Individually-Focused Strategies in CollegeAIM: Choosing Options and Bringing These to Campus



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Today's presentation

- Messaging in individually-focused interventions
- Social Norms
- Expectancy Challenge
- Alcohol Skills Training Program
- Brief Alcohol Screening and Intervention for College Students (BASICS)
- Personalized Feedback Interventions
- Other individually-focused strategies

College Student Substance Use

Substance Use Data from Monitoring the Future Study





- Past year
 - 76.1% report any alcohol use
 - 60.5% report having been drunk
- Past month
 - 63.1% report any alcohol use
 - 42.6% report having been drunk





Drinking Trajectory

Mean number of drinks averaged across each week

Classes begin

10

Sep 7

Halloween
weekerd
Halloween
weekerd
Few Wesk

Few

Days (labels refer to ends of weekly assessments)
Daily and weekly alcohol consumption over academic year. Error bars (95% CI) are
shown above the mean only. Asterisks (*) refer to significant adjacent week differences
(Bonferroni adjusted level of p<.002) (Tremblay, et al., 2010)

Alcohol-Related Consequences

n =74,438 undergraduate students at 108 institutions in sample from Spring 2015

- Among undergraduate students who drink, within the past 12 months as a consequence of drinking...
 - 35.5% did something they later regretted
 - $^{\circ}$ 31.5% forgot where they were/what they did
 - 21.6% had unprotected sex
 - 14.6% physically injured themselves



These are "negative consequences," right?

American College Health Association, 2015

Perceptions of Consequences

Consequence	Negative	Neutral	Positive
Arrested/citation	93%	5%	3%
Received lower grade	88%	13%	0%
Regretted sex	84%	12%	4%
Vomited	77%	14%	9%
Physically embarrassed	58%	37%	5%
Socially embarrassed	51%	42%	7%
Blackout	53%	35%	12%
Late to work/class	53%	35%	12%
Hangover	47%	28%	25%
Woke up in someone else's bed	42%	42%	16%
Binge eating	17%	56%	27%
Skipped meals	16%	58%	26%

Mallett et al., 2008

Substance Use Data from Monitoring the Future Study

- Any illicit drug
 - · 38.6% report past year use
- Marijuana
 - 34.4% report past year use
- Any illicit drug other than marijuana
- · 20.8% report past year use
 - 10.1% Amphetamines
 - 9.6% Adderall
 - 5.0% Ecstasy/MDMA



Source: Johnston, et al (2015)

Many students might be slipping through the cracks

- 96.1% with an alcohol use disorder do not receive services (Wu, et al., 2007)
- Only 36% who screen positive for depression receive medication or services (Eisenberg, et al., 2007)
- Of 125 suicides reported by Counseling Centers, only 14% were current or past clients (Gallagher, 2014)

Relationship Between Alcohol Use and	
· · · · · · · · · · · · · · · · · · ·	
Academic Success	
 Relationship between alcohol, sleepiness, and GPA exists in college (Singleton & Wolfson, 2009) 	
 Heavy drinking associated with lower GPA, and students at research universities who are heavy 	
episodic drinkers are less likely to be engaged in interactions with faculty (Porter & Prior, 2007)	
Frequency of binge drinking associated with lower grades in college setting (Pascarella, et al., 2007)	
lower grades in conege Setting (Pascarella, et al., 2007)	
Messaging	
Prevention/Intervention	
Approaches	

Spectrum of Intervention Response Brief **Traditional approaches** to prevention An alternative approach: **Harm Reduction**

What is Harm Reduction?

- The most harm-free or risk-free outcome after a harm reduction intervention *is* abstinence.
- However, harm reduction approaches acknowledge that any steps toward reduced risk are steps in the right direction

How are these principles implemented?

- · Legal issues are acknowledged.
- · Skills and strategies for abstinence are offered.
- However, if one makes the choice to drink, skills are described on ways to do so in a less dangerous and less risky way.
- A facilitator, provider, or student affairs professional must elicit personally relevant reasons for changing.
 - This is done using the Stages of Change model and Motivational Interviewing.

The Stages of Change Model (Prochaska & DiClemente, 1982, 1984, 1985, 1986) Stages and Interventions Precontemplation Contemplation Preparation Action Maintenance Motivational Enhancement Skills Training Prevention

Motivational Interviewing







Miller & Rollnick, 1992, 2002, 2012

Brief Interventions and Motivational Interviewing

Non-judgmental

Nonconfrontational Meet people where they are

Elicit personally relevant reasons to change

Explore and resolve ambivalence

Discuss behavioral change strategies when relevant

What is resistance?

- Resistance is verbal behaviors
- It is expected and normal
- It is a function of interpersonal communication
- Continued resistance is predictive of (non) change
- Resistance is highly responsive to our style

Goals of a Brief Intervention	
When there are signs of potential risks and/or existing harms, provide early intervention	
If ultimately in line with what motivates the individual, prompt contemplation of change	
If ultimately in line with what motivates the individual, prompt commitment to change or even initial action	
Reduce resistance/defensiveness	
Explore behavior change strategies and discuss skills to reduce harms	
OARS: Building Blocks for a Foundation	
 Ask Open-Ended Questions Cannot be answered with yes or no 	
 Professional does not know where answer will lead "What do you make of this?" "Where do you want to go with this now?" 	
"What ideas do you have about things that might work for you?""How are you feeling about everything?"	
 "How's the school year going for you?" "Tell me more about that." This is different than the closed-ended "Can you tell me more 	
about that?" or "Could you tell me more about that?"	
What open-ended questions could	
you ask that might prompt	
consideration of "consequences"?	
change talk?	
consideration of strategies for making changes?	

Finding notantial books, shange talk, and	
Finding potential hooks, change talk, and behavior change strategies: An Example	
"What are the good things about use for you?"	
"What are the 'not-so-good' things about use?"	
"What would it be like if some of those not-so-good things happened less often?"	
"What might make some of those not-so-good things happen less often?"	
Norms	
Social norms: Perception versus reality	
People are influenced by their subjective	
interpretation of a situations rather than by the actual situation (Lewin, 1943).	
 We are influenced by our <u>perception</u> of others' 	
attitudes, behaviors, and expectations rather than by their actual attitudes, behaviors, or	
expectations.	
Our perceptions and interpretations are often	
inaccurate. Source: Neighbors & Kilmer (2008)	

Norms Clarification

- Examines people's perceptions about:
 - Acceptability of excessive behavior
 - Perceptions about the prevalence of drinking by those around them
 - Perception about the rates of drinking by those around them (including the "typical" person)



Social norms mass media campaigns

Expectancies

		EXI		
		Alcohol	No Alcohol	
_	Alcohol			
GET	No Alcohol			



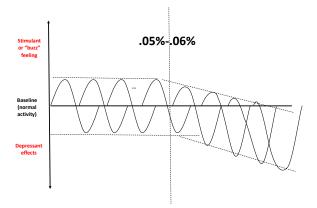


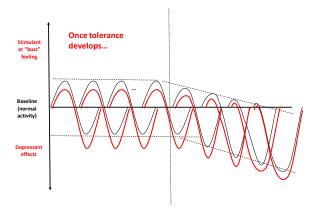
Alcohol Skills Training Program (ASTP) Alcohol Skills Training Program • Fromme, Kivlahan and Marlatt (1986) Compared skills training program to an alcohol information school **Reducing harms**

Questions...



- When people start to lose their buzz, what do they usually do?
- Do they ever get that same buzz back?
- For people with tolerance, is the buzz you get now as good as the buzz you used to get when you first started drinking?





Specific Tips for Reducing the Risk of

- Set limits
- **Alcohol Use**
- · Eat prior to or while drinking
- Keep track of how much you drink
- Space your drinks
 - Alternate alcoholic drinks w/non-alcoholic drinks
- · Avoid trying to "out drink" or keep up with others
- Avoid or alter approach to drinking games
- If you choose to drink, drink slowly
- Use a designated driver
- · Don't accept a drink when you don't know what's in it
- Have a friend let you know when you've had enough

What Is A Standard Drink?









- 8 oz. malt liquor
- 8 oz. Canadian beer
- 8 oz. ice beer
- 6 oz. ice malt liquor
- 4.5 oz. fruit-flavored, high-ethyl alcohol content malt beverages (formerly alcoholic energy drinks...Four Loko is 4.2 oz)



• 4 oz. wine

- 2.5 oz. fortified wine
- 1.25 oz. 80 proof hard alcohol
- 1 oz. 100 proof hard alcohol





Setting a Limit

180 lb. Woman									180	lb. ∧	1an			
Number	Number Number of Hours					ı	Number	Number of Hours						
of							ı	of						
Drinks	1	2	3	4	5	6	ı	Drinks	1	2	3	4	5	6
1	.009	0	0	0	0	0	1	1	.005	0	0	0	0	0
2	.034	.018	.002	0	0	0		2	.026	.010	0	0	0	0
3	.059	.043	.027	.011	0	0	1	3	.047	.031	.015	0	0	0
4	.084	.068	.052	.036	.020	.004		4	.067	.051	.035	.019	.003	0
5	.109	.093	.077	.061	.045	.029		5	.088	.072	.056	.040	.024	.008
6	.134	.118	.102	.086	.070	.054		6	.109	.093	.077	.061	.045	.029
7	.159	.143	.127	.111	.095	.079	ı	7	.130	.114	.098	.082	.066	.050
8	.184	.168	.152	.136	.120	.104	1	8	.151	.135	.119	.103	.087	.071
9	.209	.193	.177	.161	.145	.129	1	9	.172	.156	.140	.124	.108	.092
10	.234	.218	.202	.186	.170	.154	1	10	.192	.176	.160	.144	.128	.112
11	.259	.243	.227	.211	.195	.179	1	11	.213	.197	.181	.165	.149	.133
12	.284	.268	.252	.236	.220	.204	1	12	.234	.218	.202	.186	.170	.154

ASTP Content reviewed in ASTP Expectancies Standard drink and norms Absorption/Oxidation BAC/BAL, associated effects, tolerance Alcohol's biphasic effect Distribution of blood alcohol charts Consequences Harm reduction strategies **ASTP** ASTP is delivered in a group setting Alcohol content and the skills-training information is introduced in a more structured way throughout the program **BASICS**

Brief Alcohol Screening and Intervention for College Students A Harm Reduction Approach Linda A. Dimeff John S. Baer Daniel R. Kivlahan G. Alan Marlatt

The Basics on BASICS

Brief Alcohol Screening and Intervention For College Students

- Assessment
- Self-Monitoring
- •Feedback Sheet
- •Review of Information and Skills Training Content

(Dimeff, Baer, Kivlahan, & Marlatt, 1999)

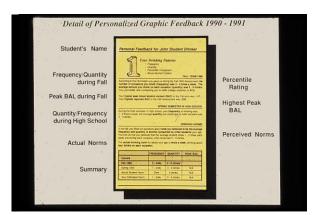
What does it mean to "do" BASICS?

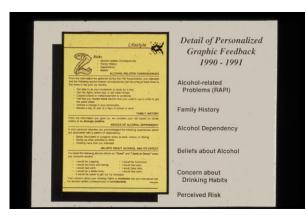


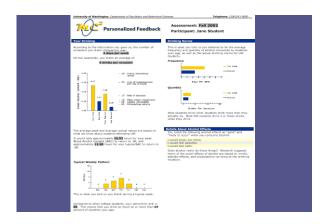
- The "AS" is the alcohol screening
- Originally a separate in-person session
- Subsequently achieved online, but BASICS does require a screening
- The "I" is the intervention
 - Originally a second in-person session guided by personalized graphic feedback
 - Personalized graphic feedback delivered online/in-print (PFI) is not BASICS
 - Intervention must be delivered with fidelity (meaning adherence to MI spirit, style, and strategies)

BASICS

- BASICS is individually focused and involves the delivery of personalized feedback
 - Alcohol content and the skills-training information is introduced throughout the intervention when relevant, applicable, or of interest to the participant







Alcohol-related Problems	Alcohol Dependence
You indicated the following alsohol-related consequences had occurred at least 1-2 times in the prior six months:	You acknowledged the following experiences, which are associated with a pattern of dependency.
Had a fight or argument, or bad feelings with a friend or family member.	Have driven a car after drinking.
Felt you were going creay. Got into fights, acted bad, or did mean things.	Have had blackquits. Felt like you needed more alcohol to get the same effect.
Not able to do your homework or study for a test.	Felt like you needed a drink first thing in the morning.
Went to work or school high or drunk. Hissed out on other things because you spent too much manny on allothol.	Based upon the data provided, we estimate your level of alcohol tolerance to be:
Experienced nausea or vomiting.	Very High Risk
Had a hangover. Passed out or fairned suddenly.	Tolerance means needing more alcohol to get the same effect as you used to get at lower levels. Tolerance
Missed a day or part of a day of work or school.	reduces pleasurable effects of alcohol and makes drinking
You can minimize the negative effects of alcohol by choosing to drink less or not at all.	more expensive. It can also be a sign that you are becoming dependent on alcohol.
Weight	Family History
You indicated that you have the following concerns	We consider your risk based on family history to be:
regarding your weight and/or body:	Positive Blak
You are concerned about your weight, shape, or diet. You are fearful of being overweight.	Most people have heard that having a family history of
You have used the following methods to counteract weight	alcohol problems increases your risk for alcohol problems yourself. While this is true, it's also true that being aware
gain: diet gills, exercise You have engaged in tinge eating or have eaten more than	of your drinking and making lower-risk decisions about
you are comfortable with.	drinking now can lessen your risk of developing an alcohol problem in the future.
You indicated that in a typical week you are getting the following amount of calcries from alcohol:	
2592 calories	Perceived Risk
It would require 566 minutes of brisk walking or 442	Your concern about your drinking habits is:
minutes on the stairmaster to expend this number of	Litror
calories each week.	
Alcohol: Financial Costs	Protective Factors
Based upon your typical quantity and frequency of alcohol	These are some things you are doing to avoid negative
use, you are typically spending the following, depending	These are some things you are doing to avoid negative consequences from dranking:
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Potential Barriers Specific to BASICS

Brief Alcohol Screening and Intervention For College Students

- Adjustments in feedback length/content without evaluation
- Conflicting/confusing messages about what is "effective"
- Best practices in training for BASICS delivery
- Staffing/practical needs leading to
- adjusting the intervention
- Bringing intervention to scale
- MI adherence & issues of fidelity
- Reaching students who might slip through the cracks

Brief
Alcohol
Screening and
Intervention for
College
Students
A Harm Reduction Approach
Linda A. Directt John S. Baer

In-person intervention with no graphic feedback

MI in Health Care Settings: College Health Centers

Adherence to MI is the key!



Grossberg, P., et al., (2010). Inside the physician's black bag: Critical ingredients of brief interventions, Substance Abuse, 31, 240-250

- "The most reliable interaction components did indeed reflect underlying core principles of MI (p. 243)."
- Identified the Top 10 Clinical Tools and relation with MI Principles:
- Express Empathy (EE)
- Develop Discrepancy (DD)
- Support Self-Efficacy (SSE)
- · Roll with Resistance (RWR)

Top 10 Clinical Tools	EE	DD	SSE	RWR
1) Drinking likes & dislikes	х			х
2) Life goals & alcohol use		х		
3) Reducing risk agreement			х	
4) Feedback on alcohol use, binges per month	х			
5) Tracking number of drinks			х	х
6) Readiness to change (1-10 scale)				х
7) Drinking consequences: Overall compared with college students nationally		х		х
8) Drinking consequences: Calories		х		х
9) Drinking consequences: BAC		х		х
10) Alcohol norms: Personal use compared with peers' use		х	х	х

-		

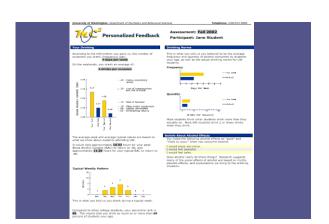
What about personalized graphic feedback for prevention with no person there at all to discuss the feedback with the person?

Motivating Campus Change (MC2)

- 1488 participants randomly assigned to feedback and tips intervention (n=737) or assessment-only control (n=751)
 - Tips involved weekly postcards for ten weeks

Larimer, M.E., Lee, C.M, Kilmer, J.R., Fabiano, P., Stark, C., Geisner, I., Mallett, K., Lostutter, T.W., Cronce, J.M., Feeney, M., & Neighbors, C. (2007). Personalized mailed feedback for college drinking prevention: A randomized clinical trial. *Journal of Consulting and Clinical Psychology*, 75, 285-293

Source: Larimer, et al. (2007)



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family member. Fall you were mine creay.	Have had blackouts.
Got into fights, acted bad, or did mean things. Not able to do your homework or study for a test.	Felt like you needed more alcohol to get the name effect. Felt like you needed a drink first thing in the morning.
Went to work or school high or drunk.	Based upon the data provided, we estimate your level of
Missed out on other things because you spent too much money on alcohol.	alcohol tolerance to be:
Experienced nausea or vomiting. Had a handover.	Very High Risk Tolerance means needing more alcohol to get the same
Missed a day or part of a day of work or school. You can minimize the negative effects of alcohol by	reduces pleasurable effects of alcohol and makes drinking more expensive. It can also be a sign that you are
choosing to drink less or not at all.	becoming dependent on alcohol.
Weight	Family History
You indicated that you have the following concerns reparting your weight and/or body:	We consider your risk based on family history to be:
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Based upon your typical quantity and frequency of alcohol	These are some things you are doing to avoid negative
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Demestic Seer (cans): \$162,00/quarter	Use a designated driver. Keep track of how many drinks you were having.
Hicrobrew Beer (bottles): \$280.80/quarter	These are some other strategies you might use to reduce
The state of the s	negative effects of drinking:
Alcohol and Sexual Behavior	Switch between alcoholic and non-alcoholic beverages. Determine, in advance, not to exceed a set number of
You indicated that you have had the following alcohol-	drinks.
related sexual experiences:	Choose not to drink alcohol. Eat before and/or during drinking.
Heve gotten into sexual situations you later regretted because of drinking.	Have a friend let you know when you've had enough. Pace your drinks to 1 or fewer per hour.
Have had sex when you really didn't want to because of drinking.	Avoid drinking games. Drink an alcohol look alike (non-alcoholic beer, punch) or
Have had sex with someone you wouldn't ordinarily have sex with when drinking.	Jurce, water.
Have felt pressured or forced to have sex after drinking.	
Alcohol doesn't improve sexual enjoyment or	
performance. You can reduce your risks of unwanted sexual experiences by being selective about whether and	
perties. Use the buddy system to watch out for friends.	
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Motivating Campus Change (MC²)

- Participants in the feedback condition drank less at follow-up than controls (F(1,872) = 7.18, p<.01)
 - Composite score consisting of peak BAC, past month frequency, past year frequency, and total drinks per week

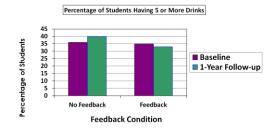
Source: Larimer, et al. (2007)

Motivating Campus Change (MC²)

 Feedback participants were more likely to refrain from heavy episodic drinking (defined as five or more drinks in a row at least once in the past two weeks)

(odds ratio = 1.43) (B = -0.36, X²(1, N=983) = 5.23, p<.05)

Source: Larimer, et al. (2007)



Source: Larimer, et al. (2007)

Motivating Campus Change (MC²)

 Abstainers in the feedback condition were twice as likely to remain abstinent at follow-up compared to controls (odds ratio = 2.02) (B = 0.70, X²(1, N=234) = 6.88, p<.01)

Source: Larimer, et al. (2007)

Of Abstainers at Baseline, Percentage of Students Initiating Drinking at 1-year Follow-up by Feedback Condition

Source: Larimer, et al. (2007)

Motivating Campus Change (MC²) • Protective behaviors mediated intervention efficacy (F(1,854) = 8.17, p<.01) • Participants who received the intervention increased the frequency of protective behaviors relative to the control group Source: Larimer, et al. (2007) Web-based graphic feedback A sample of findings of web-based personalized feedback interventions (PFI) • 21st birthdays - reduced BAC levels on day of 21st birthday (Neighbors, et al., 2009) • Alcohol-related risky sexual behaviors (Lewis, et al., Recently published study reviewed 32 electronic/web-based interventions, including

several commercially available products (Cronce,

Source: Larimer, et al. (2007)

http://www.arcr.niaaa.nih.gov/arcr/arcr361/article05.pdf

Bittinger, Liu, & Kilmer, 2014):

Screening Many of these conversations may not be happening ☐ Hingson, et al., (2012) identified respondents who ever drank alcohol and had seen a physician in the past year □Only 14% of those exceeding low risk drinking guidelines were asked and advised about risky drinking by their physician ☐18-25 year olds were most likely to exceed guidelines but were least often asked about drinking Hingson, et al (2012) Early identification of students and

Early identification of students and coordination of care

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	the contributing alcohol-divy			
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3. Those odiest clay	on has six or rows divide			
News	Less than nacrathly	Mondify	Two to their times per week.	From or more Steam is read.
4. Howevery cher	ing the last war have were it	and the souwer and	dictoring dolling on	ross had worself."
Nover	Less thorn	Monthly	Two to theer	Type or more
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3. How oben dut	ing the last year have you be	lied to develop who me	enally expected from you	Decame of Amilian
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7. Haw often date	ing the last year how you h			
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Vo. during the laterage

- Alcohol:
 - Efficacy of screening and brief motivational interventions in health centers has been established (Fleming et al., 2010; Schaus et al., 2009)
 - Hingson (2010) suggests that increased screening and intervention in health services could ultimately achieve population level benefits.

Potential barriers related to screening Selecting screening measures with adequate sensitivity/specificity Training Resistance toward conducting screenings Concern about more work for providers Concern about what to do when there's a positive screen and/or where to refer "Real world" issues related to resources • Still requires that a student come to a Health Center or **Counseling Center Application to groups Motivational Enhancement Techniques: Group Settings** Non-judgmental, non-confrontational • Cast a wide net to be inclusive of audience Ask open-ended questions as much as possible • Reflect when possible - this remains key · Consider "hooks" for the group • Elicit personally relevant reasons for change · Let group generate protective behavioral strategies, then fill in what they miss

Collectively, they can all be a part of the mix of strategies considered through CollegeAIM

		rogram and staff costs for adoption/implementa		
	Lower costs S	Mid-range costs \$\$	Highe	costs \$\$\$
	IND-3 Normative re-education: Electronic/mailed personalized normative feedback (PNP)—Genetic/other* [dtt. ll. ***, online/offsite!	IND-9 Skills training, alcohol focus: Goal/Intention-setting alone* [86, F; **, IP] IND-12 Skills training, alcohol plus general life skills:	IND-17 Multi-component education-focused program (MCEFI Alcoholiciuth for Callego* [e, B, **, online]	
Higher effectiveness * * *	RIGH-10-Skille training, alcohol focus: Self-enceistoring/tell- assessment alone* (E, F. et antiher/distel) RIGH-21 Personalisted Recitack introversion (PRI); cOEDC UP TO GO (formet); e-O-MDF (II, E, ***, ordine)	Acted Sale Training Program (SCTP)* [E. F. •••. PG] 100-16 like indexional intervention (MRE: 3-pressor) 100-16 like indexional intervention (MRE: 3-pressor) 100-22 Personalized Residuaci intervention (PFE: Geneticlyther' [88, E. ••••. online]	Interventions Delivered by Health Care Professionals Configured in What the professional steeling and techniques in what head are professional steeling and techniques and the steel delivered professional professional steeling and techniques and t	
Moderate effectiveness **		IND-6 Skills training, alcohol focus: Expectancy challenge interventions (EC)—Experiential (MLF, ***, PG) IND-13 Skills trainin, alcohol plus general life sible—Parent-based skilchel communication training (II, F, **, offolia)		
		IND-14 Skills training, stochol plus general life skills or general life skills only general life skills only general life.		
		IND-15 Brief motivational intervention (BMI): In-person— Group [88, E, ++, PG]	Effectiveness rating, based on percentage	Public health reach:
Lower ffectiveness	IND-2 Normative re-education: Electronio/mailed personalized normative feedback (PNP) Event-specific prevention (21st birthday cards) [#, B, ++, online/offsite]	INO-4 Narmative re-education: In-person norms clarification above ⁶ [II, E, **, IPQ]	of studies reporting any positive effect	F = Focused Research amount: 10 shades 7 to 10 chades 4 to 6 shades 3 or fever shades
Not effective X	IND-7 Skills training, alcohol focus: Expectancy challenge intervention (ECI)—By proxyldidactic/discussion alone* [#, F, **, PG]	IND-1 Information/knowledge/education alone* (if, B, *****, PG) IND-5 Values clarification alone* (if, F, **, PG)		
Too few dudies to rate effectiveness ?	IND-11 Skills training, sloated plus general life skills: Alcohol 101 Plus ¹⁹⁴ (A.B. +, anline)	IND-6 Skills training, sicohol focus: Blood sicohol concentration feedback alone* II, E. *, E11	Barriers: ### = Higher ## = Moderate # = Lower	Primary modality: F1 = In-person individual FG = In-person group Ordine Offste
	IND-19 Personalized feedback intervention (PFI): CheckburDinking (beta 1.0 version)* (#. 8. *, online) IND-20 Personalized feedback intervention (PFI): Callege Dinker's Check-ver' (#. 8. *, online)	INO-18 Multi-component education-focused programs (MCEFP): Miscellaneous* [#, 8, *, online]		

Possible Barriers to Implementing Effective Interventions on College Campuses

 Barriers can exist to dissemination, adoption, implementation, and maintenance (Rogers, 1995)



Source: Larimer, Kilmer, and Lee, 2005

Possible Barriers to Dissemination in Implementing **Effective Interventions** Published findings appear in journals not oriented to clinicians (Sobell, 1996) Often, little description of steps needed to apply a treatment or intervention · Some publications or evaluations are not "user friendly" (Backer, 2000) Source: Larimer, Kilmer, and Lee, 2005 Possible Barriers to Adoption in Implementing **Effective Interventions** · Reactions from key individuals involved in the process (DeJong and Langenbahn, 1996) · Diversity of opinion around how to proceed Could lead to difficulty in committing Source: Larimer, Kilmer, and Lee, 2005 Possible Barriers to Adoption in Implementing **Effective Interventions** • Unreasonable expectations (Liddle, et al., 2002) • Insufficient "buy-in" (Liddle, et al., 2002) Not enough time working with directors, administrators, staff, or students Source: Larimer, Kilmer, and Lee, 2005

Possible Barriers to Implementation in Implementing **Effective Interventions** • Proper training of those delivering a program • A tendency to "reinvent" innovations (Rohrbach, D'Onofrio, Backer, & Montgomery, 1996) Source: Larimer, Kilmer, and Lee, 2005 Possible Barriers to Implementation in Implementing **Effective Interventions** • Organizational factors (Simpson, 2002) Resources, issues impacting effective delivery, attitudes among leaders, etc. · Resistance among staff familiar and comfortable with a prior approach (Liddle, et al., 2002) Source: Larimer, Kilmer, and Lee, 2005 Possible Barriers to Maintenance in Implementing **Effective Interventions** Therapist drift (i.e., issues of fidelity) Need for ongoing assessment and continued training Source: Larimer, Kilmer, and Lee, 2005

Possible Administrative Barriers in Implementing **Effective Interventions** • Tendency to move toward "next best thing" One approach being pursued at the expense of Concern that directing attention or funds toward a behavior indicates that "problem" exists Source: Larimer, Kilmer, and Lee, 2005 Wrapping up Support for policies and enforcement is there! · A small group students may be quite vocal on campus to the point administrators withhold policy changes assumed to be unsupported by the student body (Lavigne, et al., 2008) Among students, Saltz (2007) found a "universal tendency" to underestimate student support for policies

Saltz (2007) conclusions (p. 459) "...campuses would actually have more incipient support for a variety of alcohol prevention policies than is likely to be perceived by the students themselves, and, by extension, administrators and others belonging to the campus community. " · "...Unless students are persuaded that such support is not limited to a fringe element, new policies are likely to be met with at least passive, if not active, resistance." Saltz (2007) conclusions (p. 459) · "...This then, suggests that today's campus prevention interventions, which now often comprise campaigns to correct students' perception of peer alcohol consumption, may want to incorporate a parallel effort to correct their perception of peer support for policies as well." • "This information may prove revelatory to some, and critical to the chances of having a significant impact on alcohol-related problems on campus, which is the ultimate target." A mix of strategies is best

Future directions

- Consider the audience/targets for and of various prevention/intervention efforts
 - Abstainers
- Returning veterans
- Study abroad programs
- Students in recovery
- Fraternity and sorority members
- Student athletes
- High-risk events
- Recognize and utilize expertise within your community
- Add to the science on "what works" for impacting alcohol use, drug use, violence, and the overlap of these issues
 - Prescription drugs
 - Marijuana

A quick word about spring break, 21 runs, students studying abroad, and new students

Tolerance

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Applying Laboratory Research: Drug Anticipation and the Treatment of Drug Addictio Shepard Siegel and Barburs M. C. Rumos

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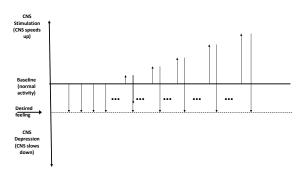
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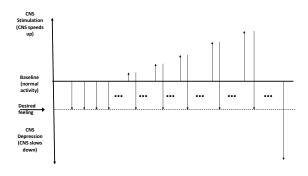
Types of learning

Classical Conditioning

- Pavlov
 - Association of two events such that one event acquires the ability to elicit responses formerly associated with the other event







Considering cues

• Even taste can be a cue

Siegel (2011) noted that college students who consume alcohol in the presence of usual taste cues (e.g., a beer flavored beverage) display greater tolerance to intoxicating effects than when consumed in a novel blue, peppermint-flavored beverage of the same strength.

Conclusion

• "The situational specificity of tolerance"

 If alcohol is presented "in a manner divorced from the usual alcohol-associated stimuli, the effects of the alcohol are enhanced (Siegel, 2011, p. 358)."



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