

Studies Linking College Student Binge Drinking and Poor Academic Performance

- Parada et al., Alcohol Clin Exp Res, in press.
 (poorer performance on memory tests)
- Thombs et al., JSAD 70(5): 776-785, 2009.
 (Mean BAC of 0.05% vs. 0.0% linked to 1/5 letter grade lower.) (prospective study)
- Singleton & Wolfson, JSAD 70(3): 355-363, 2009.
 (prospective study on negative effects on GPA)
- Singleton, JSAD 68(4): 548-555, 2007.
 (survey negative effects on GPA)



Studies Linking College Student Binge Drinking and Poor Academic Performance (cont.)

- Presley & Pimental, *JSA* 67(2): 324-331, 2006. (missed class, poor test performance)
- Jennison, Am J Drug Alcohol Abuse 30(3): 659-684, 2004.
 - (Binge drinkers in college were more likely to drop out, work in less prestigious jobs, and experience alcohol dependence 10 years later.) (national prospective study)
- Powell et al., Edu Econ 12(2): 135-149, 2004.
 (missed class, got behind in school)



Conclusion

In the U.S. there is an urgent need to:

- Expand and improve prevention, screening and treatment programs and policies to reduce alcohol related harm
 - Persons under 21
 - Among college students
 - Persons of similar ages not in college
- Improve surveillance of alcohol-attributable mortality
 - Mortality data need college identifiers
 - All injury and poisoning deaths should be tested for alcohol







Alcohol Related Behaviors and Consequences of 18-24 Year Olds in the U.S. 2012 (Estimates) Total

College Non College Drank 5+ on an 5.5 million 8.0 million

2.63

million

- occasion past (40%)month
- Past year drove under the influence of alcohol
- Died of alcohol-related unintentional injury (2013)

- - (41%)
 - 2.7 million (19%)
- (19%)
 - 1,590 3,070
 - 4,078

13.2 million

5.3 million





- Individually-oriented screening and brief intervention
- Social norms
- Web-Based
- Mandated web-based (AlcoholEdu)
- Family
- Environmental
- Comprehensive community interventions







Planning Alcohol Interventions Using NIAAA's COLLEGE AIM

http://www.collegedrinkingprevention.gov/CollegeAIM/



INDIVIDUAL-LEVEL STRATEGIES:

Estimated Relative Effectiveness, Costs, and Barriers; Public Health Reach; Research Amount; and Primary Modality 1



COSTS: Combined program and staff costs for adoption/implementation and maintenance

		COSTS: Combined program and start costs for adoption implementation and maintenance			
		Lower costs \$	Mid-range costs \$\$	Higher costs \$\$\$	
EFFECTIVENESS: Success in achieving targeted outcomes		IND-3 Normative re-education: Electronic/mailed personalized normative feedback (PNF)Generic/other ² ##, B. •••, online/offsitel	IND-9 Skills training, alcohol focus: Goal/intention-setting alone ³ [##, F, ••, [P]] IND-12 Skills training, alcohol plus general life skills:	IND-17 Multi-component education-focused program (MCEFP): AlcoholEdu® for College ² [#, B, • •, online]	
		IND-10 Skills training, alcohol focus: Self-monitoring/self-assessment alone 3 [#, F, ••, online/offsite] IND-21 Personalized feedback intervention (PFI): eCHECK UP TO GO (formerly, e-CHUG) ² [#, B, •••, online]	IND-12 Statis training, accord plus general the statis: Alcohol Skills Training Program (ASTP)? [#,F, • • • •, IPG] IND-16 Brief motivational intervention (BMI): In-person— Individual (e.g., BASICS) [##, F, • • • • •, IPI] IND-22 Personalized feedback intervention (PFI): Generic/other? [##, B, • • • • •, online]	Interventions Delivered by Health Care Professionals Strategies in which health care professionals identify and help students whose drinking patterns put them at risk for harm, or who are already experiencing alcohol-related problems: IND-23 Screening and behavioral treatments IND-24 Medications for alcohol use disorder These approaches can reduce harmful drinking, according to studies conducted mainly in general adult populations	
	effectiveness **		IND-8 Skills training, alcohol focus: Expectancy challenge interventions (ECI)—Experiential [##, F, ***, IPG] IND-13 Skills training, alcohol plus general file skills—Parent-based alcohol communication training [#, F, ***, offsite] IND-14 Skills training, alcohol plus general file skills or general life skills only; Generio/other* [#, F, ****, IPG]	(ages 18–65). The differences in research populations, along with wide variations in costs and barriers across campuses, precluded ratings relative to other strategies. See page 18 for more information. Legend	
			IND-15 Brief motivational intervention (BMI): In-person— Group [##, F, ••, IPG]	Effectiveness rating, Public health reach: based on percentage B = Broad	
	Lower effectiveness	IND-2 Normative re-education: Electronic/mailed personalized normative feedback (PNF) Event-specific prevention (21st birthday cards) [#, B, ••, online/offsite]	IND-4 Normative re-education: In-person norms clarification abne ³ #, F, ••, IPG]	of studies reporting any F = Focused positive effect: *** = 75% or more Research amount:	
	Not effective X	IND-7 Skills training, alcohol focus: Expectancy challenge intervention (ECI)—By proxy/didactic/discussion alone ³ [#,F,**,IPG]	IND-1 Information/knowledge/education abne ³ [#, B, • • • • , IPG] IND-5 Values clarification alone ³ [#, F, • • , IPG]	** = 50% to 74%	
	Too few studies to rate effectiveness ?	IND-11 Skills training, alcohol plus general life skills: Alcohol 101 Plus ^{TM2} [#, B, •, online] IND-19 Personalized feedback intervention (PFI): Check/fourDrinking (beta 1.0 version) ² [#, B, •, online] IND-20 Personalized feedback intervention (PFI): College Drinker's Check-up ² [#, B, •, online]	IND-6 Skills training, alcohol focus: Blood alcohol concentration feedback alone ³ [#, F, *, IPI] IND-18 Multi-component education-focused programs (MCEFP): Miscellaneous ² [#, B, *, online]	Barriers: Primary modality: ### = Higher P! = In-person individual ## = Moderate PC = In-person group # = Lower Online Offsite	

See brief descriptions and additional ratings for each individual-level strategy on the summary table beginning on page 13.

2 Strategies are listed by brand name (e.g., CheckYourDrinking) if they were evaluated by at least two RCTs; strategies labeled generic/other have similar components and were not identified by name in the research or were evaluated by only one RCT; strategies labeled miscellaneous have the same approach but very different components.

Although this approach is a component of larger, effective programs such as BASICS and ASTP, it is evaluated here as a stand-alone intervention.

Effectiveness ratings are based on the percentage of studies reporting any positive outcomes (see legend). Strategies with three or fewer studies were not rated for effectiveness due to the limited data on which to base a conclusion. Cost ratings are based on the relative program and staff costs for adoption, implementation, and maintenance of a strategy. Actual costs will vary by institution, depending on size, existing programs, and other campus and community factors. Barriers to implementing a strategy include cost and opposition, among other factors. Public health reach refers to the number of students that a strategy affects. Strategies with a broad reach affect all students or a large group of students (e.g., all underage students); strategies with a focused reach affect individuals or small groups of students (e.g., sanctioned students). Research amount refers to the number of randomized controlled trials (RCT) of a strategy (see legend).



ENVIRONMENTAL-LEVEL STRATEGIES:

COLLEGE AIM

F = Focused

Estimated Relative Effectiveness, Costs, and Barriers; Public Health Reach; and Research Amount/Quality¹

2 Strategy does not seek to reduce alcohol availability, one of the most effective ways to decrease alcohol use and its consequences.

COSTS: Combined program and staff costs for adoption/implementation and maintenance Lower costs \$ Mid-range costs \$\$ Higher costs \$\$\$ EW-16 Restrict happy hours/price promotions ###, B, ***] BW-11 Enforce age-21 drinking age (e.g., compliance checks) Higher [##. B. * * * * *] EW-21 Retain ban on Sunday sales (where applicable) ##, B, ****] effectiveness BW-23 Increase alcohol tax [###, B, ****] EW-22 Retain age-21 drinking age [##, B, ** **] *** outcomes EW-17 Retain or enact restrictions on hours of alcohol sales ENV-3 Prohibit alcohol use/sales at campus sporting events ENV-31 Enact responsible beverage service training laws [##. B. ** **] [##, B, • • •] ENV-34 Enact social host provision laws [##, B, • • •] ENV-25 Enact dram shop liability laws: Sales to intoxicated Moderate [##, B, •••••] effectiveness ENV-26 Enact dram shop liability laws: Sales to underage targeted ** [##, B, ••••] BW-30 Limit number/density of alcohol establishments [###, B, ****] BW-35 Retain state-run alcohol retail stores (where applicable) [###, B, • • • •] 6 achievin ENV-1 Establish an alcohol-free campus [###, B, • • •] ENV-12 Restrict alcohol sponsorship and advertising [##, B, ***] ENV-7 Conduct campus-wide social norms campaign² ENV-14 Implement beverage service training programs: Sales to Lower [#, B, •• ••] intoxicated [C = #, S/L = ##, B, •••] effectiveness ENV-15 Implement beverage service training programs: Sales to underage [C = #, S/L = ##, B, • • • •] Ξ ENV-28 Enact keg registration laws [##, B, ***] ess Succ EW-4 Prohibit alcohol use/service at campus social events [##, B, 0] BW-6 Implement bystander interventions² [#, F, 0] ENV-2 Require alcohol-free programming² [#, F, ••] EW-5 Establish amnesty policies² [#, F, ••••] ENV-20 Implement safe-rides program² [##, F, ••] ENV-8 Require Friday morning classes² #, B, ••] ENV-32 Conduct shoulder tap campaigns [##, B, ••] SS: EW-9 Establish standards for alcohol service at campus social ENV-33 Enact social host property laws [##, B, 0] Too few events [#, B, • • •] **EFFECTIVENE** ENV-36 Require unique design for state ID cards for age < 21 robust studies EW-10 Establish substance-free residence halls2 [#, F, ••] [##. B. 0] to rate effectiveness ENV-13 Prohibit beer kegs [C = #, S/L = ###, B, • • •] -or mixed EW-18 Establish minimum age requirements to serve/sell Legend alcohol ##. B. • • • • 1 results EW-19 implement party patrols [##, B, •• •] ? Research amount/quality: Barriers: ENV-24 Increase cost of alcohol license [##, B, 0] ### = Higher ## = Moderate •••• = 5 or more longitudinal studie ENV-27 Prohibit home delivery of alcohol ##, B, ••1 ••• = 5 or more cross-sectional EW-29 Enact noisy assembly laws [##, B, 0] # = Lower studies or 1 to 4 longitudinal studies •• = 2 to 4 studies but no C = Barriers at See brief descriptions and additional ratings for each environmental-level strategy on the summary table beginning on page 19. college level = 1 study that is not longitudical S/L = Barriers at the state/local level Effectiveness ratings are based on estimated success in achieving targeted outcomes. Cost ratings are based on a consensus among research team members of the relative program and staff costs for adoption, implementation, and maintenance of a strategy. Actual costs will vary by institution, depending on size, existing programs. and other campus and community factors. Barriers to implementing a strategy include cost and opposition, among other factors. Public health reach refers to the number Public health reach: of students that a strategy affects. Strategies with a broad reach affect all students or a large group of students (e.g., all underage students); strategies with a focused B = Broadreach affect individuals or small groups of students (e.g., sanctioned students). Research amount/quality refers to the number and design of studies (see legend).

msilo Sitel

Literature Reviews Indicating Effectiveness of Screening and Brief Counseling Intervention Regarding Alcohol

- U.S. Preventive Services Task Force, 2012 (adults in primary care)
- Tripodi et al., Arch Pediatr Adolesc Med, 2010 (adolescents ages 12-19)
- Jensen et al., J Consulting Clin Psychol, 2011 (adolescents)
- Larimer, Addict Behav, 2007 (college students)
- Carey et al., Addict Behav, 2007 (college students)
- Cronce & Larimer, Alcohol Res & Health, 2011 (college students)
- Seigers and Carey, J Am College Health, 2010 (college students at university health services)

Abuse and