Current Staff:
Henry Wechsler, PhD  
Principal Investigator
Meichun Kuo, ScD  
Research Specialist
Jae Eun Lee, DrPH  
Research Analyst
Karen Powers, MBA, MA  
Project Manager
Mark Seibring, BS  
Research Specialist
Jeff Hansen, BA  
Programmer

Past Staff:
Jeana Gledhill-Hoyt, MPH  
Research Specialist
Inkyung Baik, MPH  
Research Analyst
Andrea Davenport, MS  
Research Analyst
Barbara Moeykens, MS  
Research Analyst
Kathleen Kelley, MBA  
Research Assistant

Consultants:
Hang Lee, PhD  
Frank Chaloupka, PhD
George Dowdall, PhD  
Anthony Roman, PhD
Elizabeth Soloman, BA  
Martha Fay, MPH

With the Editorial Assistance of Burness Communications

With Design Assistance of Landesberg Design Associates

With Grant Support from The Robert Wood Johnson Foundation

Web Address: www.hsph.harvard.edu/cas

E-mail: hwechsle@hsph.harvard.edu
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The Persistent Problem of Binge Drinking

Alcohol abuse has been entrenched on America’s campuses since the first colleges were chartered in colonial days. Yet, until recently, heavy college drinking has been largely ignored, tolerated, or winked at.

The Harvard School of Public Health College Alcohol Study (CAS) has begun to change that. Our landmark 1993 survey was the first national study to track just how widespread and harmful binge drinking had become. It put college binge drinking on the national agenda, where it has gained widespread public attention ever since.

Since 1993, our three national surveys have reported on the extent and impact of binge drinking on colleges across America. They have asked basic questions: What is binge drinking? How extensive is it? How does it affect students who binge drink and those who do not? Who is most likely to binge drink? How does the community contribute to the problem? What are the most promising solutions?

The College Alcohol Study has made major contributions to understanding the campus culture of heavy drinking. We introduced the term, “binge drinking,” and changed the focus of attention from the use of alcohol in general to this form of drinking. We also introduced the concept of “second-hand effects,” the harms inflicted on non-drinking students by others’ binge drinking. These two concepts have helped focus national attention and sparked campus efforts to address the problem.

The Study defines binge drinkers as male students who had five or more and female students who had four or more drinks in a row at least once in a two-week period (the 5/4 measure). While five drinks may seem like a small quantity to some people, we have found it to be a marker for the presence of problems experienced by students who drink alcohol. For example, frequent binge drinkers, nearly one-quarter of all students, account for over three-fifths of all the students who report being injured, committing vandalism, and experiencing problems with the police. The 5/4 measure represents a danger sign—a warning of health, social, economic, and legal consequences ahead.
Campus administrators, policymakers, and others now widely use the concept of binge drinking. For instance, the U.S. Surgeon General has included among the nation’s health goals a 50 percent reduction in college binge drinking by the year 2010. The U.S. Centers for Disease Control and Prevention now provide annual state binge drinking-rate reports. The U.S. Senate and House of Representatives have passed resolutions urging actions to address college binge drinking.

The College Alcohol Study also led the way in showing how bingeing students harm and violate the rights of others on campus. These second-hand effects range from automobile-related fatalities to serious injuries, and from vandalism and physical assaults to problems of everyday life such as losing sleep and study time. Now that the toll of second-hand effects has been recognized, it is more difficult to dismiss college binge drinking as a rite of passage. The damage to the quality of life of innocent bystanders makes it essential for colleges to act.

Today, two in three college presidents consider binge drinking a problem and are looking for ways to combat it. The College Alcohol Study has provided valuable information to help guide those efforts. It not only has shown the breadth and depth of the problem, but also has pointed toward solutions. Critically, it has shown that the majority (56 percent) of students do not binge drink. Furthermore, these students expect and deserve a safe environment in which to study and socialize. Together, college administrators, students, and communities can change the culture of campus binge drinking.

<table>
<thead>
<tr>
<th>Percent of students that are frequent binge drinkers rose in the 1990s, as did the percent of abstainers.</th>
<th>1993</th>
<th>1997</th>
<th>1999</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frequent binge drinker</td>
<td>20%</td>
<td>21%</td>
<td>23%</td>
</tr>
<tr>
<td>Occasional binge drinker</td>
<td>25%</td>
<td>22%</td>
<td>21%</td>
</tr>
<tr>
<td>Non-binge drinker</td>
<td>40%</td>
<td>38%</td>
<td>37%</td>
</tr>
<tr>
<td>Abstainer</td>
<td>15%</td>
<td>19%</td>
<td>19%</td>
</tr>
</tbody>
</table>

“I’ve avoided frats and alcohol venues altogether. More than anything, it makes me sad to see my friends drinking.” — College student

Frequent binge drinkers consume 72% of all alcohol that college students drink.

Share consumed by:
- Frequent binge drinkers (72%)
- Occasional binge drinkers (20%)
- All other students (8%)
The College Alcohol Study

The College Alcohol Study has conducted three national surveys throughout the 1990s. They included 17,592 students in 1993, 15,685 in 1997, and 14,941 in 1999. Students at 140 four-year colleges and universities in 40 states and the District of Columbia participated.

The colleges represent a cross-section of American higher education. Two-thirds are public, one-third are private. About two-thirds are in urban or suburban areas, and one-third are in small towns or rural settings. Fifteen percent are religious institutions, 5 percent enroll women only, and 4 percent are historically black colleges.

At each institution, administrators provided a random sample of over 200 undergraduates to whom we mailed the national survey. Student responses were voluntary and anonymous. In each of the three surveys, 60 to 70 percent of students responded. To ensure that the findings were representative of American college students, we carried out careful statistical controls, including a short survey form that followed up with non-respondents.

The national surveys asked students about their drinking behavior, reasons for drinking, and high school drinking experience. Students who drank in college were asked about alcohol-related problems they had experienced, and all students were asked about the consequences of other students’ drinking.
Binge Drinking Defined

Our measure of binge drinking is a simple and direct indicator of problems. It is not a chemical measure, as is a Breathalyzer test. It is a public health screening device. Frequent binge drinkers experience and cause more problems than occasional binge drinkers, who in turn have more problems than drinkers who do not binge.

**Binge drinker:** Male who consumed five or more drinks in a row; female who consumed four or more drinks in a row at least once in a two-week period.

**Occasional binge drinker:** Student who binged one or two times in a two-week period.

**Frequent binge drinker:** Student who binged three or more times in a two-week period.

**Drink:** A 12-ounce beer, a four-ounce glass of wine, a 12-ounce wine cooler, or a shot of liquor taken straight or in a mixed drink.

Is Binge Drinking Increasing?

From 1993 until today, the proportion of students who binge drink (44 percent) has remained remarkably stable. However, the most extreme forms of binge drinking are increasing. Frequent binge drinkers, for example, increased from about 20 percent of all students in 1993 to 23 percent in 1999. Other forms of extreme drinking are also on the rise.

As students binge more frequently, campuses are becoming increasingly polarized between heavy drinkers and abstainers. Almost one-fourth of all college students binge drink frequently, and almost one-fifth abstain. The prevalence of abstainers increased from 15 percent in 1993 to 19 percent in 1999. It may be that a growing number of all students are abstaining in reaction to the extremes of drinking among their fellow students.

Heavy alcohol use affects more students than other drugs combined. More students drink than use cocaine, marijuana, or cigarettes combined.
What Are the Centers of Student Binge Drinking?

Fraternities and sororities and intercollegiate athletics are centers of alcohol abuse on campuses.

While student binge drinkers tend to be male, white, and under 24 years of age, the strongest predictor of binge drinking is fraternity or sorority residence or membership. Four of five students who live in fraternities and sororities are binge drinkers.

Athletes binge more than others. In 1999, 29 percent of athletes were frequent binge drinkers, compared to 22 percent of non-athletes.

Students least likely to binge are African American or Asian, age 24 years or older, or married. As a group, African Americans, and particularly women, have the lowest prevalence of binge drinking. In 1999, only 16 percent of African American students binged, compared to 49 percent of white students.

Students who put a priority on their studies, who devote time to special interests such as art, or who participate in volunteer activities are less likely to binge.

How Bingeing Students Harm Themselves

Every year, students die in alcohol-related tragedies: acute alcohol poisonings, car accidents, drownings, falls, and fights. While such tragedies are relatively rare, they underscore the multiple and far-reaching consequences of binge drinking.

Compared to non-binge drinkers, frequent bingers are 17 times more likely to miss a class, ten times more likely to vandalize property, and eight times more likely to get hurt or injured as a result of their drinking.

Binge drinking also contributes to poor academic performance and college dropout rates.
How Bingeing Students Harm Others

Many non-bingeing students experience second-hand effects of others’ binge drinking. Like second-hand smoke, those effects can range from annoying to serious.

Non-binge drinking students and abstainers who live on high-binge campuses are especially at risk. In 1999, they were twice as likely to suffer second-hand effects as were students at low-binge campuses.

How Binge Drinking Affects Women

Binge drinking is a women’s health issue. Because of differences in metabolism, women are affected by alcohol much more readily than men. Therefore, if they match a man drink-for-drink, they face greater health and behavioral risks.

Heavy alcohol use, coupled with inexperience with drinking, puts young women in serious jeopardy for sexual assault. About 10 percent of female students who are frequent binge drinkers report being raped or subjected to nonconsensual sex, compared to only 3 percent of non-bingeing female students. Furthermore, most campus rapes occur after heavy drinking.

Female students tend to underestimate their drinking problems more than men. Among drinkers who binged three or more times in the past two weeks, 20 percent of the men described themselves as heavy or problem drinkers, compared to only 7 percent of the women.

The Special Nature of Underage Drinking

Students under 21 years of age tend to drink on fewer occasions, but drink more per occasion and have more alcohol-related problems than of-age students.

In our 1999 survey, two in three underage students reported drinking in the past 30 days. Although alcohol is not legally available to them, underage students report...
that it is easy to obtain, usually at little or no cost. Some 58 percent of underage students reported that they paid less than one dollar for a drink, got it free, or paid a set price for all they could drink, compared to 16 percent of students 21 to 23 years of age.

Paying less allows students to drink more. About 42 percent of underage students usually consumed five or more drinks when they drank, compared with 27 percent of older students. The basis for underage drinking is easy access, cheap prices, and a steady flow of beer.

Furthermore, most underage college binge drinkers began to drink in high school, and more than half of all college binge drinkers first binged in high school.

**The Sale and Marketing of Alcohol to College Students**

Many colleges are surrounded by a ring of bars and liquor stores within one mile of campus. These establishments compete for customers, and many aggressively market their goods to students. Competition drives down prices, and often a dollar or less is all a student needs for a drink. Marketing tactics such as “ladies’ nights” or “all-you-can-drink” fees cater to students.

We found that the lower the cost of alcohol, the more heavily students drink. Based on cost alone, few social activities can compete with the cheap and plentiful supply of alcohol.

**What Colleges Can Do**

On campuses nationwide, binge drinking disrupts student life and compromises student safety. The College Alcohol Study surveyed administrators at more than 700 colleges to learn what colleges are doing to prevent binge drinking.

The results show that most colleges focus on influencing individual student behavior, often through educational programs. This is only a partial response. Colleges need to adopt comprehensive strategies that address supply and demand, and seek to reshape the social environment that influences student drinking behavior. Such strategies include working with the community to curtail supply and to enforce the legal drinking age. Their success depends on the cooperation of administrators, students, parents, and police.
**Twelve-Step Program**

No magic bullet will solve the entrenched problem of college binge drinking. Just as many factors contribute to it, many approaches are needed for its solution. The following is a 12-step program to help colleges address binge drinking. It was compiled based on insights gained through the College Alcohol Study and on the thousands of responses from administrators and students collected during the Study’s eight years.

1. **Colleges must acknowledge that an alcohol problem exists and assess its scope.**

   Take pride in confronting a problem everyone knows exists. To assess the scope of the problem, top administrators should take an unannounced weekend campus tour of fraternities, dorms, the health service office, and local bars.

2. **A systematic effort begins with the president and organizes for the long-term.**

   Don’t deny reality; provide leadership for your faculty, staff, and students. Only committed leadership at the top will ensure the success of long-term prevention and intervention strategies.

3. **Involve everyone and think broadly about solutions.**

   In addition to the usual participants, such as health services and security, include faculty and resident advisors, Greek leaders, athletic coaches, and team captains. Athletes are an important part of the problem—they should be part of the solution. Involve parents as well. They need to be informed about the problem and college policies to combat it. Most of all, involve students affected by binge drinking.

4. **Student education.**

   Provide students with education about alcohol and its harms and with accurate information about campus drinking norms.

5. **Work with the local community.**

   Together, place limits on the supply and marketing of alcohol. Cooperate with local authorities, including police and alcohol beverage control agencies. Work with high schools to reduce underage drinking before students get to college.

6. **Establish the rights of non-bingeing students.**

   Students who abstain from or control their drinking should not have to suffer its second-hand effects. Empower students to take the lead in asserting their rights. Help them by funding alcohol-free social and recreational activities.

7. **Develop a code of conduct in concert with non-bingeing students.**

   Enforce the code strictly. Most students support policies that curtail excessive drinking and the behavior that accompanies it. Students that binge drink, not their sober classmates, should pay the consequences of their disruptive behavior.

“We decided to start ‘from scratch’ by admitting that... alcohol education had not reduced binge drinking. We wrote a plan that addresses education, judicial action, neighbor relations, and many other aspects of drinking. Our aim is to change the student drinking culture.”

— College administrator
8. Provide alcohol-free living arrangements. In 1999, one in five students who lived on campus chose an alcohol-free environment. Another one in four expressed a desire to do so. Alcohol-free dorms may help students who did not binge drink in high school from becoming binge drinkers in college.

9. Address problem drinking at fraternities and sororities. Underage students commonly drink in these settings. Colleges need to stop the illegal sale of alcohol without a license, hold national organizations accountable for serving underage students, and gain alumni support to change fraternity and sorority practices.

10. Provide full-time education for a full-time tuition. Hold classes and exams on Fridays. A college should not enable students to binge drink from Thursday to Sunday.

11. Encourage problem drinkers to seek help or treatment. Make referral and treatment sources readily available. Train RAs and peers to recognize alcohol problems and to urge students with signs of problem drinking to seek help.

12. Start freshman orientation before students arrive on campus. Send the message, “No binge drinking major offered here.” Use the admissions office, high school counselors, and alumni to get this message out. Students need to know they can enjoy school, develop lasting friendships, and prepare for the future without binge drinking.

Summing Up

In many ways, college binge drinking is entrenched on American college campuses. But there are signs that schools and students have had enough. Campuses and campus-community coalitions are implementing new policies to restrict excessive drinking. Some fraternities and sororities have chosen to be dry, and more students are choosing to abstain.

Nonetheless, only a sustained effort that has broad support will change the culture of excessive drinking. Success is possible. Just as society has dramatically altered its acceptance of cigarette smoking and second-hand smoke, so, too, can it change college drinking practices.

The Harvard School of Public Health College Alcohol Study will conduct another round of surveys in 2001, focusing on the programs and policies that have made a difference. We hope to have good news to report.

The majority of students support alcohol policies that could curtail binge drinking.

<table>
<thead>
<tr>
<th>Alcohol policies</th>
<th>% of supportive students</th>
</tr>
</thead>
<tbody>
<tr>
<td>Crack down on drinking at sororities and fraternities</td>
<td>60%</td>
</tr>
<tr>
<td>Hold hosts responsible for problems</td>
<td>55%</td>
</tr>
<tr>
<td>Crack down on underage drinking</td>
<td>67%</td>
</tr>
<tr>
<td>Prohibit kegs</td>
<td>60%</td>
</tr>
<tr>
<td>Ban ads for alcohol at campus events</td>
<td>51%</td>
</tr>
<tr>
<td>Enforce rules more strictly</td>
<td>65%</td>
</tr>
</tbody>
</table>

“For once, I wish people could see how cool it really is not to need alcohol to have fun.”

— College student
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