SUBSTANCE USE AND ABUSE ON CAMPUS: RESULTS FROM THE UNIVERSITY OF MICHIGAN STUDENT LIFE SURVEY (2011)

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Significance

- The abuse of alcohol and other drugs remains the number one public health problem for colleges and universities throughout the United States. For example, over 1,700 college students 18 to 24 year of age die each year from alcohol-related unintentional causes (Hingson et al., 2005; Perkins, 2002).
- Alcohol and other drug abuse continues to pose a serious threat to the intellectual, psychological, and physical development of college students. The nonmedical use of prescription medications has increased over the past decade among college students (Johnston et al., 2007; McCabe et al., 2007; Wechsler et al., 2002).
- College students who abuse alcohol and other drugs experience significantly higher rates of motor vehicle fatalities, unsafe sex, emergency care visits, sexual assault and poor academic performance (Abbey, 2002; Perkins, 2002).



About the Student Life Survey....

In 2011, the University of Michigan Substance Abuse Research Center (UMSARC), with financial support from the several University of Michigan units, conducted an Internet-based survey using a random sample of full-time undergraduate students attending the University of Michigan. Undergraduates self-administered the 2011 Student Life Survey: Beliefs, Behaviors and Substance Use, a questionnaire that was first developed as a paper and pencil survey in 1993 and later adapted for the Internet. The 1993 survey was developed by Drs. A. Foote and F. Glaser (with substantive assistance from UMSARC researchers). Funds for the *Student Life Survey* have been provided by the State of Michigan (1993) and the University of Michigan (1993, 1999, 2001, 2003, 2007, 2009, 2011) and the National Institute on Drug Abuse (2005).



- In January 2011, upon receiving IRB approval, a random sample of 3,000 full-time U-M undergraduate students was drawn from the Registrar.
- Our initial contact was made with a letter, mailed through the United States Postal Service (USPS). For 2,000 students, a \$10 bill was included in the letter as an incentive for participation. For 1,000 students, a \$2 bill was included in the letter as an incentive for participation. Students in the latter condition who completed the survey received a \$10 post-paid incentive.
- The letter provided a rationale for the study, information about sponsorship and confidentiality, and a link to the web-based survey application.



- Several days after sending the initial letter, the entire sample was sent an email inviting them to participate in the 2011 SLS.
- Up to two additional emails were sent to nonrespondents as a reminder about the study
- Several security measures were taken to ensure confidentiality.



- The 2011 Student Life Survey questionnaire was used in the present study.
- The questionnaire drew from several survey instruments including national college-based drug surveys such as *Monitoring the Future* (Johnston et al., 2004) *Core Survey* (Presley et al., 1996) and *College Alcohol Study* (Wechsler et al., 2002).
- Previous versions of the Student Life Survey were tested in Web surveys in 1999, 2001, 2003, 2005, 2007, and 2009.



- Data were collected for approximately 3 weeks during the 2011 Winter semester.
- N=1,395 randomly selected undergraduate students completed the Web survey with a mean age of 20.6 years (SD = 2.1).
- The response rate for the Web survey was 46.5%.
- The median time to complete the survey was 22 minutes.



2011 Sample



Demographic Characteristics of Sample and Population

| Sample (n = 1,369) | Total | Population $(N = 25,874)$ | Total |
|--------------------|-------|---------------------------|-------|
| Gender | | Gender | |
| Female | 56.3% | Female | 49.2% |
| Male | 43.7% | Male | 50.8% |
| Race/Ethnicity | | Race/Ethnicity | |
| African-American | 3.5% | African-American | 4.7% |
| Asian | 16.2% | Asian | 12.6% |
| Hispanic/Latino | 4.1% | Hispanic/Latino | 4.4% |
| Native American | 0.1% | Native American | 0.2% |
| White | 71.8% | White | 70.0% |
| Other | 4.3% | Other | 8.1% |
| | | | |



Alcohol Use

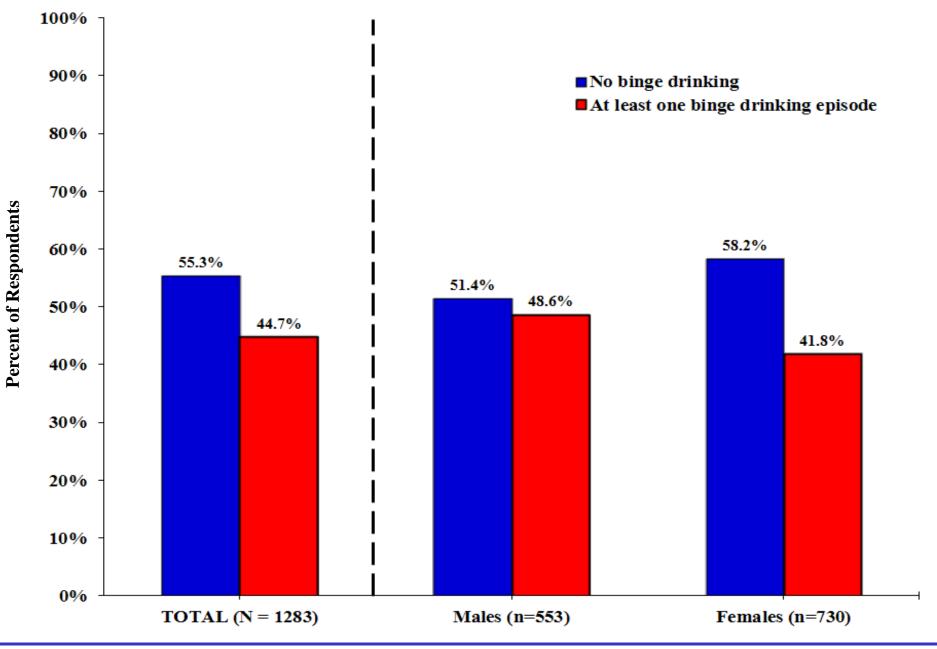


Definitions

- Binge drinking was defined as having five or more drinks in a row for men and four or more drinks for women in the past two weeks.
- Frequent binge drinking was defined as having 3 or more binge episodes in a two week period.



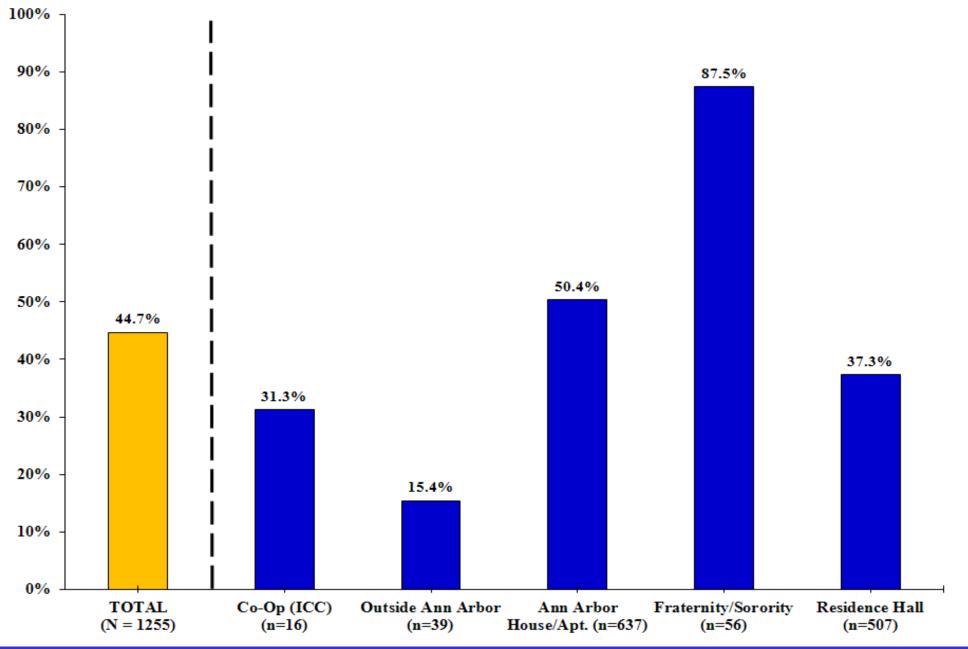
Binge Drinking in Past Two Weeks by Gender



Note: Binge drinking was significantly higher among males (p < .05). 12



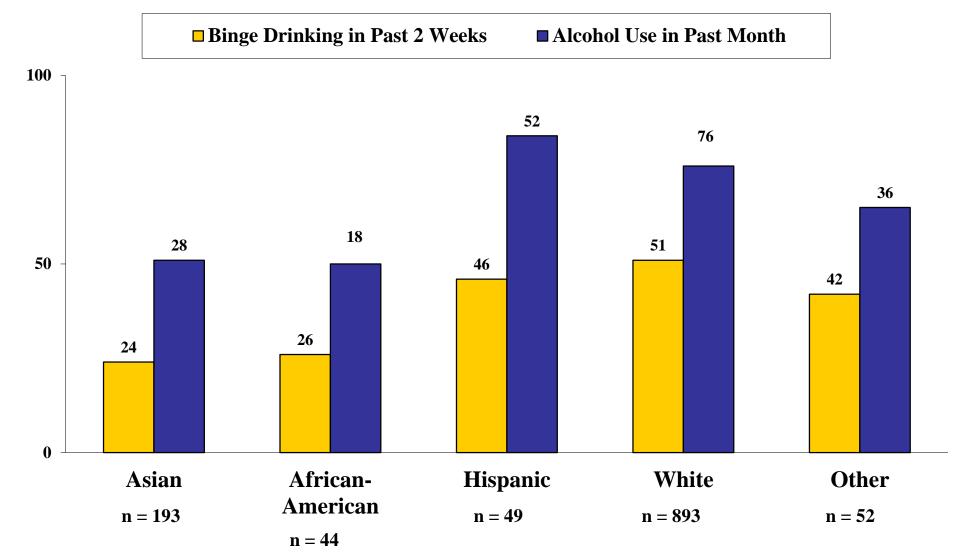
Binge Drinking in Past Two Weeks by Living Arrangement



Note: Binge drinking differed significantly by residence (p < .05).



Alcohol Use and Binge Drinking by Race/Ethnicity



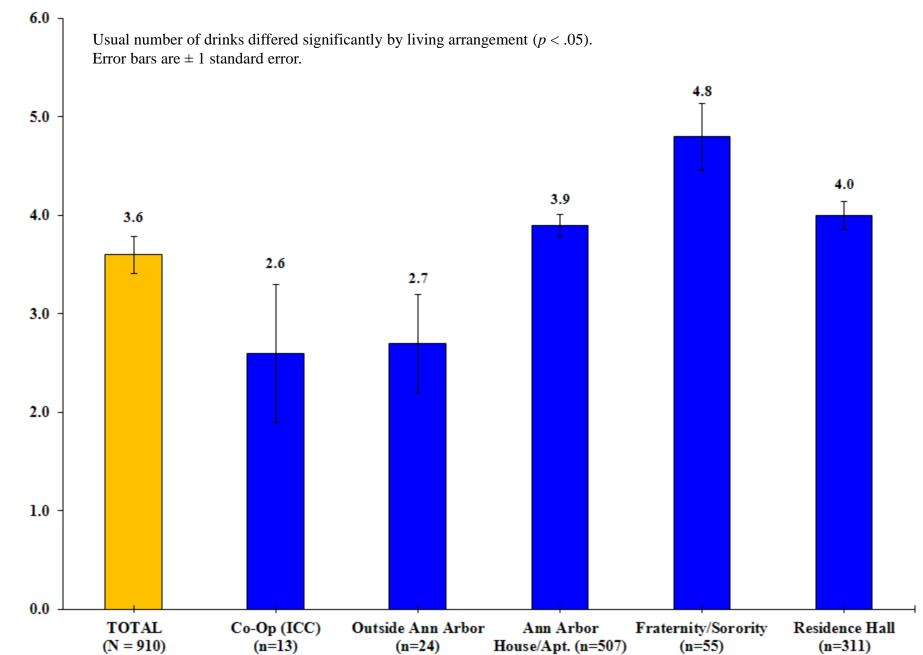
Note: Alcohol use and binge drinking differed significantly by race/ethnicity (p < .05).



Usual Number of Drinks per Drinking Occasion in Past 30 Days by Living Arrangement



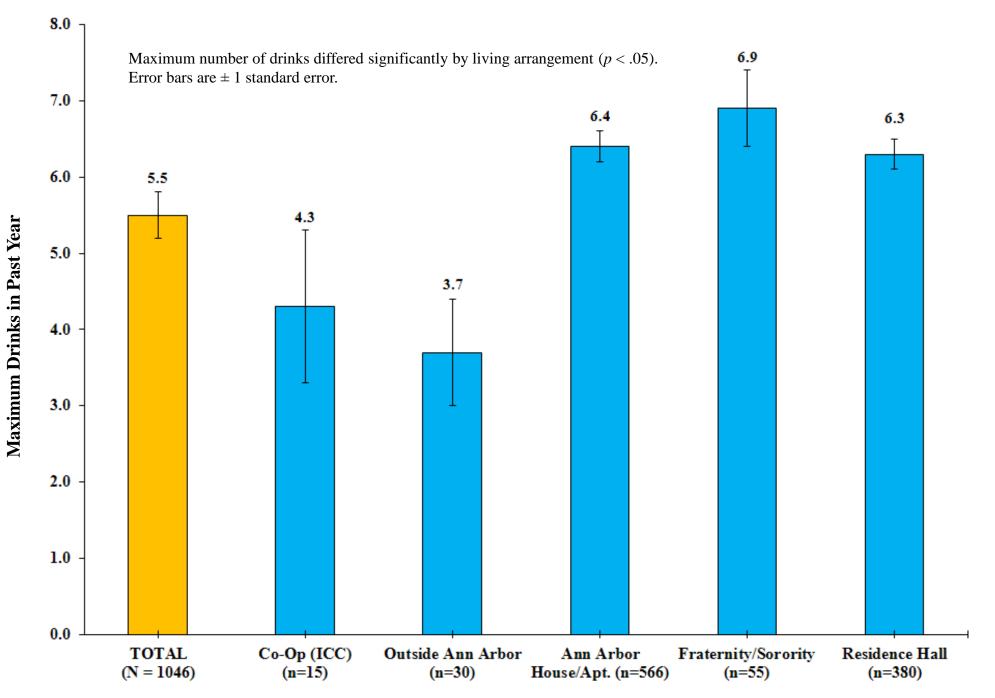
Usual Number of Drinks per Drinking Occasion in Past 30 Days by Living Arrangement



Maximum Drinks on One Occasion by Living Arrangement



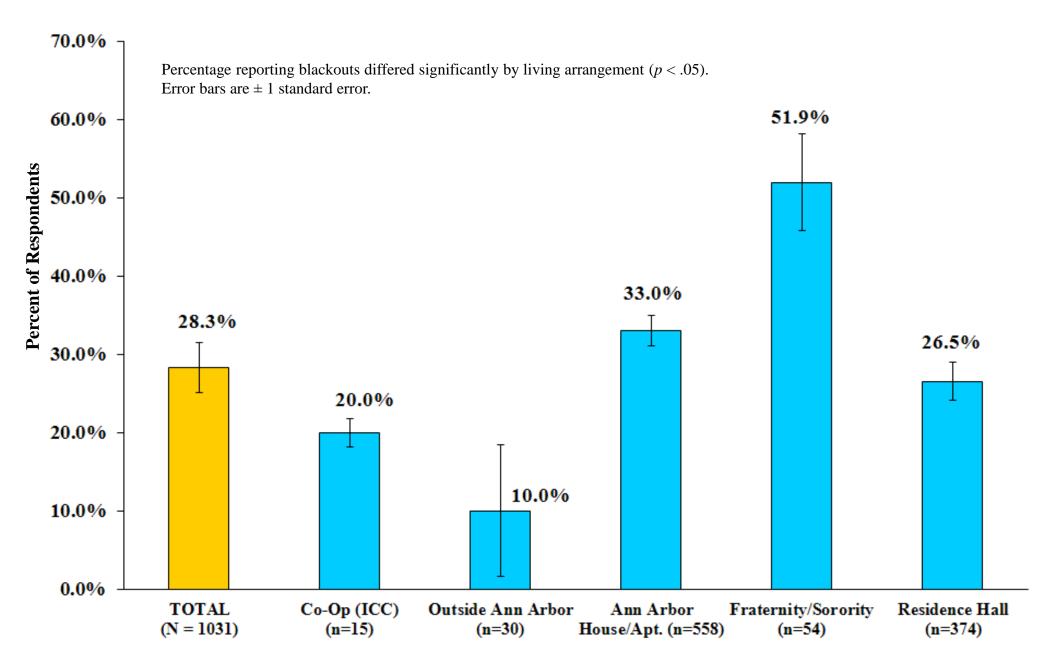
Maximum Drinks in 2 Hour Period During the Past 1 Year by Living Arrangement



Primary Drinking Consequences: Blackouts by Living Arrangement



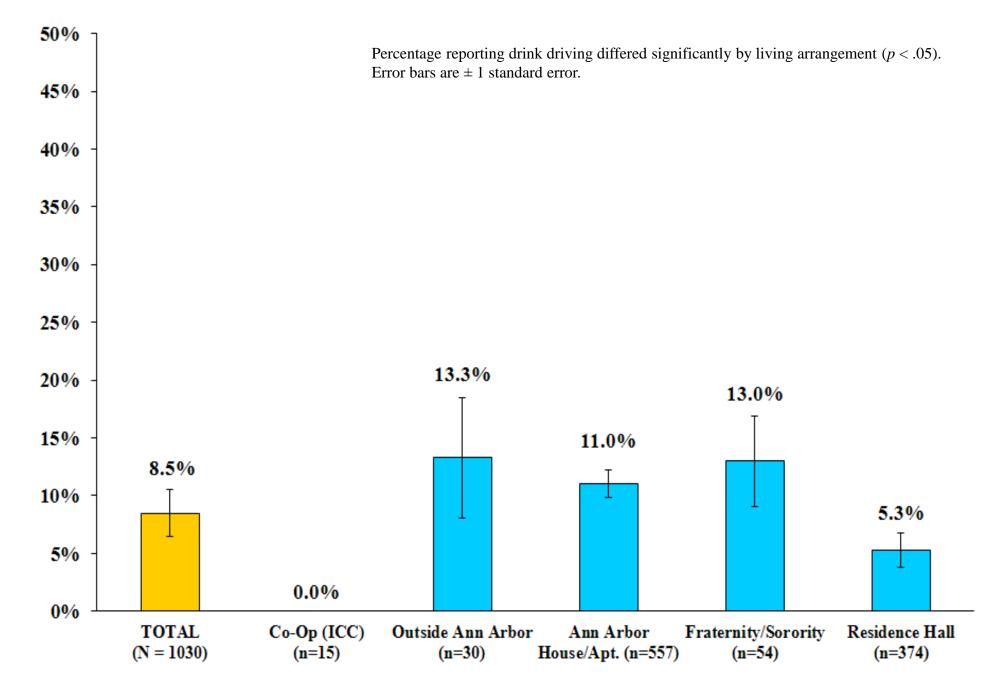
Experienced Blackouts Due to Drinking in Past 1 Year by Living Arrangement



Primary Drinking Consequences: Driven a Car While Under the Influence of Alcohol By Living Arrangement



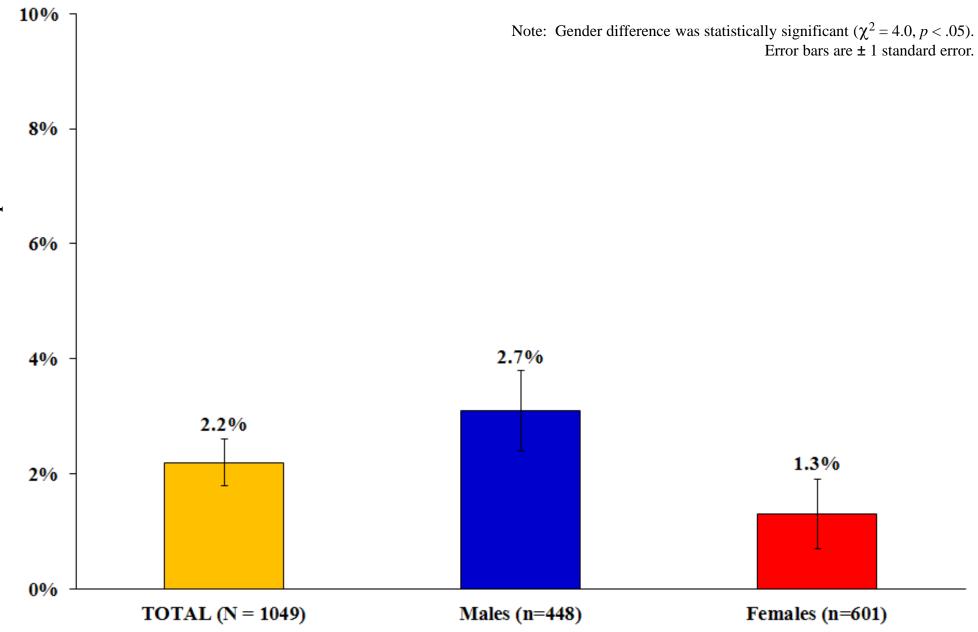
Driven a Care While Under Influence of Alcohol in Past 1 Year by Living Arrangement



Primary Drinking Consequences: Seriously Thought About Suicide as a Result of Drinking By Gender



Seriously Thought About Suicide in Past Year as a Result of Drinking by Gender

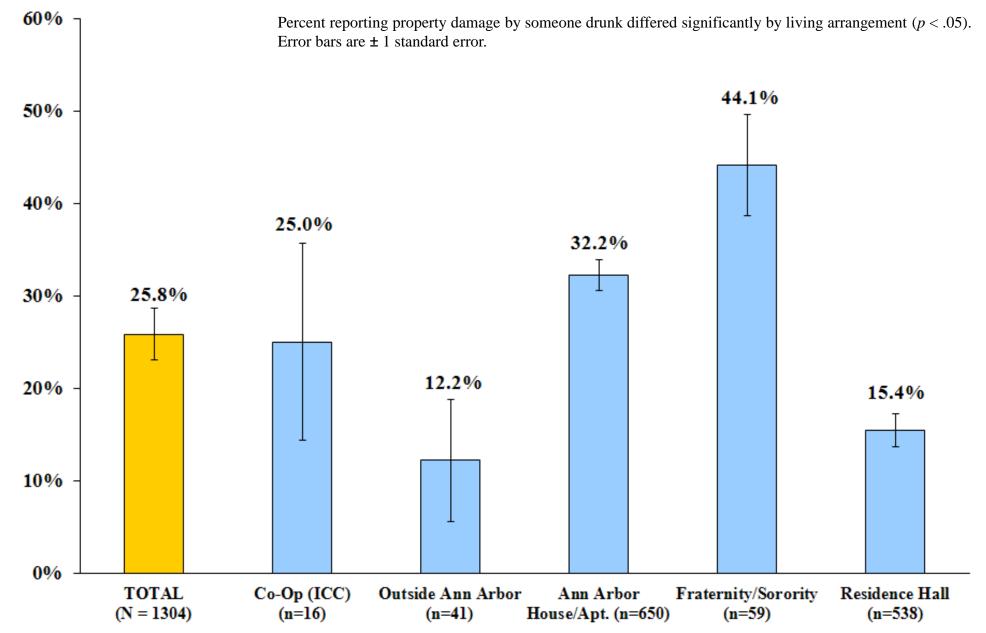


Percent of Respondents

Secondary Drinking Consequences: Property Damaged by Someone Drunk by Living Arrangement



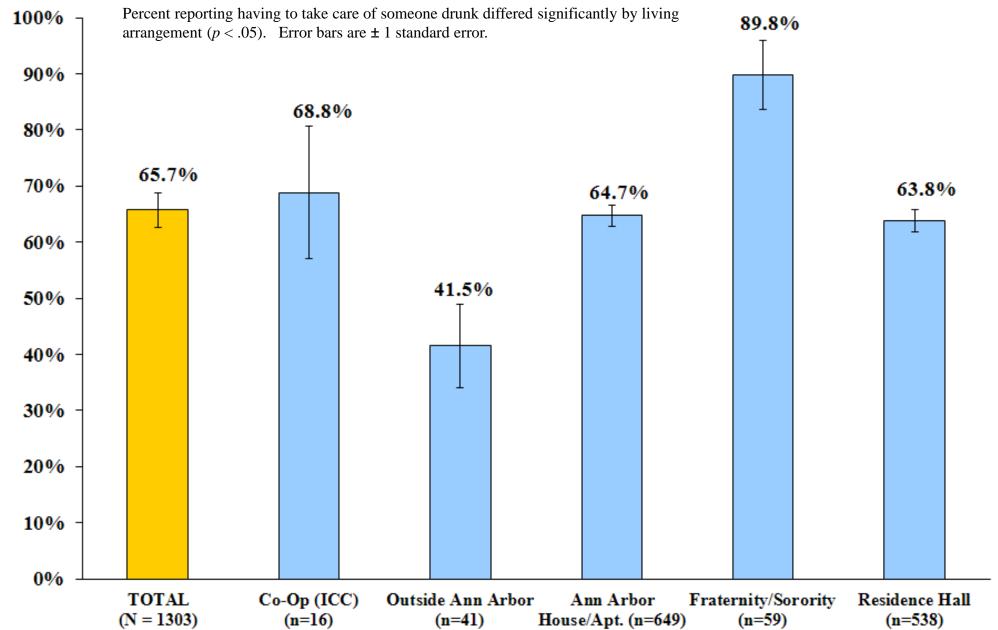
Property Damaged by Someone Drunk in Past Year by Living Arrangement



Secondary Drinking Consequences: Had to Take Care of Someone Who Was Drunk by Living Arrangement



Had to Take Care of Someone Drunk in Past Year by Living Arrangement

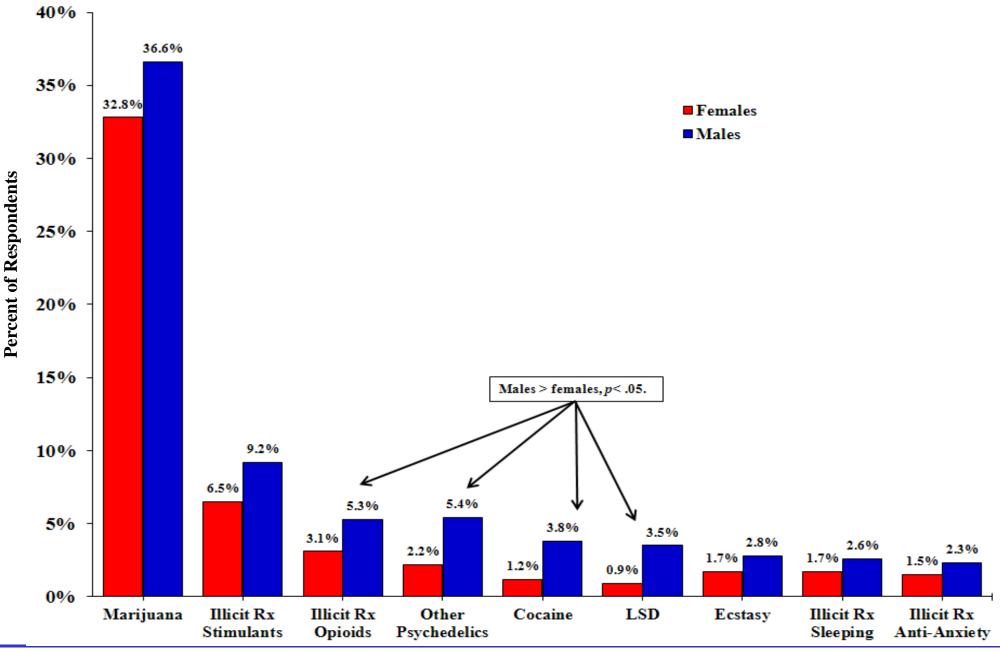


Percent of Respondents

Other Drug Use



Prevalence of Other Drug Use in the Past Year



Note: Past-year prevalence rates for inhalant, heroin, crystal methamphetamine, and heroin use were all less than 1.0%.

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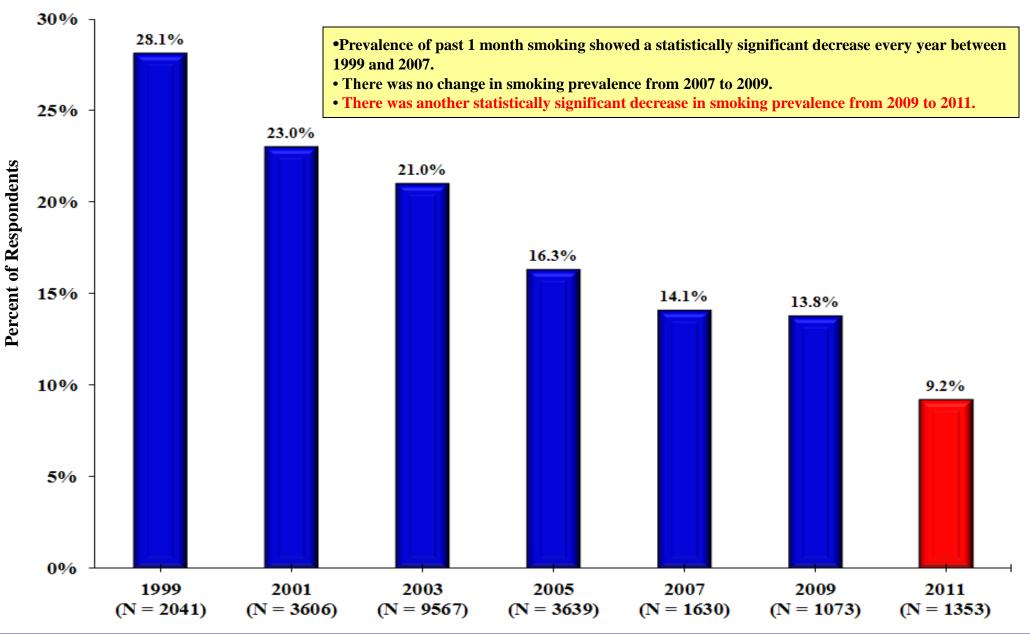
UY of M Student Life Survey Trends from 1999 – 2011



Cigarette Smoking



Past 1-Month Smoking among Undergraduate Students (1999, 2001, 2003, 2005, 2007, 2009, and 2011 SLS)

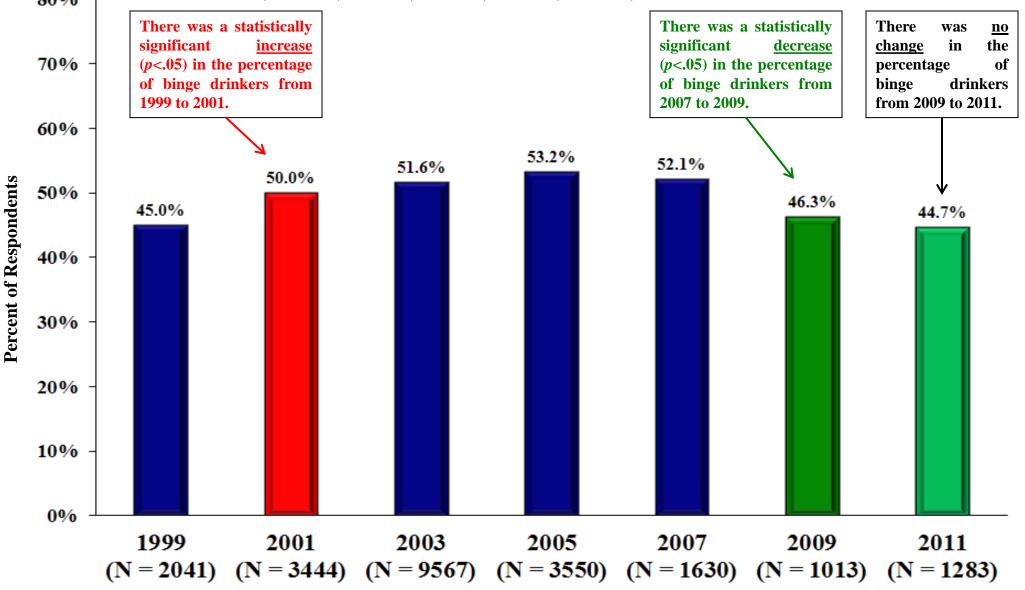




Binge Drinking



Prevalence of Past 2 Weeks Binge Drinking among Undergraduate Students (1999, 2001, 2003, 2005, 2007, 2009, and 2011 SLS)



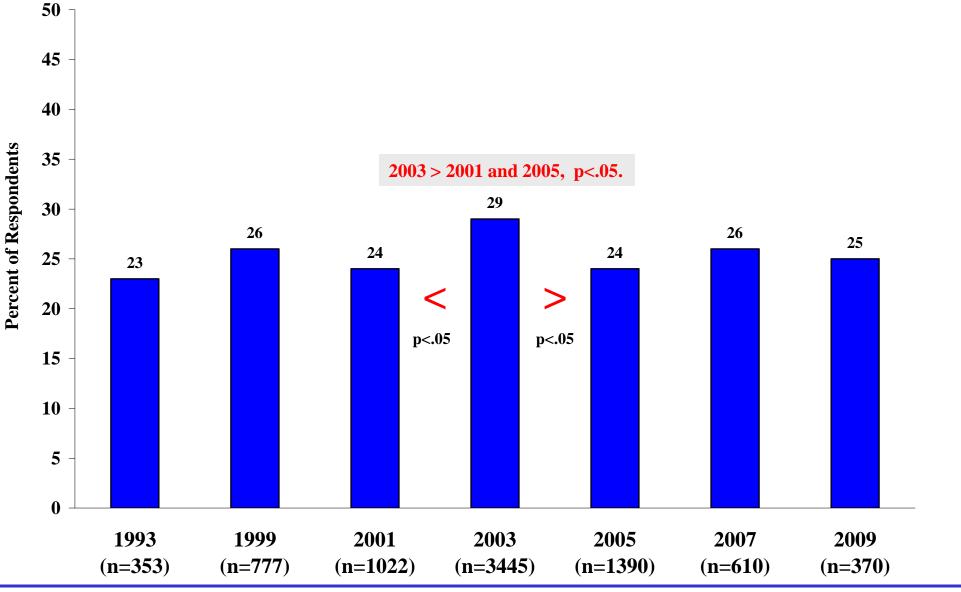


Potential Alcohol Abuse

- Assessed in the SLS with the 4-item CAGE Questionnaire.
- "During the past 12 months, have you...
 - 1. felt that you should Cut down your drinking?"
 - 2. been Annoyed by people criticizing your drinking?"
 - 3. felt Guilt or remorse after drinking?"
 - 4. had a drink first thing in the morning as an 'Eye opener' or to get rid of a hangover?"
- A positive response to <u>2 or more</u> of these questions is indicative of potential alcohol abuse or dependence (*Ewing*, 1984).

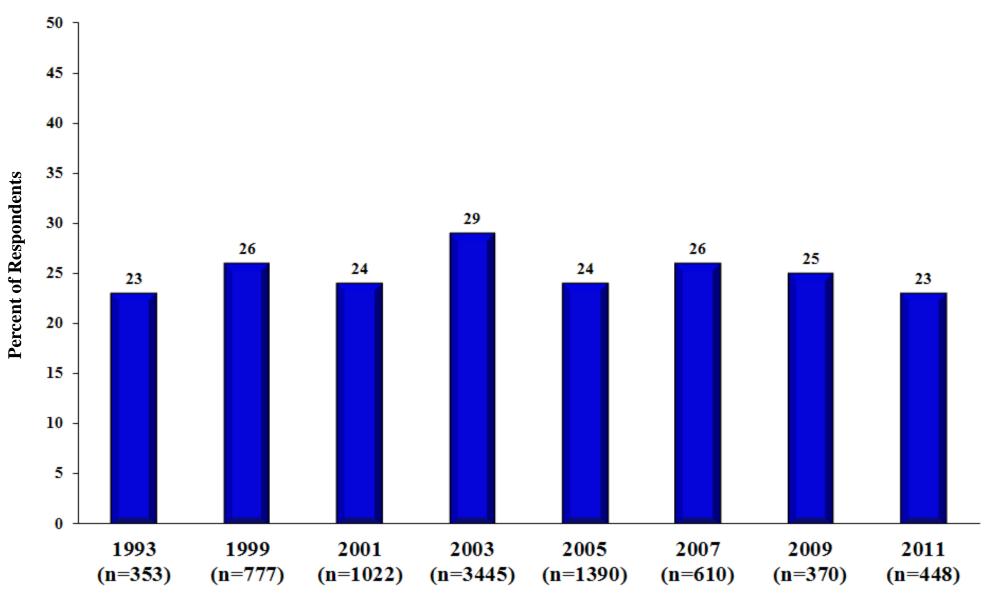


Percentage of Undergraduate Men with a Positive CAGE Screen (1993, 1999, 2001, 2003, 2005, 2007, 2009, and 2011 SLS)



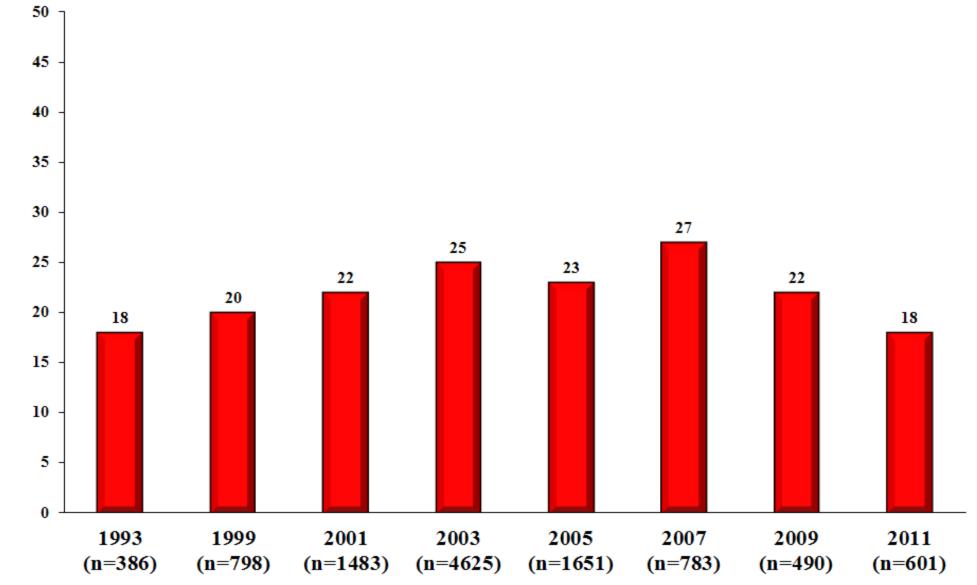


Percentage of Undergraduate Men with a Positive CAGE Screen (1993, 1999, 2001, 2003, 2005, 2007, 2009, and 2011 SLS)





Percentage of Undergraduate Women with a Positive CAGE Screen (1993, 1999, 2001, 2003, 2005, 2007, 2009, and 2011 SLS)





Trends in Past 1 Year Nonmedical Use of Prescription Medications (2005, 2007, 2009, and 2011 SLS)

