Alcohol Use and Your Health

Drinking too much can harm your health. Excessive alcohol use leads to about 88,000 deaths in the United States each year, and shortens the life of those who die by almost 30 years. Further, excessive drinking cost the economy \$249 billion in 2010. Most excessive drinkers are not alcohol dependent.



Excessive alcohol use has immediate effects that increase the risk of many harmful health conditions. These are most often the result of binge drinking. Over time, excessive alcohol use can lead to the development of chronic diseases and other serious problems.

Short-Term Health Risks

Injuries

- Motor vehicle crashes
- Falls
- Drownings
- Burns

Violence

- Homicide
- Suicide
- Sexual assault
- Intimate partner violence

Alcohol poisoning

Reproductive health

- Risky sexual behaviors
- Unintended pregnancy
- Sexually transmitted diseases, including HIV
- Miscarriage
- Stillbirth
- Fetal alcohol spectrum disorders (FASDs)



Long-Term Health Risks

Chronic diseases

- High blood pressure
- Heart disease
- Stroke
- Liver disease
- Digestive problems

Cancers

- Breast
- Mouth and throat
- Liver
- Colon

Learning and memory problems

- Dementia
- Poor school performance

Mental health

- Depression
- Anxiety

Social problems

- Lost productivity
- Family problems
- Unemployment

Alcohol dependence

Sobering Facts: Alcohol-Impaired Driving

MISSISSIPPI



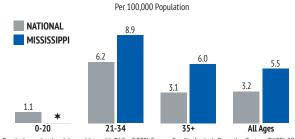
KEEP MISSISSIPPI SAFE Keep alcohol-impaired drivers off the road.

This fact sheet provides a snapshot of **alcohol-impaired driving deaths** and an overview of proven strategies to reduce or prevent alcohol-impaired driving. The information can help decision makers and community partners see gaps and identify relevant strategies to address the problem of alcoholimpaired driving.

FAST FACTS

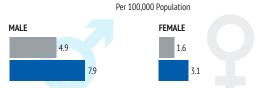
- Drivers with a blood alcohol concentration (BAC) above the state's legal limit are considered alcohol-impaired by law.
- More than 10,000 people in the United States die each year in crashes that involve an alcohol-impaired driver.
- Because of dedicated efforts, rates of alcohol-impaired driving and alcohol-impaired fatal crashes in the United States have gone down since the 1980s.
- Still, alcohol-impaired drivers get behind the wheel millions of times each year.

ALCOHOL-IMPAIRED DRIVING DEATH RATES BY AGE



Deaths in crashes involving a driver with BAC ≥ 0.08%. Source: Fatality Analysis Reporting System (FARS), 2018 ★ Fatality rates based on fewer than 20 deaths are suppressed.

ALCOHOL-IMPAIRED DRIVING DEATH RATES BY SEX



Deaths in crashes involving a driver with BAC ≥ 0.08%. Source: Fatality Analysis Reporting System (FARS), 2018





Centers for Disease Control and Prevention National Center for Injury Prevention and Control

Working together, we can help keep people safe on the road-every day. www.cdc.gov/motorvehiclesafety/impaired_driving/states

WHAT WORKS

The strategies in this section are effective for reducing or preventing alcoholimpaired driving. They are recommended by *The Guide to Community Preventive Services* and/or have been demonstrated to be effective in reviews by the National Highway Traffic Safety Administration.* Different strategies might require different resources for implementation or have different levels of impact. **Find strategies that are right for your state.**

Strategies to Reduce or Prevent Alcohol-Impaired Driving

- Alcohol-impaired driving laws make it illegal to drive with a BAC at or above a specified level (0.05% or 0.08%, depending on the state). For people under 21, zero tolerance laws make it illegal to drive with any measurable amount of alcohol in their systems. These laws, along with laws that maintain the minimum legal drinking age at 21, are in place in all 50 states and DC and have saved tens of thousands of lives.
- **Publicized sobriety checkpoints** allow police to briefly stop vehicles at specific, highly visible locations to check drivers for impairment. Police may stop all or a certain portion of drivers. Sobriety checkpoints should be well publicized (e.g., through **mass media campaigns**) and conducted regularly for greatest impact.
- **High-visibility saturation patrols** consist of a large number of police patrolling a specific area, usually at times and locations where alcohol-impaired driving crashes are more common. Like sobriety checkpoints, these patrols should be well publicized and conducted regularly.
- Ignition interlocks for all, including first-time, convicted offenders can be installed in vehicles to measure alcohol on drivers' breath. Interlocks keep vehicles from starting if drivers have a BAC above a certain level, usually 0.02%. Interlocks are highly effective at preventing repeat offenses while installed. Incorporating **alcohol problem assessment and treatment** into interlock programs shows promise in reducing repeat offenses once interlocks are removed.
- Alcohol problem assessment and treatment programs can be used for those arrested for alcohol-impaired driving. Treatment is most effective when combined with other sanctions and when offenders are closely monitored. Assessment and treatment are critical to the success of **DWI courts**, which are specialized courts focused on changing the behavior of alcohol-impaired driving offenders.
- Alcohol screening and brief interventions take advantage of "teachable moments" and can be delivered in health care, university, and other settings to identify people at risk for alcohol problems and get them treatment as needed.
- **Multi-component interventions** combine several programs or policies to prevent alcohol-impaired driving. The key to these comprehensive efforts is **community mobilization**, which involves coalitions or task forces in design and implementation.
- School-based instructional programs are effective at teaching teens not to ride with alcohol-impaired drivers.

IN MISSISSIPPI:

- It is illegal to drive with a BAC at or above 0.08%.
- Publicized sobriety checkpoints are allowed.
- Ignition interlocks are required for all (including first-time) convicted offenders.

For up-to-date information on laws in your state, check with the Insurance Institute for Highway Safety at **www.iihs.org.**



Find more information at www.cdc.gov/motorvehiclesafety

- Injuries, costs, and other data related to alcohol-impaired driving.
- Detailed information on effective strategies to reduce or prevent alcohol-impaired driving.
- An interactive calculator to estimate the expected number and monetized value of injuries prevented, lives saved, and costs of implementation for 14 effective interventions.

*Source: The Guide to Community Preventive Services (The Community Guide), Motor Vehicle-Related Injury Prevention, at www.thecommunityguide.org, and National Highway Traffic Safety Administration (2018) Countermeasures that work: a highway safety countermeasures guide for State Highway Safety Offices, Ninth edition, at www.nhtsa.gov/sites/nhtsa.dot.gov/files/documents/812478_countermeasures-that-work-a-highway-safety-countermeasures-guide.pdf



WHAT WORKS

Preventing Excessive Alcohol Consumption

Evidence-Based Interventions for Your Community



xcessive alcohol consumption is a risk factor for many health and social problems, contributing to 88,000 deaths each year in the United States.¹ In 2006, the estimated economic cost of excessive drinking in the U.S. was \$223.5 billion.² Drinking too much can cause immediate harm such as injuries from motor vehicle crashes, violence, and alcohol poisoning, and drinking too much over time can cause chronic diseases, such as cancer and heart disease.¹

This brochure is designed to help public health program planners, community advocates, educators, and policymakers find proven intervention strategies—including programs, services, and policies—for preventing excessive alcohol consumption and related harms. It can help decision makers in both public and private sectors make choices about what intervention strategies are best for their communities. This brochure summarizes information in The Guide to Community Preventive Services (The Community Guide), an essential resource for people who want to know what works in public health. Use the information in this brochure to help select intervention strategies you can adapt for your community to:

- Reduce excessive alcohol use, including binge drinking and underage drinking.
- Reduce the risk of chronic conditions such as liver disease, high blood pressure, heart disease, and cancer.
- Reduce violent crime, motor vehicle injuries, and alcohol-exposed pregnancies.
- Reduce youth access to alcohol.

The Community Guide provides evidence-based findings and recommendations from the Community Preventive Services Task Force (Task Force) about community preventive services, programs, and policies to improve health. Learn more about The Community Guide and what works to reduce excessive alcohol consumption and related harms by visiting www.thecommunityguide.org/alcohol/index.html.

The Centers for Disease Control and Prevention provides administrative, research, and technical support for the Community Preventive Services Task Force.

THE PUBLIC HEALTH CHALLENGE

Excessive drinking has a substantial public health impact

Average Annual Alcohol-Attributable Deaths in the U.S. (2006 to 2010)

Cause	Number of Annual Fatalities
Chronic causes (e.g., liver disease)	38.253
Acute causes (e.g., homicide)	49,544
Total for all causes	87,798

Source: Alcohol-Related Disease Impact (ARDI), 2014

- Drinking too much alcohol is responsible for 88,000 deaths annually, including 1 in 10 deaths among working-age adults in the U.S.¹
- Excessive alcohol use costs the U.S. \$223.5 billion or \$1.90 per drink—in 2006 due to lost workplace productivity, healthcare expenses, and crime. Federal, state, and local governments paid 42% of these costs or 80 cents per drink.²
- About 9 in 10 excessive drinkers are **not** alcohol dependent, or addicted to alcohol.³

For national and state estimates of alcohol-related deaths and years of potential life lost, see CDC's Alcohol-Related Disease Impact (ARDI) application at www.cdc.gov/ardi.

For more information on excessive alcohol consumption in the U.S., including state-by-state data, see www.cdc.gov/alcohol.

Binge drinking is the main problem



Source: Behavioral Risk Factor Surveillance System (BRFSS), 2011

- Binge drinking is defined as having 4 or more drinks on an occasion (2-3 hours) for women, or 5 of more drinks on an occasion for men.⁴
- Binge drinking is the most common and most dangerous pattern of excessive drinking. It is responsible for more than half of the deaths and three-quarters of the economic costs associated with excessive alcohol use.^{1,2}
- 1 in 6 adults binge drinks about four times a month, consuming about eight drinks per binge.⁵
- About 1 in 4 high school students report binge drinking.⁶

EVALUATING THE EVIDENCE

- The Task Force findings and recommendations for interventions strategies to prevent excessive alcohol consumption are based on systematic reviews of the available evidence.
- The systematic reviews look at the results of research and evaluation studies published in peer-reviewed journals and other sources.
- Each systematic review looks at the intervention strategy's effectiveness and how it works in different populations and settings. If found effective, cost and return on investment are also reviewed when available.
- For each intervention strategy, a summary of the systematic review, evidence gaps, and journal publications can be found on the Preventing Excessive Alcohol Consumption section of the website at www. thecommunityguide.org/alcohol/index.html.

Community Preventive Services Task Force

The Guide to Community Preventive Services (The Community Guide) is an essential resource for people who want to know what works in public health. It provides evidence-based findings about public health interventions and policies to improve health and promote safety. The Community Preventive Services Task Force (Task Force)—an independent, nonfederal, unpaid body of public health and prevention experts—bases its findings on systematic reviews of the scientific literature. With oversight from the Task Force, scientists and subject matter experts from the Centers for Disease Control and Prevention conduct these reviews in collaboration with a wide range of government, academic, policy, and practice-based partners.

SUMMARIZING THE FINDINGS ON EXCESSIVE ALCOHOL CONSUMPTION

All ten Task Force findings and recommendations on preventing excessive alcohol consumption are available online at www.thecommunityguide.org/alcohol. Six of the ten Task Force recommendations related to reducing excessive alcohol consumption are below.

- Increasing alcohol taxes. Increasing the price of alcohol by raising taxes has proven effective in reducing consumption, leading to fewer deaths and injuries due to motor vehicle crashes, liver disease, violence, and other alcohol-related problems. For every 10% increase in price, alcohol consumption is expected to decrease by more than 7%. Public health effects are expected to be proportional to the size of the tax increase. Higher alcohol prices may also reduce underage drinking.
- ✓ Dram shop liability. Dram shop (or commercial host) liability refers to laws that hold alcohol retailers liable for injuries or deaths caused by a patron who was illegally served or sold alcohol because they were either intoxicated or under the age of 21 at the time of service. Commercial host liability is effective in preventing and reducing alcoholrelated harms. For example, there was a median 6.4% reduction in deaths resulting from motor vehicle crashes in states with commercial host liability.
- Regulation of alcohol outlet density. Alcohol outlet density refers to the number and concentration of alcohol retailers (e.g. bars, restaurants, and liquor stores) in an area. Higher alcohol outlet density is associated with

excessive alcohol use and related harms, including injuries and violence. Alcohol outlet density is often regulated by licensing or zoning regulations. States vary in the extent to which they allow local governments to regulate the licensing and placement of retail alcohol outlets.

- **Electronic screening and brief interventions (e-SBI).** The delivery of screening and brief interventions for excessive alcohol use using electronic devices, such as computers, is effective for reducing self-reported excessive alcohol consumption and alcohol-related problems among intervention participants. Some e-SBI programs are fully automated while others combine screening by a health professional with the automated delivery of counseling services. The use of e-SBI can reduce the amount of time required to deliver screening and counseling services.
- **Enhanced enforcement of laws prohibiting sales to minors.** Enforcing minimum drinking age laws through retailer compliance checks and sanctions is effective in reducing sales of alcohol to minors in commercial settings by a median of 42 percent. Enhanced enforcement programs are often part of multi-component, communitybased efforts to curb underage drinking.

The Task Force **recommends against** the further **privatization of retail alcohol sales** in settings with current government control of retail sales. Privatization, which allows non-governmental retailers to sell a type of alcoholic beverage (e.g. distilled spirits), was found to increase the per capita sales of the privatized beverage type by a median of 44.4%, and decrease the sale of other types of alcohol by 2.2%. Privatization often results in increases in alcohol outlet density, days and hours of sales, and alcohol advertising, which are associated with increased consumption and alcohol-related harms.

PUTTING THE TASK FORCE FINDINGS TO WORK

As a public health decision maker, practitioner, community leader, or someone who can influence the health of your community, you can use The Community Guide to create a blueprint for success.

- Identify your community's needs. Review the intervention strategies recommended by the Task Force and determine which ones best match your needs. Adopt or adapt evidence-based programs, services, and policies that can prevent excessive alcohol consumption and related harms in your community.
- Consult CDC's Prevention Status Reports on Excessive Alcohol Use at www.cdc.gov/psr/alcohol to learn the status of public health policies to prevent excessive drinking, including alcohol taxes, dram shop liability, and local authority to regulate alcohol density in your state.
- Consult CDC's Prevention of Excessive Alcohol Use at www.cdc.gov/alcohol/fact-sheets/prevention.htm for more information on the prevention of excessive drinking.



WHAT WORKS Preventing Excessive Alcohol Consumption

FOR MORE INFORMATION

The Community Guide: Preventing Excessive Alcohol Consumption www.thecommunityguide.org/alcohol

Alcohol Program, National Center for Chronic Disease Prevention and Health Promotion, CDC www.cdc.gov/alcohol

CDC Vital Signs: Binge Drinking www.cdc.gov/VitalSigns/bingedrinking

National Prevention Strategy Resources on Preventing Drug Abuse and Excessive Alcohol Use

www.surgeongeneral.gov/initiatives/prevention/strategy/ preventing-drug-abuse-excessive-alcohol-use





New Mexico Enforces Policies to Combat Binge Drinking

In New Mexico in 2004, many adults who reported drinking in bars reported consuming ten or more drinks and driving after doing so, contributing to the high rate of alcohol-attributable motor vehicle crash deaths in the state. In 2005, the state launched a campaign to increase enforcement of existing liquor laws as part of a campaign to reduce alcohol-impaired driving. As a result, between 2004-2005 and 2007-2008, New Mexico saw a 16 percent decrease in binge drinking intensity (the number of drinks consumed on the last binge drink occasion) from 8.3 to 7.0 drinks per occasion among adult binge drinkers who reported drinking in bars and clubs. Read more on this story at www. healthypeople.gov/2020/healthy-people-in-action/story/reducing-binge-drinking-new-mexicos-driving-while-intoxicated.



Omaha Targets Alcohol Outlet Density

In 2010, Nebraska had the second highest adult binge drinking prevalence in the nation. The number of liquor licenses being granted was growing at a rate of twice the increase in the state's population. In Omaha, underage drinking and youth access to alcohol had become a critical public health issue. The community responded by launching the LOCAL (Let Omaha Control its Alcohol Landscape) campaign to push for measures to address alcohol outlet density. In October 2012, the Omaha City Council passed a land-use ordinance that included new nuisance abatement standards for alcohol outlets. Alcohol retailers who did not comply with the ordinance faced losing their certificate of occupancy. Read more on this story at www.cdc.gov/pcd/issues/2013/12_0090.htm.

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⁶Kann L, Kinchen SA, Shanklin S,et al. Youth Risk Behavior Surveillance—United States, 2013. CDC Morb Mort Surveil Summ 2014;63(SS-04):1–168.

www.thecommunityguide.org

The Guide to Community Preventive Services **THE COMMUNITY GUIDE** What Works to Promote Health



Preventing Excessive Alcohol Consumption

Evidence-Based Interventions for Your Community

TASK FORCE FINDINGS ON EXCESSIVE ALCOHOL CONSUMPTION

The Community Preventive Services Task Force (Task Force) has released the following findings on what works in public health to prevent excessive alcohol consumption and related harms. These findings are compiled in The Guide to Community Preventive Services (The Community Guide) and listed in the table below. Use the findings to identify intervention strategies you could use for your community.

Legend for Task Force Findings:

Recommended



Evidence

Recommended Against

(See reverse for detailed descriptions.)

Intervention	Task Force Finding	
Interventions Directed to the General Population		
Increasing alcohol taxes		
Regulation of alcohol outlet density		
Dram shop liability		
Maintaining limits on days of sale		
Maintaining limits on hours of sale		
Electronic screening and brief interventions (e-SBI)		
Overservice law enforcement initiatives	\diamond	
Responsible beverage service training	\diamond	
Privatization of retail alcohol sales		
Interventions Directed to Underage Drinkers		
Enhanced enforcement of laws prohibiting sales to minors		

Visit the "Preventing Excessive Alcohol Consumption" page of The Community Guide website at www.thecommunityguide.org/ alcohol to find summaries of Task Force findings and recommendations on preventing excessive alcohol consumption. Click on each topic area to find results from the systematic reviews, included studies, evidence gaps, and journal publications.

The Centers for Disease Control and Prevention provides administrative, research, and technical support for the Community Preventive Services Task Force.

UNDERSTANDING THE FINDINGS

The Task Force bases its findings and recommendations on systematic reviews of the scientific literature. With oversight from the Task Force, scientists and subject matter experts from the Centers for Disease Control and Prevention conduct these reviews in collaboration with a wide range of government, academic, policy, and practice-based partners. Based on the strength of the evidence, the Task Force assigns each intervention to one of the categories below.

CATEGORY	DESCRIPTION	ICON
Recommended	There is strong or sufficient evidence that the intervention is effective . This finding is based on the number of studies, how well the studies were designed and carried out, and the consistency and strength of the results.	
Insufficient Evidence	There is not enough evidence to determine whether the intervention is effective. This does not mean the intervention does not work. There is not enough research available or the results are too inconsistent to make a firm conclusion about the intervention's effectiveness. The Task Force encourages those who use interventions with insufficient evidence to evaluate their efforts.	\diamondsuit
Recommended Against	There is strong or sufficient evidence that the strategy is harmful or not effective .	

Visit the "Systematic Review Methods" page on The Community Guide website at www.thecommunityguide. org/about/methods.html for more information about the methods used to conduct the systematic reviews and the criteria the Task Force uses to make findings and recommendations.

RESOURCES

You can use the following resources to guide the implementation of evidence-based strategies and put the Task Force findings to work.

- Prevention Status Reports on Excessive Alcohol Use CDC Office for State, Tribal, Local, and Territorial Support www.cdc.gov/psr/alcohol
- National Prevention Strategy
 Preventing Drug Abuse and Excessive Alcohol Use
 www.surgeongeneral.gov/initiatives/prevention/strategy/preventing-drug-abuse-excessive-alco hol-use
- CDC Vital Signs
 Binge Drinking
 www.cdc.gov/vitalsigns/bingedrinking
- Preventing Excessive Alcohol Use Fact Sheet CDC Alcohol Program www.cdc.gov/alcohol/fact-sheets/prevention.htm