5.1	4.0	6.5	3.7	2.7	0.7	2.8
2013.....	4.9	6.2	3.7	6.5	8.7	6.3	5.6	1.3	5.7	3.8	6.4	3.6	2.8	0.5	2.9
2012.....	4.8	6.1	3.6	6.4	8.8	6.1	5.1	2.4	5.2	3.8	6.6	3.6	2.5	0.2	2.6

Table 4. Age-adjusted death rates¹ from liver cirrhosis with and without mention of alcohol by sex, race, and Hispanic origin,² United States, 2000–2023. (Continued)

Liver cirrhosis subcategory and year	All races/origins			Male						Female					
				White			Black			White			Black		
	Both sexes	Male	Female	All ³	Hispanic	Non-Hispanic	All ³	Hispanic ⁴	Non-Hispanic	All ³	Hispanic	Non-Hispanic	All ³	Hispanic ⁴	Non-Hispanic
2011.....	4.7	6.0	3.6	6.2	8.8	5.9	5.1	0.9	5.2	3.8	6.5	3.6	2.5	—	2.6
2010.....	4.5	5.8	3.3	6.1	8.5	5.8	5.1	0.7	5.3	3.5	5.8	3.3	2.4	0.5	2.4
2009.....	4.4	5.7	3.3	5.9	8.5	5.6	5.1	1.0	5.3	3.5	6.7	3.2	2.5	1.9	2.5
2008.....	4.4	5.8	3.2	5.9	8.9	5.6	5.3	1.0	5.5	3.4	6.3	3.2	2.2	0.9	2.2
2007.....	4.4	5.8	3.3	5.9	8.5	5.6	5.3	1.4	5.4	3.4	5.9	3.2	2.6	0.8	2.6
2006.....	4.4	5.8	3.3	5.9	8.4	5.7	5.4	0.9	5.5	3.4	6.1	3.2	2.5	0.8	2.6
2005.....	4.6	6.0	3.4	6.1	9.8	5.7	5.9	1.6	6.0	3.5	5.9	3.3	2.7	1.2	2.7
2004.....	4.6	6.0	3.4	6.1	9.4	5.8	6.0	1.3	6.1	3.5	6.5	3.3	2.8	0.8	2.9
2003.....	4.9	6.5	3.6	6.6	9.8	6.3	6.2	2.6	6.3	3.7	6.8	3.5	3.0	1.5	3.1
2002.....	4.9	6.4	3.6	6.5	10.8	6.2	6.0	2.5	6.1	3.7	6.2	3.5	3.1	0.9	3.1
2001.....	4.9	6.4	3.6	6.5	10.5	6.1	6.8	2.3	6.9	3.7	6.0	3.5	2.9	0.9	2.9
2000.....	4.8	6.4	3.5	6.5	10.5	6.2	6.4	1.9	6.5	3.5	6.5	3.3	3.1	1.6	3.1

— No deaths in this table cell.

¹ Rates per 100,000 population computed by the direct standardization method, using year 2000 total population of the United States as the standard age distribution.

² Excludes deaths for which Hispanic origin was unknown.

³ Includes deaths for which Hispanic origin was unknown.

⁴ Rates are not reliable due to the small number of cirrhosis deaths among Hispanic Blacks.

⁵ Single-race population.

Table 5. Age-specific number of deaths, 5-year annual moving average of age-specific death rates, and age-adjusted death rates¹ from all liver cirrhosis by sex and Hispanic subgroup, United States, 2000–2023.

Sex, Hispanic subgroup, ² and year	Number of deaths, by age group									Deaths per 100,000 population, by age group								Age-adjusted deaths per 100,000 population
	All ³	0–24	25–34	35–44	45–54	55–64	65–74	75–84	85+	All	25–34	35–44	45–54	55–64	65–74	75–84	85+	
Both sexes																		
Mexican-origin																		
2019–2023	28,027	53	1,222	3,538	5,846	7,852	5,758	2,841	917	15.1	4.2	13.5	27.0	53.2	69.6	81.8	78.4	20.6
2018–2022	26,577	59	1,063	3,261	5,636	7,589	5,491	2,628	850	14.4	3.7	12.5	26.5	53.1	69.9	78.5	74.0	20.0
2017–2021	24,652	55	887	2,900	5,340	7,137	5,103	2,456	774	13.4	3.1	11.1	25.5	51.3	68.0	76.1	68.3	19.1
2016–2020	22,926	57	769	2,500	5,058	6,716	4,731	2,342	752	12.5	2.7	9.6	24.6	49.9	66.3	75.4	67.3	18.4
2015–2019	21,792	53	657	2,244	5,022	6,435	4,440	2,227	713	11.9	2.3	8.6	24.8	49.2	65.2	74.8	65.8	18.1
2014–2018	21,061	55	600	2,123	5,048	6,299	4,162	2,116	657	11.6	2.1	8.2	25.5	50.1	64.6	74.2	63.9	18.0
2013–2017	20,228	50	561	2,028	5,027	6,048	3,828	2,059	626	11.3	2.0	7.9	26.2	50.3	62.9	75.6	64.1	18.0
2012–2016	19,507	47	550	1,941	5,017	5,842	3,539	1,992	578	11.1	2.0	7.7	27.0	50.9	61.9	75.9	62.6	18.1
2011–2015	18,557	45	492	1,854	4,972	5,502	3,307	1,866	518	10.7	1.8	7.5	27.7	50.5	61.8	73.7	59.7	17.9
2010–2014	17,301	41	453	1,766	4,787	5,080	2,971	1,725	477	10.2	1.6	7.2	27.6	49.3	59.2	70.7	58.8	17.4
2009–2013	16,400	39	435	1,757	4,639	4,642	2,783	1,657	447	9.8	1.6	7.3	27.8	47.3	58.4	70.3	57.4	17.2
2008–2012	15,534	38	424	1,738	4,483	4,276	2,600	1,562	412	9.5	1.5	7.4	27.8	46.1	57.0	68.8	55.3	16.9
2007–2011	14,731	34	408	1,738	4,319	3,876	2,499	1,483	373	9.3	1.5	7.6	27.7	44.4	57.4	67.7	52.7	16.7
2006–2010	13,874	32	400	1,729	4,099	3,509	2,335	1,413	355	9.0	1.5	7.8	27.4	42.7	56.1	66.2	53.0	16.4
2005–2009	13,322	38	378	1,712	3,907	3,319	2,283	1,363	320	8.9	1.4	8.0	27.3	42.8	57.6	65.4	49.8	16.4
2004–2008	12,566	46	343	1,681	3,755	3,010	2,142	1,324	263	8.7	1.3	8.1	27.6	41.6	57.7	65.7	43.6	16.3
2003–2007	12,053	42	335	1,690	3,553	2,834	2,090	1,275	232	8.6	1.3	8.4	27.6	41.7	60.0	65.1	41.2	16.4
2002–2006	11,662	51	323	1,713	3,420	2,675	2,052	1,203	223	8.5	1.2	8.8	28.0	41.6	62.2	64.0	41.9	16.7
2001–2005	11,421	51	327	1,720	3,316	2,596	2,062	1,149	199	8.6	1.3	9.2	28.7	43.0	65.1	65.5	39.7	17.2
2000–2004	11,058	45	332	1,714	3,202	2,439	2,037	1,097	191	8.8	1.4	9.7	29.4	43.3	65.7	65.8	39.4	17.4
Puerto Rican-origin																		
2019–2023	3,456	6	68	243	608	1,005	909	485	132	12.0	1.6	6.1	18.0	35.5	49.9	57.1	44.0	13.3
2018–2022	3,370	4	65	214	581	1,003	894	481	128	11.7	1.5	5.4	17.3	36.2	51.2	59.5	43.8	13.3
2017–2021	3,174	4	61	202	564	951	822	443	127	11.1	1.4	5.2	17.1	35.5	49.0	56.9	45.6	12.9
2016–2020	3,003	3	50	186	522	940	768	419	115	10.7	1.2	4.8	16.0	36.3	48.5	56.7	44.1	12.7
2015–2019	2,857	1	45	164	506	910	742	384	105	10.2	1.0	4.3	15.5	36.4	49.1	53.9	42.9	12.4
2014–2018	2,836	2	35	172	544	911	708	371	93	10.3	0.8	4.6	16.9	38.2	49.4	55.4	41.2	12.9
2013–2017	2,721	2	30	175	566	864	654	339	91	10.1	0.7	4.8	18.0	37.8	48.7	53.7	43.6	12.9
2012–2016	2,678	2	24	168	588	881	632	306	77	10.2	0.6	4.7	19.1	40.4	49.9	51.9	39.7	13.2
2011–2015	2,627	6	20	163	608	866	606	284	74	10.2	0.5	4.7	20.2	41.3	51.1	50.1	41.1	13.4
2010–2014	2,512	6	19	151	610	824	566	267	69	10.1	0.5	4.5	20.9	41.1	50.9	50.3	40.6	13.5
2009–2013	2,352	6	23	138	570	792	492	258	73	9.8	0.6	4.3	20.2	42.3	49.0	51.2	40.3	13.4
2008–2012	2,281	6	17	141	542	789	488	234	64	9.9	0.5	4.5	20.0	45.2	52.8	50.2	33.4	13.7

Table 5. Age-specific number of deaths, 5-year annual moving average of age-specific death rates, and age-adjusted death rates¹ from all liver cirrhosis by sex and Hispanic subgroup, United States, 2000–2023. (Continued)

Sex, Hispanic subgroup, ² and year	Number of deaths, by age group									Deaths per 100,000 population, by age group								Age-adjusted deaths per 100,000 population
	All ³	0–24	25–34	35–44	45–54	55–64	65–74	75–84	85+	All	25–34	35–44	45–54	55–64	65–74	75–84	85+	
2007–2011	2,158	8	19	135	529	715	460	229	63	9.8	0.6	4.5	20.6	43.3	53.2	50.8	32.4	13.7
2006–2010	2,051	5	18	138	521	669	435	207	58	9.8	0.6	4.8	21.6	43.5	52.6	49.2	30.7	13.7
2005–2009	1,994	6	17	141	543	628	399	210	50	10.0	0.6	5.0	23.7	43.1	50.4	53.4	28.7	14.0
2004–2008	1,996	6	14	157	555	597	417	211	39	10.3	0.5	5.7	25.2	42.2	51.2	58.2	26.9	14.5
2003–2007	1,997	5	16	166	577	574	408	219	32	10.5	0.5	6.0	27.2	42.0	51.2	64.0	26.9	15.1
2002–2006	2,021	5	15	184	600	590	391	207	29	10.8	0.5	6.8	29.2	44.9	50.5	67.8	27.3	15.8
2001–2005	2,028	4	19	212	616	556	393	205	23	11.2	0.7	7.9	30.8	44.9	51.6	72.8	23.6	16.5
2000–2004	2,054	4	21	247	608	566	387	195	26	11.9	0.8	9.5	32.1	48.3	52.9	69.5	28.4	17.3
Cuban-origin																		
2019–2023	1,102	1	11	36	135	286	254	259	120	9.1	0.6	2.2	7.9	17.7	24.6	38.0	35.6	6.9
2018–2022	1,086	—	11	33	143	297	244	250	108	9.1	0.7	2.1	8.4	19.1	24.3	36.7	31.6	7.0
2017–2021	1,045	—	11	29	143	273	252	229	108	8.9	0.7	1.9	8.3	18.3	25.8	33.7	32.4	6.8
2016–2020	982	—	11	29	132	258	240	218	94	8.5	0.7	1.9	7.7	18.3	25.2	32.2	28.6	6.6
2015–2019	918	—	8	26	129	242	213	204	96	8.1	0.5	1.7	7.4	17.9	23.0	30.6	30.1	6.3
2014–2018	934	—	7	30	135	238	222	209	93	8.5	0.5	2.0	7.9	18.7	24.9	32.2	30.3	6.6
2013–2017	900	—	8	30	122	226	212	209	93	8.4	0.5	2.1	7.3	18.9	24.7	33.3	31.5	6.6
2012–2016	864	—	8	31	118	207	193	216	91	8.4	0.6	2.2	7.3	18.2	23.1	35.7	32.0	6.6
2011–2015	830	—	6	28	124	189	182	206	95	8.3	0.5	2.0	7.9	17.4	22.4	35.0	35.6	6.6
2010–2014	803	—	7	25	130	166	183	193	99	8.2	0.6	1.8	8.5	16.1	23.0	33.1	39.8	6.5
2009–2013	739	—	6	21	122	147	172	179	92	7.8	0.5	1.5	8.5	15.1	21.7	30.2	38.6	6.2
2008–2012	745	—	7	21	136	128	186	187	80	8.2	0.6	1.6	10.1	13.7	24.0	31.2	35.6	6.4
2007–2011	735	1	6	25	135	126	189	179	74	8.4	0.6	1.8	10.8	14.1	25.2	30.8	33.7	6.6
2006–2010	690	1	7	27	121	129	176	162	67	8.1	0.7	1.9	10.5	15.2	24.6	28.1	30.2	6.5
2005–2009	657	1	6	26	106	120	182	161	55	8.0	0.6	1.9	10.3	14.7	25.9	28.2	23.6	6.4
2004–2008	641	1	6	26	107	117	171	164	49	7.9	0.6	1.9	11.1	14.4	24.3	29.1	21.0	6.4
2003–2007	629	1	5	28	92	126	163	163	51	7.9	0.5	2.0	10.0	15.4	22.2	29.3	21.7	6.2
2002–2006	625	—	6	23	83	124	171	172	46	8.1	0.6	1.8	9.6	15.0	21.6	30.9	19.4	6.1
2001–2005	646	—	4	24	78	132	184	182	42	8.7	0.4	2.0	9.1	16.1	22.4	33.6	18.9	6.3
2000–2004	658	1	5	31	80	135	187	177	42	9.2	0.6	2.7	9.3	16.6	22.4	33.3	20.0	6.5
Other Hispanic ⁴																		
2019–2023	11,248	34	608	1,567	2,321	2,898	2,271	1,169	380	13.1	4.5	11.9	21.9	35.8	48.4	56.9	51.5	15.2
2018–2022	10,650	31	544	1,435	2,224	2,818	2,096	1,145	356	13.0	4.2	11.5	22.0	36.6	47.7	59.7	51.1	15.3
2017–2021	9,882	20	474	1,250	2,133	2,718	1,883	1,071	332	12.6	3.8	10.4	21.9	37.2	46.0	59.5	49.9	14.9
2016–2020	8,869	13	382	1,083	1,946	2,457	1,672	1,015	300	11.9	3.2	9.4	20.8	35.6	44.0	59.5	47.3	14.2
2015–2019	7,942	9	318	891	1,791	2,232	1,482	929	289	11.2	2.8	8.2	20.0	34.7	42.3	58.7	49.7	13.6

Table 5. Age-specific number of deaths, 5-year annual moving average of age-specific death rates, and age-adjusted death rates¹ from all liver cirrhosis by sex and Hispanic subgroup, United States, 2000–2023. (Continued)

Sex, Hispanic subgroup, ² and year	Number of deaths, by age group									Deaths per 100,000 population, by age group								Age-adjusted deaths per 100,000 population
	All ³	0–24	25–34	35–44	45–54	55–64	65–74	75–84	85+	All	25–34	35–44	45–54	55–64	65–74	75–84	85+	
2014–2018	7,251	8	282	774	1,699	2,062	1,340	817	268	10.6	2.5	7.4	19.6	33.6	41.0	54.7	49.3	13.0
2013–2017	6,514	7	247	689	1,607	1,854	1,171	709	230	9.9	2.3	6.8	19.1	32.1	38.6	50.4	45.4	12.3
2012–2016	5,875	9	210	618	1,491	1,644	1,077	619	207	9.2	2.0	6.3	18.3	30.2	38.2	46.9	44.3	11.7
2011–2015	5,419	11	185	561	1,445	1,490	1,001	548	178	8.8	1.8	5.9	18.3	29.1	38.0	44.3	41.1	11.4
2010–2014	5,025	15	167	522	1,381	1,374	906	505	155	8.4	1.6	5.7	18.1	28.5	37.1	43.4	39.0	11.1
2009–2013	4,687	16	152	500	1,328	1,253	809	484	145	8.2	1.5	5.6	18.1	28.0	36.1	43.9	37.5	11.0
2008–2012	4,515	13	145	518	1,279	1,182	781	460	137	8.2	1.5	6.0	18.2	28.1	37.6	42.4	35.6	11.0
2007–2011	4,303	14	140	513	1,256	1,098	696	463	122	8.0	1.5	6.0	18.7	27.7	36.0	43.8	32.1	11.0
2006–2010	4,060	14	128	494	1,193	1,009	635	466	120	7.8	1.4	5.9	18.7	27.2	34.5	45.9	32.0	10.9
2005–2009	3,867	10	124	519	1,129	918	617	432	114	7.7	1.4	6.3	18.6	26.8	35.4	44.9	31.9	10.9
2004–2008	3,677	9	113	515	1,071	848	598	414	105	7.6	1.3	6.4	18.5	26.3	35.7	46.7	33.6	11.0
2003–2007	3,451	10	115	478	1,002	799	544	412	87	7.5	1.4	6.1	18.4	27.2	33.9	53.6	34.1	11.2
2002–2006	3,298	11	114	486	930	738	548	381	86	7.5	1.4	6.5	18.1	28.0	36.5	56.0	43.4	11.7
2001–2005	3,203	9	102	526	900	693	551	340	78	7.7	1.3	7.3	18.9	28.8	39.8	54.0	49.8	12.3
2000–2004	3,126	10	101	526	866	659	554	335	74	8.0	1.4	7.7	19.8	28.9	42.7	56.5	45.9	12.7
Male																		
Mexican-origin																		
2019–2023	18,966	39	893	2,710	4,534	5,682	3,424	1,312	372	20.0	6.0	19.8	40.9	76.2	86.7	86.2	83.9	27.1
2018–2022	18,125	41	790	2,495	4,416	5,524	3,270	1,240	349	19.2	5.3	18.3	40.4	76.7	87.5	85.0	80.6	26.7
2017–2021	16,942	35	654	2,213	4,217	5,252	3,056	1,182	333	18.1	4.4	16.4	39.3	75.1	86.0	84.3	77.7	25.8
2016–2020	15,734	37	574	1,888	3,978	4,958	2,825	1,145	328	16.9	3.8	14.1	37.9	73.8	83.9	84.5	78.6	24.9
2015–2019	14,996	32	501	1,692	3,962	4,737	2,660	1,074	337	16.1	3.3	12.6	38.2	72.6	82.6	83.5	84.3	24.5
2014–2018	14,497	34	462	1,601	3,963	4,659	2,474	995	308	15.7	3.1	12.0	39.0	74.4	81.6	80.5	82.0	24.4
2013–2017	13,906	30	432	1,548	3,921	4,456	2,274	956	288	15.3	2.9	11.8	39.7	74.4	79.7	81.5	80.0	24.3
2012–2016	13,364	26	428	1,491	3,906	4,267	2,086	908	251	14.9	2.9	11.5	40.8	74.9	78.1	80.2	73.7	24.2
2011–2015	12,709	25	383	1,451	3,857	4,007	1,912	855	218	14.3	2.6	11.3	41.6	74.1	76.7	78.7	68.2	23.9
2010–2014	11,908	21	357	1,399	3,690	3,724	1,709	815	192	13.6	2.4	11.1	41.3	72.9	73.5	78.1	64.4	23.4
2009–2013	11,294	20	345	1,411	3,562	3,375	1,626	770	184	13.1	2.3	11.2	41.2	69.3	73.6	76.2	64.0	23.0
2008–2012	10,769	21	342	1,396	3,474	3,119	1,525	716	175	12.7	2.3	11.2	41.3	67.6	72.0	73.1	64.4	22.7
2007–2011	10,328	20	331	1,413	3,370	2,848	1,493	690	162	12.5	2.2	11.5	41.5	65.2	73.3	72.7	63.3	22.5
2006–2010	9,810	21	326	1,399	3,237	2,604	1,408	656	157	12.2	2.2	11.6	41.3	63.2	72.1	71.8	64.5	22.3
2005–2009	9,483	24	301	1,386	3,128	2,464	1,398	640	140	12.1	2.0	11.8	41.6	63.3	74.9	73.0	59.5	22.5
2004–2008	9,003	28	274	1,361	3,047	2,245	1,286	641	119	11.8	1.8	12.0	42.9	62.0	73.9	76.7	54.2	22.6
2003–2007	8,624	25	264	1,373	2,896	2,119	1,222	625	98	11.7	1.8	12.6	43.3	62.3	75.2	78.1	47.7	22.8
2002–2006	8,339	32	253	1,388	2,801	1,992	1,192	593	86	11.6	1.7	13.2	44.3	62.7	78.4	78.4	44.5	23.2
2001–2005	8,231	30	261	1,397	2,734	1,948	1,205	581	74	11.8	1.9	13.9	45.9	65.7	83.3	81.4	41.5	24.3

Table 5. Age-specific number of deaths, 5-year annual moving average of age-specific death rates, and age-adjusted death rates¹ from all liver cirrhosis by sex and Hispanic subgroup, United States, 2000–2023. (Continued)

Sex, Hispanic subgroup, ² and year	Number of deaths, by age group									Deaths per 100,000 population, by age group								Age-adjusted deaths per 100,000 population
	All ³	0–24	25–34	35–44	45–54	55–64	65–74	75–84	85+	All	25–34	35–44	45–54	55–64	65–74	75–84	85+	
2000–2004	7,992	27	276	1,398	2,641	1,839	1,190	546	74	12.2	2.1	14.7	47.3	67.0	84.3	77.5	45.1	24.7
Puerto Rican-origin																		
2019–2023	2,151	3	41	141	413	682	570	236	65	15.0	1.9	7.0	25.0	50.2	69.7	69.9	58.9	17.8
2018–2022	2,135	3	39	121	407	692	577	237	59	14.9	1.8	6.0	24.7	52.3	73.5	73.2	55.3	18.1
2017–2021	2,037	3	36	116	395	676	538	217	56	14.4	1.6	5.9	24.4	53.1	71.5	69.9	54.2	17.8
2016–2020	1,943	2	30	109	366	685	498	197	56	13.9	1.4	5.7	22.8	55.9	70.7	66.8	58.9	17.7
2015–2019	1,865	1	27	89	358	659	489	190	52	13.4	1.2	4.7	22.3	56.0	72.9	65.7	59.8	17.5
2014–2018	1,875	1	17	101	384	672	477	182	41	13.8	0.8	5.5	24.2	59.9	75.0	66.6	50.9	18.2
2013–2017	1,823	1	15	106	406	650	434	171	40	13.7	0.7	5.9	26.4	60.4	72.9	65.0	56.2	18.5
2012–2016	1,799	1	13	100	427	652	410	163	33	13.9	0.7	5.8	28.3	63.8	72.9	66.0	50.0	19.0
2011–2015	1,787	4	8	104	452	641	396	151	31	14.1	0.4	6.1	30.6	65.0	75.0	63.7	52.4	19.5
2010–2014	1,726	4	6	102	453	621	375	136	29	14.0	0.3	6.3	31.7	66.4	75.1	62.0	53.4	19.7
2009–2013	1,622	4	9	93	435	596	324	130	31	13.7	0.5	6.0	31.5	67.9	72.4	62.2	52.3	19.6
2008–2012	1,564	4	8	99	406	593	313	116	25	13.8	0.5	6.6	30.8	73.4	75.6	61.8	36.9	20.1
2007–2011	1,496	5	7	100	403	543	300	114	24	13.9	0.4	7.0	32.4	72.6	78.1	62.3	35.8	20.4
2006–2010	1,434	3	7	102	399	512	281	107	23	14.1	0.4	7.4	34.9	73.9	78.3	62.6	34.6	21.0
2005–2009	1,420	4	9	104	437	479	257	112	18	14.6	0.6	7.8	40.8	71.9	76.0	70.4	29.0	21.8
2004–2008	1,410	5	8	115	437	451	270	110	14	14.9	0.5	8.7	42.6	70.5	75.6	77.9	26.5	22.3
2003–2007	1,412	4	7	126	463	429	257	115	11	15.2	0.5	9.6	46.0	69.3	74.3	86.5	25.8	23.1
2002–2006	1,443	4	7	142	486	444	243	105	12	15.9	0.5	10.8	49.4	73.2	73.4	89.6	31.1	24.3
2001–2005	1,443	3	10	164	495	411	249	103	8	16.5	0.7	12.6	51.6	72.4	77.0	95.8	22.0	25.2
2000–2004	1,460	3	12	194	487	418	244	94	8	17.4	0.9	15.7	53.3	79.1	78.5	86.7	22.9	26.2
Cuban-origin																		
2019–2023	706	1	8	21	102	216	170	134	54	11.5	0.9	2.4	11.1	25.9	35.0	46.5	44.7	9.4
2018–2022	713	—	8	23	111	219	166	137	49	11.8	0.9	2.7	12.2	27.5	35.4	47.8	39.8	9.7
2017–2021	698	—	9	18	115	204	178	123	51	11.8	1.0	2.2	12.5	26.8	39.4	43.4	42.3	9.7
2016–2020	656	—	7	20	103	192	169	116	49	11.3	0.8	2.5	11.2	27.0	38.6	41.2	41.5	9.4
2015–2019	608	—	5	16	100	175	149	112	51	10.6	0.6	2.0	10.8	25.6	34.8	40.9	44.5	8.9
2014–2018	610	—	3	20	100	173	153	113	48	11.0	0.4	2.6	11.0	27.0	37.4	41.6	44.0	9.3
2013–2017	572	—	2	19	88	166	140	110	47	10.7	0.3	2.5	9.9	27.5	35.4	42.0	44.8	9.1
2012–2016	543	—	2	22	86	153	123	114	43	10.5	0.3	2.9	10.1	26.9	32.2	45.3	42.2	9.0
2011–2015	522	—	1	21	93	146	113	107	41	10.4	0.2	2.8	11.5	26.8	30.5	43.8	42.0	9.0
2010–2014	511	—	2	21	101	131	117	98	41	10.4	0.3	2.8	12.7	25.3	32.4	40.0	45.9	9.1
2009–2013	471	—	2	18	99	115	109	91	37	10.0	0.3	2.5	13.1	23.8	30.1	36.9	41.7	8.6
2008–2012	475	—	4	18	107	106	122	87	31	10.4	0.7	2.5	15.2	22.7	34.3	35.4	34.0	8.9
2007–2011	475	1	4	22	107	103	127	81	30	10.7	0.7	3.0	16.2	22.9	36.8	34.2	32.4	9.3

Table 5. Age-specific number of deaths, 5-year annual moving average of age-specific death rates, and age-adjusted death rates¹ from all liver cirrhosis by sex and Hispanic subgroup, United States, 2000–2023. (Continued)

Sex, Hispanic subgroup, ² and year	Number of deaths, by age group									Deaths per 100,000 population, by age group								Age-adjusted deaths per 100,000 population
	All ³	0–24	25–34	35–44	45–54	55–64	65–74	75–84	85+	All	25–34	35–44	45–54	55–64	65–74	75–84	85+	
2006–2010	447	1	6	24	94	104	119	73	26	10.4	1.1	3.3	15.2	24.7	36.2	30.6	27.4	9.1
2005–2009	415	1	5	23	82	96	120	68	20	10.0	0.9	3.1	14.9	23.9	36.2	28.5	20.8	8.7
2004–2008	414	1	5	24	83	97	113	73	18	10.0	0.9	3.2	16.0	24.1	33.3	30.3	20.5	8.8
2003–2007	415	1	5	24	76	104	105	78	22	10.2	1.0	3.2	15.3	26.7	29.3	31.1	28.1	8.8
2002–2006	402	—	6	19	68	102	108	80	19	10.2	1.2	2.7	14.6	26.9	27.8	30.6	26.3	8.5
2001–2005	412	—	4	19	64	109	115	84	17	10.8	0.8	2.9	14.2	28.9	28.2	33.6	28.9	8.8
2000–2004	425	1	5	24	68	111	116	83	17	11.7	1.0	3.8	15.3	29.6	28.1	35.5	30.7	9.4
Other Hispanic ⁴																		
2019–2023	7,200	22	446	1,148	1,689	1,978	1,281	500	136	16.8	6.5	17.0	32.3	51.9	63.6	61.9	53.0	20.4
2018–2022	6,822	20	391	1,055	1,636	1,911	1,189	482	137	16.8	5.9	16.5	33.1	53.0	63.9	64.0	57.3	20.6
2017–2021	6,362	11	334	923	1,573	1,845	1,088	458	129	16.4	5.2	15.1	33.2	54.4	63.0	64.6	57.6	20.4
2016–2020	5,680	6	261	790	1,426	1,678	961	444	113	15.3	4.1	13.6	31.5	52.7	60.2	66.6	53.1	19.4
2015–2019	5,070	5	214	649	1,308	1,514	840	421	118	14.5	3.6	11.8	30.3	51.6	56.9	69.8	63.6	18.9
2014–2018	4,631	3	180	566	1,247	1,401	760	366	107	13.7	3.1	10.7	29.9	50.4	55.2	64.9	63.0	18.1
2013–2017	4,194	2	161	496	1,169	1,292	666	320	88	12.8	2.8	9.7	28.9	49.5	52.1	61.0	55.8	17.2
2012–2016	3,799	4	140	447	1,083	1,173	610	269	73	12.0	2.5	9.0	27.8	48.0	51.5	55.5	49.9	16.4
2011–2015	3,556	7	127	410	1,063	1,080	569	237	63	11.6	2.3	8.5	28.2	47.2	51.8	52.8	47.2	16.2
2010–2014	3,356	9	120	394	1,014	1,024	532	215	48	11.3	2.2	8.5	27.9	47.6	52.4	50.7	39.9	16.0
2009–2013	3,143	11	115	376	991	928	476	198	48	10.9	2.2	8.4	28.6	46.8	51.0	49.2	40.8	15.8
2008–2012	3,018	9	111	386	955	872	453	186	46	10.9	2.1	8.8	28.7	46.7	53.0	46.2	41.5	15.9
2007–2011	2,891	10	110	390	943	803	404	187	43	10.7	2.1	9.0	29.6	45.7	51.6	47.6	40.1	15.9
2006–2010	2,697	9	101	376	897	731	360	176	46	10.3	2.0	8.8	29.5	44.1	48.3	45.3	44.1	15.5
2005–2009	2,560	8	100	389	849	668	342	157	43	10.1	2.0	9.2	29.3	44.0	48.6	41.0	42.7	15.3
2004–2008	2,460	7	93	388	823	621	324	162	38	10.1	1.9	9.4	29.7	43.7	49.3	45.4	41.9	15.6
2003–2007	2,349	8	96	369	788	589	294	170	31	10.1	2.0	9.3	30.4	45.7	46.8	56.0	40.2	16.1
2002–2006	2,252	6	93	369	739	542	300	170	29	10.2	2.1	9.8	30.4	46.3	50.3	64.1	47.8	17.0
2001–2005	2,225	4	85	404	730	505	312	157	24	10.6	2.0	11.3	32.7	46.7	57.3	66.7	43.3	18.1
2000–2004	2,173	4	82	405	717	468	315	156	25	11.1	2.1	12.1	35.4	45.9	62.4	75.8	39.5	19.2
Female																		
Mexican-origin																		
2019–2023	9,061	14	329	828	1,312	2,170	2,334	1,529	545	9.9	2.4	6.6	12.4	29.7	54.0	78.4	75.0	13.9
2018–2022	8,452	18	273	766	1,220	2,065	2,221	1,388	501	9.3	2.0	6.1	11.8	29.1	53.9	73.5	70.0	13.3
2017–2021	7,710	20	233	687	1,123	1,885	2,047	1,274	441	8.5	1.7	5.5	11.0	27.2	51.7	69.8	62.5	12.5
2016–2020	7,192	20	195	612	1,080	1,758	1,906	1,197	424	8.0	1.4	4.9	10.8	26.1	50.5	68.3	60.6	12.1
2015–2019	6,796	21	156	552	1,060	1,698	1,780	1,153	376	7.6	1.1	4.4	10.7	25.9	49.6	68.2	55.0	11.8
2014–2018	6,564	21	138	522	1,085	1,640	1,688	1,121	349	7.4	1.0	4.2	11.3	26.0	49.5	69.4	53.5	11.8

Table 5. Age-specific number of deaths, 5-year annual moving average of age-specific death rates, and age-adjusted death rates¹ from all liver cirrhosis by sex and Hispanic subgroup, United States, 2000–2023. (Continued)

Sex, Hispanic subgroup, ² and year	Number of deaths, by age group									Deaths per 100,000 population, by age group								Age-adjusted deaths per 100,000 population
	All ³	0–24	25–34	35–44	45–54	55–64	65–74	75–84	85+	All	25–34	35–44	45–54	55–64	65–74	75–84	85+	
2013–2017	6,322	20	129	480	1,106	1,592	1,554	1,103	338	7.2	1.0	3.9	11.9	26.4	48.1	71.2	54.8	11.9
2012–2016	6,143	21	122	450	1,111	1,575	1,453	1,084	327	7.1	0.9	3.7	12.3	27.3	47.7	72.6	56.2	12.1
2011–2015	5,848	20	109	403	1,115	1,495	1,395	1,011	300	6.9	0.8	3.4	12.8	27.2	48.8	69.9	54.8	12.0
2010–2014	5,393	20	96	367	1,097	1,356	1,262	910	285	6.5	0.7	3.1	13.1	26.0	46.9	65.2	55.5	11.5
2009–2013	5,106	19	90	346	1,077	1,267	1,157	887	263	6.3	0.7	3.0	13.4	25.7	45.2	65.8	53.6	11.4
2008–2012	4,765	17	82	342	1,009	1,157	1,075	846	237	6.0	0.6	3.1	13.0	24.8	43.9	65.5	50.0	11.1
2007–2011	4,403	14	77	325	949	1,028	1,006	793	211	5.8	0.6	3.1	12.7	23.6	43.4	63.9	46.6	10.8
2006–2010	4,064	11	74	330	862	905	927	757	198	5.5	0.6	3.2	12.1	22.1	42.0	62.1	46.4	10.5
2005–2009	3,839	14	77	326	779	855	885	723	180	5.4	0.6	3.3	11.5	22.1	42.2	59.8	44.2	10.3
2004–2008	3,563	18	69	320	708	765	856	683	144	5.2	0.6	3.4	10.9	21.2	43.5	58.0	37.6	10.0
2003–2007	3,429	17	71	317	657	715	868	650	134	5.1	0.6	3.4	10.6	21.0	46.8	56.1	37.4	10.1
2002–2006	3,323	19	70	325	619	683	860	610	137	5.1	0.6	3.6	10.5	21.0	48.3	54.3	40.5	10.2
2001–2005	3,190	21	66	323	582	648	857	568	125	5.1	0.6	3.8	10.4	21.1	49.9	54.6	38.7	10.3
2000–2004	3,066	18	56	316	561	600	847	551	117	5.1	0.5	3.9	10.6	20.8	50.2	57.3	36.5	10.4
Puerto Rican-origin																		
2019–2023	1,305	3	27	102	195	323	339	249	67	9.0	1.3	5.1	11.3	22.0	33.8	48.7	35.3	9.4
2018–2022	1,235	1	26	93	174	311	317	244	69	8.5	1.2	4.7	10.2	21.5	33.0	50.3	37.2	9.2
2017–2021	1,137	1	25	86	169	275	284	226	71	7.9	1.2	4.4	10.1	19.5	30.7	48.3	40.5	8.8
2016–2020	1,060	1	20	77	156	255	270	222	59	7.5	0.9	4.0	9.4	18.7	30.7	49.9	35.6	8.5
2015–2019	992	—	18	75	148	251	253	194	53	7.0	0.8	3.9	8.9	18.9	30.1	45.8	33.6	8.2
2014–2018	961	1	18	71	160	239	231	189	52	6.9	0.9	3.8	9.8	18.9	29.0	47.7	35.8	8.3
2013–2017	898	1	15	69	160	214	220	168	51	6.6	0.7	3.7	10.0	17.7	29.4	45.6	37.1	8.2
2012–2016	879	1	11	68	161	229	222	143	44	6.6	0.6	3.7	10.3	19.7	31.5	41.7	34.5	8.3
2011–2015	840	2	12	59	156	225	210	133	43	6.5	0.6	3.3	10.1	20.2	32.0	40.4	35.6	8.2
2010–2014	786	2	13	49	157	203	191	131	40	6.2	0.7	2.8	10.5	19.0	31.2	42.0	34.6	8.1
2009–2013	730	2	14	45	135	196	168	128	42	6.0	0.8	2.7	9.3	19.7	30.2	43.5	34.4	8.0
2008–2012	717	2	9	42	136	196	175	118	39	6.1	0.5	2.6	9.8	20.9	34.3	42.3	31.5	8.3
2007–2011	662	3	12	35	126	172	160	115	39	5.9	0.7	2.2	9.5	19.1	33.3	43.0	30.6	8.0
2006–2010	617	2	11	36	122	157	154	100	35	5.8	0.7	2.4	9.6	18.6	32.9	40.1	28.6	7.8
2005–2009	574	2	8	37	106	149	142	98	32	5.6	0.5	2.5	8.7	18.9	31.3	41.8	28.6	7.7
2004–2008	586	1	6	42	118	146	147	101	25	5.9	0.4	2.9	10.0	18.9	32.1	45.7	27.2	8.1
2003–2007	585	1	9	40	114	145	151	104	21	6.0	0.6	2.8	10.2	19.4	33.5	49.8	27.5	8.5
2002–2006	578	1	8	42	114	146	148	102	17	6.0	0.5	3.0	10.6	20.7	33.4	54.3	25.2	8.8
2001–2005	585	1	9	48	121	145	144	102	15	6.3	0.6	3.4	11.6	21.6	32.9	58.5	24.5	9.3
2000–2004	594	1	9	53	121	148	143	101	18	6.7	0.6	3.9	12.3	23.1	33.9	58.7	31.7	9.8

Table 5. Age-specific number of deaths, 5-year annual moving average of age-specific death rates, and age-adjusted death rates¹ from all liver cirrhosis by sex and Hispanic subgroup, United States, 2000–2023. (Continued)

Sex, Hispanic subgroup, ² and year	Number of deaths, by age group									Deaths per 100,000 population, by age group								Age-adjusted deaths per 100,000 population
	All ³	0–24	25–34	35–44	45–54	55–64	65–74	75–84	85+	All	25–34	35–44	45–54	55–64	65–74	75–84	85+	
Cuban-origin																		
2019–2023	396	—	3	15	33	70	84	125	66	6.6	0.4	2.0	4.2	8.9	15.3	31.8	30.5	4.6
2018–2022	373	—	3	10	32	78	78	113	59	6.3	0.4	1.4	4.0	10.3	14.6	28.7	27.0	4.4
2017–2021	347	—	2	11	28	69	74	106	57	6.0	0.2	1.5	3.5	9.5	14.1	26.7	26.8	4.1
2016–2020	326	—	4	9	29	66	71	102	45	5.7	0.5	1.3	3.6	9.5	13.8	25.7	21.4	4.0
2015–2019	310	—	3	10	29	67	64	92	45	5.5	0.4	1.4	3.6	10.0	12.9	23.4	22.1	3.9
2014–2018	324	—	4	10	35	65	69	96	45	5.9	0.5	1.4	4.3	10.3	14.3	25.5	22.7	4.2
2013–2017	328	—	6	11	34	60	72	99	46	6.2	0.8	1.6	4.3	10.1	15.6	27.0	24.1	4.4
2012–2016	321	—	6	9	32	54	70	102	48	6.2	0.9	1.3	4.1	9.5	15.5	28.8	26.3	4.5
2011–2015	308	—	5	7	31	43	69	99	54	6.2	0.8	1.0	4.1	8.0	15.6	28.7	32.0	4.3
2010–2014	292	—	5	4	29	35	66	95	58	6.0	0.8	0.6	4.0	6.8	15.2	28.1	36.4	4.2
2009–2013	268	—	4	3	23	32	63	88	55	5.6	0.7	0.5	3.4	6.5	14.7	25.4	36.7	3.9
2008–2012	270	—	3	3	29	22	64	100	49	5.9	0.5	0.5	4.6	4.7	15.2	28.2	36.7	4.0
2007–2011	260	—	2	3	28	23	62	98	44	5.9	0.4	0.5	4.8	5.2	15.3	28.4	34.6	4.0
2006–2010	243	—	1	3	27	25	57	89	41	5.7	0.2	0.5	5.1	5.8	14.8	26.4	32.2	4.0
2005–2009	242	—	1	3	24	24	62	93	35	5.9	0.2	0.5	5.0	5.8	16.7	27.9	25.6	4.0
2004–2008	227	—	1	2	24	20	58	91	31	5.7	0.2	0.3	5.3	4.9	16.0	28.2	21.3	3.9
2003–2007	214	—	—	4	16	22	58	85	29	5.5	—	0.6	3.8	5.1	15.4	27.9	18.5	3.6
2002–2006	223	—	—	4	15	22	63	92	27	5.9	—	0.7	3.7	4.9	15.7	31.2	16.4	3.7
2001–2005	234	—	—	5	14	23	69	98	25	6.4	—	0.9	3.4	5.2	16.7	33.6	15.3	3.9
2000–2004	233	—	—	7	12	24	71	94	25	6.6	—	1.3	2.9	5.5	16.9	31.6	16.1	3.9
Other Hispanic ⁴																		
2019–2023	4,048	12	162	419	632	920	990	669	244	9.4	2.5	6.6	11.8	21.4	37.0	53.7	50.6	10.5
2018–2022	3,828	11	153	380	588	907	907	663	219	9.3	2.5	6.2	11.4	22.2	35.8	56.9	47.9	10.5
2017–2021	3,520	9	140	327	560	873	795	613	203	8.9	2.3	5.5	11.2	22.3	33.6	56.2	46.0	10.1
2016–2020	3,189	7	121	293	520	779	711	571	187	8.5	2.1	5.2	10.8	20.9	32.3	54.9	44.4	9.7
2015–2019	2,872	4	104	242	483	718	642	508	171	8.1	1.9	4.5	10.5	20.5	31.6	51.9	43.2	9.3
2014–2018	2,620	5	102	208	452	661	580	451	161	7.6	1.9	4.0	10.1	19.7	30.6	48.5	43.0	8.9
2013–2017	2,320	5	86	193	438	562	505	389	142	7.0	1.7	3.8	10.0	17.7	28.8	44.1	40.7	8.3
2012–2016	2,076	5	70	171	408	471	467	350	134	6.5	1.4	3.5	9.6	15.7	28.5	41.9	41.8	7.9
2011–2015	1,863	4	58	151	382	410	432	311	115	6.0	1.2	3.2	9.3	14.5	28.2	39.4	38.4	7.4
2010–2014	1,669	6	47	128	367	350	374	290	107	5.6	1.0	2.8	9.2	13.1	26.2	39.3	38.6	7.1
2009–2013	1,544	5	37	124	337	325	333	286	97	5.4	0.8	2.8	8.8	13.0	25.4	40.9	36.1	7.0
2008–2012	1,497	4	34	132	324	310	328	274	91	5.4	0.8	3.1	8.8	13.3	26.9	40.2	33.2	7.0
2007–2011	1,412	4	30	123	313	295	292	276	79	5.3	0.7	2.9	8.9	13.4	25.4	41.6	28.9	6.9
2006–2010	1,363	5	27	118	296	278	275	290	74	5.3	0.6	2.9	8.9	13.5	25.1	46.3	27.3	7.1

Table 5. Age-specific number of deaths, 5-year annual moving average of age-specific death rates, and age-adjusted death rates¹ from all liver cirrhosis by sex and Hispanic subgroup, United States, 2000–2023. (Continued)

Sex, Hispanic subgroup, ² and year	Number of deaths, by age group									Deaths per 100,000 population, by age group								Age-adjusted deaths per 100,000 population
	All ³	0–24	25–34	35–44	45–54	55–64	65–74	75–84	85+	All	25–34	35–44	45–54	55–64	65–74	75–84	85+	
2005–2009	1,307	2	24	130	280	250	275	275	71	5.3	0.6	3.2	8.9	13.1	26.5	47.5	27.7	7.3
2004–2008	1,217	2	20	127	248	227	274	252	67	5.1	0.5	3.2	8.2	12.6	26.9	47.6	30.3	7.2
2003–2007	1,102	2	19	109	214	210	250	242	56	4.8	0.5	2.8	7.5	12.7	25.6	52.0	31.5	7.2
2002–2006	1,046	5	21	117	191	196	248	211	57	4.8	0.6	3.1	7.0	13.4	27.4	50.8	41.5	7.5
2001–2005	978	5	17	122	170	188	239	183	54	4.7	0.5	3.4	6.7	14.2	28.5	46.4	53.3	7.6
2000–2004	953	6	19	121	149	191	239	179	49	4.8	0.6	3.5	6.4	15.1	30.2	46.3	50.0	7.7

— No deaths in this table cell.

¹ Rates per 100,000 population computed by the direct standardization method, using year 2000 total population of the United States as the standard age distribution.

² Includes all races and excludes deaths for which Hispanic origin was unknown.

³ Includes deaths for which age of decedent was unknown; age-specific numbers of deaths may not sum to total.

⁴ Includes Central and South American and Other and unknown Hispanic subgroups.

Table 6. Age-specific number of deaths, 5-year annual moving average of age-specific death rates, and age-adjusted death rates¹ from liver cirrhosis with and without mention of alcohol by sex and Hispanic subgroup, United States, 2000–2023.

Liver cirrhosis subcategory, sex, Hispanic subgroup, ² and year	Number of deaths, by age group									Deaths per 100,000 population, by age group								Age-adjusted deaths per 100,000 population
	All ³	0–24	25–34	35–44	45–54	55–64	65–74	75–84	85+	All	25–34	35–44	45–54	55–64	65–74	75–84	85+	
Alcohol-related cirrhosis																		
Both sexes																		
Mexican-origin																		
2019–2023	15,429	27	1,013	2,720	4,061	4,517	2,304	667	120	8.3	3.5	10.4	18.8	30.6	27.8	19.2	10.3	10.2
2018–2022	14,624	27	876	2,518	3,884	4,401	2,160	639	119	7.9	3.0	9.6	18.2	30.8	27.5	19.1	10.4	10.0
2017–2021	13,501	23	737	2,228	3,645	4,158	2,009	586	115	7.3	2.6	8.5	17.4	29.9	26.8	18.1	10.1	9.4
2016–2020	12,487	25	643	1,919	3,429	3,916	1,871	567	116	6.8	2.2	7.4	16.7	29.1	26.2	18.2	10.4	9.0
2015–2019	11,836	21	541	1,725	3,367	3,763	1,765	532	121	6.5	1.9	6.6	16.6	28.8	25.9	17.9	11.2	8.8
2014–2018	11,423	25	488	1,620	3,361	3,651	1,662	495	120	6.3	1.7	6.3	17.0	29.0	25.8	17.4	11.7	8.8
2013–2017	10,981	23	459	1,526	3,349	3,459	1,551	499	114	6.1	1.6	6.0	17.4	28.7	25.5	18.3	11.7	8.7
2012–2016	10,550	21	442	1,439	3,324	3,298	1,426	487	112	6.0	1.6	5.7	17.9	28.8	24.9	18.5	12.1	8.7
2011–2015	9,920	18	384	1,370	3,234	3,059	1,296	462	97	5.7	1.4	5.5	18.0	28.1	24.2	18.2	11.2	8.6
2010–2014	9,224	17	351	1,284	3,093	2,803	1,147	435	94	5.4	1.3	5.3	17.8	27.2	22.9	17.8	11.6	8.3
2009–2013	8,721	15	326	1,285	2,991	2,521	1,080	412	91	5.2	1.2	5.4	17.9	25.7	22.7	17.5	11.7	8.2
2008–2012	8,260	14	309	1,265	2,890	2,320	999	377	86	5.1	1.1	5.4	17.9	25.0	21.9	16.6	11.5	8.0
2007–2011	7,951	11	295	1,263	2,815	2,122	985	379	81	5.0	1.1	5.5	18.1	24.3	22.6	17.3	11.4	8.0
2006–2010	7,536	10	293	1,223	2,681	1,944	936	371	78	4.9	1.1	5.5	17.9	23.7	22.5	17.4	11.6	8.0
2005–2009	7,141	8	271	1,192	2,542	1,791	920	353	64	4.8	1.0	5.5	17.8	23.1	23.2	16.9	10.0	7.9
2004–2008	6,696	6	244	1,153	2,425	1,619	839	360	50	4.6	0.9	5.5	17.8	22.4	22.6	17.9	8.3	7.8
2003–2007	6,404	5	235	1,157	2,267	1,534	820	347	39	4.6	0.9	5.8	17.6	22.6	23.6	17.7	6.9	7.9
2002–2006	6,052	8	214	1,154	2,135	1,418	795	297	31	4.4	0.8	5.9	17.5	22.0	24.1	15.8	5.8	7.8
2001–2005	5,913	7	215	1,158	2,060	1,367	796	282	27	4.5	0.8	6.2	17.8	22.6	25.1	16.1	5.4	8.0
2000–2004	5,797	8	226	1,176	1,985	1,316	784	275	26	4.6	1.0	6.6	18.2	23.4	25.3	16.5	5.4	8.2
Puerto Rican-origin																		
2019–2023	1,526	—	46	144	369	528	316	103	20	5.3	1.1	3.6	10.9	18.7	17.4	12.1	6.7	5.6
2018–2022	1,484	—	45	118	350	520	326	108	17	5.1	1.0	3.0	10.4	18.8	18.7	13.4	5.8	5.6
2017–2021	1,400	—	41	112	335	490	307	99	16	4.9	0.9	2.9	10.2	18.3	18.3	12.7	5.7	5.4
2016–2020	1,316	—	33	106	305	476	282	95	19	4.7	0.8	2.8	9.3	18.4	17.8	12.8	7.3	5.3
2015–2019	1,250	—	28	105	292	431	283	91	20	4.5	0.7	2.8	8.9	17.2	18.7	12.8	8.2	5.2
2014–2018	1,254	—	25	113	310	435	269	85	17	4.6	0.6	3.0	9.7	18.2	18.8	12.7	7.5	5.4
2013–2017	1,213	—	24	118	315	410	251	79	16	4.5	0.6	3.2	10.0	17.9	18.7	12.5	7.7	5.4
2012–2016	1,178	—	19	117	317	416	226	71	12	4.5	0.5	3.3	10.3	19.1	17.8	12.0	6.2	5.5
2011–2015	1,160	1	16	106	320	420	219	67	11	4.5	0.4	3.1	10.6	20.0	18.5	11.8	6.1	5.6

Table 6. Age-specific number of deaths, 5-year annual moving average of age-specific death rates, and age-adjusted death rates¹ from liver cirrhosis with and without mention of alcohol by sex and Hispanic subgroup, United States, 2000–2023. (Continued)

Liver cirrhosis subcategory, sex, Hispanic subgroup, ² and year	Number of deaths, by age group									Deaths per 100,000 population, by age group								Age-adjusted deaths per 100,000 population
	All ³	0–24	25–34	35–44	45–54	55–64	65–74	75–84	85+	All	25–34	35–44	45–54	55–64	65–74	75–84	85+	
2010–2014	1,103	1	16	86	320	410	199	61	10	4.4	0.4	2.6	10.9	20.5	17.9	11.5	5.9	5.5
2009–2013	1,010	1	15	77	290	390	169	60	8	4.2	0.4	2.4	10.3	20.8	16.8	11.9	4.4	5.4
2008–2012	983	1	9	75	272	401	165	53	7	4.3	0.3	2.4	10.1	23.0	17.8	11.4	3.7	5.5
2007–2011	929	2	9	65	265	365	164	52	7	4.2	0.3	2.2	10.3	22.1	19.0	11.5	3.6	5.5
2006–2010	889	1	7	74	255	343	157	45	7	4.3	0.2	2.6	10.6	22.3	19.0	10.7	3.7	5.6
2005–2009	838	1	6	78	245	312	143	47	6	4.2	0.2	2.8	10.7	21.4	18.1	12.0	3.4	5.6
2004–2008	828	1	5	84	246	288	151	48	5	4.3	0.2	3.0	11.2	20.4	18.5	13.2	3.5	5.7
2003–2007	821	1	5	91	258	269	137	55	5	4.3	0.2	3.3	12.2	19.7	17.2	16.1	4.2	5.8
2002–2006	826	—	5	96	264	280	123	53	5	4.4	0.2	3.5	12.8	21.3	15.9	17.4	4.7	6.1
2001–2005	814	—	7	96	272	258	126	51	4	4.5	0.2	3.6	13.6	20.8	16.6	18.1	4.1	6.2
2000–2004	863	1	6	112	291	276	125	49	3	5.0	0.2	4.3	15.3	23.6	17.1	17.5	3.3	6.8
Cuban-origin																		
2019–2023	434	—	9	25	94	150	100	45	11	3.6	0.5	1.5	5.5	9.3	9.7	6.6	3.3	2.9
2018–2022	433	—	8	22	97	158	99	41	8	3.6	0.5	1.4	5.7	10.2	9.9	6.0	2.3	2.9
2017–2021	413	—	8	18	92	151	103	31	10	3.5	0.5	1.2	5.3	10.1	10.6	4.6	3.0	2.8
2016–2020	387	—	9	17	78	143	101	29	10	3.3	0.5	1.1	4.5	10.2	10.6	4.3	3.0	2.7
2015–2019	354	—	7	15	72	129	90	29	12	3.1	0.4	1.0	4.1	9.5	9.7	4.4	3.8	2.5
2014–2018	360	—	6	19	75	124	97	28	11	3.3	0.4	1.3	4.4	9.7	10.9	4.3	3.6	2.7
2013–2017	333	—	7	20	64	112	84	36	10	3.1	0.5	1.4	3.8	9.3	9.8	5.7	3.4	2.6
2012–2016	303	—	5	21	60	96	73	40	8	2.9	0.4	1.5	3.7	8.5	8.8	6.6	2.8	2.4
2011–2015	263	—	3	20	62	84	54	34	6	2.6	0.2	1.4	4.0	7.7	6.6	5.8	2.3	2.2
2010–2014	248	—	4	18	66	68	55	31	6	2.5	0.3	1.3	4.3	6.6	6.9	5.3	2.4	2.1
2009–2013	211	—	3	16	65	56	42	25	4	2.2	0.3	1.2	4.5	5.7	5.3	4.2	1.7	1.9
2008–2012	199	—	3	13	75	43	49	13	3	2.2	0.3	1.0	5.6	4.6	6.3	2.2	1.3	1.9
2007–2011	208	—	3	15	76	49	48	13	4	2.4	0.3	1.1	6.1	5.5	6.4	2.2	1.8	2.1
2006–2010	201	—	3	17	70	48	46	13	4	2.4	0.3	1.2	6.1	5.6	6.4	2.3	1.8	2.1
2005–2009	183	—	2	16	61	47	45	10	2	2.2	0.2	1.2	5.9	5.8	6.4	1.7	0.9	2.0
2004–2008	184	—	2	14	58	51	44	13	2	2.3	0.2	1.0	6.0	6.3	6.3	2.3	0.9	2.1
2003–2007	184	—	1	16	44	64	39	15	5	2.3	0.1	1.2	4.8	7.8	5.3	2.7	2.1	2.0
2002–2006	169	—	2	13	35	56	47	13	3	2.2	0.2	1.0	4.0	6.8	5.9	2.3	1.3	1.8
2001–2005	170	—	1	13	31	56	49	17	3	2.3	0.1	1.1	3.6	6.8	6.0	3.1	1.4	1.8
2000–2004	183	—	2	14	38	58	48	20	3	2.6	0.2	1.2	4.4	7.1	5.8	3.8	1.4	2.0
Other Hispanic ⁴																		
2019–2023	6,490	17	507	1,247	1,702	1,785	932	245	55	7.6	3.8	9.5	16.1	22.0	19.9	11.9	7.4	8.1
2018–2022	6,085	18	456	1,137	1,630	1,703	859	231	50	7.4	3.5	9.1	16.1	22.1	19.6	12.0	7.2	8.0

Table 6. Age-specific number of deaths, 5-year annual moving average of age-specific death rates, and age-adjusted death rates¹ from liver cirrhosis with and without mention of alcohol by sex and Hispanic subgroup, United States, 2000–2023. (Continued)

Liver cirrhosis subcategory, sex, Hispanic subgroup, ² and year	Number of deaths, by age group									Deaths per 100,000 population, by age group								Age-adjusted deaths per 100,000 population
	All ³	0–24	25–34	35–44	45–54	55–64	65–74	75–84	85+	All	25–34	35–44	45–54	55–64	65–74	75–84	85+	
2017–2021	5,675	13	385	997	1,562	1,675	772	227	43	7.2	3.1	8.3	16.1	22.9	18.9	12.6	6.5	7.9
2016–2020	5,040	7	310	851	1,445	1,496	662	225	43	6.7	2.6	7.4	15.5	21.7	17.4	13.2	6.8	7.4
2015–2019	4,430	7	255	696	1,305	1,345	570	214	37	6.3	2.2	6.4	14.6	20.9	16.3	13.5	6.4	6.9
2014–2018	4,007	6	223	598	1,216	1,231	504	196	32	5.9	2.0	5.7	14.0	20.1	15.4	13.1	5.9	6.5
2013–2017	3,603	5	194	527	1,120	1,100	445	184	28	5.5	1.8	5.2	13.3	19.0	14.7	13.1	5.5	6.2
2012–2016	3,220	6	168	463	1,022	958	428	150	25	5.1	1.6	4.7	12.6	17.6	15.2	11.4	5.4	5.8
2011–2015	2,937	6	143	413	963	856	403	133	20	4.8	1.4	4.3	12.2	16.7	15.3	10.7	4.6	5.6
2010–2014	2,760	7	126	388	922	803	379	117	18	4.6	1.2	4.2	12.1	16.6	15.5	10.1	4.5	5.5
2009–2013	2,602	5	120	372	906	724	351	108	16	4.5	1.2	4.2	12.4	16.2	15.6	9.8	4.1	5.5
2008–2012	2,542	3	112	386	895	696	339	95	16	4.6	1.2	4.4	12.8	16.5	16.3	8.8	4.2	5.6
2007–2011	2,415	3	110	382	872	644	298	90	15	4.5	1.2	4.5	13.0	16.3	15.4	8.5	3.9	5.5
2006–2010	2,248	3	102	368	830	582	267	80	15	4.3	1.1	4.4	13.0	15.7	14.5	7.9	4.0	5.4
2005–2009	2,128	1	98	380	778	522	259	70	17	4.3	1.1	4.6	12.8	15.2	14.9	7.3	4.8	5.3
2004–2008	1,980	1	90	372	722	475	231	72	14	4.1	1.0	4.6	12.5	14.7	13.8	8.1	4.5	5.2
2003–2007	1,839	1	89	341	655	448	209	81	12	4.0	1.0	4.4	12.0	15.3	13.0	10.5	4.7	5.2
2002–2006	1,751	1	85	340	613	409	202	84	14	4.0	1.0	4.5	11.9	15.5	13.4	12.3	7.1	5.4
2001–2005	1,713	1	78	368	583	387	203	80	10	4.1	1.0	5.1	12.2	16.1	14.7	12.7	6.4	5.7
2000–2004	1,642	2	72	370	543	368	197	81	8	4.2	1.0	5.4	12.4	16.1	15.2	13.7	5.0	5.8
Male																		
Mexican-origin																		
2019–2023	12,425	24	737	2,140	3,315	3,685	1,878	544	102	13.1	4.9	15.7	29.9	49.4	47.5	35.8	23.0	16.7
2018–2022	11,879	24	658	1,981	3,205	3,598	1,779	530	104	12.6	4.4	14.6	29.3	49.9	47.6	36.3	24.0	16.4
2017–2021	11,040	19	554	1,748	3,024	3,439	1,659	495	102	11.8	3.7	12.9	28.2	49.2	46.7	35.3	23.8	15.8
2016–2020	10,210	21	489	1,487	2,820	3,247	1,557	484	104	10.9	3.3	11.1	26.8	48.3	46.2	35.7	24.9	15.1
2015–2019	9,705	17	417	1,332	2,779	3,116	1,474	462	107	10.4	2.8	9.9	26.8	47.7	45.8	35.9	26.8	14.8
2014–2018	9,362	20	387	1,253	2,756	3,037	1,384	423	101	10.1	2.6	9.4	27.1	48.5	45.6	34.2	26.9	14.8
2013–2017	8,967	19	359	1,194	2,724	2,871	1,285	421	93	9.8	2.4	9.1	27.6	47.9	45.1	35.9	25.8	14.7
2012–2016	8,596	16	350	1,128	2,705	2,727	1,179	402	88	9.6	2.4	8.7	28.3	47.9	44.2	35.5	25.8	14.6
2011–2015	8,093	14	303	1,093	2,622	2,535	1,071	381	74	9.1	2.0	8.5	28.3	46.9	43.0	35.1	23.2	14.3
2010–2014	7,550	12	280	1,039	2,496	2,342	951	356	74	8.6	1.9	8.2	27.9	45.9	40.9	34.1	24.8	14.0
2009–2013	7,141	11	257	1,050	2,400	2,106	906	336	75	8.3	1.7	8.4	27.7	43.2	41.0	33.3	26.1	13.7
2008–2012	6,796	10	249	1,031	2,337	1,952	841	303	73	8.0	1.7	8.3	27.8	42.3	39.7	31.0	26.9	13.4
2007–2011	6,590	9	238	1,038	2,290	1,798	843	303	71	8.0	1.6	8.5	28.2	41.2	41.4	31.9	27.8	13.6
2006–2010	6,271	8	241	997	2,213	1,655	801	288	68	7.8	1.6	8.3	28.2	40.2	41.0	31.5	27.9	13.4
2005–2009	5,982	7	221	981	2,123	1,531	785	277	57	7.6	1.5	8.4	28.2	39.3	42.1	31.6	24.2	13.4

Table 6. Age-specific number of deaths, 5-year annual moving average of age-specific death rates, and age-adjusted death rates¹ from liver cirrhosis with and without mention of alcohol by sex and Hispanic subgroup, United States, 2000–2023. (Continued)

Liver cirrhosis subcategory, sex, Hispanic subgroup, ² and year	Number of deaths, by age group									Deaths per 100,000 population, by age group								Age-adjusted deaths per 100,000 population
	All ³	0–24	25–34	35–44	45–54	55–64	65–74	75–84	85+	All	25–34	35–44	45–54	55–64	65–74	75–84	85+	
2004–2008	5,633	6	201	949	2,061	1,380	706	285	45	7.4	1.3	8.4	29.0	38.1	40.5	34.1	20.5	13.3
2003–2007	5,386	5	191	958	1,948	1,303	673	274	34	7.3	1.3	8.8	29.1	38.3	41.4	34.3	16.5	13.4
2002–2006	5,091	8	178	958	1,839	1,205	644	235	24	7.1	1.2	9.1	29.1	37.9	42.3	31.1	12.4	13.3
2001–2005	5,018	7	181	971	1,780	1,183	651	222	22	7.2	1.3	9.7	29.9	39.9	45.0	31.1	12.3	13.8
2000–2004	4,938	8	198	980	1,722	1,140	650	219	20	7.5	1.5	10.3	30.8	41.5	46.0	31.1	12.2	14.3
Puerto Rican-origin																		
2019–2023	1,132	—	28	86	251	406	255	86	20	7.9	1.3	4.2	15.2	29.9	31.2	25.5	18.1	9.0
2018–2022	1,122	—	30	69	241	406	270	89	17	7.8	1.4	3.4	14.6	30.7	34.4	27.5	15.9	9.1
2017–2021	1,071	—	26	71	231	393	253	83	14	7.6	1.2	3.6	14.3	30.9	33.6	26.7	13.6	9.0
2016–2020	999	—	22	68	208	383	224	77	17	7.1	1.0	3.5	13.0	31.3	31.8	26.1	17.9	8.7
2015–2019	949	—	18	59	206	344	230	75	17	6.8	0.8	3.1	12.8	29.2	34.3	25.9	19.6	8.6
2014–2018	932	—	13	65	214	341	220	66	13	6.8	0.6	3.5	13.5	30.4	34.6	24.1	16.2	8.7
2013–2017	907	—	11	72	218	330	202	62	12	6.8	0.5	4.0	14.2	30.7	33.9	23.6	16.9	8.9
2012–2016	877	—	10	66	225	326	185	55	10	6.8	0.5	3.8	14.9	31.9	32.9	22.3	15.2	8.9
2011–2015	877	1	6	64	233	327	186	51	9	6.9	0.3	3.8	15.8	33.2	35.2	21.5	15.2	9.2
2010–2014	838	1	5	56	229	321	171	46	9	6.8	0.3	3.4	16.0	34.3	34.2	21.0	16.6	9.2
2009–2013	787	1	6	53	215	311	148	46	7	6.7	0.3	3.4	15.6	35.4	33.1	22.0	11.8	9.1
2008–2012	766	1	4	52	203	317	143	40	6	6.8	0.2	3.5	15.4	39.2	34.5	21.3	8.9	9.5
2007–2011	738	1	4	50	199	295	143	40	6	6.9	0.2	3.5	16.0	39.5	37.2	21.9	8.9	9.8
2006–2010	713	—	4	57	191	283	136	37	5	7.0	0.3	4.2	16.7	40.9	37.9	21.6	7.5	10.1
2005–2009	683	—	5	59	196	257	124	38	4	7.0	0.3	4.4	18.3	38.6	36.7	23.9	6.4	10.2
2004–2008	667	—	4	61	195	236	128	39	4	7.1	0.3	4.6	19.0	36.9	35.9	27.6	7.6	10.3
2003–2007	670	—	4	68	213	220	116	45	4	7.2	0.3	5.2	21.2	35.6	33.5	33.9	9.4	10.7
2002–2006	677	—	4	75	221	228	104	41	4	7.5	0.3	5.7	22.5	37.6	31.4	35.0	10.4	11.1
2001–2005	659	—	5	77	229	202	106	37	3	7.5	0.4	5.9	23.9	35.6	32.8	34.4	8.3	11.2
2000–2004	708	1	4	90	245	223	107	36	2	8.5	0.3	7.3	26.8	42.2	34.4	33.2	5.7	12.4
Cuban-origin																		
2019–2023	357	—	7	16	73	129	83	40	9	5.8	0.8	1.8	7.9	15.5	17.1	13.9	7.5	4.7
2018–2022	362	—	6	18	76	135	82	37	8	6.0	0.7	2.2	8.3	17.0	17.5	12.9	6.5	4.9
2017–2021	350	—	7	14	76	130	85	28	10	5.9	0.8	1.7	8.3	17.1	18.8	9.9	8.3	4.8
2016–2020	322	—	6	14	62	121	83	26	10	5.5	0.7	1.7	6.7	17.0	18.9	9.2	8.5	4.6
2015–2019	289	—	4	10	57	105	75	26	12	5.0	0.5	1.3	6.2	15.3	17.5	9.5	10.5	4.2
2014–2018	287	—	2	12	57	102	80	23	11	5.2	0.3	1.6	6.3	15.9	19.5	8.5	10.1	4.3
2013–2017	264	—	2	12	49	92	71	28	10	4.9	0.3	1.6	5.5	15.3	17.9	10.7	9.5	4.2
2012–2016	240	—	1	13	46	76	65	32	7	4.6	0.1	1.7	5.4	13.4	17.0	12.7	6.9	4.0

Table 6. Age-specific number of deaths, 5-year annual moving average of age-specific death rates, and age-adjusted death rates¹ from liver cirrhosis with and without mention of alcohol by sex and Hispanic subgroup, United States, 2000–2023. (Continued)

Liver cirrhosis subcategory, sex, Hispanic subgroup, ² and year	Number of deaths, by age group									Deaths per 100,000 population, by age group								Age-adjusted deaths per 100,000 population
	All ³	0–24	25–34	35–44	45–54	55–64	65–74	75–84	85+	All	25–34	35–44	45–54	55–64	65–74	75–84	85+	
2011–2015	212	—	—	13	49	70	48	27	5	4.2	—	1.7	6.1	12.8	12.9	11.1	5.1	3.6
2010–2014	208	—	1	14	54	59	50	25	5	4.3	0.2	1.9	6.8	11.4	13.8	10.2	5.6	3.7
2009–2013	183	—	1	13	56	49	39	22	3	3.9	0.2	1.8	7.4	10.1	10.8	8.9	3.4	3.4
2008–2012	172	—	1	11	60	40	45	13	2	3.8	0.2	1.5	8.5	8.6	12.6	5.3	2.2	3.3
2007–2011	180	—	1	13	62	46	42	12	4	4.1	0.2	1.8	9.4	10.2	12.2	5.1	4.3	3.6
2006–2010	175	—	2	15	55	46	41	12	4	4.1	0.4	2.0	8.9	10.9	12.5	5.0	4.2	3.6
2005–2009	158	—	1	14	49	45	39	8	2	3.8	0.2	1.9	8.9	11.2	11.8	3.4	2.1	3.5
2004–2008	161	—	1	13	47	48	39	11	2	3.9	0.2	1.7	9.1	11.9	11.5	4.6	2.3	3.6
2003–2007	163	—	1	13	40	59	33	13	4	4.0	0.2	1.7	8.0	15.2	9.2	5.2	5.1	3.6
2002–2006	153	—	2	11	33	52	41	12	2	3.9	0.4	1.6	7.1	13.7	10.5	4.6	2.8	3.4
2001–2005	152	—	1	11	31	50	43	14	2	4.0	0.2	1.7	6.9	13.3	10.6	5.6	3.4	3.4
2000–2004	165	—	2	12	37	52	42	18	2	4.5	0.4	1.9	8.3	13.9	10.2	7.7	3.6	3.8
Other Hispanic ⁴																		
2019–2023	4,921	13	374	923	1,304	1,366	727	182	32	11.5	5.4	13.7	25.0	35.9	36.1	22.5	12.5	13.1
2018–2022	4,638	15	333	845	1,258	1,296	683	173	34	11.4	5.0	13.2	25.4	36.0	36.7	23.0	14.2	13.1
2017–2021	4,326	11	280	744	1,196	1,277	616	171	30	11.1	4.3	12.1	25.3	37.7	35.7	24.1	13.4	12.9
2016–2020	3,824	6	222	628	1,094	1,142	529	175	27	10.3	3.5	10.8	24.2	35.9	33.1	26.2	12.7	12.2
2015–2019	3,377	5	183	513	989	1,036	456	170	24	9.6	3.1	9.3	22.9	35.3	30.9	28.2	12.9	11.6
2014–2018	3,064	3	155	439	923	947	414	158	24	9.1	2.6	8.3	22.1	34.0	30.1	28.0	14.1	11.1
2013–2017	2,763	2	135	382	843	872	361	149	19	8.4	2.3	7.4	20.9	33.4	28.2	28.4	12.0	10.6
2012–2016	2,481	3	118	335	778	770	342	119	16	7.9	2.1	6.8	20.0	31.5	28.9	24.6	10.9	10.0
2011–2015	2,294	3	101	303	744	701	322	104	16	7.5	1.8	6.3	19.7	30.6	29.3	23.1	12.0	9.8
2010–2014	2,164	3	92	292	707	664	304	88	14	7.3	1.7	6.3	19.5	30.9	30.0	20.8	11.6	9.7
2009–2013	2,044	3	90	280	704	599	274	82	12	7.1	1.7	6.2	20.3	30.2	29.4	20.4	10.2	9.6
2008–2012	1,987	1	86	283	694	576	266	70	11	7.2	1.6	6.5	20.9	30.8	31.1	17.4	9.9	9.8
2007–2011	1,892	1	86	290	677	528	231	67	11	7.0	1.7	6.7	21.2	30.1	29.5	17.1	10.3	9.7
2006–2010	1,762	1	80	281	648	478	205	57	11	6.7	1.6	6.6	21.3	28.9	27.5	14.7	10.5	9.3
2005–2009	1,669	1	79	287	609	425	200	51	14	6.6	1.6	6.8	21.0	28.0	28.4	13.3	13.9	9.3
2004–2008	1,571	1	74	283	577	388	182	51	12	6.4	1.5	6.9	20.8	27.3	27.7	14.3	13.2	9.2
2003–2007	1,481	1	73	270	534	369	161	59	11	6.3	1.6	6.8	20.6	28.6	25.6	19.5	14.3	9.4
2002–2006	1,421	1	70	264	505	340	164	61	13	6.4	1.6	7.0	20.8	29.0	27.5	23.0	21.4	9.9
2001–2005	1,393	1	66	288	487	316	165	58	9	6.6	1.6	8.1	21.8	29.2	30.3	24.7	16.2	10.4
2000–2004	1,345	2	61	292	464	300	162	56	7	6.9	1.6	8.7	22.9	29.4	32.1	27.2	11.1	10.8

Table 6. Age-specific number of deaths, 5-year annual moving average of age-specific death rates, and age-adjusted death rates¹ from liver cirrhosis with and without mention of alcohol by sex and Hispanic subgroup, United States, 2000–2023. (Continued)

Liver cirrhosis subcategory, sex, Hispanic subgroup, ² and year	Number of deaths, by age group									Deaths per 100,000 population, by age group								Age-adjusted deaths per 100,000 population
	All ³	0–24	25–34	35–44	45–54	55–64	65–74	75–84	85+	All	25–34	35–44	45–54	55–64	65–74	75–84	85+	
Female																		
Mexican-origin																		
2019–2023	3,004	3	276	580	746	832	426	123	18	3.3	2.0	4.6	7.1	11.4	9.8	6.3	2.5	3.9
2018–2022	2,745	3	218	537	679	803	381	109	15	3.0	1.6	4.3	6.5	11.3	9.3	5.8	2.1	3.7
2017–2021	2,461	4	183	480	621	719	350	91	13	2.7	1.3	3.8	6.1	10.4	8.8	5.0	1.8	3.4
2016–2020	2,277	4	154	432	609	669	314	83	12	2.5	1.1	3.4	6.1	9.9	8.3	4.7	1.7	3.2
2015–2019	2,131	4	124	393	588	647	291	70	14	2.4	0.9	3.1	6.0	9.9	8.1	4.1	2.0	3.1
2014–2018	2,061	5	101	367	605	614	278	72	19	2.3	0.7	2.9	6.3	9.7	8.2	4.5	2.9	3.1
2013–2017	2,014	4	100	332	625	588	266	78	21	2.3	0.7	2.7	6.7	9.7	8.2	5.0	3.4	3.1
2012–2016	1,954	5	92	311	619	571	247	85	24	2.3	0.7	2.6	6.9	9.9	8.1	5.7	4.1	3.2
2011–2015	1,827	4	81	277	612	524	225	81	23	2.2	0.6	2.3	7.0	9.5	7.9	5.6	4.2	3.1
2010–2014	1,674	5	71	245	597	461	196	79	20	2.0	0.5	2.1	7.1	8.9	7.3	5.7	3.9	2.9
2009–2013	1,580	4	69	235	591	415	174	76	16	2.0	0.5	2.1	7.4	8.4	6.8	5.6	3.3	2.9
2008–2012	1,464	4	60	234	553	368	158	74	13	1.9	0.5	2.1	7.1	7.9	6.5	5.7	2.7	2.8
2007–2011	1,361	2	57	225	525	324	142	76	10	1.8	0.5	2.1	7.1	7.4	6.1	6.1	2.2	2.7
2006–2010	1,265	2	52	226	468	289	135	83	10	1.7	0.4	2.2	6.6	7.1	6.1	6.8	2.3	2.7
2005–2009	1,159	1	50	211	419	260	135	76	7	1.6	0.4	2.2	6.2	6.7	6.4	6.3	1.7	2.6
2004–2008	1,063	—	43	204	364	239	133	75	5	1.5	0.4	2.1	5.6	6.6	6.8	6.4	1.3	2.5
2003–2007	1,018	—	44	199	319	231	147	73	5	1.5	0.4	2.2	5.1	6.8	7.9	6.3	1.4	2.5
2002–2006	961	—	36	196	296	213	151	62	7	1.5	0.3	2.2	5.0	6.5	8.5	5.5	2.1	2.5
2001–2005	895	—	34	187	280	184	145	60	5	1.4	0.3	2.2	5.0	6.0	8.4	5.8	1.5	2.4
2000–2004	859	—	28	196	263	176	134	56	6	1.4	0.3	2.4	5.0	6.1	7.9	5.8	1.9	2.4
Puerto Rican-origin																		
2019–2023	394	—	18	58	118	122	61	17	—	2.7	0.8	2.9	6.8	8.3	6.1	3.3	—	2.8
2018–2022	362	—	15	49	109	114	56	19	—	2.5	0.7	2.5	6.4	7.9	5.8	3.9	—	2.6
2017–2021	329	—	15	41	104	97	54	16	2	2.3	0.7	2.1	6.2	6.9	5.8	3.4	1.1	2.4
2016–2020	317	—	11	38	97	93	58	18	2	2.2	0.5	2.0	5.9	6.8	6.6	4.0	1.2	2.4
2015–2019	301	—	10	46	86	87	53	16	3	2.1	0.5	2.4	5.2	6.6	6.3	3.8	1.9	2.3
2014–2018	322	—	12	48	96	94	49	19	4	2.3	0.6	2.5	5.9	7.4	6.2	4.8	2.8	2.6
2013–2017	306	—	13	46	97	80	49	17	4	2.3	0.6	2.5	6.1	6.6	6.5	4.6	2.9	2.6
2012–2016	301	—	9	51	92	90	41	16	2	2.3	0.5	2.8	5.9	7.8	5.8	4.7	1.6	2.6
2011–2015	283	—	10	42	87	93	33	16	2	2.2	0.5	2.4	5.7	8.4	5.0	4.9	1.7	2.5
2010–2014	265	—	11	30	91	89	28	15	1	2.1	0.6	1.7	6.1	8.3	4.6	4.8	0.9	2.4
2009–2013	223	—	9	24	75	79	21	14	1	1.8	0.5	1.4	5.2	7.9	3.8	4.8	0.8	2.2
2008–2012	217	—	5	23	69	84	22	13	1	1.9	0.3	1.4	5.0	9.0	4.3	4.7	0.8	2.2

Table 6. Age-specific number of deaths, 5-year annual moving average of age-specific death rates, and age-adjusted death rates¹ from liver cirrhosis with and without mention of alcohol by sex and Hispanic subgroup, United States, 2000–2023. (Continued)

Liver cirrhosis subcategory, sex, Hispanic subgroup, ² and year	Number of deaths, by age group									Deaths per 100,000 population, by age group								Age-adjusted deaths per 100,000 population
	All ³	0–24	25–34	35–44	45–54	55–64	65–74	75–84	85+	All	25–34	35–44	45–54	55–64	65–74	75–84	85+	
2007–2011	191	1	5	15	66	70	21	12	1	1.7	0.3	0.9	5.0	7.8	4.4	4.5	0.8	2.0
2006–2010	176	1	3	17	64	60	21	8	2	1.6	0.2	1.1	5.1	7.1	4.5	3.2	1.6	2.0
2005–2009	155	1	1	19	49	55	19	9	2	1.5	0.1	1.3	4.0	7.0	4.2	3.8	1.8	1.9
2004–2008	161	1	1	23	51	52	23	9	1	1.6	0.1	1.6	4.3	6.7	5.0	4.1	1.1	2.0
2003–2007	151	1	1	23	45	49	21	10	1	1.5	0.1	1.6	4.0	6.6	4.7	4.8	1.3	1.9
2002–2006	149	—	1	21	43	52	19	12	1	1.6	0.1	1.5	4.0	7.4	4.3	6.4	1.5	2.0
2001–2005	155	—	2	19	43	56	20	14	1	1.7	0.1	1.4	4.1	8.3	4.6	8.0	1.6	2.2
2000–2004	155	—	2	22	46	53	18	13	1	1.7	0.1	1.6	4.7	8.3	4.3	7.5	1.8	2.3
Cuban-origin																		
2019–2023	77	—	2	9	21	21	17	5	2	1.3	0.2	1.2	2.7	2.7	3.1	1.3	0.9	1.1
2018–2022	71	—	2	4	21	23	17	4	—	1.2	0.2	0.5	2.6	3.0	3.2	1.0	—	1.0
2017–2021	63	—	1	4	16	21	18	3	—	1.1	0.1	0.6	2.0	2.9	3.4	0.8	—	0.9
2016–2020	65	—	3	3	16	22	18	3	—	1.1	0.4	0.4	2.0	3.2	3.5	0.8	—	0.9
2015–2019	65	—	3	5	15	24	15	3	—	1.2	0.4	0.7	1.8	3.6	3.0	0.8	—	1.0
2014–2018	73	—	4	7	18	22	17	5	—	1.3	0.5	1.0	2.2	3.5	3.5	1.3	—	1.1
2013–2017	69	—	5	8	15	20	13	8	—	1.3	0.7	1.2	1.9	3.4	2.8	2.2	—	1.1
2012–2016	63	—	4	8	14	20	8	8	1	1.2	0.6	1.2	1.8	3.5	1.8	2.3	0.5	1.1
2011–2015	51	—	3	7	13	14	6	7	1	1.0	0.5	1.0	1.7	2.6	1.4	2.0	0.6	0.9
2010–2014	40	—	3	4	12	9	5	6	1	0.8	0.5	0.6	1.6	1.7	1.2	1.8	0.6	0.7
2009–2013	28	—	2	3	9	7	3	3	1	0.6	0.3	0.5	1.3	1.4	0.7	0.9	0.7	0.5
2008–2012	27	—	2	2	15	3	4	—	1	0.6	0.4	0.3	2.4	0.6	1.0	—	0.7	0.5
2007–2011	28	—	2	2	14	3	6	1	—	0.6	0.4	0.3	2.4	0.7	1.5	0.3	—	0.6
2006–2010	26	—	1	2	15	2	5	1	—	0.6	0.2	0.3	2.8	0.5	1.3	0.3	—	0.6
2005–2009	25	—	1	2	12	2	6	2	—	0.6	0.2	0.3	2.5	0.5	1.6	0.6	—	0.6
2004–2008	23	—	1	1	11	3	5	2	—	0.6	0.2	0.2	2.5	0.7	1.4	0.6	—	0.6
2003–2007	21	—	—	3	4	5	6	2	1	0.5	—	0.5	0.9	1.2	1.6	0.7	0.6	0.5
2002–2006	16	—	—	2	2	4	6	1	1	0.4	—	0.3	0.5	0.9	1.5	0.3	0.6	0.3
2001–2005	18	—	—	2	—	6	6	3	1	0.5	—	0.4	—	1.3	1.5	1.0	0.6	0.3
2000–2004	18	—	—	2	1	6	6	2	1	0.5	—	0.4	0.2	1.4	1.4	0.7	0.6	0.3
Other Hispanic ⁴																		
2019–2023	1,569	4	133	324	398	419	205	63	23	3.6	2.1	5.1	7.4	9.8	7.7	5.1	4.8	3.8
2018–2022	1,447	3	123	292	372	407	176	58	16	3.5	2.0	4.8	7.2	10.0	6.9	5.0	3.5	3.6
2017–2021	1,349	2	105	253	366	398	156	56	13	3.4	1.8	4.3	7.3	10.2	6.6	5.1	2.9	3.5
2016–2020	1,216	1	88	223	351	354	133	50	16	3.2	1.5	3.9	7.3	9.5	6.0	4.8	3.8	3.3
2015–2019	1,053	2	72	183	316	309	114	44	13	3.0	1.3	3.4	6.8	8.8	5.6	4.5	3.3	3.1

Table 6. Age-specific number of deaths, 5-year annual moving average of age-specific death rates, and age-adjusted death rates¹ from liver cirrhosis with and without mention of alcohol by sex and Hispanic subgroup, United States, 2000–2023. (Continued)

Liver cirrhosis subcategory, sex, Hispanic subgroup, ² and year	Number of deaths, by age group									Deaths per 100,000 population, by age group								Age-adjusted deaths per 100,000 population
	All ³	0–24	25–34	35–44	45–54	55–64	65–74	75–84	85+	All	25–34	35–44	45–54	55–64	65–74	75–84	85+	
2014–2018	943	3	68	159	293	284	90	38	8	2.7	1.3	3.1	6.5	8.5	4.8	4.1	2.1	2.8
2013–2017	840	3	59	145	277	228	84	35	9	2.5	1.1	2.9	6.4	7.2	4.8	4.0	2.6	2.7
2012–2016	739	3	50	128	244	188	86	31	9	2.3	1.0	2.6	5.8	6.3	5.3	3.7	2.8	2.5
2011–2015	643	3	42	110	219	155	81	29	4	2.1	0.8	2.3	5.3	5.5	5.3	3.7	1.3	2.2
2010–2014	596	4	34	96	215	139	75	29	4	2.0	0.7	2.1	5.4	5.2	5.3	3.9	1.4	2.2
2009–2013	558	2	30	92	202	125	77	26	4	1.9	0.6	2.1	5.2	5.0	5.9	3.7	1.5	2.2
2008–2012	555	2	26	103	201	120	73	25	5	2.0	0.6	2.4	5.4	5.1	6.0	3.7	1.8	2.2
2007–2011	523	2	24	92	195	116	67	23	4	2.0	0.6	2.2	5.5	5.3	5.8	3.5	1.5	2.2
2006–2010	486	2	22	87	182	104	62	23	4	1.9	0.5	2.1	5.4	5.1	5.7	3.7	1.5	2.2
2005–2009	459	—	19	93	169	97	59	19	3	1.9	0.5	2.3	5.4	5.1	5.7	3.3	1.2	2.1
2004–2008	409	—	16	89	145	87	49	21	2	1.7	0.4	2.2	4.8	4.8	4.8	4.0	0.9	2.0
2003–2007	358	—	16	71	121	79	48	22	1	1.6	0.4	1.9	4.2	4.8	4.9	4.7	0.6	1.9
2002–2006	330	—	15	76	108	69	38	23	1	1.5	0.4	2.0	4.0	4.7	4.2	5.5	0.7	1.9
2001–2005	320	—	12	80	96	71	38	22	1	1.5	0.3	2.2	3.8	5.3	4.5	5.6	1.0	1.9
2000–2004	297	—	11	78	79	68	35	25	1	1.5	0.3	2.2	3.4	5.4	4.4	6.5	1.0	1.9
All other cirrhosis ⁵																		
Both sexes																		
Mexican-origin																		
2019–2023	12,598	26	209	818	1,785	3,335	3,454	2,174	797	6.8	0.7	3.1	8.2	22.6	41.7	62.6	68.1	10.3
2018–2022	11,953	32	187	743	1,752	3,188	3,331	1,989	731	6.5	0.7	2.8	8.2	22.3	42.4	59.4	63.6	10.1
2017–2021	11,151	32	150	672	1,695	2,979	3,094	1,870	659	6.1	0.5	2.6	8.1	21.4	41.2	57.9	58.1	9.7
2016–2020	10,439	32	126	581	1,629	2,800	2,860	1,775	636	5.7	0.4	2.2	7.9	20.8	40.1	57.1	56.9	9.4
2015–2019	9,956	32	116	519	1,655	2,672	2,675	1,695	592	5.4	0.4	2.0	8.2	20.4	39.3	56.9	54.6	9.3
2014–2018	9,638	30	112	503	1,687	2,648	2,500	1,621	537	5.3	0.4	1.9	8.5	21.1	38.8	56.8	52.2	9.3
2013–2017	9,247	27	102	502	1,678	2,589	2,277	1,560	512	5.2	0.4	2.0	8.7	21.5	37.4	57.3	52.4	9.3
2012–2016	8,957	26	108	502	1,693	2,544	2,113	1,505	466	5.1	0.4	2.0	9.1	22.2	36.9	57.3	50.5	9.3
2011–2015	8,637	27	108	484	1,738	2,443	2,011	1,404	421	5.0	0.4	1.9	9.7	22.4	37.6	55.5	48.6	9.4
2010–2014	8,077	24	102	482	1,694	2,277	1,824	1,290	383	4.7	0.4	2.0	9.8	22.1	36.4	52.9	47.2	9.1
2009–2013	7,679	24	109	472	1,648	2,121	1,703	1,245	356	4.6	0.4	2.0	9.9	21.6	35.7	52.8	45.7	9.0
2008–2012	7,274	24	115	473	1,593	1,956	1,601	1,185	326	4.4	0.4	2.0	9.9	21.1	35.1	52.2	43.7	8.9
2007–2011	6,780	23	113	475	1,504	1,754	1,514	1,104	292	4.3	0.4	2.1	9.7	20.1	34.8	50.4	41.2	8.7
2006–2010	6,338	22	107	506	1,418	1,565	1,399	1,042	277	4.1	0.4	2.3	9.5	19.0	33.6	48.8	41.3	8.4
2005–2009	6,181	30	107	520	1,365	1,528	1,363	1,010	256	4.1	0.4	2.4	9.5	19.7	34.4	48.4	39.9	8.5
2004–2008	5,870	40	99	528	1,330	1,391	1,303	964	213	4.0	0.4	2.5	9.8	19.2	35.1	47.9	35.4	8.5
2003–2007	5,649	37	100	533	1,286	1,300	1,270	928	193	4.0	0.4	2.7	10.0	19.1	36.5	47.4	34.2	8.6

Table 6. Age-specific number of deaths, 5-year annual moving average of age-specific death rates, and age-adjusted death rates¹ from liver cirrhosis with and without mention of alcohol by sex and Hispanic subgroup, United States, 2000–2023. (Continued)

Liver cirrhosis subcategory, sex, Hispanic subgroup, ² and year	Number of deaths, by age group									Deaths per 100,000 population, by age group								Age-adjusted deaths per 100,000 population
	All ³	0–24	25–34	35–44	45–54	55–64	65–74	75–84	85+	All	25–34	35–44	45–54	55–64	65–74	75–84	85+	
2002–2006	5,610	43	109	559	1,285	1,257	1,257	906	192	4.1	0.4	2.9	10.5	19.5	38.1	48.2	36.1	8.9
2001–2005	5,508	44	112	562	1,256	1,229	1,266	867	172	4.2	0.4	3.0	10.9	20.3	40.0	49.4	34.3	9.2
2000–2004	5,261	37	106	538	1,217	1,123	1,253	822	165	4.2	0.4	3.0	11.2	19.9	40.4	49.3	34.0	9.2
Puerto Rican-origin																		
2019–2023	1,930	6	22	99	239	477	593	382	112	6.7	0.5	2.5	7.1	16.9	32.6	45.0	37.3	7.7
2018–2022	1,886	4	20	96	231	483	568	373	111	6.5	0.5	2.4	6.9	17.4	32.6	46.1	38.0	7.7
2017–2021	1,774	4	20	90	229	461	515	344	111	6.2	0.5	2.3	7.0	17.2	30.7	44.2	39.9	7.5
2016–2020	1,687	3	17	80	217	464	486	324	96	6.0	0.4	2.1	6.7	17.9	30.7	43.8	36.8	7.4
2015–2019	1,607	1	17	59	214	479	459	293	85	5.7	0.4	1.5	6.5	19.1	30.4	41.1	34.7	7.2
2014–2018	1,582	2	10	59	234	476	439	286	76	5.8	0.2	1.6	7.3	20.0	30.7	42.7	33.6	7.5
2013–2017	1,508	2	6	57	251	454	403	260	75	5.6	0.1	1.6	8.0	19.9	30.0	41.2	35.9	7.5
2012–2016	1,500	2	5	51	271	465	406	235	65	5.7	0.1	1.4	8.8	21.3	32.0	39.8	33.6	7.7
2011–2015	1,467	5	4	57	288	446	387	217	63	5.7	0.1	1.6	9.6	21.3	32.7	38.3	35.0	7.9
2010–2014	1,409	5	3	65	290	414	367	206	59	5.6	0.1	1.9	9.9	20.7	33.0	38.8	34.7	7.9
2009–2013	1,342	5	8	61	280	402	323	198	65	5.6	0.2	1.9	9.9	21.5	32.2	39.3	35.9	8.0
2008–2012	1,298	5	8	66	270	388	323	181	57	5.6	0.2	2.1	10.0	22.2	34.9	38.8	29.8	8.2
2007–2011	1,229	6	10	70	264	350	296	177	56	5.6	0.3	2.3	10.3	21.2	34.2	39.3	28.8	8.1
2006–2010	1,162	4	11	64	266	326	278	162	51	5.6	0.3	2.2	11.0	21.2	33.6	38.5	27.0	8.1
2005–2009	1,156	5	11	63	298	316	256	163	44	5.8	0.4	2.3	13.0	21.7	32.3	41.4	25.3	8.5
2004–2008	1,168	5	9	73	309	309	266	163	34	6.0	0.3	2.6	14.0	21.9	32.7	45.0	23.5	8.8
2003–2007	1,176	4	11	75	319	305	271	164	27	6.2	0.4	2.7	15.0	22.3	34.0	48.0	22.7	9.2
2002–2006	1,195	5	10	88	336	310	268	154	24	6.4	0.3	3.2	16.4	23.6	34.6	50.5	22.6	9.8
2001–2005	1,214	4	12	116	344	298	267	154	19	6.7	0.4	4.3	17.2	24.1	35.1	54.7	19.5	10.3
2000–2004	1,191	3	15	135	317	290	262	146	23	6.9	0.5	5.2	16.7	24.8	35.8	52.0	25.1	10.4
Cuban-origin																		
2019–2023	668	1	2	11	41	136	154	214	109	5.5	0.1	0.7	2.4	8.4	14.9	31.4	32.3	4.1
2018–2022	653	—	3	11	46	139	145	209	100	5.5	0.2	0.7	2.7	8.9	14.4	30.7	29.2	4.1
2017–2021	632	—	3	11	51	122	149	198	98	5.4	0.2	0.7	3.0	8.2	15.3	29.1	29.4	4.0
2016–2020	595	—	2	12	54	115	139	189	84	5.1	0.1	0.8	3.1	8.2	14.6	27.9	25.6	3.9
2015–2019	564	—	1	11	57	113	123	175	84	5.0	0.1	0.7	3.3	8.3	13.3	26.3	26.4	3.8
2014–2018	574	—	1	11	60	114	125	181	82	5.2	0.1	0.7	3.5	9.0	14.0	27.9	26.7	4.0
2013–2017	567	—	1	10	58	114	128	173	83	5.3	0.1	0.7	3.5	9.5	14.9	27.5	28.1	4.1
2012–2016	561	—	3	10	58	111	120	176	83	5.4	0.2	0.7	3.6	9.8	14.4	29.1	29.2	4.2
2011–2015	567	—	3	8	62	105	128	172	89	5.7	0.2	0.6	4.0	9.7	15.8	29.2	33.4	4.4
2010–2014	555	—	3	7	64	98	128	162	93	5.7	0.2	0.5	4.2	9.5	16.1	27.8	37.4	4.4
2009–2013	528	—	3	5	57	91	130	154	88	5.6	0.3	0.4	3.9	9.3	16.4	26.0	36.9	4.3

Table 6. Age-specific number of deaths, 5-year annual moving average of age-specific death rates, and age-adjusted death rates¹ from liver cirrhosis with and without mention of alcohol by sex and Hispanic subgroup, United States, 2000–2023. (Continued)

Liver cirrhosis subcategory, sex, Hispanic subgroup, ² and year	Number of deaths, by age group									Deaths per 100,000 population, by age group								Age-adjusted deaths per 100,000 population
	All ³	0–24	25–34	35–44	45–54	55–64	65–74	75–84	85+	All	25–34	35–44	45–54	55–64	65–74	75–84	85+	
2008–2012	546	—	4	8	61	85	137	174	77	6.0	0.4	0.6	4.5	9.1	17.6	29.0	34.2	4.5
2007–2011	527	1	3	10	59	77	141	166	70	6.0	0.3	0.7	4.7	8.6	18.8	28.6	31.8	4.6
2006–2010	489	1	4	10	51	81	130	149	63	5.7	0.4	0.7	4.4	9.5	18.2	25.9	28.4	4.4
2005–2009	474	1	4	10	45	73	137	151	53	5.7	0.4	0.7	4.4	9.0	19.5	26.4	22.8	4.4
2004–2008	457	1	4	12	49	66	127	151	47	5.6	0.4	0.9	5.1	8.1	18.1	26.8	20.2	4.3
2003–2007	445	1	4	12	48	62	124	148	46	5.6	0.4	0.9	5.2	7.6	16.9	26.6	19.6	4.2
2002–2006	456	—	4	10	48	68	124	159	43	5.9	0.4	0.8	5.5	8.2	15.7	28.6	18.2	4.2
2001–2005	476	—	3	11	47	76	135	165	39	6.4	0.3	0.9	5.5	9.2	16.4	30.4	17.6	4.5
2000–2004	475	1	3	17	42	77	139	157	39	6.6	0.4	1.5	4.9	9.5	16.7	29.5	18.5	4.5
Other Hispanic ⁴																		
2019–2023	4,758	17	101	320	619	1,113	1,339	924	325	5.5	0.8	2.4	5.9	13.7	28.5	45.0	44.0	7.1
2018–2022	4,565	13	88	298	594	1,115	1,237	914	306	5.6	0.7	2.4	5.9	14.5	28.2	47.6	43.9	7.2
2017–2021	4,207	7	89	253	571	1,043	1,111	844	289	5.4	0.7	2.1	5.9	14.3	27.1	46.9	43.4	7.1
2016–2020	3,829	6	72	232	501	961	1,010	790	257	5.1	0.6	2.0	5.4	13.9	26.6	46.3	40.5	6.8
2015–2019	3,512	2	63	195	486	887	912	715	252	5.0	0.6	1.8	5.4	13.8	26.0	45.2	43.4	6.7
2014–2018	3,244	2	59	176	483	831	836	621	236	4.8	0.5	1.7	5.6	13.5	25.6	41.6	43.4	6.5
2013–2017	2,911	2	53	162	487	754	726	525	202	4.4	0.5	1.6	5.8	13.0	23.9	37.4	39.9	6.1
2012–2016	2,655	3	42	155	469	686	649	469	182	4.2	0.4	1.6	5.8	12.6	23.0	35.5	39.0	5.9
2011–2015	2,482	5	42	148	482	634	598	415	158	4.0	0.4	1.6	6.1	12.4	22.7	33.5	36.5	5.8
2010–2014	2,265	8	41	134	459	571	527	388	137	3.8	0.4	1.5	6.0	11.8	21.6	33.4	34.5	5.6
2009–2013	2,085	11	32	128	422	529	458	376	129	3.6	0.3	1.4	5.8	11.8	20.4	34.1	33.4	5.5
2008–2012	1,973	10	33	132	384	486	442	365	121	3.6	0.3	1.5	5.5	11.6	21.3	33.7	31.4	5.5
2007–2011	1,888	11	30	131	384	454	398	373	107	3.5	0.3	1.5	5.7	11.5	20.6	35.3	28.1	5.5
2006–2010	1,812	11	26	126	363	427	368	386	105	3.5	0.3	1.5	5.7	11.5	20.0	38.1	28.0	5.5
2005–2009	1,739	9	26	139	351	396	358	362	97	3.5	0.3	1.7	5.8	11.6	20.6	37.6	27.2	5.6
2004–2008	1,697	8	23	143	349	373	367	342	91	3.5	0.3	1.8	6.0	11.6	21.9	38.6	29.2	5.8
2003–2007	1,612	9	26	137	347	351	335	331	75	3.5	0.3	1.8	6.4	11.9	20.9	43.1	29.4	6.0
2002–2006	1,547	10	29	146	317	329	346	297	72	3.5	0.4	2.0	6.2	12.5	23.0	43.7	36.4	6.3
2001–2005	1,490	8	24	158	317	306	348	260	68	3.6	0.3	2.2	6.7	12.7	25.2	41.3	43.4	6.6
2000–2004	1,484	8	29	156	323	291	357	254	66	3.8	0.4	2.3	7.4	12.7	27.5	42.9	40.9	6.9
Male																		
Mexican-origin																		
2019–2023	6,541	15	156	570	1,219	1,997	1,546	768	270	6.9	1.0	4.2	11.0	26.8	39.1	50.5	60.9	10.4
2018–2022	6,246	17	132	514	1,211	1,926	1,491	710	245	6.6	0.9	3.8	11.1	26.7	39.9	48.7	56.6	10.3
2017–2021	5,902	16	100	465	1,193	1,813	1,397	687	231	6.3	0.7	3.4	11.1	25.9	39.3	49.0	53.9	10.1

Table 6. Age-specific number of deaths, 5-year annual moving average of age-specific death rates, and age-adjusted death rates¹ from liver cirrhosis with and without mention of alcohol by sex and Hispanic subgroup, United States, 2000–2023. (Continued)

Liver cirrhosis subcategory, sex, Hispanic subgroup, ² and year	Number of deaths, by age group									Deaths per 100,000 population, by age group								Age-adjusted deaths per 100,000 population
	All ³	0–24	25–34	35–44	45–54	55–64	65–74	75–84	85+	All	25–34	35–44	45–54	55–64	65–74	75–84	85+	
2016–2020	5,524	16	85	401	1,158	1,711	1,268	661	224	5.9	0.6	3.0	11.0	25.5	37.7	48.8	53.7	9.8
2015–2019	5,291	15	84	360	1,183	1,621	1,186	612	230	5.7	0.6	2.7	11.4	24.8	36.8	47.6	57.5	9.7
2014–2018	5,135	14	75	348	1,207	1,622	1,090	572	207	5.6	0.5	2.6	11.9	25.9	35.9	46.3	55.1	9.7
2013–2017	4,939	11	73	354	1,197	1,585	989	535	195	5.4	0.5	2.7	12.1	26.5	34.7	45.6	54.1	9.6
2012–2016	4,768	10	78	363	1,201	1,540	907	506	163	5.3	0.5	2.8	12.6	27.0	34.0	44.7	47.8	9.6
2011–2015	4,616	11	80	358	1,235	1,472	841	474	144	5.2	0.5	2.8	13.3	27.2	33.7	43.6	45.1	9.6
2010–2014	4,358	9	77	360	1,194	1,382	758	459	118	5.0	0.5	2.8	13.4	27.1	32.6	44.0	39.6	9.4
2009–2013	4,153	9	88	361	1,162	1,269	720	434	109	4.8	0.6	2.9	13.4	26.0	32.6	43.0	37.9	9.3
2008–2012	3,973	11	93	365	1,137	1,167	684	413	102	4.7	0.6	2.9	13.5	25.3	32.3	42.2	37.5	9.2
2007–2011	3,738	11	93	375	1,080	1,050	650	387	91	4.5	0.6	3.1	13.3	24.0	31.9	40.8	35.6	9.0
2006–2010	3,539	13	85	402	1,024	949	607	368	89	4.4	0.6	3.3	13.1	23.0	31.1	40.3	36.6	8.8
2005–2009	3,501	17	80	405	1,005	933	613	363	83	4.5	0.5	3.4	13.4	24.0	32.9	41.4	35.3	9.1
2004–2008	3,370	22	73	412	986	865	580	356	74	4.4	0.5	3.6	13.9	23.9	33.3	42.6	33.7	9.3
2003–2007	3,238	20	73	415	948	816	549	351	64	4.4	0.5	3.8	14.2	24.0	33.8	43.9	31.1	9.4
2002–2006	3,248	24	75	430	962	787	548	358	62	4.5	0.5	4.1	15.2	24.8	36.0	47.4	32.0	10.0
2001–2005	3,213	23	80	426	954	765	554	359	52	4.6	0.6	4.2	16.0	25.8	38.3	50.3	29.2	10.4
2000–2004	3,054	19	78	418	919	699	540	327	54	4.6	0.6	4.4	16.5	25.4	38.2	46.4	32.9	10.4
Puerto Rican-origin																		
2019–2023	1,019	3	13	55	162	276	315	150	45	7.1	0.6	2.7	9.8	20.3	38.5	44.4	40.8	8.8
2018–2022	1,013	3	9	52	166	286	307	148	42	7.1	0.4	2.6	10.1	21.6	39.1	45.7	39.4	9.0
2017–2021	966	3	10	45	164	283	285	134	42	6.8	0.5	2.3	10.1	22.2	37.9	43.1	40.7	8.8
2016–2020	944	2	8	41	158	302	274	120	39	6.8	0.4	2.1	9.8	24.7	38.9	40.7	41.0	8.9
2015–2019	916	1	9	30	152	315	259	115	35	6.6	0.4	1.6	9.5	26.8	38.6	39.8	40.3	8.9
2014–2018	943	1	4	36	170	331	257	116	28	6.9	0.2	1.9	10.7	29.5	40.4	42.4	34.8	9.5
2013–2017	916	1	4	34	188	320	232	109	28	6.9	0.2	1.9	12.2	29.7	39.0	41.5	39.3	9.6
2012–2016	922	1	3	34	202	326	225	108	23	7.1	0.2	2.0	13.4	31.9	40.0	43.7	34.9	10.1
2011–2015	910	3	2	40	219	314	210	100	22	7.2	0.1	2.4	14.8	31.8	39.7	42.2	37.2	10.3
2010–2014	888	3	1	46	224	300	204	90	20	7.2	0.1	2.8	15.7	32.1	40.8	41.0	36.8	10.5
2009–2013	835	3	3	40	220	285	176	84	24	7.1	0.2	2.6	15.9	32.4	39.3	40.2	40.5	10.5
2008–2012	798	3	4	47	203	276	170	76	19	7.1	0.2	3.1	15.4	34.1	41.1	40.5	28.1	10.6
2007–2011	758	4	3	50	204	248	157	74	18	7.0	0.2	3.5	16.4	33.2	40.9	40.5	26.8	10.7
2006–2010	721	3	3	45	208	229	145	70	18	7.1	0.2	3.3	18.2	33.1	40.4	40.9	27.1	10.8
2005–2009	737	4	4	45	241	222	133	74	14	7.6	0.3	3.4	22.5	33.3	39.3	46.5	22.5	11.6
2004–2008	743	5	4	54	242	215	142	71	10	7.9	0.3	4.1	23.6	33.6	39.8	50.3	18.9	12.0
2003–2007	742	4	3	58	250	209	141	70	7	8.0	0.2	4.4	24.8	33.8	40.7	52.7	16.4	12.4
2002–2006	766	4	3	67	265	216	139	64	8	8.4	0.2	5.1	27.0	35.6	42.0	54.6	20.7	13.2

Table 6. Age-specific number of deaths, 5-year annual moving average of age-specific death rates, and age-adjusted death rates¹ from liver cirrhosis with and without mention of alcohol by sex and Hispanic subgroup, United States, 2000–2023. (Continued)

Liver cirrhosis subcategory, sex, Hispanic subgroup, ² and year	Number of deaths, by age group									Deaths per 100,000 population, by age group								Age-adjusted deaths per 100,000 population
	All ³	0–24	25–34	35–44	45–54	55–64	65–74	75–84	85+	All	25–34	35–44	45–54	55–64	65–74	75–84	85+	
2001–2005	784	3	5	87	266	209	143	66	5	8.9	0.4	6.7	27.7	36.8	44.2	61.4	13.8	14.0
2000–2004	752	2	8	104	242	195	137	58	6	9.0	0.6	8.4	26.5	36.9	44.1	53.5	17.2	13.8
Cuban-origin																		
2019–2023	349	1	1	5	29	87	87	94	45	5.7	0.1	0.6	3.2	10.4	17.9	32.6	37.3	4.7
2018–2022	351	—	2	5	35	84	84	100	41	5.8	0.2	0.6	3.8	10.6	17.9	34.9	33.3	4.8
2017–2021	348	—	2	4	39	74	93	95	41	5.9	0.2	0.5	4.2	9.7	20.6	33.5	34.0	4.9
2016–2020	334	—	1	6	41	71	86	90	39	5.7	0.1	0.7	4.5	10.0	19.6	32.0	33.1	4.9
2015–2019	319	—	1	6	43	70	74	86	39	5.6	0.1	0.8	4.6	10.2	17.3	31.4	34.0	4.7
2014–2018	323	—	1	8	43	71	73	90	37	5.8	0.1	1.0	4.7	11.1	17.8	33.1	33.9	5.0
2013–2017	308	—	—	7	39	74	69	82	37	5.7	—	0.9	4.4	12.3	17.4	31.3	35.3	4.9
2012–2016	303	—	1	9	40	77	58	82	36	5.9	0.1	1.2	4.7	13.5	15.2	32.6	35.3	5.0
2011–2015	310	—	1	8	44	76	65	80	36	6.2	0.2	1.1	5.4	13.9	17.5	32.8	36.9	5.3
2010–2014	303	—	1	7	47	72	67	73	36	6.2	0.2	0.9	5.9	13.9	18.5	29.8	40.3	5.4
2009–2013	288	—	1	5	43	66	70	69	34	6.1	0.2	0.7	5.7	13.6	19.3	28.0	38.3	5.2
2008–2012	303	—	3	7	47	66	77	74	29	6.7	0.5	1.0	6.7	14.2	21.6	30.1	31.8	5.6
2007–2011	295	1	3	9	45	57	85	69	26	6.7	0.5	1.2	6.8	12.7	24.6	29.2	28.0	5.7
2006–2010	272	1	4	9	39	58	78	61	22	6.3	0.7	1.2	6.3	13.8	23.7	25.6	23.2	5.4
2005–2009	257	1	4	9	33	51	81	60	18	6.2	0.7	1.2	6.0	12.7	24.5	25.1	18.7	5.3
2004–2008	253	1	4	11	36	49	74	62	16	6.1	0.7	1.5	6.9	12.2	21.8	25.8	18.2	5.2
2003–2007	252	1	4	11	36	45	72	65	18	6.2	0.8	1.5	7.2	11.6	20.1	25.9	23.0	5.2
2002–2006	249	—	4	8	35	50	67	68	17	6.3	0.8	1.1	7.5	13.2	17.2	26.0	23.5	5.1
2001–2005	260	—	3	8	33	59	72	70	15	6.8	0.6	1.2	7.3	15.7	17.7	28.0	25.5	5.4
2000–2004	260	1	3	12	31	59	74	65	15	7.1	0.6	1.9	7.0	15.7	17.9	27.8	27.0	5.6
Other Hispanic ⁴																		
2019–2023	2,279	9	72	225	385	612	554	318	104	5.3	1.0	3.3	7.4	16.1	27.5	39.4	40.6	7.3
2018–2022	2,184	5	58	210	378	615	506	309	103	5.4	0.9	3.3	7.6	17.1	27.2	41.0	43.1	7.5
2017–2021	2,036	—	54	179	377	568	472	287	99	5.2	0.8	2.9	8.0	16.8	27.3	40.5	44.2	7.4
2016–2020	1,856	—	39	162	332	536	432	269	86	5.0	0.6	2.8	7.3	16.8	27.1	40.3	40.4	7.2
2015–2019	1,693	—	31	136	319	478	384	251	94	4.8	0.5	2.5	7.4	16.3	26.0	41.6	50.6	7.3
2014–2018	1,567	—	25	127	324	454	346	208	83	4.6	0.4	2.4	7.8	16.3	25.1	36.9	48.9	7.0
2013–2017	1,431	—	26	114	326	420	305	171	69	4.4	0.5	2.2	8.1	16.1	23.8	32.6	43.7	6.6
2012–2016	1,318	1	22	112	305	403	268	150	57	4.2	0.4	2.3	7.8	16.5	22.6	31.0	38.9	6.4
2011–2015	1,262	4	26	107	319	379	247	133	47	4.1	0.5	2.2	8.5	16.6	22.5	29.6	35.2	6.4
2010–2014	1,192	6	28	102	307	360	228	127	34	4.0	0.5	2.2	8.5	16.7	22.5	30.0	28.2	6.3
2009–2013	1,099	8	25	96	287	329	202	116	36	3.8	0.5	2.1	8.3	16.6	21.7	28.8	30.6	6.2
2008–2012	1,031	8	25	103	261	296	187	116	35	3.7	0.5	2.4	7.8	15.8	21.9	28.8	31.6	6.1

Table 6. Age-specific number of deaths, 5-year annual moving average of age-specific death rates, and age-adjusted death rates¹ from liver cirrhosis with and without mention of alcohol by sex and Hispanic subgroup, United States, 2000–2023. (Continued)

Liver cirrhosis subcategory, sex, Hispanic subgroup, ² and year	Number of deaths, by age group									Deaths per 100,000 population, by age group								Age-adjusted deaths per 100,000 population
	All ³	0–24	25–34	35–44	45–54	55–64	65–74	75–84	85+	All	25–34	35–44	45–54	55–64	65–74	75–84	85+	
2007–2011	999	9	24	100	266	275	173	120	32	3.7	0.5	2.3	8.3	15.7	22.1	30.6	29.8	6.3
2006–2010	935	8	21	95	249	253	155	119	35	3.6	0.4	2.2	8.2	15.3	20.8	30.6	33.6	6.1
2005–2009	891	7	21	102	240	243	142	106	29	3.5	0.4	2.4	8.3	16.0	20.2	27.7	28.8	6.0
2004–2008	889	6	19	105	246	233	142	111	26	3.6	0.4	2.5	8.9	16.4	21.6	31.1	28.7	6.4
2003–2007	868	7	23	99	254	220	133	111	20	3.7	0.5	2.5	9.8	17.1	21.2	36.6	25.9	6.7
2002–2006	831	5	23	105	234	202	136	109	16	3.8	0.5	2.8	9.6	17.2	22.8	41.1	26.4	7.1
2001–2005	832	3	19	116	243	189	147	99	15	4.0	0.4	3.2	10.9	17.5	27.0	42.1	27.1	7.7
2000–2004	828	2	21	113	253	168	153	100	18	4.2	0.5	3.4	12.5	16.5	30.3	48.6	28.5	8.4
Female																		
Mexican-origin																		
2019–2023	6,057	11	53	248	566	1,338	1,908	1,406	527	6.6	0.4	2.0	5.4	18.3	44.1	72.1	72.5	10.0
2018–2022	5,707	15	55	229	541	1,262	1,840	1,279	486	6.3	0.4	1.8	5.2	17.8	44.7	67.7	67.9	9.7
2017–2021	5,249	16	50	207	502	1,166	1,697	1,183	428	5.8	0.4	1.6	4.9	16.8	42.9	64.8	60.7	9.1
2016–2020	4,915	16	41	180	471	1,089	1,592	1,114	412	5.5	0.3	1.4	4.7	16.2	42.2	63.5	58.9	8.9
2015–2019	4,665	17	32	159	472	1,051	1,489	1,083	362	5.2	0.2	1.3	4.8	16.0	41.5	64.1	52.9	8.7
2014–2018	4,503	16	37	155	480	1,026	1,410	1,049	330	5.1	0.3	1.2	5.0	16.3	41.4	64.9	50.5	8.8
2013–2017	4,308	16	29	148	481	1,004	1,288	1,025	317	4.9	0.2	1.2	5.2	16.6	39.9	66.1	51.4	8.8
2012–2016	4,189	16	30	139	492	1,004	1,206	999	303	4.9	0.2	1.1	5.5	17.4	39.6	66.9	52.1	8.9
2011–2015	4,021	16	28	126	503	971	1,170	930	277	4.8	0.2	1.1	5.8	17.7	40.9	64.3	50.6	8.9
2010–2014	3,719	15	25	122	500	895	1,066	831	265	4.5	0.2	1.0	6.0	17.2	39.6	59.5	51.6	8.6
2009–2013	3,526	15	21	111	486	852	983	811	247	4.4	0.2	1.0	6.0	17.3	38.4	60.2	50.3	8.5
2008–2012	3,301	13	22	108	456	789	917	772	224	4.2	0.2	1.0	5.9	16.9	37.5	59.7	47.3	8.4
2007–2011	3,042	12	20	100	424	704	864	717	201	4.0	0.2	0.9	5.7	16.1	37.2	57.7	44.4	8.1
2006–2010	2,799	9	22	104	394	616	792	674	188	3.8	0.2	1.0	5.5	15.0	35.9	55.3	44.1	7.8
2005–2009	2,680	13	27	115	360	595	750	647	173	3.8	0.2	1.2	5.3	15.4	35.7	53.5	42.5	7.7
2004–2008	2,500	18	26	116	344	526	723	608	139	3.6	0.2	1.2	5.3	14.6	36.7	51.6	36.3	7.5
2003–2007	2,411	17	27	118	338	484	721	577	129	3.6	0.2	1.3	5.5	14.2	38.8	49.8	36.0	7.6
2002–2006	2,362	19	34	129	323	470	709	548	130	3.6	0.3	1.4	5.5	14.5	39.8	48.8	38.4	7.7
2001–2005	2,295	21	32	136	302	464	712	508	120	3.6	0.3	1.6	5.4	15.1	41.4	48.8	37.2	7.9
2000–2004	2,207	18	28	120	298	424	713	495	111	3.7	0.3	1.5	5.6	14.7	42.3	51.4	34.6	8.0
Puerto Rican-origin																		
2019–2023	911	3	9	44	77	201	278	232	67	6.3	0.4	2.2	4.5	13.7	27.7	45.4	35.3	6.6
2018–2022	873	1	11	44	65	197	261	225	69	6.0	0.5	2.2	3.8	13.6	27.2	46.4	37.2	6.6
2017–2021	808	1	10	45	65	178	230	210	69	5.6	0.5	2.3	3.9	12.7	24.9	44.9	39.4	6.3
2016–2020	743	1	9	39	59	162	212	204	57	5.3	0.4	2.0	3.6	11.9	24.1	45.9	34.4	6.1

Table 6. Age-specific number of deaths, 5-year annual moving average of age-specific death rates, and age-adjusted death rates¹ from liver cirrhosis with and without mention of alcohol by sex and Hispanic subgroup, United States, 2000–2023. (Continued)

Liver cirrhosis subcategory, sex, Hispanic subgroup, ² and year	Number of deaths, by age group									Deaths per 100,000 population, by age group								Age-adjusted deaths per 100,000 population
	All ³	0–24	25–34	35–44	45–54	55–64	65–74	75–84	85+	All	25–34	35–44	45–54	55–64	65–74	75–84	85+	
2015–2019	691	—	8	29	62	164	200	178	50	4.9	0.4	1.5	3.7	12.4	23.8	42.0	31.7	5.8
2014–2018	639	1	6	23	64	145	182	170	48	4.6	0.3	1.2	3.9	11.5	22.9	42.9	33.0	5.7
2013–2017	592	1	2	23	63	134	171	151	47	4.4	0.1	1.2	3.9	11.1	22.8	41.0	34.1	5.6
2012–2016	578	1	2	17	69	139	181	127	42	4.4	0.1	0.9	4.4	12.0	25.7	37.0	32.9	5.7
2011–2015	557	2	2	17	69	132	177	117	41	4.3	0.1	1.0	4.5	11.9	27.0	35.5	34.0	5.7
2010–2014	521	2	2	19	66	114	163	116	39	4.1	0.1	1.1	4.4	10.7	26.6	37.2	33.7	5.7
2009–2013	507	2	5	21	60	117	147	114	41	4.2	0.3	1.3	4.2	11.8	26.4	38.7	33.6	5.8
2008–2012	500	2	4	19	67	112	153	105	38	4.3	0.2	1.2	4.8	11.9	30.0	37.7	30.7	6.1
2007–2011	471	2	7	20	60	102	139	103	38	4.2	0.4	1.3	4.5	11.3	28.9	38.5	29.8	6.0
2006–2010	441	1	8	19	58	97	133	92	33	4.1	0.5	1.3	4.6	11.5	28.5	36.9	27.0	5.8
2005–2009	419	1	7	18	57	94	123	89	30	4.1	0.5	1.2	4.7	11.9	27.1	38.0	26.8	5.8
2004–2008	425	—	5	19	67	94	124	92	24	4.3	0.3	1.3	5.7	12.1	27.1	41.6	26.1	6.1
2003–2007	434	—	8	17	69	96	130	94	20	4.4	0.5	1.2	6.2	12.9	28.8	45.0	26.2	6.5
2002–2006	429	1	7	21	71	94	129	90	16	4.5	0.5	1.5	6.6	13.3	29.1	47.9	23.7	6.8
2001–2005	430	1	7	29	78	89	124	88	14	4.6	0.5	2.1	7.5	13.3	28.3	50.5	22.9	7.1
2000–2004	439	1	7	31	75	95	125	88	17	4.9	0.5	2.3	7.6	14.8	29.7	51.1	30.0	7.5
Cuban-origin																		
2019–2023	319	—	1	6	12	49	67	120	64	5.3	0.1	0.8	1.5	6.2	12.2	30.5	29.6	3.5
2018–2022	302	—	1	6	11	55	61	109	59	5.1	0.1	0.8	1.4	7.2	11.4	27.7	27.0	3.4
2017–2021	284	—	1	7	12	48	56	103	57	4.9	0.1	1.0	1.5	6.6	10.7	26.0	26.8	3.2
2016–2020	261	—	1	6	13	44	53	99	45	4.5	0.1	0.8	1.6	6.3	10.3	25.0	21.4	3.1
2015–2019	245	—	—	5	14	43	49	89	45	4.3	—	0.7	1.7	6.4	9.9	22.7	22.1	2.9
2014–2018	251	—	—	3	17	43	52	91	45	4.6	—	0.4	2.1	6.8	10.8	24.2	22.7	3.1
2013–2017	259	—	1	3	19	40	59	91	46	4.9	0.1	0.4	2.4	6.7	12.8	24.9	24.1	3.3
2012–2016	258	—	2	1	18	34	62	94	47	5.0	0.3	0.1	2.3	6.0	13.7	26.5	25.8	3.4
2011–2015	257	—	2	—	18	29	63	92	53	5.1	0.3	—	2.4	5.4	14.3	26.7	31.4	3.5
2010–2014	252	—	2	—	17	26	61	89	57	5.2	0.3	—	2.3	5.1	14.0	26.3	35.8	3.5
2009–2013	240	—	2	—	14	25	60	85	54	5.1	0.3	—	2.0	5.1	14.0	24.6	36.0	3.3
2008–2012	243	—	1	1	14	19	60	100	48	5.3	0.2	0.2	2.2	4.1	14.3	28.2	35.9	3.5
2007–2011	232	—	—	1	14	20	56	97	44	5.3	—	0.2	2.4	4.5	13.8	28.1	34.6	3.4
2006–2010	217	—	—	1	12	23	52	88	41	5.1	—	0.2	2.3	5.3	13.5	26.1	32.2	3.4
2005–2009	217	—	—	1	12	22	56	91	35	5.3	—	0.2	2.5	5.3	15.1	27.3	25.6	3.5
2004–2008	204	—	—	1	13	17	53	89	31	5.1	—	0.2	2.9	4.1	14.6	27.5	21.3	3.3
2003–2007	193	—	—	1	12	17	52	83	28	4.9	—	0.2	2.8	4.0	13.8	27.2	17.9	3.2
2002–2006	207	—	—	2	13	18	57	91	26	5.4	—	0.3	3.2	4.0	14.2	30.8	15.8	3.4
2001–2005	216	—	—	3	14	17	63	95	24	5.9	—	0.5	3.4	3.8	15.2	32.6	14.7	3.6

Table 6. Age-specific number of deaths, 5-year annual moving average of age-specific death rates, and age-adjusted death rates¹ from liver cirrhosis with and without mention of alcohol by sex and Hispanic subgroup, United States, 2000–2023. (Continued)

Liver cirrhosis subcategory, sex, Hispanic subgroup, ² and year	Number of deaths, by age group									Deaths per 100,000 population, by age group								Age-adjusted deaths per 100,000 population
	All ³	0–24	25–34	35–44	45–54	55–64	65–74	75–84	85+	All	25–34	35–44	45–54	55–64	65–74	75–84	85+	
2000–2004	215	—	—	5	11	18	65	92	24	6.1	—	1.0	2.6	4.1	15.5	30.9	15.5	3.5
Other Hispanic ⁴																		
2019–2023	2,479	8	29	95	234	501	785	606	221	5.7	0.4	1.5	4.4	11.7	29.3	48.6	45.9	6.8
2018–2022	2,381	8	30	88	216	500	731	605	203	5.8	0.5	1.4	4.2	12.2	28.9	51.9	44.4	6.9
2017–2021	2,171	7	35	74	194	475	639	557	190	5.5	0.6	1.3	3.9	12.1	27.0	51.1	43.1	6.6
2016–2020	1,973	6	33	70	169	425	578	521	171	5.2	0.6	1.2	3.5	11.4	26.3	50.1	40.6	6.4
2015–2019	1,819	2	32	59	167	409	528	464	158	5.1	0.6	1.1	3.6	11.7	26.0	47.4	39.9	6.2
2014–2018	1,677	2	34	49	159	377	490	413	153	4.9	0.6	0.9	3.5	11.2	25.9	44.4	40.9	6.0
2013–2017	1,480	2	27	48	161	334	421	354	133	4.5	0.5	1.0	3.7	10.5	24.0	40.2	38.1	5.6
2012–2016	1,337	2	20	43	164	283	381	319	125	4.2	0.4	0.9	3.9	9.5	23.3	38.2	39.0	5.4
2011–2015	1,220	1	16	41	163	255	351	282	111	3.9	0.3	0.9	4.0	9.0	22.9	35.8	37.1	5.2
2010–2014	1,073	2	13	32	152	211	299	261	103	3.6	0.3	0.7	3.8	7.9	21.0	35.3	37.2	4.9
2009–2013	986	3	7	32	135	200	256	260	93	3.4	0.2	0.7	3.5	8.0	19.5	37.2	34.6	4.8
2008–2012	942	2	8	29	123	190	255	249	86	3.4	0.2	0.7	3.3	8.1	20.9	36.5	31.3	4.8
2007–2011	889	2	6	31	118	179	225	253	75	3.3	0.1	0.7	3.4	8.1	19.6	38.1	27.5	4.7
2006–2010	877	3	5	31	114	174	213	267	70	3.4	0.1	0.7	3.4	8.5	19.5	42.7	25.8	4.9
2005–2009	848	2	5	37	111	153	216	256	68	3.5	0.1	0.9	3.5	8.0	20.8	44.3	26.5	5.1
2004–2008	808	2	4	38	103	140	225	231	65	3.4	0.1	1.0	3.4	7.8	22.1	43.7	29.4	5.2
2003–2007	744	2	3	38	93	131	202	220	55	3.3	0.1	1.0	3.3	8.0	20.7	47.3	31.0	5.3
2002–2006	716	5	6	41	83	127	210	188	56	3.3	0.2	1.1	3.0	8.7	23.2	45.3	40.8	5.6
2001–2005	658	5	5	42	74	117	201	161	53	3.2	0.1	1.2	2.9	8.8	24.0	40.8	52.3	5.6
2000–2004	656	6	8	43	70	123	204	154	48	3.3	0.2	1.2	3.0	9.7	25.8	39.8	49.0	5.8

— No deaths in this table cell.

¹ Rates per 100,000 population computed by the direct standardization method, using year 2000 total population of the United States as the standard age distribution.

² Includes all races and excludes deaths for which Hispanic origin was unknown.

³ Includes deaths for which age of decedent was unknown; age-specific numbers of deaths may not sum to total.

⁴ Includes Central and South American and Other and unknown Hispanic subgroups.

⁵ Includes specified and unspecified liver cirrhosis without mention of alcohol.

Table 7. Number of deaths and 3-year annual moving average of age-adjusted death rates¹ from liver cirrhosis with and without mention of alcohol, States, Census Regions, and the United States, 2000–2023.

State or other geographic area and year	All cirrhosis		Alcohol-related cirrhosis		All other cirrhosis ²		Percent alcohol related
	Number of deaths	Age-adjusted deaths per 100,000 population	Number of deaths	Age-adjusted deaths per 100,000 population	Number of deaths	Age-adjusted deaths per 100,000 population	
Alabama							
2021–2023.....	3,155	16.9	1,091	6.2	2,064	10.6	34.6
2020–2022.....	3,150	17.0	1,138	6.5	2,012	10.4	36.1
2019–2021.....	2,993	16.2	1,078	6.2	1,915	10.0	36.0
2018–2020.....	2,675	14.6	912	5.3	1,763	9.3	34.1
2017–2019.....	2,456	13.6	781	4.6	1,675	9.0	31.8
2016–2018.....	2,402	13.4	765	4.5	1,637	9.0	31.8
2015–2017.....	2,344	13.3	721	4.3	1,623	9.0	30.8
2014–2016.....	2,260	13.0	668	4.0	1,592	9.0	29.6
2013–2015.....	2,047	11.9	571	3.4	1,476	8.5	27.9
2012–2014.....	1,944	11.4	526	3.1	1,418	8.2	27.1
2011–2013.....	1,807	10.7	477	2.8	1,330	7.8	26.4
2010–2012.....	1,729	10.4	488	2.9	1,241	7.5	28.2
2009–2011.....	1,606	9.8	459	2.8	1,147	7.0	28.6
2008–2010.....	1,536	9.5	451	2.8	1,085	6.7	29.4
2007–2009.....	1,527	9.6	436	2.8	1,091	6.9	28.6
2006–2008.....	1,506	9.6	437	2.8	1,069	6.8	29.0
2005–2007.....	1,489	9.8	446	2.9	1,043	6.8	30.0
2004–2006.....	1,460	9.8	431	2.9	1,029	6.9	29.5
2003–2005.....	1,413	9.7	411	2.8	1,002	6.9	29.1
2002–2004.....	1,356	9.5	385	2.7	971	6.8	28.4
2001–2003.....	1,321	9.4	375	2.7	946	6.7	28.4
2000–2002.....	1,291	9.3	392	2.8	899	6.5	30.4
Alaska							
2021–2023.....	587	25.2	452	19.6	135	5.6	77.0
2020–2022.....	562	24.4	442	19.4	120	5.0	78.6
2019–2021.....	487	21.3	380	16.8	107	4.5	78.0
2018–2020.....	413	18.1	316	14.0	97	4.1	76.5
2017–2019.....	366	15.7	270	11.7	96	4.0	73.8
2016–2018.....	376	16.0	282	12.1	94	3.9	75.0
2015–2017.....	368	15.8	272	11.6	96	4.2	73.9
2014–2016.....	328	14.3	242	10.3	86	4.1	73.8
2013–2015.....	290	12.8	208	8.7	82	4.2	71.7
2012–2014.....	267	12.0	185	7.8	82	4.2	69.3
2011–2013.....	285	13.0	185	7.9	100	5.1	64.9
2010–2012.....	275	12.7	175	7.6	100	5.1	63.6
2009–2011.....	280	13.1	183	8.1	97	5.0	65.4
2008–2010.....	239	11.7	157	7.1	82	4.7	65.7
2007–2009.....	232	12.0	153	7.0	79	5.0	65.9
2006–2008.....	182	9.6	114	5.4	68	4.3	62.6
2005–2007.....	172	9.4	111	5.5	61	3.9	64.5
2004–2006.....	152	8.4	95	4.9	57	3.4	62.5
2003–2005.....	164	9.5	106	5.8	58	3.7	64.6
2002–2004.....	167	9.7	107	5.9	60	3.8	64.1
2001–2003.....	174	10.4	114	6.5	60	4.0	65.5
2000–2002.....	160	10.1	106	6.0	54	4.0	66.3
Arizona							
2021–2023.....	5,081	19.7	2,860	11.8	2,221	7.9	56.3
2020–2022.....	5,070	20.0	2,902	12.2	2,168	7.8	57.2
2019–2021.....	4,767	18.9	2,807	11.8	1,960	7.1	58.9

Table 7. Number of deaths and 3-year annual moving average of age-adjusted death rates¹ from liver cirrhosis with and without mention of alcohol, States, Census Regions, and the United States, 2000–2023. (Continued)

State or other geographic area and year	All cirrhosis		Alcohol-related cirrhosis		All other cirrhosis ²		Percent alcohol related
	Number of deaths	Age-adjusted deaths per 100,000 population	Number of deaths	Age-adjusted deaths per 100,000 population	Number of deaths	Age-adjusted deaths per 100,000 population	
2018–2020.....	4,145	16.5	2,407	10.0	1,738	6.5	58.1
2017–2019.....	3,825	15.4	2,273	9.6	1,552	5.8	59.4
2016–2018.....	3,765	15.5	2,352	10.1	1,413	5.4	62.5
2015–2017.....	3,729	15.8	2,500	11.0	1,229	4.8	67.0
2014–2016.....	3,633	15.7	2,511	11.2	1,122	4.5	69.1
2013–2015.....	3,503	15.5	2,424	11.1	1,079	4.5	69.2
2012–2014.....	3,316	15.0	2,247	10.4	1,069	4.6	67.8
2011–2013.....	3,161	14.6	2,122	10.0	1,039	4.6	67.1
2010–2012.....	2,925	13.8	1,977	9.4	948	4.4	67.6
2009–2011.....	2,724	13.2	1,798	8.8	926	4.4	66.0
2008–2010.....	2,547	12.7	1,664	8.4	883	4.3	65.3
2007–2009.....	2,418	12.4	1,494	7.7	924	4.6	61.8
2006–2008.....	2,300	12.1	1,394	7.4	906	4.7	60.6
2005–2007.....	2,259	12.3	1,296	7.1	963	5.2	57.4
2004–2006.....	2,158	12.1	1,211	6.9	947	5.3	56.1
2003–2005.....	2,081	12.2	1,122	6.6	959	5.5	53.9
2002–2004.....	1,992	12.1	1,011	6.2	981	5.9	50.8
2001–2003.....	1,996	12.5	911	5.8	1,085	6.7	45.6
2000–2002.....	2,005	12.9	887	5.8	1,118	7.1	44.2
Arkansas							
2021–2023.....	1,967	17.8	740	7.2	1,227	10.6	37.6
2020–2022.....	1,890	17.2	728	7.1	1,162	10.1	38.5
2019–2021.....	1,741	15.9	727	7.1	1,014	8.8	41.8
2018–2020.....	1,548	14.3	687	6.8	861	7.5	44.4
2017–2019.....	1,395	12.9	619	6.1	776	6.8	44.4
2016–2018.....	1,336	12.5	586	5.7	750	6.8	43.9
2015–2017.....	1,297	12.3	528	5.2	769	7.1	40.7
2014–2016.....	1,252	11.9	477	4.7	775	7.2	38.1
2013–2015.....	1,164	11.1	388	3.8	776	7.3	33.3
2012–2014.....	1,061	10.2	321	3.2	740	7.0	30.3
2011–2013.....	1,013	9.9	309	3.1	704	6.8	30.5
2010–2012.....	996	9.8	308	3.1	688	6.7	30.9
2009–2011.....	929	9.3	308	3.2	621	6.2	33.2
2008–2010.....	854	8.8	304	3.2	550	5.6	35.6
2007–2009.....	798	8.3	294	3.1	504	5.2	36.8
2006–2008.....	798	8.5	279	3.0	519	5.5	35.0
2005–2007.....	774	8.3	240	2.6	534	5.7	31.0
2004–2006.....	732	8.1	220	2.5	512	5.6	30.1
2003–2005.....	689	7.7	214	2.4	475	5.3	31.1
2002–2004.....	684	7.8	212	2.5	472	5.4	31.0
2001–2003.....	688	8.0	236	2.8	452	5.2	34.3
2000–2002.....	695	8.2	227	2.7	468	5.4	32.7
California							
2021–2023.....	21,188	15.8	14,306	10.8	6,882	4.9	67.5
2020–2022.....	20,835	15.6	14,218	10.8	6,617	4.8	68.2
2019–2021.....	19,726	14.7	13,471	10.2	6,255	4.6	68.3
2018–2020.....	17,971	13.5	12,151	9.2	5,820	4.3	67.6
2017–2019.....	17,035	12.8	11,538	8.7	5,497	4.1	67.7
2016–2018.....	16,706	12.8	11,402	8.7	5,304	4.0	68.3
2015–2017.....	16,671	12.9	11,463	8.9	5,208	4.1	68.8

Table 7. Number of deaths and 3-year annual moving average of age-adjusted death rates¹ from liver cirrhosis with and without mention of alcohol, States, Census Regions, and the United States, 2000–2023. (Continued)

State or other geographic area and year	All cirrhosis		Alcohol-related cirrhosis		All other cirrhosis ²		Percent alcohol related
	Number of deaths	Age-adjusted deaths per 100,000 population	Number of deaths	Age-adjusted deaths per 100,000 population	Number of deaths	Age-adjusted deaths per 100,000 population	
2014–2016.....	16,325	12.9	11,257	8.8	5,068	4.0	69.0
2013–2015.....	15,768	12.7	10,875	8.7	4,893	4.0	69.0
2012–2014.....	15,003	12.3	10,295	8.4	4,708	3.9	68.6
2011–2013.....	14,536	12.2	10,037	8.3	4,499	3.9	69.0
2010–2012.....	13,968	11.9	9,759	8.2	4,209	3.7	69.9
2009–2011.....	13,527	11.8	9,527	8.2	4,000	3.6	70.4
2008–2010.....	13,064	11.6	9,242	8.1	3,822	3.5	70.7
2007–2009.....	12,811	11.7	9,023	8.1	3,788	3.6	70.4
2006–2008.....	12,357	11.5	8,650	7.9	3,707	3.6	70.0
2005–2007.....	12,006	11.4	8,317	7.8	3,689	3.6	69.3
2004–2006.....	11,627	11.3	7,964	7.6	3,663	3.7	68.5
2003–2005.....	11,599	11.5	7,857	7.7	3,742	3.8	67.7
2002–2004.....	11,513	11.6	7,667	7.6	3,846	4.0	66.6
2001–2003.....	11,474	11.9	7,639	7.8	3,835	4.1	66.6
2000–2002.....	11,293	11.9	7,502	7.8	3,791	4.1	66.4
Colorado							
2021–2023.....	3,904	19.9	2,728	14.1	1,176	5.8	69.9
2020–2022.....	3,828	19.7	2,699	14.0	1,129	5.7	70.5
2019–2021.....	3,550	18.4	2,498	13.0	1,052	5.3	70.4
2018–2020.....	3,132	16.3	2,174	11.4	958	4.9	69.4
2017–2019.....	2,831	14.9	1,948	10.3	883	4.6	68.8
2016–2018.....	2,608	14.0	1,792	9.6	816	4.4	68.7
2015–2017.....	2,492	13.6	1,684	9.2	808	4.5	67.6
2014–2016.....	2,363	13.2	1,548	8.6	815	4.6	65.5
2013–2015.....	2,306	13.2	1,437	8.1	869	5.1	62.3
2012–2014.....	2,224	13.0	1,362	7.8	862	5.2	61.2
2011–2013.....	2,133	12.8	1,287	7.6	846	5.2	60.3
2010–2012.....	2,005	12.2	1,261	7.5	744	4.7	62.9
2009–2011.....	1,880	11.8	1,219	7.5	661	4.3	64.8
2008–2010.....	1,747	11.2	1,160	7.2	587	4.0	66.4
2007–2009.....	1,690	11.2	1,095	7.0	595	4.2	64.8
2006–2008.....	1,598	10.9	981	6.4	617	4.5	61.4
2005–2007.....	1,484	10.5	868	5.8	616	4.6	58.5
2004–2006.....	1,366	10.0	790	5.5	576	4.4	57.8
2003–2005.....	1,305	9.8	781	5.6	524	4.1	59.8
2002–2004.....	1,274	9.9	795	5.9	479	4.0	62.4
2001–2003.....	1,259	10.0	788	6.0	471	4.0	62.6
2000–2002.....	1,271	10.4	798	6.3	473	4.1	62.8
Connecticut							
2021–2023.....	1,682	12.4	884	6.8	798	5.6	52.6
2020–2022.....	1,693	12.6	907	7.1	786	5.5	53.6
2019–2021.....	1,567	11.5	814	6.2	753	5.3	51.9
2018–2020.....	1,362	10.0	672	5.1	690	4.9	49.3
2017–2019.....	1,223	8.9	564	4.2	659	4.7	46.1
2016–2018.....	1,194	8.8	545	4.2	649	4.6	45.6
2015–2017.....	1,201	9.0	573	4.4	628	4.5	47.7
2014–2016.....	1,170	8.8	547	4.2	623	4.6	46.8
2013–2015.....	1,118	8.5	498	3.9	620	4.6	44.5
2012–2014.....	1,090	8.4	430	3.4	660	5.0	39.4
2011–2013.....	1,033	8.0	372	2.9	661	5.1	36.0

Table 7. Number of deaths and 3-year annual moving average of age-adjusted death rates¹ from liver cirrhosis with and without mention of alcohol, States, Census Regions, and the United States, 2000–2023. (Continued)

State or other geographic area and year	All cirrhosis		Alcohol-related cirrhosis		All other cirrhosis ²		Percent alcohol related
	Number of deaths	Age-adjusted deaths per 100,000 population	Number of deaths	Age-adjusted deaths per 100,000 population	Number of deaths	Age-adjusted deaths per 100,000 population	
2010–2012.....	1,006	7.9	337	2.7	669	5.2	33.5
2009–2011.....	974	7.8	358	2.9	616	4.9	36.8
2008–2010.....	946	7.6	380	3.1	566	4.5	40.2
2007–2009.....	930	7.6	387	3.2	543	4.4	41.6
2006–2008.....	896	7.5	357	3.0	539	4.5	39.8
2005–2007.....	877	7.4	317	2.7	560	4.7	36.1
2004–2006.....	883	7.6	310	2.6	573	4.9	35.1
2003–2005.....	932	8.1	305	2.6	627	5.4	32.7
2002–2004.....	967	8.5	308	2.7	659	5.8	31.9
2001–2003.....	959	8.5	282	2.5	677	6.0	29.4
2000–2002.....	973	8.8	292	2.7	681	6.1	30.0
Delaware							
2021–2023.....	504	12.3	222	5.7	282	6.6	44.0
2020–2022.....	487	12.0	206	5.4	281	6.7	42.3
2019–2021.....	431	10.9	167	4.5	264	6.4	38.7
2018–2020.....	393	10.0	139	3.9	254	6.2	35.4
2017–2019.....	349	9.2	123	3.6	226	5.7	35.2
2016–2018.....	323	8.7	113	3.3	210	5.4	35.0
2015–2017.....	320	9.0	115	3.5	205	5.5	35.9
2014–2016.....	323	9.0	116	3.4	207	5.7	35.9
2013–2015.....	309	8.9	110	3.2	199	5.7	35.6
2012–2014.....	272	8.0	99	2.9	173	5.0	36.4
2011–2013.....	256	7.8	87	2.7	169	5.1	34.0
2010–2012.....	268	8.3	90	2.8	178	5.5	33.6
2009–2011.....	288	9.1	97	3.1	191	6.0	33.7
2008–2010.....	283	9.1	106	3.4	177	5.7	37.5
2007–2009.....	259	8.7	108	3.6	151	5.1	41.7
2006–2008.....	239	8.3	104	3.6	135	4.7	43.5
2005–2007.....	215	7.7	93	3.3	122	4.4	43.3
2004–2006.....	222	8.1	88	3.2	134	4.9	39.6
2003–2005.....	248	9.3	91	3.4	157	6.0	36.7
2002–2004.....	269	10.4	104	4.0	165	6.4	38.7
2001–2003.....	266	10.6	111	4.4	155	6.2	41.7
2000–2002.....	236	9.6	107	4.4	129	5.3	45.3
District of Columbia							
2021–2023.....	189	9.3	124	6.1	65	3.1	65.6
2020–2022.....	198	9.8	115	5.7	83	4.1	58.1
2019–2021.....	198	9.5	108	5.2	90	4.4	54.5
2018–2020.....	189	9.0	100	4.8	89	4.2	52.9
2017–2019.....	179	8.4	103	4.8	76	3.6	57.5
2016–2018.....	166	7.9	103	4.9	63	2.9	62.0
2015–2017.....	169	8.0	101	4.8	68	3.3	59.8
2014–2016.....	167	8.1	105	5.0	62	3.1	62.9
2013–2015.....	166	8.3	103	5.0	63	3.3	62.0
2012–2014.....	156	8.0	105	5.2	51	2.8	67.3
2011–2013.....	149	7.8	92	4.7	57	3.1	61.7
2010–2012.....	153	8.1	96	5.0	57	3.1	62.7
2009–2011.....	146	8.0	84	4.5	62	3.4	57.5
2008–2010.....	155	8.6	94	5.2	61	3.4	60.6
2007–2009.....	145	8.2	81	4.5	64	3.7	55.9

Table 7. Number of deaths and 3-year annual moving average of age-adjusted death rates¹ from liver cirrhosis with and without mention of alcohol, States, Census Regions, and the United States, 2000–2023. (Continued)

State or other geographic area and year	All cirrhosis		Alcohol-related cirrhosis		All other cirrhosis ²		Percent alcohol related
	Number of deaths	Age-adjusted deaths per 100,000 population	Number of deaths	Age-adjusted deaths per 100,000 population	Number of deaths	Age-adjusted deaths per 100,000 population	
2006–2008.....	153	8.8	92	5.2	61	3.6	60.1
2005–2007.....	167	9.7	102	5.9	65	3.8	61.1
2004–2006.....	193	11.3	125	7.3	68	4.0	64.8
2003–2005.....	189	11.0	129	7.5	60	3.5	68.3
2002–2004.....	213	12.5	147	8.6	66	3.9	69.0
2001–2003.....	205	12.0	147	8.6	58	3.4	71.7
2000–2002.....	211	12.5	139	8.2	72	4.3	65.9
Florida							
2021–2023.....	12,015	13.4	6,142	7.3	5,873	6.2	51.1
2020–2022.....	12,152	13.9	6,358	7.6	5,794	6.2	52.3
2019–2021.....	11,517	13.3	6,016	7.3	5,501	6.0	52.2
2018–2020.....	10,859	12.6	5,696	7.0	5,163	5.7	52.5
2017–2019.....	10,150	11.9	5,196	6.4	4,954	5.5	51.2
2016–2018.....	10,093	12.1	5,214	6.6	4,879	5.6	51.7
2015–2017.....	9,762	12.0	5,010	6.5	4,752	5.6	51.3
2014–2016.....	9,663	12.2	4,918	6.5	4,745	5.7	50.9
2013–2015.....	9,048	11.8	4,467	6.1	4,581	5.7	49.4
2012–2014.....	8,514	11.4	4,055	5.6	4,459	5.7	47.6
2011–2013.....	8,030	11.0	3,724	5.3	4,306	5.7	46.4
2010–2012.....	7,816	10.9	3,579	5.2	4,237	5.7	45.8
2009–2011.....	7,580	10.8	3,447	5.1	4,133	5.7	45.5
2008–2010.....	7,310	10.6	3,316	4.9	3,994	5.7	45.4
2007–2009.....	7,093	10.5	3,255	5.0	3,838	5.6	45.9
2006–2008.....	6,898	10.5	3,168	5.0	3,730	5.5	45.9
2005–2007.....	6,700	10.4	3,002	4.8	3,698	5.6	44.8
2004–2006.....	6,546	10.4	2,808	4.6	3,738	5.8	42.9
2003–2005.....	6,612	10.8	2,712	4.6	3,900	6.2	41.0
2002–2004.....	6,628	11.2	2,672	4.7	3,956	6.5	40.3
2001–2003.....	6,522	11.3	2,634	4.8	3,888	6.5	40.4
2000–2002.....	6,343	11.3	2,578	4.8	3,765	6.5	40.6
Georgia							
2021–2023.....	5,093	13.6	2,155	5.9	2,938	7.8	42.3
2020–2022.....	5,029	13.7	2,150	6.0	2,879	7.7	42.8
2019–2021.....	4,651	12.7	2,015	5.6	2,636	7.1	43.3
2018–2020.....	4,151	11.5	1,726	4.8	2,425	6.7	41.6
2017–2019.....	3,797	10.6	1,521	4.2	2,276	6.4	40.1
2016–2018.....	3,551	10.2	1,394	4.0	2,157	6.3	39.3
2015–2017.....	3,336	9.8	1,299	3.8	2,037	6.1	38.9
2014–2016.....	3,088	9.3	1,170	3.4	1,918	5.9	37.9
2013–2015.....	2,946	9.1	1,107	3.3	1,839	5.8	37.6
2012–2014.....	2,786	8.7	1,039	3.2	1,747	5.6	37.3
2011–2013.....	2,607	8.4	989	3.1	1,618	5.3	37.9
2010–2012.....	2,435	8.0	926	2.9	1,509	5.1	38.0
2009–2011.....	2,256	7.6	842	2.7	1,414	4.9	37.3
2008–2010.....	2,155	7.5	762	2.5	1,393	5.0	35.4
2007–2009.....	2,094	7.5	688	2.3	1,406	5.2	32.9
2006–2008.....	2,065	7.7	652	2.3	1,413	5.4	31.6
2005–2007.....	2,077	8.0	656	2.4	1,421	5.6	31.6
2004–2006.....	2,075	8.2	670	2.5	1,405	5.7	32.3
2003–2005.....	2,093	8.5	676	2.6	1,417	5.9	32.3

Table 7. Number of deaths and 3-year annual moving average of age-adjusted death rates¹ from liver cirrhosis with and without mention of alcohol, States, Census Regions, and the United States, 2000–2023. (Continued)

State or other geographic area and year	All cirrhosis		Alcohol-related cirrhosis		All other cirrhosis ²		Percent alcohol related
	Number of deaths	Age-adjusted deaths per 100,000 population	Number of deaths	Age-adjusted deaths per 100,000 population	Number of deaths	Age-adjusted deaths per 100,000 population	
2002–2004.....	2,100	8.8	669	2.7	1,431	6.1	31.9
2001–2003.....	2,072	8.9	649	2.6	1,423	6.2	31.3
2000–2002.....	2,020	9.0	659	2.7	1,361	6.2	32.6
Hawaii							
2021–2023.....	502	9.0	199	3.8	303	5.2	39.6
2020–2022.....	504	9.1	209	4.0	295	5.1	41.5
2019–2021.....	485	8.9	199	3.9	286	5.0	41.0
2018–2020.....	426	8.0	171	3.4	255	4.5	40.1
2017–2019.....	409	7.7	158	3.2	251	4.5	38.6
2016–2018.....	399	7.6	155	3.2	244	4.4	38.8
2015–2017.....	414	7.9	161	3.3	253	4.7	38.9
2014–2016.....	392	7.6	166	3.4	226	4.2	42.3
2013–2015.....	378	7.5	164	3.3	214	4.2	43.4
2012–2014.....	377	7.5	157	3.3	220	4.3	41.6
2011–2013.....	393	7.9	173	3.6	220	4.4	44.0
2010–2012.....	381	7.8	182	3.8	199	4.0	47.8
2009–2011.....	365	7.6	199	4.2	166	3.4	54.5
2008–2010.....	347	7.4	184	3.9	163	3.5	53.0
2007–2009.....	358	7.9	187	4.1	171	3.7	52.2
2006–2008.....	330	7.4	164	3.7	166	3.7	49.7
2005–2007.....	312	7.2	138	3.2	174	4.0	44.2
2004–2006.....	284	6.7	119	2.9	165	3.8	41.9
2003–2005.....	268	6.4	92	2.3	176	4.2	34.3
2002–2004.....	250	6.2	97	2.4	153	3.8	38.8
2001–2003.....	247	6.2	83	2.1	164	4.1	33.6
2000–2002.....	254	6.6	94	2.4	160	4.1	37.0
Idaho							
2021–2023.....	1,094	16.5	740	11.5	354	5.0	67.6
2020–2022.....	1,095	17.0	737	11.7	358	5.2	67.3
2019–2021.....	1,018	16.2	692	11.3	326	4.9	68.0
2018–2020.....	901	14.7	599	10.0	302	4.7	66.5
2017–2019.....	750	12.5	507	8.7	243	3.9	67.6
2016–2018.....	683	11.8	474	8.3	209	3.5	69.4
2015–2017.....	649	11.6	455	8.3	194	3.3	70.1
2014–2016.....	654	11.9	462	8.5	192	3.4	70.6
2013–2015.....	666	12.4	469	8.8	197	3.6	70.4
2012–2014.....	635	12.1	455	8.7	180	3.4	71.7
2011–2013.....	610	11.9	433	8.5	177	3.4	71.0
2010–2012.....	552	11.1	389	7.8	163	3.3	70.5
2009–2011.....	486	10.0	349	7.1	137	2.9	71.8
2008–2010.....	463	9.7	343	7.2	120	2.6	74.1
2007–2009.....	467	10.0	348	7.4	119	2.6	74.5
2006–2008.....	453	10.0	330	7.2	123	2.8	72.8
2005–2007.....	416	9.5	311	7.0	105	2.5	74.8
2004–2006.....	367	8.7	282	6.6	85	2.1	76.8
2003–2005.....	375	9.1	290	7.0	85	2.1	77.3
2002–2004.....	354	8.9	270	6.7	84	2.2	76.3
2001–2003.....	346	9.0	252	6.5	94	2.5	72.8
2000–2002.....	324	8.7	225	6.0	99	2.7	69.4

Table 7. Number of deaths and 3-year annual moving average of age-adjusted death rates¹ from liver cirrhosis with and without mention of alcohol, States, Census Regions, and the United States, 2000–2023. (Continued)

State or other geographic area and year	All cirrhosis		Alcohol-related cirrhosis		All other cirrhosis ²		Percent alcohol related
	Number of deaths	Age-adjusted deaths per 100,000 population	Number of deaths	Age-adjusted deaths per 100,000 population	Number of deaths	Age-adjusted deaths per 100,000 population	
Illinois							
2021–2023.....	5,682	12.6	2,548	5.9	3,134	6.6	44.8
2020–2022.....	5,681	12.6	2,613	6.0	3,068	6.6	46.0
2019–2021.....	5,300	11.8	2,385	5.5	2,915	6.3	45.0
2018–2020.....	4,920	10.9	2,122	4.8	2,798	6.0	43.1
2017–2019.....	4,615	10.2	1,905	4.3	2,710	5.9	41.3
2016–2018.....	4,498	10.0	1,904	4.3	2,594	5.7	42.3
2015–2017.....	4,318	9.7	1,829	4.2	2,489	5.5	42.4
2014–2016.....	4,192	9.6	1,735	4.0	2,457	5.5	41.4
2013–2015.....	4,038	9.3	1,561	3.6	2,477	5.7	38.7
2012–2014.....	3,912	9.1	1,472	3.5	2,440	5.7	37.6
2011–2013.....	3,705	8.7	1,394	3.3	2,311	5.4	37.6
2010–2012.....	3,553	8.5	1,323	3.2	2,230	5.3	37.2
2009–2011.....	3,471	8.4	1,320	3.2	2,151	5.2	38.0
2008–2010.....	3,477	8.6	1,319	3.3	2,158	5.3	37.9
2007–2009.....	3,391	8.5	1,310	3.3	2,081	5.2	38.6
2006–2008.....	3,348	8.5	1,247	3.1	2,101	5.4	37.2
2005–2007.....	3,195	8.2	1,160	3.0	2,035	5.3	36.3
2004–2006.....	3,201	8.3	1,129	2.9	2,072	5.4	35.3
2003–2005.....	3,161	8.4	1,094	2.9	2,067	5.5	34.6
2002–2004.....	3,226	8.6	1,076	2.8	2,150	5.8	33.4
2001–2003.....	3,274	8.9	1,126	3.0	2,148	5.9	34.4
2000–2002.....	3,297	9.0	1,121	3.0	2,176	6.0	34.0
Indiana							
2021–2023.....	3,883	16.2	1,861	8.1	2,022	8.1	47.9
2020–2022.....	4,002	16.9	1,956	8.6	2,046	8.3	48.9
2019–2021.....	3,683	15.6	1,763	7.8	1,920	7.9	47.9
2018–2020.....	3,432	14.6	1,570	6.9	1,862	7.7	45.7
2017–2019.....	3,112	13.3	1,397	6.1	1,715	7.1	44.9
2016–2018.....	3,000	12.8	1,346	5.9	1,654	6.9	44.9
2015–2017.....	2,843	12.3	1,269	5.6	1,574	6.7	44.6
2014–2016.....	2,698	11.8	1,157	5.2	1,541	6.7	42.9
2013–2015.....	2,558	11.4	1,035	4.7	1,523	6.7	40.5
2012–2014.....	2,412	10.9	935	4.3	1,477	6.6	38.8
2011–2013.....	2,303	10.5	907	4.2	1,396	6.3	39.4
2010–2012.....	2,162	10.0	864	4.0	1,298	6.0	40.0
2009–2011.....	1,962	9.1	766	3.6	1,196	5.6	39.0
2008–2010.....	1,794	8.5	668	3.2	1,126	5.3	37.2
2007–2009.....	1,652	8.0	593	2.9	1,059	5.1	35.9
2006–2008.....	1,595	7.9	569	2.8	1,026	5.1	35.7
2005–2007.....	1,558	7.8	532	2.7	1,026	5.2	34.1
2004–2006.....	1,554	8.0	528	2.7	1,026	5.3	34.0
2003–2005.....	1,517	7.9	516	2.7	1,001	5.2	34.0
2002–2004.....	1,527	8.1	517	2.7	1,010	5.4	33.9
2001–2003.....	1,486	8.0	480	2.6	1,006	5.4	32.3
2000–2002.....	1,492	8.2	473	2.6	1,019	5.6	31.7
Iowa							
2021–2023.....	1,625	14.5	938	8.9	687	5.6	57.7
2020–2022.....	1,634	14.6	938	8.9	696	5.7	57.4
2019–2021.....	1,467	13.0	839	7.8	628	5.2	57.2

Table 7. Number of deaths and 3-year annual moving average of age-adjusted death rates¹ from liver cirrhosis with and without mention of alcohol, States, Census Regions, and the United States, 2000–2023. (Continued)

State or other geographic area and year	All cirrhosis		Alcohol-related cirrhosis		All other cirrhosis ²		Percent alcohol related
	Number of deaths	Age-adjusted deaths per 100,000 population	Number of deaths	Age-adjusted deaths per 100,000 population	Number of deaths	Age-adjusted deaths per 100,000 population	
2018–2020.....	1,278	11.4	723	6.8	555	4.6	56.6
2017–2019.....	1,177	10.5	675	6.3	502	4.2	57.3
2016–2018.....	1,145	10.3	673	6.4	472	4.0	58.8
2015–2017.....	1,127	10.3	657	6.2	470	4.0	58.3
2014–2016.....	1,091	10.0	651	6.2	440	3.8	59.7
2013–2015.....	1,039	9.5	591	5.6	448	3.9	56.9
2012–2014.....	989	9.1	555	5.3	434	3.8	56.1
2011–2013.....	919	8.6	501	4.8	418	3.7	54.5
2010–2012.....	892	8.4	473	4.6	419	3.9	53.0
2009–2011.....	857	8.2	454	4.4	403	3.8	53.0
2008–2010.....	813	7.8	424	4.2	389	3.6	52.2
2007–2009.....	753	7.3	409	4.1	344	3.3	54.3
2006–2008.....	653	6.4	349	3.5	304	2.9	53.4
2005–2007.....	642	6.4	338	3.5	304	3.0	52.6
2004–2006.....	594	6.0	301	3.1	293	2.9	50.7
2003–2005.....	624	6.4	313	3.3	311	3.1	50.2
2002–2004.....	628	6.5	298	3.2	330	3.3	47.5
2001–2003.....	650	6.8	312	3.4	338	3.4	48.0
2000–2002.....	637	6.7	301	3.3	336	3.4	47.3
Kansas							
2021–2023.....	1,612	16.1	916	9.7	696	6.5	56.8
2020–2022.....	1,568	16.0	923	9.9	645	6.1	58.9
2019–2021.....	1,433	14.7	831	8.9	602	5.8	58.0
2018–2020.....	1,269	12.9	730	7.7	539	5.1	57.5
2017–2019.....	1,120	11.3	631	6.6	489	4.7	56.3
2016–2018.....	1,073	10.9	598	6.3	475	4.6	55.7
2015–2017.....	1,006	10.3	534	5.7	472	4.6	53.1
2014–2016.....	965	9.9	501	5.3	464	4.6	51.9
2013–2015.....	894	9.3	444	4.7	450	4.6	49.7
2012–2014.....	823	8.6	404	4.2	419	4.3	49.1
2011–2013.....	794	8.4	381	4.0	413	4.4	48.0
2010–2012.....	782	8.3	378	4.0	404	4.3	48.3
2009–2011.....	756	8.1	368	4.0	388	4.2	48.7
2008–2010.....	733	8.0	352	3.9	381	4.2	48.0
2007–2009.....	719	8.0	346	3.8	373	4.2	48.1
2006–2008.....	714	8.1	322	3.6	392	4.4	45.1
2005–2007.....	672	7.7	301	3.4	371	4.2	44.8
2004–2006.....	644	7.5	272	3.2	372	4.3	42.2
2003–2005.....	623	7.4	261	3.1	362	4.2	41.9
2002–2004.....	609	7.3	258	3.1	351	4.2	42.4
2001–2003.....	611	7.4	255	3.1	356	4.3	41.7
2000–2002.....	580	7.1	238	3.0	342	4.1	41.0
Kentucky							
2021–2023.....	3,212	19.5	1,180	7.5	2,032	11.9	36.7
2020–2022.....	3,145	19.3	1,246	8.0	1,899	11.3	39.6
2019–2021.....	2,994	18.4	1,206	7.7	1,788	10.7	40.3
2018–2020.....	2,694	16.6	1,062	6.8	1,632	9.8	39.4
2017–2019.....	2,446	15.1	906	5.8	1,540	9.3	37.0
2016–2018.....	2,288	14.1	850	5.4	1,438	8.7	37.2
2015–2017.....	2,200	13.7	840	5.4	1,360	8.3	38.2

Table 7. Number of deaths and 3-year annual moving average of age-adjusted death rates¹ from liver cirrhosis with and without mention of alcohol, States, Census Regions, and the United States, 2000–2023. (Continued)

State or other geographic area and year	All cirrhosis		Alcohol-related cirrhosis		All other cirrhosis ²		Percent alcohol related
	Number of deaths	Age-adjusted deaths per 100,000 population	Number of deaths	Age-adjusted deaths per 100,000 population	Number of deaths	Age-adjusted deaths per 100,000 population	
2014–2016.....	2,069	13.0	783	5.0	1,286	8.0	37.8
2013–2015.....	1,947	12.5	688	4.5	1,259	7.9	35.3
2012–2014.....	1,812	11.7	618	4.1	1,194	7.7	34.1
2011–2013.....	1,661	10.9	548	3.7	1,113	7.3	33.0
2010–2012.....	1,553	10.4	528	3.5	1,025	6.9	34.0
2009–2011.....	1,428	9.7	472	3.2	956	6.5	33.1
2008–2010.....	1,321	9.1	436	3.0	885	6.1	33.0
2007–2009.....	1,234	8.7	414	2.9	820	5.7	33.5
2006–2008.....	1,152	8.2	386	2.8	766	5.5	33.5
2005–2007.....	1,155	8.5	392	2.9	763	5.6	33.9
2004–2006.....	1,121	8.4	385	2.8	736	5.5	34.3
2003–2005.....	1,116	8.5	397	3.0	719	5.5	35.6
2002–2004.....	1,116	8.7	405	3.1	711	5.6	36.3
2001–2003.....	1,139	9.0	423	3.3	716	5.7	37.1
2000–2002.....	1,154	9.3	440	3.5	714	5.8	38.1
Louisiana							
2021–2023.....	2,046	12.4	938	5.9	1,108	6.6	45.8
2020–2022.....	2,019	12.4	934	5.9	1,085	6.5	46.3
2019–2021.....	1,851	11.3	842	5.3	1,009	6.0	45.5
2018–2020.....	1,688	10.4	739	4.7	949	5.7	43.8
2017–2019.....	1,636	10.0	668	4.2	968	5.8	40.8
2016–2018.....	1,643	10.2	654	4.2	989	6.0	39.8
2015–2017.....	1,678	10.4	677	4.3	1,001	6.1	40.3
2014–2016.....	1,650	10.4	693	4.4	957	6.0	42.0
2013–2015.....	1,639	10.4	662	4.2	977	6.2	40.4
2012–2014.....	1,508	9.8	548	3.6	960	6.2	36.3
2011–2013.....	1,367	9.0	445	2.9	922	6.1	32.6
2010–2012.....	1,242	8.3	400	2.7	842	5.6	32.2
2009–2011.....	1,182	8.0	398	2.7	784	5.3	33.7
2008–2010.....	1,186	8.2	398	2.7	788	5.5	33.6
2007–2009.....	1,154	8.2	370	2.6	784	5.6	32.1
2006–2008.....	1,111	8.1	345	2.5	766	5.6	31.1
2005–2007.....	1,104	8.1	353	2.6	751	5.5	32.0
2004–2006.....	1,113	8.2	383	2.8	730	5.4	34.4
2003–2005.....	1,131	8.3	400	2.9	731	5.4	35.4
2002–2004.....	1,117	8.4	419	3.1	698	5.3	37.5
2001–2003.....	1,081	8.2	412	3.1	669	5.1	38.1
2000–2002.....	1,090	8.4	429	3.3	661	5.2	39.4
Maine							
2021–2023.....	1,024	17.6	509	9.4	515	8.3	49.7
2020–2022.....	981	17.2	528	9.8	453	7.3	53.8
2019–2021.....	865	15.1	476	8.7	389	6.4	55.0
2018–2020.....	745	13.0	401	7.4	344	5.7	53.8
2017–2019.....	673	11.7	341	6.2	332	5.5	50.7
2016–2018.....	655	11.8	330	6.3	325	5.5	50.4
2015–2017.....	644	11.8	320	6.3	324	5.6	49.7
2014–2016.....	601	11.2	294	5.8	307	5.4	48.9
2013–2015.....	543	10.2	259	5.1	284	5.1	47.7
2012–2014.....	490	9.0	233	4.4	257	4.7	47.6
2011–2013.....	481	8.9	220	4.2	261	4.7	45.7

Table 7. Number of deaths and 3-year annual moving average of age-adjusted death rates¹ from liver cirrhosis with and without mention of alcohol, States, Census Regions, and the United States, 2000–2023. (Continued)

State or other geographic area and year	All cirrhosis		Alcohol-related cirrhosis		All other cirrhosis ²		Percent alcohol related
	Number of deaths	Age-adjusted deaths per 100,000 population	Number of deaths	Age-adjusted deaths per 100,000 population	Number of deaths	Age-adjusted deaths per 100,000 population	
2010–2012.....	489	9.1	234	4.4	255	4.7	47.9
2009–2011.....	479	9.3	235	4.6	244	4.7	49.1
2008–2010.....	457	9.0	224	4.4	233	4.6	49.0
2007–2009.....	454	9.1	211	4.2	243	4.9	46.5
2006–2008.....	451	9.2	201	4.1	250	5.1	44.6
2005–2007.....	428	8.9	205	4.2	223	4.7	47.9
2004–2006.....	390	8.3	182	3.8	208	4.4	46.7
2003–2005.....	371	8.0	174	3.7	197	4.3	46.9
2002–2004.....	370	8.2	156	3.4	214	4.7	42.2
2001–2003.....	360	8.1	159	3.6	201	4.5	44.2
2000–2002.....	356	8.2	145	3.4	211	4.8	40.7
Maryland							
2021–2023.....	2,176	9.8	1,069	5.0	1,107	4.8	49.1
2020–2022.....	2,205	10.0	1,069	5.0	1,136	5.0	48.5
2019–2021.....	2,101	9.5	973	4.5	1,128	5.1	46.3
2018–2020.....	1,898	8.7	821	3.8	1,077	4.9	43.3
2017–2019.....	1,668	7.6	662	3.1	1,006	4.6	39.7
2016–2018.....	1,539	7.2	604	2.8	935	4.3	39.2
2015–2017.....	1,497	7.0	546	2.6	951	4.5	36.5
2014–2016.....	1,494	7.1	509	2.4	985	4.7	34.1
2013–2015.....	1,479	7.1	500	2.4	979	4.7	33.8
2012–2014.....	1,454	7.1	505	2.4	949	4.7	34.7
2011–2013.....	1,427	7.1	522	2.5	905	4.6	36.6
2010–2012.....	1,416	7.1	505	2.5	911	4.7	35.7
2009–2011.....	1,390	7.2	495	2.5	895	4.7	35.6
2008–2010.....	1,323	7.0	458	2.4	865	4.6	34.6
2007–2009.....	1,314	7.1	474	2.5	840	4.6	36.1
2006–2008.....	1,297	7.2	471	2.5	826	4.7	36.3
2005–2007.....	1,352	7.6	497	2.7	855	4.9	36.8
2004–2006.....	1,329	7.6	467	2.6	862	5.0	35.1
2003–2005.....	1,352	7.9	470	2.7	882	5.2	34.8
2002–2004.....	1,342	8.0	493	2.9	849	5.2	36.7
2001–2003.....	1,393	8.5	535	3.2	858	5.3	38.4
2000–2002.....	1,407	8.8	541	3.3	866	5.5	38.5
Massachusetts							
2021–2023.....	2,939	11.3	1,422	5.7	1,517	5.6	48.4
2020–2022.....	2,966	11.5	1,460	5.9	1,506	5.6	49.2
2019–2021.....	2,749	10.8	1,343	5.5	1,406	5.3	48.9
2018–2020.....	2,607	10.3	1,194	4.9	1,413	5.4	45.8
2017–2019.....	2,428	9.6	1,063	4.3	1,365	5.3	43.8
2016–2018.....	2,380	9.6	1,065	4.4	1,315	5.2	44.7
2015–2017.....	2,238	9.1	1,044	4.3	1,194	4.8	46.6
2014–2016.....	2,106	8.7	945	3.9	1,161	4.7	44.9
2013–2015.....	1,975	8.2	808	3.4	1,167	4.8	40.9
2012–2014.....	1,923	8.1	733	3.1	1,190	5.0	38.1
2011–2013.....	1,838	7.9	682	3.0	1,156	4.9	37.1
2010–2012.....	1,829	8.0	685	3.0	1,144	4.9	37.5
2009–2011.....	1,774	7.9	638	2.9	1,136	5.0	36.0
2008–2010.....	1,789	8.0	651	3.0	1,138	5.1	36.4
2007–2009.....	1,805	8.2	655	3.0	1,150	5.2	36.3

Table 7. Number of deaths and 3-year annual moving average of age-adjusted death rates¹ from liver cirrhosis with and without mention of alcohol, States, Census Regions, and the United States, 2000–2023. (Continued)

State or other geographic area and year	All cirrhosis		Alcohol-related cirrhosis		All other cirrhosis ²		Percent alcohol related
	Number of deaths	Age-adjusted deaths per 100,000 population	Number of deaths	Age-adjusted deaths per 100,000 population	Number of deaths	Age-adjusted deaths per 100,000 population	
2006–2008.....	1,748	8.1	607	2.8	1,141	5.3	34.7
2005–2007.....	1,655	7.8	531	2.5	1,124	5.3	32.1
2004–2006.....	1,594	7.6	462	2.2	1,132	5.4	29.0
2003–2005.....	1,665	8.1	483	2.4	1,182	5.7	29.0
2002–2004.....	1,755	8.6	515	2.5	1,240	6.0	29.3
2001–2003.....	1,780	8.8	524	2.6	1,256	6.2	29.4
2000–2002.....	1,741	8.7	527	2.7	1,214	6.0	30.3
Michigan							
2021–2023.....	5,490	15.0	2,832	8.2	2,658	6.8	51.6
2020–2022.....	5,530	15.2	2,857	8.3	2,673	6.9	51.7
2019–2021.....	5,265	14.5	2,636	7.6	2,629	6.8	50.1
2018–2020.....	4,697	12.8	2,269	6.5	2,428	6.3	48.3
2017–2019.....	4,309	11.7	2,010	5.8	2,299	6.0	46.6
2016–2018.....	4,073	11.1	1,931	5.5	2,142	5.6	47.4
2015–2017.....	4,039	11.1	1,906	5.4	2,133	5.7	47.2
2014–2016.....	3,888	10.8	1,828	5.2	2,060	5.6	47.0
2013–2015.....	3,815	10.7	1,770	5.1	2,045	5.6	46.4
2012–2014.....	3,640	10.3	1,732	5.0	1,908	5.3	47.6
2011–2013.....	3,601	10.3	1,689	4.9	1,912	5.3	46.9
2010–2012.....	3,546	10.2	1,674	4.9	1,872	5.3	47.2
2009–2011.....	3,477	10.1	1,641	4.8	1,836	5.3	47.2
2008–2010.....	3,383	10.0	1,607	4.8	1,776	5.2	47.5
2007–2009.....	3,243	9.7	1,495	4.5	1,748	5.2	46.1
2006–2008.....	3,132	9.5	1,379	4.2	1,753	5.3	44.0
2005–2007.....	3,049	9.4	1,332	4.1	1,717	5.3	43.7
2004–2006.....	3,016	9.4	1,301	4.1	1,715	5.4	43.1
2003–2005.....	3,033	9.6	1,266	4.0	1,767	5.6	41.7
2002–2004.....	3,012	9.7	1,220	3.9	1,792	5.8	40.5
2001–2003.....	3,083	10.1	1,231	4.0	1,852	6.1	39.9
2000–2002.....	3,118	10.3	1,252	4.1	1,866	6.2	40.2
Minnesota							
2021–2023.....	2,883	14.3	1,892	9.7	991	4.6	65.6
2020–2022.....	2,947	14.8	1,966	10.1	981	4.7	66.7
2019–2021.....	2,725	13.8	1,807	9.4	918	4.4	66.3
2018–2020.....	2,473	12.5	1,603	8.3	870	4.2	64.8
2017–2019.....	2,121	10.7	1,325	6.8	796	3.9	62.5
2016–2018.....	2,013	10.3	1,239	6.4	774	3.9	61.5
2015–2017.....	1,876	9.7	1,117	5.8	759	3.8	59.5
2014–2016.....	1,793	9.4	1,059	5.6	734	3.8	59.1
2013–2015.....	1,691	9.0	956	5.1	735	3.8	56.5
2012–2014.....	1,620	8.7	892	4.8	728	3.9	55.1
2011–2013.....	1,532	8.4	834	4.6	698	3.9	54.4
2010–2012.....	1,414	7.9	774	4.3	640	3.6	54.7
2009–2011.....	1,321	7.5	717	4.0	604	3.5	54.3
2008–2010.....	1,263	7.3	682	3.9	581	3.4	54.0
2007–2009.....	1,223	7.3	636	3.7	587	3.5	52.0
2006–2008.....	1,132	6.9	588	3.5	544	3.3	51.9
2005–2007.....	1,060	6.6	549	3.4	511	3.2	51.8
2004–2006.....	1,004	6.4	524	3.3	480	3.1	52.2
2003–2005.....	1,017	6.6	527	3.3	490	3.2	51.8

Table 7. Number of deaths and 3-year annual moving average of age-adjusted death rates¹ from liver cirrhosis with and without mention of alcohol, States, Census Regions, and the United States, 2000–2023. (Continued)

State or other geographic area and year	All cirrhosis		Alcohol-related cirrhosis		All other cirrhosis ²		Percent alcohol related
	Number of deaths	Age-adjusted deaths per 100,000 population	Number of deaths	Age-adjusted deaths per 100,000 population	Number of deaths	Age-adjusted deaths per 100,000 population	
2002–2004.....	1,009	6.6	509	3.3	500	3.3	50.4
2001–2003.....	1,030	6.9	510	3.4	520	3.5	49.5
2000–2002.....	1,039	7.1	490	3.3	549	3.8	47.2
Mississippi							
2021–2023.....	1,830	17.3	1,039	10.2	791	7.1	56.8
2020–2022.....	1,870	17.9	1,035	10.2	835	7.7	55.3
2019–2021.....	1,731	16.5	836	8.2	895	8.3	48.3
2018–2020.....	1,513	14.3	549	5.4	964	8.9	36.3
2017–2019.....	1,382	13.1	396	3.9	986	9.2	28.7
2016–2018.....	1,301	12.4	356	3.5	945	8.9	27.4
2015–2017.....	1,244	12.0	344	3.4	900	8.6	27.7
2014–2016.....	1,149	11.2	312	3.1	837	8.0	27.2
2013–2015.....	1,077	10.6	307	3.1	770	7.5	28.5
2012–2014.....	1,003	10.0	292	2.9	711	7.0	29.1
2011–2013.....	994	10.1	288	2.9	706	7.1	29.0
2010–2012.....	968	9.9	281	2.9	687	7.0	29.0
2009–2011.....	944	9.9	274	2.9	670	7.0	29.0
2008–2010.....	872	9.2	275	2.9	597	6.3	31.5
2007–2009.....	839	9.1	270	2.9	569	6.2	32.2
2006–2008.....	816	9.0	278	3.1	538	5.9	34.1
2005–2007.....	820	9.2	275	3.1	545	6.1	33.5
2004–2006.....	820	9.3	273	3.1	547	6.2	33.3
2003–2005.....	776	8.9	247	2.8	529	6.1	31.8
2002–2004.....	729	8.5	240	2.8	489	5.7	32.9
2001–2003.....	729	8.7	232	2.7	497	5.9	31.8
2000–2002.....	751	9.1	255	3.1	496	6.0	34.0
Missouri							
2021–2023.....	3,143	14.1	1,303	6.3	1,840	7.8	41.5
2020–2022.....	3,124	14.1	1,317	6.4	1,807	7.7	42.2
2019–2021.....	2,816	12.7	1,213	5.9	1,603	6.9	43.1
2018–2020.....	2,550	11.5	1,041	5.0	1,509	6.4	40.8
2017–2019.....	2,326	10.4	934	4.5	1,392	6.0	40.2
2016–2018.....	2,223	10.0	865	4.1	1,358	5.9	38.9
2015–2017.....	2,176	10.0	861	4.1	1,315	5.8	39.6
2014–2016.....	2,083	9.7	834	4.0	1,249	5.6	40.0
2013–2015.....	2,013	9.4	822	4.0	1,191	5.5	40.8
2012–2014.....	1,890	9.0	781	3.8	1,109	5.1	41.3
2011–2013.....	1,778	8.5	715	3.5	1,063	5.0	40.2
2010–2012.....	1,691	8.2	675	3.4	1,016	4.9	39.9
2009–2011.....	1,627	8.0	633	3.2	994	4.8	38.9
2008–2010.....	1,615	8.1	637	3.2	978	4.8	39.4
2007–2009.....	1,515	7.7	562	2.9	953	4.8	37.1
2006–2008.....	1,452	7.5	534	2.8	918	4.7	36.8
2005–2007.....	1,345	7.1	490	2.6	855	4.5	36.4
2004–2006.....	1,333	7.1	505	2.7	828	4.4	37.9
2003–2005.....	1,297	7.1	494	2.7	803	4.3	38.1
2002–2004.....	1,305	7.3	507	2.9	798	4.4	38.9
2001–2003.....	1,310	7.4	510	2.9	800	4.5	38.9
2000–2002.....	1,284	7.3	490	2.8	794	4.5	38.2

Table 7. Number of deaths and 3-year annual moving average of age-adjusted death rates¹ from liver cirrhosis with and without mention of alcohol, States, Census Regions, and the United States, 2000–2023. (Continued)

State or other geographic area and year	All cirrhosis		Alcohol-related cirrhosis		All other cirrhosis ²		Percent alcohol related
	Number of deaths	Age-adjusted deaths per 100,000 population	Number of deaths	Age-adjusted deaths per 100,000 population	Number of deaths	Age-adjusted deaths per 100,000 population	
Montana							
2021–2023.....	879	23.1	632	17.3	247	5.8	71.9
2020–2022.....	849	22.7	628	17.4	221	5.3	74.0
2019–2021.....	748	20.5	552	15.7	196	4.8	73.8
2018–2020.....	596	15.9	419	11.7	177	4.2	70.3
2017–2019.....	554	14.9	384	10.8	170	4.1	69.3
2016–2018.....	530	14.3	348	9.9	182	4.5	65.7
2015–2017.....	554	15.6	365	10.8	189	4.8	65.9
2014–2016.....	510	14.4	300	8.9	210	5.5	58.8
2013–2015.....	498	14.2	316	9.4	182	4.9	63.5
2012–2014.....	462	13.1	293	8.5	169	4.6	63.4
2011–2013.....	435	12.6	299	8.8	136	3.8	68.7
2010–2012.....	410	11.8	273	8.0	137	3.8	66.6
2009–2011.....	397	11.7	257	7.8	140	3.9	64.7
2008–2010.....	404	12.0	264	8.1	140	3.9	65.3
2007–2009.....	417	12.6	270	8.3	147	4.2	64.7
2006–2008.....	392	12.0	262	8.2	130	3.8	66.8
2005–2007.....	376	11.8	250	7.9	126	3.9	66.5
2004–2006.....	334	10.7	213	6.9	121	3.8	63.8
2003–2005.....	332	10.8	202	6.6	130	4.2	60.8
2002–2004.....	339	11.2	198	6.6	141	4.6	58.4
2001–2003.....	345	11.6	205	7.0	140	4.6	59.4
2000–2002.....	318	10.9	189	6.5	129	4.3	59.4
Nebraska							
2021–2023.....	1,002	15.4	642	10.3	360	5.1	64.1
2020–2022.....	982	15.0	683	10.8	299	4.2	69.6
2019–2021.....	918	14.1	657	10.4	261	3.7	71.6
2018–2020.....	846	13.1	606	9.6	240	3.5	71.6
2017–2019.....	768	12.1	531	8.6	237	3.5	69.1
2016–2018.....	715	11.2	476	7.7	239	3.5	66.6
2015–2017.....	629	9.8	415	6.7	214	3.2	66.0
2014–2016.....	576	9.1	378	6.1	198	3.0	65.6
2013–2015.....	548	8.8	372	6.0	176	2.7	67.9
2012–2014.....	559	9.0	362	5.9	197	3.1	64.8
2011–2013.....	519	8.5	331	5.4	188	3.0	63.8
2010–2012.....	497	8.2	317	5.3	180	2.9	63.8
2009–2011.....	458	7.6	296	4.9	162	2.7	64.6
2008–2010.....	460	7.8	299	5.1	161	2.7	65.0
2007–2009.....	414	7.1	254	4.4	160	2.8	61.4
2006–2008.....	399	7.1	231	4.1	168	3.0	57.9
2005–2007.....	402	7.3	214	4.0	188	3.3	53.2
2004–2006.....	402	7.3	214	4.0	188	3.3	53.2
2003–2005.....	378	7.0	199	3.8	179	3.2	52.6
2002–2004.....	366	6.9	202	3.9	164	3.0	55.2
2001–2003.....	350	6.7	194	3.8	156	2.9	55.4
2000–2002.....	342	6.6	187	3.7	155	2.9	54.7
Nevada							
2021–2023.....	1,956	17.2	1,304	11.7	652	5.5	66.7
2020–2022.....	1,906	17.1	1,280	11.7	626	5.4	67.2
2019–2021.....	1,767	16.0	1,174	10.8	593	5.2	66.4

Table 7. Number of deaths and 3-year annual moving average of age-adjusted death rates¹ from liver cirrhosis with and without mention of alcohol, States, Census Regions, and the United States, 2000–2023. (Continued)

State or other geographic area and year	All cirrhosis		Alcohol-related cirrhosis		All other cirrhosis ²		Percent alcohol related
	Number of deaths	Age-adjusted deaths per 100,000 population	Number of deaths	Age-adjusted deaths per 100,000 population	Number of deaths	Age-adjusted deaths per 100,000 population	
2018–2020.....	1,615	14.9	1,061	9.9	554	5.0	65.7
2017–2019.....	1,508	14.2	978	9.3	530	4.9	64.9
2016–2018.....	1,417	13.7	938	9.2	479	4.6	66.2
2015–2017.....	1,392	13.9	898	9.0	494	4.9	64.5
2014–2016.....	1,320	13.5	824	8.4	496	5.0	62.4
2013–2015.....	1,301	13.6	759	7.9	542	5.7	58.3
2012–2014.....	1,207	13.0	676	7.3	531	5.7	56.0
2011–2013.....	1,124	12.4	647	7.1	477	5.3	57.6
2010–2012.....	1,038	11.8	597	6.7	441	5.1	57.5
2009–2011.....	977	11.3	572	6.5	405	4.8	58.5
2008–2010.....	983	11.6	551	6.4	432	5.2	56.1
2007–2009.....	932	11.2	518	6.1	414	5.1	55.6
2006–2008.....	899	11.1	450	5.4	449	5.7	50.1
2005–2007.....	854	11.0	398	5.0	456	6.0	46.6
2004–2006.....	870	11.7	386	5.0	484	6.6	44.4
2003–2005.....	849	11.8	419	5.7	430	6.1	49.4
2002–2004.....	840	12.2	415	5.9	425	6.3	49.4
2001–2003.....	856	13.0	439	6.5	417	6.5	51.3
2000–2002.....	873	14.0	442	6.9	431	7.1	50.6
New Hampshire							
2021–2023.....	816	14.6	471	8.9	345	5.7	57.7
2020–2022.....	790	14.5	452	8.8	338	5.8	57.2
2019–2021.....	706	13.1	390	7.6	316	5.4	55.2
2018–2020.....	659	12.4	365	7.2	294	5.1	55.4
2017–2019.....	612	11.4	328	6.5	284	4.9	53.6
2016–2018.....	575	10.9	317	6.2	258	4.7	55.1
2015–2017.....	520	10.0	266	5.2	254	4.8	51.2
2014–2016.....	541	10.4	282	5.5	259	4.9	52.1
2013–2015.....	521	10.0	274	5.4	247	4.7	52.6
2012–2014.....	470	9.2	264	5.2	206	4.0	56.2
2011–2013.....	433	8.7	244	4.9	189	3.8	56.4
2010–2012.....	389	7.9	210	4.3	179	3.7	54.0
2009–2011.....	401	8.3	213	4.4	188	3.9	53.1
2008–2010.....	369	7.8	194	4.0	175	3.8	52.6
2007–2009.....	376	8.2	192	4.1	184	4.1	51.1
2006–2008.....	339	7.6	171	3.7	168	3.8	50.4
2005–2007.....	334	7.7	164	3.7	170	4.0	49.1
2004–2006.....	320	7.6	167	3.8	153	3.8	52.2
2003–2005.....	327	8.0	167	3.9	160	4.0	51.1
2002–2004.....	314	7.8	154	3.7	160	4.1	49.0
2001–2003.....	334	8.6	161	4.0	173	4.6	48.2
2000–2002.....	320	8.4	161	4.1	159	4.3	50.3
New Jersey							
2021–2023.....	3,115	9.2	1,197	3.7	1,918	5.5	38.4
2020–2022.....	3,188	9.4	1,294	4.0	1,894	5.4	40.6
2019–2021.....	3,040	9.1	1,242	3.9	1,798	5.3	40.9
2018–2020.....	2,860	8.7	1,160	3.6	1,700	5.0	40.6
2017–2019.....	2,650	8.1	1,057	3.3	1,593	4.8	39.9
2016–2018.....	2,597	8.0	1,017	3.2	1,580	4.8	39.2
2015–2017.....	2,473	7.7	935	3.0	1,538	4.7	37.8

Table 7. Number of deaths and 3-year annual moving average of age-adjusted death rates¹ from liver cirrhosis with and without mention of alcohol, States, Census Regions, and the United States, 2000–2023. (Continued)

State or other geographic area and year	All cirrhosis		Alcohol-related cirrhosis		All other cirrhosis ²		Percent alcohol related
	Number of deaths	Age-adjusted deaths per 100,000 population	Number of deaths	Age-adjusted deaths per 100,000 population	Number of deaths	Age-adjusted deaths per 100,000 population	
2014–2016.....	2,462	7.7	921	2.9	1,541	4.8	37.4
2013–2015.....	2,437	7.7	899	2.9	1,538	4.8	36.9
2012–2014.....	2,358	7.5	889	2.9	1,469	4.7	37.7
2011–2013.....	2,344	7.6	881	2.9	1,463	4.7	37.6
2010–2012.....	2,293	7.5	872	2.9	1,421	4.6	38.0
2009–2011.....	2,292	7.6	861	2.8	1,431	4.8	37.6
2008–2010.....	2,210	7.5	815	2.7	1,395	4.7	36.9
2007–2009.....	2,112	7.2	769	2.6	1,343	4.6	36.4
2006–2008.....	2,060	7.2	741	2.6	1,319	4.6	36.0
2005–2007.....	2,083	7.3	759	2.7	1,324	4.7	36.4
2004–2006.....	2,135	7.6	785	2.8	1,350	4.8	36.8
2003–2005.....	2,240	8.1	796	2.9	1,444	5.2	35.5
2002–2004.....	2,236	8.2	769	2.8	1,467	5.4	34.4
2001–2003.....	2,316	8.6	780	2.9	1,536	5.7	33.7
2000–2002.....	2,306	8.7	805	3.0	1,501	5.6	34.9
New Mexico							
2021–2023.....	2,665	38.1	1,545	23.4	1,120	14.7	58.0
2020–2022.....	2,638	38.2	1,589	24.3	1,049	13.9	60.2
2019–2021.....	2,395	34.9	1,446	22.3	949	12.6	60.4
2018–2020.....	2,039	29.6	1,196	18.5	843	11.1	58.7
2017–2019.....	1,876	27.3	1,085	16.7	791	10.6	57.8
2016–2018.....	1,833	26.6	1,097	16.6	736	10.0	59.8
2015–2017.....	1,811	26.3	1,075	16.3	736	10.0	59.4
2014–2016.....	1,708	24.8	1,021	15.4	687	9.4	59.8
2013–2015.....	1,580	23.0	926	14.0	654	9.0	58.6
2012–2014.....	1,441	21.0	856	12.8	585	8.2	59.4
2011–2013.....	1,397	20.5	826	12.4	571	8.1	59.1
2010–2012.....	1,318	19.5	778	11.7	540	7.8	59.0
2009–2011.....	1,244	18.8	725	11.2	519	7.6	58.3
2008–2010.....	1,167	18.1	692	10.9	475	7.2	59.3
2007–2009.....	1,160	18.4	687	11.0	473	7.4	59.2
2006–2008.....	1,096	17.6	640	10.3	456	7.3	58.4
2005–2007.....	977	16.0	555	9.1	422	6.9	56.8
2004–2006.....	887	14.9	504	8.5	383	6.4	56.8
2003–2005.....	902	15.6	531	9.2	371	6.5	58.9
2002–2004.....	939	16.6	541	9.5	398	7.1	57.6
2001–2003.....	955	17.2	550	9.8	405	7.4	57.6
2000–2002.....	970	17.8	557	10.2	413	7.7	57.4
New York							
2021–2023.....	6,246	8.6	3,098	4.5	3,148	4.1	49.6
2020–2022.....	6,218	8.6	3,176	4.6	3,042	4.0	51.1
2019–2021.....	5,930	8.2	2,996	4.3	2,934	3.9	50.5
2018–2020.....	5,580	7.8	2,840	4.1	2,740	3.7	50.9
2017–2019.....	5,372	7.5	2,710	3.9	2,662	3.6	50.4
2016–2018.....	5,252	7.4	2,683	3.9	2,569	3.5	51.1
2015–2017.....	5,141	7.3	2,569	3.8	2,572	3.6	50.0
2014–2016.....	5,014	7.2	2,463	3.6	2,551	3.6	49.1
2013–2015.....	4,924	7.1	2,427	3.6	2,497	3.6	49.3
2012–2014.....	4,825	7.1	2,407	3.6	2,418	3.5	49.9
2011–2013.....	4,717	7.0	2,346	3.5	2,371	3.5	49.7

Table 7. Number of deaths and 3-year annual moving average of age-adjusted death rates¹ from liver cirrhosis with and without mention of alcohol, States, Census Regions, and the United States, 2000–2023. (Continued)

State or other geographic area and year	All cirrhosis		Alcohol-related cirrhosis		All other cirrhosis ²		Percent alcohol related
	Number of deaths	Age-adjusted deaths per 100,000 population	Number of deaths	Age-adjusted deaths per 100,000 population	Number of deaths	Age-adjusted deaths per 100,000 population	
2010–2012.....	4,580	6.9	2,256	3.4	2,324	3.5	49.3
2009–2011.....	4,346	6.6	2,152	3.3	2,194	3.3	49.5
2008–2010.....	4,197	6.5	2,105	3.3	2,092	3.2	50.2
2007–2009.....	4,053	6.4	2,069	3.2	1,984	3.1	51.0
2006–2008.....	3,976	6.3	1,969	3.1	2,007	3.2	49.5
2005–2007.....	3,828	6.2	1,835	2.9	1,993	3.2	47.9
2004–2006.....	3,825	6.2	1,737	2.8	2,088	3.4	45.4
2003–2005.....	3,974	6.5	1,792	2.9	2,182	3.6	45.1
2002–2004.....	4,110	6.8	1,824	3.0	2,286	3.8	44.4
2001–2003.....	4,304	7.2	1,849	3.1	2,455	4.1	43.0
2000–2002.....	4,327	7.4	1,861	3.2	2,466	4.2	43.0
North Carolina							
2021–2023.....	6,161	15.8	2,829	7.6	3,332	8.2	45.9
2020–2022.....	6,019	15.6	2,740	7.4	3,279	8.2	45.5
2019–2021.....	5,585	14.6	2,429	6.6	3,156	8.0	43.5
2018–2020.....	4,939	13.0	2,079	5.7	2,860	7.3	42.1
2017–2019.....	4,480	11.8	1,905	5.2	2,575	6.6	42.5
2016–2018.....	4,247	11.4	1,806	5.0	2,441	6.4	42.5
2015–2017.....	4,150	11.4	1,730	4.9	2,420	6.6	41.7
2014–2016.....	4,009	11.3	1,647	4.7	2,362	6.6	41.1
2013–2015.....	3,850	11.1	1,609	4.7	2,241	6.4	41.8
2012–2014.....	3,627	10.7	1,514	4.5	2,113	6.2	41.7
2011–2013.....	3,450	10.4	1,434	4.3	2,016	6.1	41.6
2010–2012.....	3,205	9.9	1,312	4.0	1,893	5.9	40.9
2009–2011.....	3,044	9.6	1,255	3.9	1,789	5.7	41.2
2008–2010.....	2,951	9.6	1,221	3.9	1,730	5.7	41.4
2007–2009.....	2,890	9.6	1,220	4.0	1,670	5.6	42.2
2006–2008.....	2,734	9.4	1,161	3.9	1,573	5.4	42.5
2005–2007.....	2,542	9.0	1,079	3.8	1,463	5.2	42.4
2004–2006.....	2,436	8.9	1,032	3.7	1,404	5.2	42.4
2003–2005.....	2,384	9.0	1,025	3.8	1,359	5.2	43.0
2002–2004.....	2,328	9.0	1,042	4.0	1,286	5.0	44.8
2001–2003.....	2,264	9.0	1,014	4.0	1,250	5.0	44.8
2000–2002.....	2,298	9.4	1,069	4.3	1,229	5.1	46.5
North Dakota							
2021–2023.....	464	18.9	317	13.4	147	5.5	68.3
2020–2022.....	448	18.6	319	13.8	129	4.8	71.2
2019–2021.....	426	17.8	299	13.1	127	4.7	70.2
2018–2020.....	380	16.1	266	11.7	114	4.4	70.0
2017–2019.....	331	14.0	222	9.7	109	4.3	67.1
2016–2018.....	309	12.9	204	8.8	105	4.2	66.0
2015–2017.....	291	12.5	187	8.3	104	4.1	64.3
2014–2016.....	263	11.3	177	7.9	86	3.4	67.3
2013–2015.....	251	11.0	173	7.8	78	3.2	68.9
2012–2014.....	241	10.7	168	7.7	73	3.0	69.7
2011–2013.....	264	11.9	178	8.2	86	3.6	67.4
2010–2012.....	246	11.3	166	7.9	80	3.4	67.5
2009–2011.....	216	10.3	145	7.2	71	3.2	67.1
2008–2010.....	188	9.2	132	6.7	56	2.5	70.2
2007–2009.....	159	7.7	112	5.6	47	2.1	70.4

Table 7. Number of deaths and 3-year annual moving average of age-adjusted death rates¹ from liver cirrhosis with and without mention of alcohol, States, Census Regions, and the United States, 2000–2023. (Continued)

State or other geographic area and year	All cirrhosis		Alcohol-related cirrhosis		All other cirrhosis ²		Percent alcohol related
	Number of deaths	Age-adjusted deaths per 100,000 population	Number of deaths	Age-adjusted deaths per 100,000 population	Number of deaths	Age-adjusted deaths per 100,000 population	
2006–2008.....	157	7.5	118	5.8	39	1.7	75.2
2005–2007.....	170	8.1	124	6.1	46	2.1	72.9
2004–2006.....	182	8.7	132	6.5	50	2.2	72.5
2003–2005.....	210	10.1	146	7.2	64	2.9	69.5
2002–2004.....	202	9.9	144	7.2	58	2.7	71.3
2001–2003.....	207	10.3	156	7.9	51	2.4	75.4
2000–2002.....	175	8.7	130	6.6	45	2.1	74.3
Ohio							
2021–2023.....	6,622	15.2	3,073	7.4	3,549	7.8	46.4
2020–2022.....	6,495	14.9	3,063	7.4	3,432	7.6	47.2
2019–2021.....	6,041	13.9	2,778	6.7	3,263	7.2	46.0
2018–2020.....	5,497	12.6	2,416	5.8	3,081	6.8	44.0
2017–2019.....	5,244	12.1	2,196	5.3	3,048	6.8	41.9
2016–2018.....	5,115	11.9	2,156	5.2	2,959	6.6	42.2
2015–2017.....	5,051	11.8	2,042	5.0	3,009	6.8	40.4
2014–2016.....	4,829	11.4	1,921	4.7	2,908	6.7	39.8
2013–2015.....	4,606	11.0	1,815	4.5	2,791	6.5	39.4
2012–2014.....	4,370	10.5	1,748	4.3	2,622	6.2	40.0
2011–2013.....	4,213	10.3	1,685	4.2	2,528	6.1	40.0
2010–2012.....	4,037	10.0	1,619	4.1	2,418	5.9	40.1
2009–2011.....	3,865	9.7	1,568	4.0	2,297	5.7	40.6
2008–2010.....	3,731	9.5	1,576	4.0	2,155	5.4	42.2
2007–2009.....	3,655	9.4	1,571	4.0	2,084	5.3	43.0
2006–2008.....	3,579	9.3	1,554	4.0	2,025	5.2	43.4
2005–2007.....	3,474	9.1	1,506	4.0	1,968	5.2	43.4
2004–2006.....	3,348	8.9	1,389	3.7	1,959	5.2	41.5
2003–2005.....	3,274	8.9	1,268	3.5	2,006	5.4	38.7
2002–2004.....	3,199	8.8	1,129	3.1	2,070	5.7	35.3
2001–2003.....	3,160	8.8	1,078	3.0	2,082	5.8	34.1
2000–2002.....	3,114	8.8	1,101	3.1	2,013	5.6	35.4
Oklahoma							
2021–2023.....	2,860	21.0	1,642	12.6	1,218	8.4	57.4
2020–2022.....	2,780	20.8	1,577	12.2	1,203	8.5	56.7
2019–2021.....	2,575	19.2	1,441	11.2	1,134	8.0	56.0
2018–2020.....	2,406	18.0	1,310	10.2	1,096	7.8	54.4
2017–2019.....	2,288	17.0	1,262	9.7	1,026	7.3	55.2
2016–2018.....	2,212	16.5	1,252	9.7	960	6.9	56.6
2015–2017.....	2,096	15.8	1,197	9.3	899	6.6	57.1
2014–2016.....	2,009	15.4	1,124	8.8	885	6.5	55.9
2013–2015.....	1,934	15.0	1,025	8.1	909	6.9	53.0
2012–2014.....	1,902	14.9	981	7.9	921	7.0	51.6
2011–2013.....	1,810	14.3	940	7.6	870	6.7	51.9
2010–2012.....	1,693	13.6	920	7.5	773	6.1	54.3
2009–2011.....	1,510	12.3	843	7.0	667	5.4	55.8
2008–2010.....	1,428	11.8	823	6.8	605	5.0	57.6
2007–2009.....	1,421	11.9	815	6.9	606	5.0	57.4
2006–2008.....	1,429	12.3	835	7.2	594	5.1	58.4
2005–2007.....	1,397	12.2	795	7.0	602	5.2	56.9
2004–2006.....	1,277	11.3	698	6.2	579	5.1	54.7
2003–2005.....	1,173	10.6	595	5.4	578	5.2	50.7

Table 7. Number of deaths and 3-year annual moving average of age-adjusted death rates¹ from liver cirrhosis with and without mention of alcohol, States, Census Regions, and the United States, 2000–2023. (Continued)

State or other geographic area and year	All cirrhosis		Alcohol-related cirrhosis		All other cirrhosis ²		Percent alcohol related
	Number of deaths	Age-adjusted deaths per 100,000 population	Number of deaths	Age-adjusted deaths per 100,000 population	Number of deaths	Age-adjusted deaths per 100,000 population	
2002–2004.....	1,171	10.7	562	5.2	609	5.5	48.0
2001–2003.....	1,149	10.7	503	4.7	646	6.0	43.8
2000–2002.....	1,159	10.9	483	4.6	676	6.3	41.7
Oregon							
2021–2023.....	2,989	18.8	2,242	14.5	747	4.3	75.0
2020–2022.....	2,916	18.4	2,172	14.0	744	4.4	74.5
2019–2021.....	2,639	16.7	1,974	12.7	665	3.9	74.8
2018–2020.....	2,394	15.2	1,784	11.6	610	3.6	74.5
2017–2019.....	2,183	14.0	1,662	10.9	521	3.1	76.1
2016–2018.....	2,097	13.7	1,611	10.7	486	3.0	76.8
2015–2017.....	2,048	13.7	1,588	10.8	460	3.0	77.5
2014–2016.....	2,019	13.9	1,557	10.9	462	3.0	77.1
2013–2015.....	1,944	13.7	1,453	10.4	491	3.3	74.7
2012–2014.....	1,784	12.8	1,295	9.4	489	3.3	72.6
2011–2013.....	1,695	12.3	1,205	8.9	490	3.4	71.1
2010–2012.....	1,646	12.1	1,165	8.6	481	3.5	70.8
2009–2011.....	1,614	12.1	1,135	8.6	479	3.6	70.3
2008–2010.....	1,527	11.7	1,044	8.0	483	3.7	68.4
2007–2009.....	1,480	11.6	1,016	8.0	464	3.6	68.6
2006–2008.....	1,385	11.1	932	7.5	453	3.6	67.3
2005–2007.....	1,306	10.7	947	7.8	359	3.0	72.5
2004–2006.....	1,222	10.3	916	7.7	306	2.6	75.0
2003–2005.....	1,174	10.1	915	7.9	259	2.3	77.9
2002–2004.....	1,145	10.1	861	7.6	284	2.5	75.2
2001–2003.....	1,096	9.9	763	6.9	333	3.0	69.6
2000–2002.....	1,019	9.4	644	5.9	375	3.5	63.2
Pennsylvania							
2021–2023.....	5,983	11.8	2,333	4.9	3,650	6.9	39.0
2020–2022.....	5,821	11.5	2,351	5.0	3,470	6.6	40.4
2019–2021.....	5,429	10.8	2,162	4.6	3,267	6.2	39.8
2018–2020.....	4,949	9.8	1,889	4.0	3,060	5.8	38.2
2017–2019.....	4,652	9.3	1,672	3.5	2,980	5.7	35.9
2016–2018.....	4,539	9.1	1,616	3.4	2,923	5.7	35.6
2015–2017.....	4,555	9.3	1,598	3.4	2,957	5.9	35.1
2014–2016.....	4,459	9.2	1,536	3.3	2,923	5.9	34.4
2013–2015.....	4,269	8.9	1,446	3.2	2,823	5.7	33.9
2012–2014.....	4,024	8.5	1,369	3.0	2,655	5.5	34.0
2011–2013.....	3,896	8.3	1,316	2.9	2,580	5.4	33.8
2010–2012.....	3,804	8.2	1,275	2.9	2,529	5.3	33.5
2009–2011.....	3,724	8.1	1,201	2.7	2,523	5.4	32.3
2008–2010.....	3,626	8.0	1,172	2.7	2,454	5.3	32.3
2007–2009.....	3,498	7.8	1,116	2.6	2,382	5.2	31.9
2006–2008.....	3,378	7.6	1,030	2.4	2,348	5.2	30.5
2005–2007.....	3,319	7.6	941	2.2	2,378	5.3	28.4
2004–2006.....	3,327	7.7	898	2.2	2,429	5.5	27.0
2003–2005.....	3,441	8.0	881	2.1	2,560	5.9	25.6
2002–2004.....	3,531	8.3	895	2.2	2,636	6.1	25.3
2001–2003.....	3,565	8.5	910	2.3	2,655	6.2	25.5
2000–2002.....	3,481	8.4	909	2.3	2,572	6.1	26.1

Table 7. Number of deaths and 3-year annual moving average of age-adjusted death rates¹ from liver cirrhosis with and without mention of alcohol, States, Census Regions, and the United States, 2000–2023. (Continued)

State or other geographic area and year	All cirrhosis		Alcohol-related cirrhosis		All other cirrhosis ²		Percent alcohol related
	Number of deaths	Age-adjusted deaths per 100,000 population	Number of deaths	Age-adjusted deaths per 100,000 population	Number of deaths	Age-adjusted deaths per 100,000 population	
Rhode Island							
2021–2023.....	652	16.1	356	9.2	296	6.8	54.6
2020–2022.....	624	15.4	350	9.0	274	6.4	56.1
2019–2021.....	556	14.0	297	7.9	259	6.1	53.4
2018–2020.....	526	13.4	283	7.6	243	5.8	53.8
2017–2019.....	491	12.5	239	6.3	252	6.2	48.7
2016–2018.....	506	12.8	250	6.6	256	6.2	49.4
2015–2017.....	467	11.9	220	5.9	247	6.0	47.1
2014–2016.....	429	11.0	220	5.9	209	5.1	51.3
2013–2015.....	392	10.2	214	5.8	178	4.4	54.6
2012–2014.....	393	10.3	210	5.7	183	4.7	53.4
2011–2013.....	417	11.1	213	5.7	204	5.4	51.1
2010–2012.....	413	10.9	194	5.1	219	5.8	47.0
2009–2011.....	379	10.2	174	4.6	205	5.5	45.9
2008–2010.....	350	9.5	157	4.3	193	5.2	44.9
2007–2009.....	346	9.5	157	4.4	189	5.1	45.4
2006–2008.....	341	9.4	166	4.6	175	4.8	48.7
2005–2007.....	336	9.4	153	4.3	183	5.1	45.5
2004–2006.....	348	9.8	163	4.7	185	5.1	46.8
2003–2005.....	338	9.7	150	4.4	188	5.3	44.4
2002–2004.....	359	10.4	162	4.8	197	5.6	45.1
2001–2003.....	327	9.6	138	4.1	189	5.5	42.2
2000–2002.....	359	10.6	146	4.4	213	6.2	40.7
South Carolina							
2021–2023.....	3,563	18.1	1,731	9.2	1,832	8.8	48.6
2020–2022.....	3,537	18.3	1,771	9.6	1,766	8.7	50.1
2019–2021.....	3,279	17.0	1,557	8.4	1,722	8.6	47.5
2018–2020.....	2,911	15.0	1,335	7.1	1,576	7.9	45.9
2017–2019.....	2,671	13.9	1,196	6.5	1,475	7.5	44.8
2016–2018.....	2,556	13.6	1,152	6.3	1,404	7.3	45.1
2015–2017.....	2,472	13.6	1,081	6.1	1,391	7.5	43.7
2014–2016.....	2,312	13.0	963	5.6	1,349	7.4	41.7
2013–2015.....	2,224	12.8	898	5.3	1,326	7.5	40.4
2012–2014.....	2,081	12.3	844	5.1	1,237	7.2	40.6
2011–2013.....	1,974	12.0	813	5.0	1,161	7.0	41.2
2010–2012.....	1,852	11.4	773	4.8	1,079	6.6	41.7
2009–2011.....	1,773	11.1	736	4.6	1,037	6.5	41.5
2008–2010.....	1,648	10.7	680	4.4	968	6.3	41.3
2007–2009.....	1,577	10.5	676	4.5	901	6.0	42.9
2006–2008.....	1,530	10.5	645	4.4	885	6.1	42.2
2005–2007.....	1,526	10.8	693	4.9	833	5.9	45.4
2004–2006.....	1,468	10.7	727	5.3	741	5.5	49.5
2003–2005.....	1,440	10.9	739	5.5	701	5.4	51.3
2002–2004.....	1,341	10.4	657	5.0	684	5.4	49.0
2001–2003.....	1,339	10.6	589	4.6	750	6.0	44.0
2000–2002.....	1,334	10.8	668	5.3	666	5.5	50.1
South Dakota							
2021–2023.....	909	33.1	703	26.9	206	6.2	77.3
2020–2022.....	903	32.9	707	26.8	196	6.1	78.3
2019–2021.....	768	28.2	615	23.3	153	4.9	80.1

Table 7. Number of deaths and 3-year annual moving average of age-adjusted death rates¹ from liver cirrhosis with and without mention of alcohol, States, Census Regions, and the United States, 2000–2023. (Continued)

State or other geographic area and year	All cirrhosis		Alcohol-related cirrhosis		All other cirrhosis ²		Percent alcohol related
	Number of deaths	Age-adjusted deaths per 100,000 population	Number of deaths	Age-adjusted deaths per 100,000 population	Number of deaths	Age-adjusted deaths per 100,000 population	
2018–2020.....	612	21.9	484	17.8	128	4.1	79.1
2017–2019.....	533	19.3	415	15.5	118	3.8	77.9
2016–2018.....	529	18.9	397	14.5	132	4.3	75.0
2015–2017.....	488	17.9	343	13.1	145	4.8	70.3
2014–2016.....	453	17.2	316	12.5	137	4.7	69.8
2013–2015.....	416	16.2	293	11.8	123	4.4	70.4
2012–2014.....	385	15.1	283	11.4	102	3.7	73.5
2011–2013.....	354	13.5	259	10.0	95	3.4	73.2
2010–2012.....	314	12.3	226	9.1	88	3.2	72.0
2009–2011.....	274	10.5	188	7.4	86	3.1	68.6
2008–2010.....	273	10.5	176	6.9	97	3.6	64.5
2007–2009.....	281	10.9	185	7.3	96	3.5	65.8
2006–2008.....	289	11.5	196	8.0	93	3.5	67.8
2005–2007.....	271	11.1	189	7.9	82	3.1	69.7
2004–2006.....	272	11.2	185	7.8	87	3.4	68.0
2003–2005.....	267	11.1	172	7.3	95	3.7	64.4
2002–2004.....	258	10.9	151	6.6	107	4.4	58.5
2001–2003.....	239	10.3	136	6.0	103	4.3	56.9
2000–2002.....	242	10.6	132	6.0	110	4.6	54.5
Tennessee							
2021–2023.....	4,746	18.7	2,360	9.7	2,386	9.0	49.7
2020–2022.....	4,755	19.0	2,441	10.2	2,314	8.9	51.3
2019–2021.....	4,381	17.7	2,209	9.3	2,172	8.5	50.4
2018–2020.....	3,979	16.2	1,968	8.2	2,011	8.0	49.5
2017–2019.....	3,613	14.7	1,680	7.0	1,933	7.7	46.5
2016–2018.....	3,418	14.1	1,512	6.4	1,906	7.7	44.2
2015–2017.....	3,237	13.6	1,339	5.7	1,898	7.8	41.4
2014–2016.....	3,056	13.1	1,236	5.4	1,820	7.7	40.4
2013–2015.....	2,930	12.7	1,154	5.1	1,776	7.7	39.4
2012–2014.....	2,774	12.3	1,109	4.9	1,665	7.4	40.0
2011–2013.....	2,609	11.8	1,040	4.7	1,569	7.1	39.9
2010–2012.....	2,463	11.2	1,031	4.7	1,432	6.5	41.9
2009–2011.....	2,325	10.7	977	4.5	1,348	6.3	42.0
2008–2010.....	2,214	10.4	927	4.3	1,287	6.1	41.9
2007–2009.....	2,090	10.0	855	4.0	1,235	6.0	40.9
2006–2008.....	2,006	9.8	819	4.0	1,187	5.8	40.8
2005–2007.....	1,952	9.8	799	4.0	1,153	5.9	40.9
2004–2006.....	1,950	10.1	798	4.1	1,152	6.0	40.9
2003–2005.....	2,023	10.8	822	4.3	1,201	6.5	40.6
2002–2004.....	1,999	10.9	809	4.3	1,190	6.6	40.5
2001–2003.....	1,964	10.9	785	4.3	1,179	6.6	40.0
2000–2002.....	1,850	10.5	728	4.1	1,122	6.4	39.4
Texas							
2021–2023.....	16,309	17.0	6,669	7.0	9,640	10.1	40.9
2020–2022.....	16,060	17.0	6,701	7.1	9,359	9.9	41.7
2019–2021.....	15,288	16.5	6,376	6.9	8,912	9.6	41.7
2018–2020.....	14,081	15.5	5,658	6.2	8,423	9.3	40.2
2017–2019.....	13,184	14.7	5,125	5.7	8,059	9.1	38.9
2016–2018.....	12,624	14.4	4,854	5.5	7,770	8.9	38.5
2015–2017.....	12,256	14.3	4,654	5.4	7,602	8.9	38.0

Table 7. Number of deaths and 3-year annual moving average of age-adjusted death rates¹ from liver cirrhosis with and without mention of alcohol, States, Census Regions, and the United States, 2000–2023. (Continued)

State or other geographic area and year	All cirrhosis		Alcohol-related cirrhosis		All other cirrhosis ²		Percent alcohol related
	Number of deaths	Age-adjusted deaths per 100,000 population	Number of deaths	Age-adjusted deaths per 100,000 population	Number of deaths	Age-adjusted deaths per 100,000 population	
2014–2016.....	11,773	14.1	4,398	5.2	7,375	8.9	37.4
2013–2015.....	11,241	13.8	4,025	4.8	7,216	9.0	35.8
2012–2014.....	10,662	13.4	3,784	4.7	6,878	8.8	35.5
2011–2013.....	10,028	13.0	3,543	4.5	6,485	8.5	35.3
2010–2012.....	9,485	12.6	3,404	4.4	6,081	8.2	35.9
2009–2011.....	8,883	12.1	3,166	4.2	5,717	7.9	35.6
2008–2010.....	8,425	11.8	2,949	4.0	5,476	7.8	35.0
2007–2009.....	8,051	11.7	2,761	3.9	5,290	7.8	34.3
2006–2008.....	7,690	11.5	2,703	3.9	4,987	7.6	35.1
2005–2007.....	7,494	11.5	2,619	3.9	4,875	7.7	34.9
2004–2006.....	7,229	11.5	2,519	3.9	4,710	7.6	34.8
2003–2005.....	7,167	11.8	2,399	3.8	4,768	8.0	33.5
2002–2004.....	6,989	11.8	2,381	3.9	4,608	7.9	34.1
2001–2003.....	6,923	12.0	2,454	4.1	4,469	7.9	35.4
2000–2002.....	6,681	11.9	2,514	4.3	4,167	7.5	37.6
Utah							
2021–2023.....	1,152	12.3	636	6.7	516	5.5	55.2
2020–2022.....	1,113	12.1	617	6.6	496	5.5	55.4
2019–2021.....	1,030	11.4	560	6.1	470	5.3	54.4
2018–2020.....	930	10.6	488	5.5	442	5.1	52.5
2017–2019.....	848	9.9	439	5.1	409	4.8	51.8
2016–2018.....	814	9.8	437	5.2	377	4.6	53.7
2015–2017.....	768	9.5	421	5.1	347	4.4	54.8
2014–2016.....	747	9.5	411	5.1	336	4.4	55.0
2013–2015.....	698	9.1	368	4.7	330	4.4	52.7
2012–2014.....	654	8.8	325	4.2	329	4.5	49.7
2011–2013.....	602	8.3	273	3.6	329	4.7	45.3
2010–2012.....	574	8.2	259	3.6	315	4.6	45.1
2009–2011.....	522	7.7	232	3.3	290	4.4	44.4
2008–2010.....	470	7.1	225	3.3	245	3.8	47.9
2007–2009.....	445	6.9	219	3.3	226	3.7	49.2
2006–2008.....	420	6.7	211	3.3	209	3.5	50.2
2005–2007.....	421	7.0	208	3.3	213	3.7	49.4
2004–2006.....	390	6.8	175	2.9	215	3.9	44.9
2003–2005.....	378	6.8	158	2.7	220	4.1	41.8
2002–2004.....	382	7.1	154	2.7	228	4.4	40.3
2001–2003.....	405	7.7	168	3.1	237	4.7	41.5
2000–2002.....	407	8.0	178	3.3	229	4.7	43.7
Vermont							
2021–2023.....	341	13.0	218	8.8	123	4.2	63.9
2020–2022.....	328	12.7	225	9.1	103	3.6	68.6
2019–2021.....	317	12.1	221	8.8	96	3.3	69.7
2018–2020.....	263	10.2	188	7.5	75	2.6	71.5
2017–2019.....	248	9.6	167	6.6	81	3.0	67.3
2016–2018.....	235	9.5	158	6.5	77	3.0	67.2
2015–2017.....	246	10.1	160	6.7	86	3.4	65.0
2014–2016.....	243	9.8	160	6.5	83	3.3	65.8
2013–2015.....	241	9.7	157	6.3	84	3.4	65.1
2012–2014.....	213	8.7	135	5.4	78	3.3	63.4
2011–2013.....	215	9.1	136	5.7	79	3.4	63.3

Table 7. Number of deaths and 3-year annual moving average of age-adjusted death rates¹ from liver cirrhosis with and without mention of alcohol, States, Census Regions, and the United States, 2000–2023. (Continued)

State or other geographic area and year	All cirrhosis		Alcohol-related cirrhosis		All other cirrhosis ²		Percent alcohol related
	Number of deaths	Age-adjusted deaths per 100,000 population	Number of deaths	Age-adjusted deaths per 100,000 population	Number of deaths	Age-adjusted deaths per 100,000 population	
2010–2012.....	192	8.1	116	4.9	76	3.2	60.4
2009–2011.....	204	8.6	122	5.1	82	3.4	59.8
2008–2010.....	173	7.5	98	4.3	75	3.3	56.6
2007–2009.....	170	7.4	105	4.5	65	2.9	61.8
2006–2008.....	160	7.3	105	4.7	55	2.6	65.6
2005–2007.....	162	7.5	109	4.9	53	2.6	67.3
2004–2006.....	153	7.3	104	4.9	49	2.5	68.0
2003–2005.....	158	7.7	107	5.2	51	2.6	67.7
2002–2004.....	174	8.7	117	5.8	57	2.9	67.2
2001–2003.....	165	8.3	102	5.1	63	3.2	61.8
2000–2002.....	146	7.5	90	4.6	56	2.9	61.6
Virginia							
2021–2023.....	3,997	12.7	1,602	5.3	2,395	7.4	40.1
2020–2022.....	4,018	12.9	1,650	5.4	2,368	7.4	41.1
2019–2021.....	3,804	12.2	1,535	5.1	2,269	7.1	40.4
2018–2020.....	3,507	11.3	1,371	4.5	2,136	6.8	39.1
2017–2019.....	3,194	10.4	1,198	4.0	1,996	6.5	37.5
2016–2018.....	3,027	10.1	1,132	3.8	1,895	6.3	37.4
2015–2017.....	2,995	10.1	1,094	3.7	1,901	6.4	36.5
2014–2016.....	2,839	9.7	997	3.4	1,842	6.3	35.1
2013–2015.....	2,749	9.5	899	3.1	1,850	6.5	32.7
2012–2014.....	2,610	9.3	820	2.9	1,790	6.4	31.4
2011–2013.....	2,487	9.0	807	2.9	1,680	6.2	32.4
2010–2012.....	2,338	8.7	766	2.8	1,572	5.9	32.8
2009–2011.....	2,160	8.2	703	2.6	1,457	5.6	32.5
2008–2010.....	2,068	8.0	672	2.5	1,396	5.4	32.5
2007–2009.....	1,975	7.8	682	2.6	1,293	5.2	34.5
2006–2008.....	1,870	7.6	635	2.5	1,235	5.1	34.0
2005–2007.....	1,795	7.5	588	2.4	1,207	5.1	32.8
2004–2006.....	1,725	7.4	526	2.2	1,199	5.2	30.5
2003–2005.....	1,771	7.8	549	2.3	1,222	5.4	31.0
2002–2004.....	1,793	8.1	523	2.3	1,270	5.8	29.2
2001–2003.....	1,774	8.2	558	2.5	1,216	5.7	31.5
2000–2002.....	1,733	8.2	573	2.6	1,160	5.6	33.1
Washington							
2021–2023.....	4,384	16.1	3,242	12.1	1,142	4.0	74.0
2020–2022.....	4,411	16.3	3,336	12.5	1,075	3.8	75.6
2019–2021.....	4,078	15.2	3,107	11.7	971	3.5	76.2
2018–2020.....	3,651	13.8	2,728	10.4	923	3.4	74.7
2017–2019.....	3,343	12.7	2,487	9.5	856	3.2	74.4
2016–2018.....	3,175	12.3	2,303	9.0	872	3.3	72.5
2015–2017.....	3,155	12.5	2,291	9.1	864	3.4	72.6
2014–2016.....	3,039	12.3	2,212	9.0	827	3.3	72.8
2013–2015.....	3,038	12.5	2,266	9.4	772	3.2	74.6
2012–2014.....	2,855	12.0	2,137	9.0	718	3.1	74.9
2011–2013.....	2,728	11.7	2,047	8.7	681	3.0	75.0
2010–2012.....	2,534	11.1	1,914	8.3	620	2.8	75.5
2009–2011.....	2,416	10.8	1,866	8.2	550	2.5	77.2
2008–2010.....	2,306	10.6	1,793	8.1	513	2.4	77.8
2007–2009.....	2,190	10.3	1,719	8.0	471	2.3	78.5

Table 7. Number of deaths and 3-year annual moving average of age-adjusted death rates¹ from liver cirrhosis with and without mention of alcohol, States, Census Regions, and the United States, 2000–2023. (Continued)

State or other geographic area and year	All cirrhosis		Alcohol-related cirrhosis		All other cirrhosis ²		Percent alcohol related
	Number of deaths	Age-adjusted deaths per 100,000 population	Number of deaths	Age-adjusted deaths per 100,000 population	Number of deaths	Age-adjusted deaths per 100,000 population	
2006–2008.....	2,020	9.8	1,567	7.5	453	2.3	77.6
2005–2007.....	1,886	9.4	1,454	7.1	432	2.2	77.1
2004–2006.....	1,767	9.0	1,347	6.8	420	2.2	76.2
2003–2005.....	1,727	9.1	1,325	6.9	402	2.2	76.7
2002–2004.....	1,702	9.2	1,280	6.8	422	2.4	75.2
2001–2003.....	1,708	9.5	1,268	7.0	440	2.6	74.2
2000–2002.....	1,633	9.3	1,196	6.7	437	2.6	73.2
West Virginia							
2021–2023.....	1,544	21.1	526	7.8	1,018	13.2	34.1
2020–2022.....	1,500	20.5	526	7.8	974	12.7	35.1
2019–2021.....	1,423	19.6	509	7.7	914	11.9	35.8
2018–2020.....	1,324	18.1	474	7.0	850	11.1	35.8
2017–2019.....	1,245	17.1	445	6.6	800	10.5	35.7
2016–2018.....	1,130	15.4	386	5.7	744	9.7	34.2
2015–2017.....	1,092	15.1	358	5.3	734	9.7	32.8
2014–2016.....	1,082	14.9	327	5.0	755	9.9	30.2
2013–2015.....	1,051	14.6	303	4.6	748	10.0	28.8
2012–2014.....	961	13.4	282	4.3	679	9.1	29.3
2011–2013.....	884	12.5	281	4.3	603	8.3	31.8
2010–2012.....	837	12.0	275	4.1	562	7.8	32.9
2009–2011.....	805	11.6	271	4.1	534	7.6	33.7
2008–2010.....	745	10.9	235	3.6	510	7.3	31.5
2007–2009.....	760	11.2	258	4.0	502	7.2	33.9
2006–2008.....	757	11.3	253	4.0	504	7.4	33.4
2005–2007.....	743	11.2	256	4.0	487	7.2	34.5
2004–2006.....	725	11.1	243	3.9	482	7.2	33.5
2003–2005.....	720	11.1	252	4.0	468	7.1	35.0
2002–2004.....	715	11.2	243	3.9	472	7.3	34.0
2001–2003.....	664	10.6	241	4.0	423	6.6	36.3
2000–2002.....	673	10.8	247	4.1	426	6.7	36.7
Wisconsin							
2021–2023.....	2,999	13.5	1,826	8.6	1,173	4.9	60.9
2020–2022.....	2,959	13.4	1,806	8.5	1,153	4.9	61.0
2019–2021.....	2,748	12.6	1,671	8.0	1,077	4.6	60.8
2018–2020.....	2,555	11.7	1,499	7.2	1,056	4.6	58.7
2017–2019.....	2,327	10.8	1,353	6.5	974	4.3	58.1
2016–2018.....	2,266	10.6	1,304	6.3	962	4.3	57.5
2015–2017.....	2,102	9.9	1,210	5.8	892	4.1	57.6
2014–2016.....	2,019	9.6	1,134	5.5	885	4.1	56.2
2013–2015.....	1,914	9.3	1,046	5.1	868	4.2	54.6
2012–2014.....	1,873	9.2	1,018	5.1	855	4.2	54.4
2011–2013.....	1,771	8.9	953	4.8	818	4.1	53.8
2010–2012.....	1,685	8.6	907	4.6	778	3.9	53.8
2009–2011.....	1,611	8.3	846	4.4	765	3.9	52.5
2008–2010.....	1,560	8.2	813	4.3	747	3.9	52.1
2007–2009.....	1,507	8.0	787	4.2	720	3.9	52.2
2006–2008.....	1,457	7.9	763	4.1	694	3.8	52.4
2005–2007.....	1,442	8.0	748	4.1	694	3.8	51.9
2004–2006.....	1,372	7.8	722	4.1	650	3.7	52.6
2003–2005.....	1,349	7.7	702	4.0	647	3.7	52.0

Table 7. Number of deaths and 3-year annual moving average of age-adjusted death rates¹ from liver cirrhosis with and without mention of alcohol, States, Census Regions, and the United States, 2000–2023. (Continued)

State or other geographic area and year	All cirrhosis		Alcohol-related cirrhosis		All other cirrhosis ²		Percent alcohol related
	Number of deaths	Age-adjusted deaths per 100,000 population	Number of deaths	Age-adjusted deaths per 100,000 population	Number of deaths	Age-adjusted deaths per 100,000 population	
2002–2004.....	1,314	7.7	653	3.8	661	3.9	49.7
2001–2003.....	1,324	7.9	613	3.7	711	4.2	46.3
2000–2002.....	1,332	8.0	618	3.7	714	4.3	46.4
Wyoming							
2021–2023.....	489	24.6	356	18.6	133	6.0	72.8
2020–2022.....	543	27.4	408	21.3	135	6.1	75.1
2019–2021.....	519	26.7	394	21.0	125	5.6	75.9
2018–2020.....	455	23.8	346	18.6	109	5.2	76.0
2017–2019.....	376	19.1	278	14.5	98	4.6	73.9
2016–2018.....	317	15.8	235	12.0	82	3.8	74.1
2015–2017.....	312	15.7	227	11.8	85	3.9	72.8
2014–2016.....	302	15.9	218	11.8	84	4.1	72.2
2013–2015.....	308	16.4	221	11.8	87	4.5	71.8
2012–2014.....	292	15.5	208	11.0	84	4.5	71.2
2011–2013.....	285	15.4	204	10.9	81	4.4	71.6
2010–2012.....	267	14.6	172	9.5	95	5.1	64.4
2009–2011.....	224	12.4	137	7.6	87	4.8	61.2
2008–2010.....	217	12.0	130	7.2	87	4.8	59.9
2007–2009.....	228	12.9	146	8.1	82	4.8	64.0
2006–2008.....	237	13.8	165	9.5	72	4.2	69.6
2005–2007.....	220	13.0	149	8.7	71	4.3	67.7
2004–2006.....	180	10.8	121	7.2	59	3.6	67.2
2003–2005.....	167	10.4	97	5.9	70	4.5	58.1
2002–2004.....	175	11.2	106	6.7	69	4.5	60.6
2001–2003.....	176	11.4	104	6.7	72	4.7	59.1
2000–2002.....	170	11.2	101	6.6	69	4.6	59.4
Northeast region							
2021–2023.....	22,798	10.6	10,488	5.1	12,310	5.5	46.0
2020–2022.....	22,609	10.6	10,743	5.3	11,866	5.3	47.5
2019–2021.....	21,159	9.9	9,941	4.9	11,218	5.1	47.0
2018–2020.....	19,551	9.2	8,992	4.4	10,559	4.8	46.0
2017–2019.....	18,349	8.7	8,141	4.0	10,208	4.7	44.4
2016–2018.....	17,933	8.6	7,981	4.0	9,952	4.6	44.5
2015–2017.....	17,485	8.5	7,685	3.8	9,800	4.6	44.0
2014–2016.....	17,025	8.3	7,368	3.7	9,657	4.6	43.3
2013–2015.....	16,420	8.1	6,982	3.5	9,438	4.6	42.5
2012–2014.....	15,786	7.9	6,670	3.4	9,116	4.5	42.3
2011–2013.....	15,374	7.8	6,410	3.3	8,964	4.5	41.7
2010–2012.....	14,995	7.7	6,179	3.2	8,816	4.5	41.2
2009–2011.....	14,573	7.6	5,954	3.1	8,619	4.4	40.9
2008–2010.....	14,117	7.4	5,796	3.1	8,321	4.4	41.1
2007–2009.....	13,744	7.3	5,661	3.0	8,083	4.3	41.2
2006–2008.....	13,349	7.2	5,347	2.9	8,002	4.3	40.1
2005–2007.....	13,022	7.1	5,014	2.8	8,008	4.4	38.5
2004–2006.....	12,975	7.2	4,808	2.7	8,167	4.5	37.1
2003–2005.....	13,446	7.6	4,855	2.8	8,591	4.8	36.1
2002–2004.....	13,816	7.9	4,900	2.8	8,916	5.1	35.5
2001–2003.....	14,110	8.1	4,905	2.9	9,205	5.3	34.8
2000–2002.....	14,009	8.2	4,936	2.9	9,073	5.3	35.2

Table 7. Number of deaths and 3-year annual moving average of age-adjusted death rates¹ from liver cirrhosis with and without mention of alcohol, States, Census Regions, and the United States, 2000–2023. (Continued)

State or other geographic area and year	All cirrhosis		Alcohol-related cirrhosis		All other cirrhosis ²		Percent alcohol related
	Number of deaths	Age-adjusted deaths per 100,000 population	Number of deaths	Age-adjusted deaths per 100,000 population	Number of deaths	Age-adjusted deaths per 100,000 population	
Midwest region							
2021–2023.....	36,314	14.7	18,851	8.1	17,463	6.7	51.9
2020–2022.....	36,273	14.8	19,148	8.2	17,125	6.6	52.8
2019–2021.....	33,590	13.7	17,494	7.5	16,096	6.3	52.1
2018–2020.....	30,509	12.4	15,329	6.5	15,180	5.9	50.2
2017–2019.....	27,983	11.4	13,594	5.8	14,389	5.6	48.6
2016–2018.....	26,959	11.1	13,093	5.6	13,866	5.5	48.6
2015–2017.....	25,946	10.8	12,370	5.3	13,576	5.5	47.7
2014–2016.....	24,850	10.4	11,691	5.0	13,159	5.4	47.0
2013–2015.....	23,783	10.1	10,878	4.7	12,905	5.4	45.7
2012–2014.....	22,714	9.7	10,350	4.5	12,364	5.2	45.6
2011–2013.....	21,753	9.4	9,827	4.3	11,926	5.1	45.2
2010–2012.....	20,819	9.1	9,396	4.2	11,423	5.0	45.1
2009–2011.....	19,895	8.8	8,942	4.0	10,953	4.8	44.9
2008–2010.....	19,290	8.7	8,685	3.9	10,605	4.8	45.0
2007–2009.....	18,512	8.5	8,260	3.8	10,252	4.7	44.6
2006–2008.....	17,907	8.3	7,850	3.7	10,057	4.7	43.8
2005–2007.....	17,280	8.2	7,483	3.5	9,797	4.6	43.3
2004–2006.....	16,922	8.1	7,202	3.5	9,720	4.7	42.6
2003–2005.....	16,750	8.2	6,958	3.4	9,792	4.8	41.5
2002–2004.....	16,655	8.3	6,664	3.3	9,991	5.0	40.0
2001–2003.....	16,724	8.4	6,601	3.3	10,123	5.1	39.5
2000–2002.....	16,652	8.5	6,533	3.3	10,119	5.1	39.2
South region							
2021–2023.....	71,367	15.4	32,059	7.2	39,308	8.2	44.9
2020–2022.....	70,814	15.5	32,385	7.4	38,429	8.2	45.7
2019–2021.....	66,543	14.7	30,024	6.9	36,519	7.9	45.1
2018–2020.....	60,755	13.5	26,626	6.1	34,129	7.4	43.8
2017–2019.....	56,133	12.6	23,786	5.5	32,347	7.1	42.4
2016–2018.....	53,856	12.3	22,733	5.3	31,123	7.0	42.2
2015–2017.....	52,145	12.2	21,634	5.1	30,511	7.0	41.5
2014–2016.....	50,195	11.9	20,443	4.9	29,752	7.0	40.7
2013–2015.....	47,801	11.6	18,816	4.6	28,985	7.0	39.4
2012–2014.....	45,127	11.2	17,442	4.4	27,685	6.8	38.7
2011–2013.....	42,553	10.8	16,339	4.2	26,214	6.6	38.4
2010–2012.....	40,449	10.4	15,682	4.0	24,767	6.4	38.8
2009–2011.....	38,249	10.1	14,827	3.9	23,422	6.2	38.8
2008–2010.....	36,474	9.8	14,107	3.8	22,367	6.1	38.7
2007–2009.....	35,221	9.7	13,657	3.7	21,564	6.0	38.8
2006–2008.....	34,051	9.6	13,263	3.7	20,788	5.9	39.0
2005–2007.....	33,302	9.7	12,885	3.7	20,417	6.0	38.7
2004–2006.....	32,421	9.7	12,393	3.7	20,028	6.0	38.2
2003–2005.....	32,297	9.9	12,128	3.7	20,169	6.2	37.6
2002–2004.....	31,890	10.0	11,963	3.7	19,927	6.3	37.5
2001–2003.....	31,493	10.1	11,898	3.8	19,595	6.3	37.8
2000–2002.....	30,926	10.1	12,049	3.9	18,877	6.2	39.0
West region							
2021–2023.....	46,870	17.3	31,242	11.8	15,628	5.5	66.7
2020–2022.....	46,270	17.2	31,237	11.8	15,033	5.4	67.5

Table 7. Number of deaths and 3-year annual moving average of age-adjusted death rates¹ from liver cirrhosis with and without mention of alcohol, States, Census Regions, and the United States, 2000–2023. (Continued)

State or other geographic area and year	All cirrhosis		Alcohol-related cirrhosis		All other cirrhosis ²		Percent alcohol related
	Number of deaths	Age-adjusted deaths per 100,000 population	Number of deaths	Age-adjusted deaths per 100,000 population	Number of deaths	Age-adjusted deaths per 100,000 population	
2019–2021.....	43,209	16.1	29,254	11.1	13,955	5.0	67.7
2018–2020.....	38,668	14.5	25,840	9.8	12,828	4.7	66.8
2017–2019.....	35,904	13.6	24,007	9.2	11,897	4.4	66.9
2016–2018.....	34,720	13.4	23,426	9.1	11,294	4.3	67.5
2015–2017.....	34,363	13.5	23,400	9.2	10,963	4.2	68.1
2014–2016.....	33,340	13.3	22,729	9.1	10,611	4.2	68.2
2013–2015.....	32,278	13.1	21,886	8.9	10,392	4.2	67.8
2012–2014.....	30,517	12.7	20,491	8.5	10,026	4.2	67.1
2011–2013.....	29,384	12.4	19,738	8.3	9,646	4.1	67.2
2010–2012.....	27,893	12.0	18,901	8.1	8,992	3.9	67.8
2009–2011.....	26,656	11.8	18,199	8.0	8,457	3.8	68.3
2008–2010.....	25,481	11.5	17,449	7.8	8,032	3.7	68.5
2007–2009.....	24,828	11.5	16,875	7.7	7,953	3.8	68.0
2006–2008.....	23,669	11.2	15,860	7.4	7,809	3.8	67.0
2005–2007.....	22,689	11.0	15,002	7.2	7,687	3.8	66.1
2004–2006.....	21,604	10.8	14,123	6.9	7,481	3.8	65.4
2003–2005.....	21,321	10.9	13,895	7.0	7,426	3.9	65.2
2002–2004.....	21,072	11.0	13,502	7.0	7,570	4.1	64.1
2001–2003.....	21,037	11.3	13,284	7.0	7,753	4.3	63.1
2000–2002.....	20,697	11.4	12,919	7.0	7,778	4.4	62.4
U.S. Total							
2021–2023.....	177,349	14.9	92,640	8.1	84,709	6.8	52.2
2020–2022.....	175,966	14.9	93,513	8.2	82,453	6.7	53.1
2019–2021.....	164,501	14.0	86,713	7.6	77,788	6.4	52.7
2018–2020.....	149,483	12.8	76,787	6.8	72,696	6.0	51.4
2017–2019.....	138,369	11.9	69,528	6.1	68,841	5.7	50.2
2016–2018.....	133,468	11.6	67,233	6.0	66,235	5.6	50.4
2015–2017.....	129,939	11.5	65,089	5.9	64,850	5.6	50.1
2014–2016.....	125,410	11.3	62,231	5.7	63,179	5.6	49.6
2013–2015.....	120,282	11.0	58,562	5.4	61,720	5.6	48.7
2012–2014.....	114,144	10.6	54,953	5.1	59,191	5.4	48.1
2011–2013.....	109,064	10.3	52,314	5.0	56,750	5.3	48.0
2010–2012.....	104,156	10.0	50,158	4.8	53,998	5.2	48.2
2009–2011.....	99,373	9.7	47,922	4.7	51,451	5.0	48.2
2008–2010.....	95,362	9.5	46,037	4.6	49,325	4.9	48.3
2007–2009.....	92,305	9.4	44,453	4.5	47,852	4.9	48.2
2006–2008.....	88,976	9.2	42,320	4.4	46,656	4.9	47.6
2005–2007.....	86,293	9.2	40,384	4.3	45,909	4.9	46.8
2004–2006.....	83,922	9.1	38,526	4.1	45,396	4.9	45.9
2003–2005.....	83,814	9.3	37,836	4.2	45,978	5.1	45.1
2002–2004.....	83,433	9.4	37,029	4.2	46,404	5.3	44.4
2001–2003.....	83,364	9.6	36,688	4.2	46,676	5.4	44.0
2000–2002.....	82,284	9.6	36,437	4.3	45,847	5.4	44.3

¹ Rates per 100,000 population computed by the direct standardization method, using year 2000 total population of the United States as the standard age distribution.

² Includes specified and unspecified liver cirrhosis without mention of alcohol.

Appendix A. Data sources of population estimates at the national and State levels and for Hispanic subgroups.

Year	Description	Source ¹
National Population (1910–2023)		
2020–2023.....	Single-race postcensal estimates for July 1 resident population of the United States developed by the U.S. Census Bureau	U.S. Census Bureau (2024b)
2010–2020.....	Bridged-race postcensal estimates for July 1 resident population of the United States developed for the National Center for Health Statistics by the U.S. Census Bureau	National Center for Health Statistics (2021)
2000–2009.....	Bridged-race intercensal estimates for July 1 resident population developed for the National Center for Health Statistics by the U.S. Census Bureau	National Center for Health Statistics (2012)
1990–1999.....		National Center for Health Statistics (2003)
1970–1989.....	Population estimates developed for the National Cancer Institute by the U.S. Census Bureau	National Cancer Institute (2002)
1960–1969.....	Estimates for July 1 resident population based on the Current Population Reports Series developed by the U.S. Bureau of the Census	U.S. Bureau of the Census (1974)
1940–1959.....	Population estimates developed by the National Center for Health Statistics	Grove and Hetzel (1968)
1937–1939.....	Population estimates developed by the U.S. Bureau of the Census	Bureau of the Census (1939–1946)
1910–1936.....	Population estimates developed by the U.S. Bureau of the Census	Linder and Grove (1943)
State Population (2000–2023)		
2020–2023.....	Single-race postcensal estimates for July 1 resident population of the United States developed by the U.S. Census Bureau	U.S. Census Bureau (2024b)
2010–2019.....	Bridged-race postcensal estimates for July 1 resident population of the United States developed for the National Center for Health Statistics by the U.S. Census Bureau	National Center for Health Statistics (2021)
2000–2009.....	Bridged-race intercensal estimates for July 1 resident population developed for the National Center for Health Statistics by the U.S. Census Bureau	National Center for Health Statistics (2012)
Hispanic Subgroup Population (2000–2023)		
2020–2023.....	The 1-year American Community Survey Public Use Microdata Samples adjusted to postcensal July 1, 2020, resident population control totals. Estimates prepared by the U.S. Census Bureau for the National Center for Health Statistics based on the 1-year American Community Survey adjusted to control totals (i.e., 2010-based postcensal estimates of the U.S. resident population on July 1 of each year for 2010–2019). Estimates prepared by the U.S. Census Bureau for the National Center for Health Statistics based on the Current Population Survey adjusted to control totals (i.e., 1990- and 2000-based postcensal estimates of the U.S. resident population on July 1 of each year for 2000 and 2001–2009, respectively).	U.S. Census Bureau (2024a)
2019.....		Xu et al. (2021)
2018.....		Murphy et al. (2021)
2017.....		Kochanek et al. (2019)
2016.....		Xu et al. (2018)
2015.....		Murphy et al. (2017)
2014.....		Kochanek et al. (2016)
2013.....		Xu et al. (2016)
2012.....		Murphy et al. (2015)
2011.....		Kochanek et al. (2015)
2010.....		Murphy et al. (2013)
2009.....		Kochanek et al. (2011)
2008.....		Miniño et al. (2011)
2007.....		Xu et al. (2010)
2006.....		Heron et al. (2009)
2005.....		Kung et al. (2008)

Appendix A. Data sources of population estimates at the national and State levels and for Hispanic subgroups. (Continued)

Year	Description	Source ¹
2004.....	Estimates prepared by the U.S. Census Bureau for the National Center for Health Statistics based on the Current Population Survey adjusted to control totals (i.e., 1990- and 2000-based postcensal estimates of the U.S. resident population on July 1 of each year for 2000 and 2001–2009, respectively).	Miniño et al. (2007)
2003.....		Hoyert et al. (2006)
2002.....		Kochanek et al. (2004)
2001.....		Arias et al. (2003)
2000.....		Miniño et al. (2002)

¹ See References for full citations.