Addressing Substance Use with Adolescents and Young Adults: Trends, Needs, Questions, and Strategies



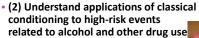
Jason R. Kilmer, Ph.D. University of Washington Assistant Professor

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Psychiatry & Behavioral Sciences Assistant Director of Health & Wellness for Alcohol & Other Drug Education Division of Student Life

Overview of this presentation...

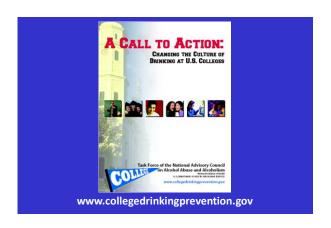
- · Big thanks to Julia Havens
- (1) Identify emerging research questions related to substance use and young adults



 (3) Consider applications of brief intervention strategies to conversations with young adults



A quick word about college campuses



The 3-in-1 Framework

- Individuals, Including At-Risk or Alcohol-Dependent Drinkers
- Student Body as a Whole
- College and the Surrounding Community

From: "A Call to Action: Changing the Culture of Drinking at U.S. Colleges," NIAAA Task Force

Tier 1: Evidence of Effectiveness Among College Students

- Combining cognitive-behavioral skills with norms clarification and motivational enhancement interventions (ASTP only program mentioned by name as an example).
- Offering brief motivational enhancement interventions (BASICS only program mentioned by name as an example).
- Challenging alcohol expectancies.

From: "A Call to Action: Changing the Culture of Drinking at U.S. Colleges," NIAAA Task Force

Updates • Updates in: **2007** · 2011 • College Alcohol Intervention Matrix (College AIM) Thorough review of environmental approaches, policies, prevention programs, intervention programs, and other approaches Arranged as a grid ("the matrix") so that things like cost, effectiveness, implementation needs, and other issues can be considered Mary Larimer, Traci Toomey, Jessica Cronce Jason Kilmer, Toben Nelson, Kathleen Lenk Contributors: College Coalition for Substance Abuse Prevention Annual Conference and Professional Development Meeting The Evergreen State College, June 26, 2015 PREVENTION Friday, June 26, 2015 9:30 a.m. -9:45 a.m. Intro - Berroduction/Welcome - Jacon Kilmer, Ph.D. - Chair, College Coalition - Audistant Professor, Psychiatry and Behavioral Sciences - Acat. Dir. of Health & Wellness for Alcohol & Other Drug Education, Div. of Student Life Wendy Endress, Ph.D. Vice President for Student Affairs The Evergreen State College 9.45 a.m.:1145 a.m. Keynote 81 Alcohol and Sexual Assault: Research Findings and Future Directions Antonia Abboy, Ph.D. Frotecor and CDS Avea Chair Mayor State University 11.45 a.m.:12.45 p.m. Lunch, Networking, and Discussion 12:45 p.m.-1:00 p.m. Keynote #2 Growing Up Hooking Up: Studying Emotion and Victimization among College Students Melissa Lewis, Ph.D. Associate Professor University of Washington 1:00 p.m.-3:00 p.m. (1) Identify emerging research questions related to substance use and young adults

What does marijuana use among 18-25 year olds look like here in Washington?

What did we do?

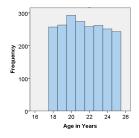
- UW Center for the Study of Health and Risk Behaviors (CSHRB) partnered with DBHR
- Internet based survey done May through early July 2014
- Got input from multiple experts, state offices, and tried to use questions with established reliability, validity, and/or normative reference groups
- Participants recruited using a combination of direct mail advertising to a random sample, as well as online advertising (Facebook, Craigslist, Amazon Mechanical Turk, study website, Facebook fan page)

Research Team: Jason Kilmer, Jessica Cronce, Mary Larimer, Theresa Walter, Tim Pace

What did we do?

- Assessed demographics on an ongoing basis and modified strategies to recruit under-represented groups
- Convenience sample, not a random sample
- To improve generalizability, used state census data to weight the sample to more accurately reflect the demographic and geographic diversity of Washington
- · Weighted results closely mirror the unweighted results

n=2,101 young adults in Washington between 18-25 years of age



OBTAINED Mean age: 21.44 years (S.D. = 2.26 years)

WEIGHTED Mean age: 21.39 years (S.D. = 2.25 years)

Other Demographic Information

OBSERVED

Race

- 72.2% Caucasian/White
- 11.9% Asian/Asian American
- 2.1% Black/African American
- 1.0% American Indian/Alaskan Native
 1.57% American Indian/Alaskan Native

- 8.1% more than one race

Gender identity

- 58.7% female 40.7% male
- 0.5% transgender

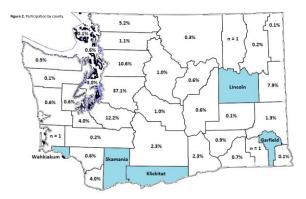
WEIGHTED

- Race

 - 66.3% Caucasian/White
- 7.7% Asian/Asian American
- 3.89% Black/African American
- 1.0% Native Hawaiian/Pacific Islander
 0.79% Native Hawaiian/Pacific Islander
 - 4.65% more than one race
 - . 0.18% other

Gender identity

- 48.12% female
- 51.39% male
- 0.49% transgender

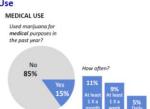


Past Year Frequency of Marijuana Use

RECREATIONAL USE
Used marijuana for recreational purposes in the past year?

No Yes
57% 43%

How often?
24%
At least 1 x a month
17%
At least 1 x a weak
6%



Marijuana Use

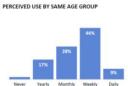
- WEIGHTED
- Recreational use
 - 43.51% at least once/past year
 - · 43.27% of 18-20 year olds
 - · 43.67% of 21-25 year olds
- WEIGHTED
- Medical use
- 14.74% at least once in the past year
 - · 14.02% of 18-20 year olds
 - 15.20% of 21-25 year olds

 Although 56% do not use marijuana, only 2% get this correct. Over half (53%) estimate the typical person their age uses marijuana at least weekly

ACTUAL USE

56% How aften do you think the typical person your age used marijuana for recreational purposes?

20% 10% 6%



Perceived Risk: Regular Use

BINGE I	DRINKING ON A WEEKEND	
Perceive	ed Risk of Physical Harm	
No risk 4%	Slight/Moderate Risk 64%	Great Risk 32%
Perceive	ed Risk of Psychological Harm	
No risk 3%	Slight/Moderate Risk 53%	Great Risk 43%

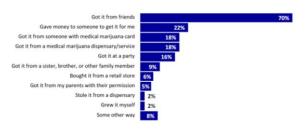
REGULAR	CANNABIS USE	
Perceived F	tisk of Physical Harm	
No risk 15%	Slight/Moderate Ris 599	
Perceived F	tisk of Psychological Harm	
No risk 10%	Slight/Moderate Risk 52%	Great Risk 38%

Perceived Risk and Relationship to Use

- Cannabis use is strongly, negatively correlated with:
 - Perceived <u>physical</u> risk from <u>occasional</u> use
 - WEIGHTED: (r=-.3943, p<.001)
 - Perceived <u>physical</u> risk from <u>regular</u> use
 - WEIGHTED: (r=-.4265, p<.001)
 - Perceived psychological risk from occasional use
 - WEIGHTED: (r=-.3836, p<.001)
 - Perceived <u>psychological</u> risk from <u>regular</u> use
 - WEIGHTED: (r=-.3847, p<.001)

Top Places Where People Get Marijuana

(among those who used at least once in the past 30 days)



Impaired driving and duration of effects

- · Effects on the brain
 - Reaction time is impacted
 - DUI implications getting set at 5 ng THC/ml of blood
 - Why 5 ng? Same deficits behind wheel of car that we see at .08% for alcohol
 - · How long does it take to drop below 5 ng?
 - Grotenhermen, et al., (2007) suggest it takes 3 hours for THC levels to drop to 4.9 ng THC/ml among 70 kg men
 - From a public health standpoint, Hall (2013) recommends waiting up to 5 hours after use before driving



Driving (among those who reported using at least once in the past 30 days)

Among the young adults who have used marijuana in the past month, almost half report they have driven a car within three hours of using marijuana

No 51 %	Yes 49 9	%	6
0 times	1 time 14%		6 or more times 16%

Next steps?

- Follow-up with existing cohort and recruit new cohort
- · Analyze additional data reflecting questions of interest:
 - Geographic/county differences
 - College vs. non-college
 - More under 21 vs. over 21 analyses

Next steps?

Add questions on dabbing and simultaneous use

- In the past 30 days, how often have you used alcohol and cannabis (e.g. marijuana, hashish) at the same time so that the effects overlapped (i.e., cross fading)?
- 0 times
- · 1 times
- · 2-3 times
- 4-5 times
- 6 or more times
- In the past 30 days, how many times have you driven a car or other vehicle within three hours of using alcohol and cannabis (e.g. marijuana, hashish) at the same time so that the effects overlapped (i.e., cross fading)?
 - · 0 times
 - · 1 times
 - · 2-3 times
 - · 4-5 times
 - 6 or more times

What do we need to be mindful of related to health and mental health?

Cannabis Use Associated with Risk of Psychiatric Disorders (Hall & Degenhardt, 2009; Hall, 2009; Hall 2013))

Schizophrenia

- Those who had used cannabis 10+ times by age 18 were 2.3 times more likely to be diagnosed with schizophrenia
- "13% of schizophrenia cases could be averted if cannabis use was prevented (Hall & Degenhardt, 2009, p. 1388)"
- · Depression and suicide
 - "Requires attention in cannabis dependent" (Hall, 2013)
- Screening suggestions
 - Revised CUDIT-r
 - http://www.otago.ac.nz/nationaladdictioncentre/pdfs/cudit-r.pdf

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Motivations for Use

•Research team utilized qualitative open-ended responses for using marijuana among incoming first year college students to identify which motivations were most salient to this population.

Lee, Neighbors, & Woods (2007)

Motivations for Use

	endorsing motive	motives
Enjoyment/fun (e.g., be happy, get high, enjoy feeling)	52.14%	24.03%
Conformity (e.g., peer pressure, friends do it)	42.81%	16.40%
Experimentation (e.g., new experience, curiosity)	41.25%	29.36%
Social enhancement (e.g., bonding with friends, hang out)	25.71%	8.66%
Boredom (e.g., something to do, nothing better to do)	25.08%	4.15%
Relaxation (e.g., to relax, helps me sleep)	24.64%	6.97%
Coping (e.g., depressed, relieve stress)	18.14%	5.10%
Availability (e.g., easy to get, it was offered)	13.74%	2.23%
Relative low risk (e.g., low health risk, no hangover)	10.88%	0.95%
Altered perception or perspectives (e.g., to enhance experiences, makes things more fun)	10.58%	1.81%
Activity enhancement (e.g., music sounds better, every day activities more interesting)	5.68%	0.80%
Rebellion (e.g., rebelling against parents, thrill of something illegal)	5.21%	0.32%
Alcohol intoxication (e.g., I was drunk)	4.42%	0.47%
Food enhancement (e.g., enjoy good food, food tastes better)	3.79%	0.00%
Anxiety reduction (e.g., be less shy, feel less insecure)	3.31%	0.00%
Image enhancement (e.g., to be cool, to feel cool)	2.85%	0.32%
Celebration (e.g., special occasion, to celebrate)	1.26%	0.16%
Medical use (e.g., alleviate physical pain, have a headache)	1.26%	0.16%
Habit (e.g., feeling was addictive, became a habit)	0.95%	0.00%

Motivations for Use

	Motive Category	participants endorsing motive	primary motives
Enjoyment/fun	Enjoyment/fun (e.g., be happy, get high, enjoy feeling)	52.14%	24.03%
	Conformity (e.g., peer pressure, friends do it)	42.81%	16.40%
Social	Experimentation (e.g., new experience, curiosity)	41.25%	29.36%
enhancement	Social enhancement (e.g., bonding with friends, hang out)	25.71%	8.66%
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enhancement	Image enhancement (e.g., to be cool, to feel cool)	2.85%	0.32%
Celebration	Celebration (e.g., special occasion, to celebrate)	1.26%	0.16%
Celebration	Medical use (e.g., alleviate physical pain, have a headache)	1.26%	0.16%
	Habit (e.g., feeling was addictive, became a habit)	0.95%	0.00%

Motivations for Use

	Motive Calegory	Proportion of participants endorsing motive	Proportion of primary motives
	Enjoyment/fun (e.g., be happy, get high, enjoy feeling)	52.14%	24.03%
	Conformity (e.g., peer pressure, friends do it)	42.81%	16.40%
Relaxation (to	Experimentation (e.g., new experience, curiosity)	41.25%	29.36%
relax, helps me	Social enhancement (e.g., bonding with friends, hang out)	25.71%	8.66%
sleep)	Boredom (e.g., something to do, nothing better to do)	25.08%	4.15%
	Relaxation (e.g., to relax, helps me sleep)	24.64%	6.97%
Coping	Coping (e.g., depressed, relieve stress)	18.14%	5.10%
(depressed,	Availability (e.g., easy to get, it was offered)	13.74%	2.23%
relieve stress)	Relative low risk (e.g., low health risk, no hangover)	10.88%	0.95%
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Medical use	Image enhancement (e.g., to be cool, to feel cool)	2.85%	0.32%
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Habit	Habit (e.g., feeing was addictive, became a habit)	0.95%	0.00%
nabit		Lee, Neighbors	& Woods (2007

Withdrawal: Cannabis

Diagnostic Criteria 292.0 (F12.288) A. Cessation of cannabis use that has been heavy and prolonged (i.e., usually daily or almost daily use over a period of at least a few months). B. Three (or more) of the following signs and symptoms develop within approximately 1 week after Criterion A: 1. Irritability, anger, or aggression. 2. Nervousness or anxiety. 3. Sleep difficulty (e.g., insomnia, disturbing dreams). 4. Decreased appetite or weight loss. 5. Restlessness. 6. Depressed mood. 7. At least one of the following physical symptoms causing significant discomfort: abdominal pain, shakinass/tremors, sweating, fever, chills, or headache. C. The signs or symptoms in Criterion B cause clinically significant distress or impairment in social, occupational, or other important areas of functioning. D. The signs or symptoms are not attributable to another medical condition and are not better explained by another mental disorder, including intoxication or withdrawal from another substance.

What's happening in the illicit market, what's happening with enforcement, and what is the impact on youth and young adults?

SPD BLOTTER "Officers Shall Not Take Any Enforcement Action—Other Than to Issue a Verbal Warning—For a Violation of I-502." seattle 📆 Getting baked outside? Seattle police to look other way Wednesday, December 5, 2012 by: Vanessa Ho "At least for now, Seattle Police plan to look the other way on the latter part until people get used to the new law." JERSEY 101.5 Seattle Police Release Hilarious Statement About Legalized Marijuana CITYDESK EXAMPLEA Seattle Police to Pot Smokers: 'Responsibly Get Baked, Enjoy Lord of the Rings Marathon' POSTED BY GEORGE PRENTICE, ON PRI, DEC 7, 2012 AT 9.04 AM Seattle police to hand out Doritos to Hempfest attendees instead of public consumption tickets By William Breathes in News, Say what? Thursday, August 15, 2013 at 11:20 am Seattle Police won't be ticketing people for public consumption at this weekend's Hempfest. Instead, they'll be issuing munchies along with information on the newly-passed marijuana laws in Washington state. ### We thought you might be hungry. We also thought now might be a good time CKER IS NOT A LAWYER AND CANNOT PROVIDE YOU WITH LEGAL ADVI We thought you might be mungly. We also thought now might be a good time for a refresher on the do's and don'ts of I-502. DON'TS Don't drive while high. Don't give, sell, or shotgun weed to people under 21. Don't use pot in public. You could be cited but we'd rather give you a warning. DO'S Do listen to Dark Side of the Moon at a reasonable volume. Do enjoy Hempfest. Remember: respect your fellow voters and familiarize yourself with the rules of I-502 at seattle.gov/police/marijwhatnow , SPD



Seattle tackles drug dealing, disorder in downtown core

Originally published April 21, 2015 at 7:06 pm | Updated April 23, 2015 at 4:31 pm | Correcte



On 4/21/15 from Seattle Times:

"City officials and business leaders say they are embarking on an ambitious effort to shut down open-air drug dealing and associated crime in Seattle's downtown core with its new '9½ Block Strategy.""



"Seattle residents and visitors should not be forced to navigate a dangerous open-air drug market between the downtown retail core and Pike Place Market," Murray said.

From Seattle Times, April 23, 2015

100 drug arrests kick off new push against downtown crime

Originally published April 23, 2015 at 11:15 am | Updated April 24, 2015 at 8:27 an



The arrests, dubbed "Operation Crosstown Traffic," involved undercover officers who made 177 purchases of heroin, meth, marijuana, crack cocaine and other drugs from 186 street dealers."

How do we get relevant and salient research in people's hands?

Marijuana and cognitive abilities

- Effects on the brain
 - Hippocampus
 - · Attention, concentration, and memory
 - Research with college students shows impact on these even 24 hours after last use (Pope & Yurgelun-Todd, 1996)
 - After daily use, takes 28 days for impact on attention, concentration, and memory to go away (Pope, et al., 2001)
 - Hanson et al. (2010):
 - Deficits in verbal learning (at 3 days, not 2 weeks or 3 weeks)
 - Deficits in verbal working memory (at 3 days, at 2 weeks, not 3 weeks)
 - Deficits in attention (still present at 3 weeks)



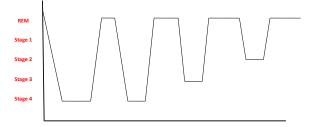
Some considerations around	
blood alcohol level	
Absorption and Oxidation of Alcohol	
 Factors affecting absorption What one is drinking 	
 Rate of consumption Effervescence 	
• Food in stomach	
Factors affecting oxidation	
Time!We oxidize .016% off of our blood	
alcohol content per hour	
Time to get back to .000%	
• .08%? • 5 hours	
(.080%064%048%032%016%000%) • .16%?	
10 hours (.160%144%128%112%096%080%	
.064%048%032%016%000%) • .24%? • 15 hours	
(.240%224%208%192%176%160% .144%128%112%096%080%064%	
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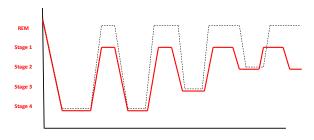
Sleep, Sleepiness, and Alcohol Use

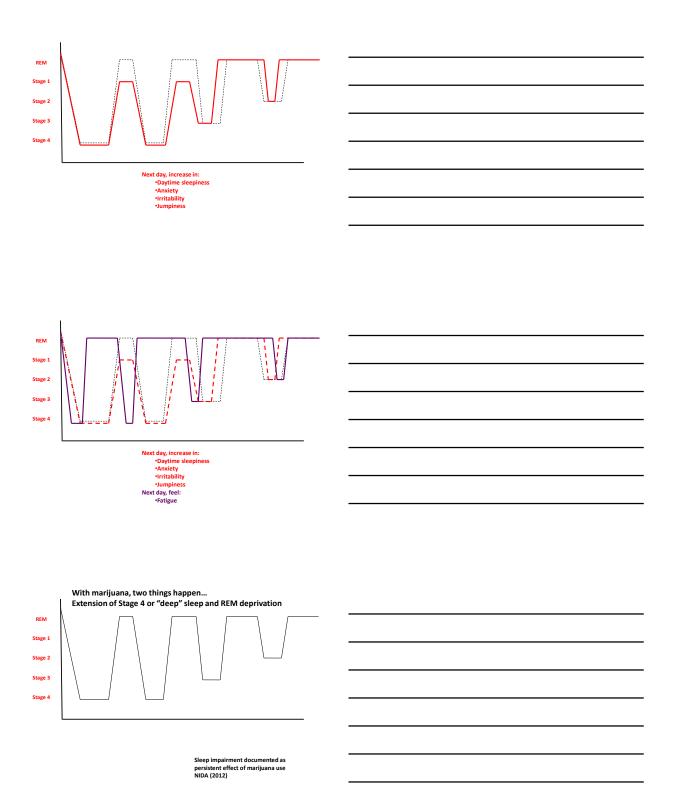
TIMOTHY ROEHRS, Ph.D., AND THOMAS ROTH, Ph.D.

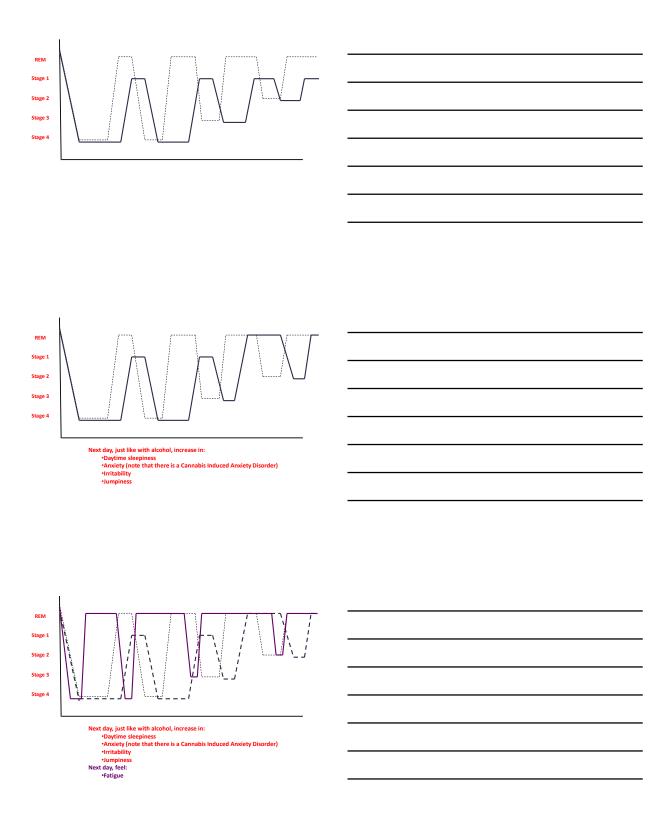
The study of alcohol's effects on sleep dates back to the late 1930s. Since then, an extensive literature has described alcohol's effects on the steep of healthy, manacholothe people. For example, studies found that in nonalcoholic who occasionally use alcohol, both high and we does of alcohol olitality improve deep, allough high alcohol disease are result in sleep use the studies of alcohol. But the studies are result in sleep that the studies of alcohol. Researchers have investigated the interactive effects of alcohol with extensive the studies of alcohol with extensive the studies of alcohol with other determinants of daytime deepjoines. Such studies indicate that alcohol interactive with sleep deprivation and sleep restriction to exacerbate distributed of the studies of alcohol with other performance impairment. According effects on other deprivation and sleep studies of the studies of other day one alcohol or other drug one, above, and dependenced its Michael or other drug one, above, and dependenced its Michael or other drug one, above, and dependenced its Michael or other drug one, above, and dependenced its Michael or other drug one, above, and dependenced its Michael or other drug one, above, and dependenced its Michael or other drug one, above, and dependenced its Michael or other drug one, above, and dependenced its Michael or other drug one, above, and dependenced its studies of the studies of th

http://pubs.niaaa.nih.gov/publications/arh25-2/101-109.pdf









A quick word about screening	_
An example	
 How many drinks did you have the last 	
time you drank alcohol?	
Discussing marijuanaword choice	
matters	
 "Do you smoke marijuana?" A person who uses edibles daily can honestly say "no" 	
 "Do you use marijuana?" or "have you used marijuana?" followed by, "What does your marijuana use look like?" 	
followed by, what does your marijuana use look like:	

(2) Understand applications of classical conditioning to high-risk events related to alcohol and other drug use

Tolerance

Applying Laboratory Research: Drug Anticipation and the Treatment of Drug Addiction Shepard Siegel and Barbars M. C. Ramos StcMaster University

The control of the form control of the control of the control of control of

Siegel, S. & Ramos, B.M.C. (2002) Applying laboratory research: Drug anticipation and the treatment of drug addiction. Experimental and Clinical Psychopharmacology, 10, 162-183.

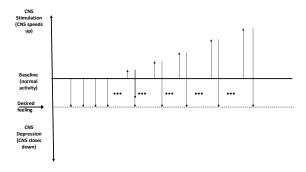


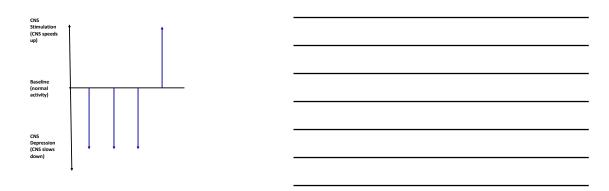
Types of learning

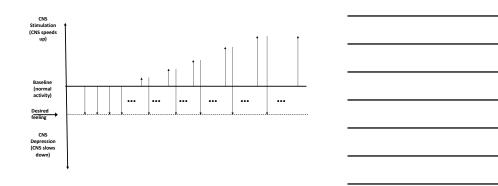
Classical Conditioning

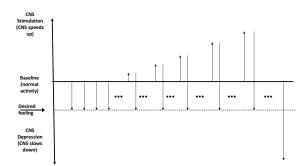
- · Association of two events such that one event acquires the ability to elicit responses formerly associated with the other event











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"

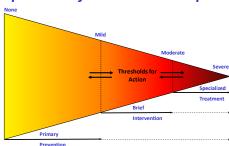
 If alcohol is presented "in a manner divorced from the usual alcohol-associated stimuli, the effects of the alcohol are enhanced (Siegel, 2011, p. 358)."

Implications for the college setting

- Consider high-risk events that can be associated with changes in cues:
 - Spring Break
 - 21st birthdays
 - Halloween
- Students studying abroad
- As a field, we still need to research ways to incorporate this information into prevention/intervention efforts, both for those who make the choice to drink and for those who may be bystanders intervening on someone's behalf

Consider applications of brief intervention strategies to conversations with young adults

Spectrum of Intervention Response



Trans-Theoretical Model (The Stages of Change)

(Prochaska & DiClemente, 1982, 1984, 1985, 1986)

- Precontemplation
- Contemplation
- Preparation/Determination
- Action
- Maintenance
- Relapse

Essentials of a Motivational Enhancement Approach

- Non-judgmental and non-confrontational ("the spirit" of MI)
- Emphasizes meeting people where they are in terms of their level of readiness to change
- Utilize MI strategies to elicit personally relevant reasons to change
- Often can find the "hook" that prompts contemplation of or commitment to change
- When person is ambivalent, considers ways to explore and resolve ambivalence

Miller and Rollnick (1991, 2002, 2012)

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

-	

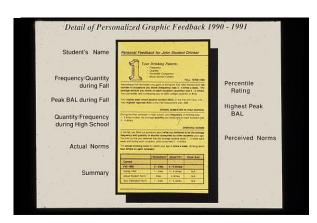


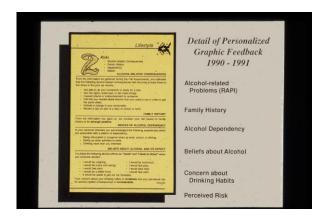
In-person BMI (most with PFI/PNF) 1999-2010

	Larimer & Cronce (2002)	Larimer & Cronce (2007)	Cronce & Larimer (2011)	Total
# of studies/interventions evidencing reductions in, or a protective effect against, drinking, consequences, and/or alcohol- psychopathology outcomes/ Total # of studies/interventions	8/8	10/14	17/19	35/41

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

G. Alan Marlatt





UNIVERSITY of WASHINGTON

Issues for consideration related to BASICS

Brief Alcohol Screening and Intervention For College Students

- Adjustments in feedback length/content without evaluation
- Best practices in training for BASICS delivery
- Staffing/practical needs leading to adjusting the intervention
- Bringing intervention to scale
- MI adherence & issues of fidelity



UNIVERSITY of WASHINGTON

individualized College Health for Alcohol and Marijuana Project (R21DA025833)

CHAMP

Lee, C.M., Kilmer, J.R., Neighbors, C., Atkins, D.C., Zheng, C., Walker, D.D., & Larimer, M.E. (2013). Indicated prevention for college student marijuana use: A randomized controlled trial. Journal of Consulting and Clinical Psychology, 81, 702-709.

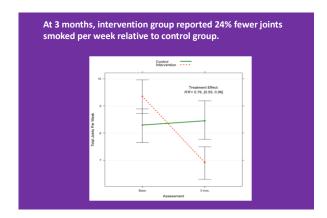
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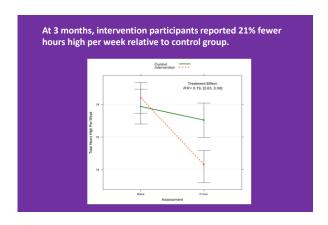






Our Findings	
3 Month Outcomes	6 Month Outcomes
# Days in last 30	# Days in last 30
* # Joints per week	# Joints per week
* Hours high per week	Hours high per week
★ Consequences	Consequences
	w







Four Principles of Motivational Interviewing

- Express Empathy
 - Research indicating importance of empathy
- Develop Discrepancy
 - $^{\mbox{\tiny o}}$ Values and goals for future as potent contrast to status quo
 - Person we are talking to must present arguments for change: professional declines expert role

Four Principles of Motivational Interviewing

- Roll with Resistance
 - Avoid argumentation
 - Confrontation increases resistance to change
 - Labeling is unnecessary
 - Professional's role is to reduce resistance, since this is correlated with poorer outcomes
 - If resistance increases, shift to different strategies
 - Objections or minimization do not demand a response

Four Principles of Motivational Interviewing

- · Support Self-Efficacy
 - The person we're working with is responsible for choosing and implementing change
 - Confidence and optimism are predictors of good outcome in both the professional and the individual he or she is working with

Strategic goal:

- Elicit Self-Motivational Statements
- " "Change talk"
- Self motivational statements indicate an individual's concern or recognition of need for change
- Types of self-motivational statements are:
- Problem recognition
- Concern
- · Intent to Change
- Optimism
- Arrange the conversation so that the individual we're working with makes arguments for change

OARS:

Building Blocks for a Foundation

- Ask Open-Ended Questions
 - Cannot be answered with yes or no
 - We, as the ones asking the question, do 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 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?"	
The second second	
OARS:	
Building Blocks for a Foundation	
• Affirm	
 Takes skill to find positives Should be offered only when sincere 	
 Has to do with characteristics/strengths "It is important for you to be a good student" 	
· "You're the kind of person that sticks to your word"	

OARS: **Building Blocks for a Foundation** Listen Reflectively Effortful process: Involves Hypothesis Testing · A reflection is our "hypothesis" of what the other person means or is feeling Reflections are statements • Person: "I've got so much to do and I don't know where to start." • One of us: "You've got a lot on your plate and feel really overwhelmed." • Person: "Yes, I really wish things weren't this way" or... "No, I'm just not really motivated to get things started." $^{\circ}$ "Either way, you get more information, and either way you're receiving feedback about the accuracy of your reflection." (p. 179, Rollnick, Miller, & Butler, 2008) OARS: **Building Blocks for a Foundation** Summarize Periodically to... · Demonstrate you are listening · Provide opportunity for shifting **Wrapping Up**

Lessons Learned

- Any one thing we do is a part of an overall puzzle.
 - Consider where your particular piece fits
 - Identify the other pieces on your campus or community when considering a strategic plan or approach
 - Policies/Enforcement Efforts (including unintended repercussions)
 - · Environmental approaches
 - · Partnerships/Coalitions
 - · Prevention/Intervention Efforts
 - Screening
 - Outreach
 - Bystander approaches
 - Find the missing pieces when examining "next steps"



Lessons Learned

- There are different "hooks" that could prompt thinking about or committing to change, and these hooks matter.
- Consider "hooks" as you consider your plan.

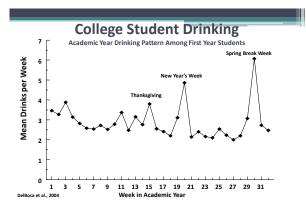


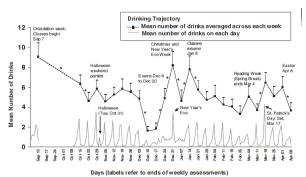
Lessons Learned

It's o.k. for things to be a work in progress.



Understand high-risk times of year, and both increase enforcement and offer event-specific prevention





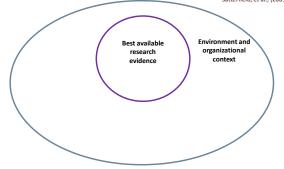
Daily and weekly alcohol consumption over academic year. Error bars (95% CI) are shown above the mean only. Asterisks (*) refer to significant adjacent week differences (Bonferroni adjusted level of p<.002) (Tremblay, et al., 2010)

Individually-focused approached must be	
packaged with	
environmentally-focused approaches, and vice-	
versa	
Consider evidence-based strategies with clear	
implementation	
What do we mean	
by "evidence-based?"	
"Evidence-based practice is the integration of best research evidence	
with clinical expertise and patient values"	
Institute of Medicine, 2001	

Different states of evidence for a range of college health issues and behaviors

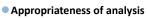
- Alcohol
- •Marijuana
- Other Drugs
- Sexual Assault
- •Relationship Violence
- Stalking
- Harassment
- Depression
- Suicide Intervention

Domains that influence evidence-based decision making



How do we assess quality of research?

- Reliability of measures
- Validity of measures
- Intervention fidelity
- Missing data and attrition
- Potential confounding variables





Source: SAMHSA's NREPP

Domains that influence evidence-based decision making Best available **Environment and** organizational research evidence context DECISION MAKING Population Resources, characteristics, including needs, values, and preferences practitioner expertise How do we build an evidencebased program? NREPP SAMHSA's National Registry of Evidence-based Programs and Practices A Road Map to Implementing Evidence-Based Programs http://www.nrepp.samhsa.gov/courses/Implementations/resources/imp_course.pdf Five main stages of successful implementation (Fixen, et al., 2005; NREPP/SAMHSA, 2012) "The use of effective interventions without implementation strategies is like serum without a syringe; the cure is available, but the delivery system is not."

Fixen, Blase, Duda, Naoom, & Van Dyke (2010)

Five main stages of successful implementation (Fixen, et al., 2005; NREPP/SAMHSA, 2012)

Exploration

- · Identify community's needs
- Assess organizational capacity
- Search program registries
- Understand program fidelity and program adaptation



Guide to Community Preventive Services http://www.thecommunityguide.org

← → C 🗋 www.thecommunityguide.org What is The Community Guide?

The Guide to Community Preventive Services is a free resource to help you choose programs and policies to improve health and prevent disease in your community. Systematic reviews are used to answer these questions:

- Which program and policy interventions have been proven effective? Are there effective interventions that are right for my community? What might effective interventions cost; what is the likely return on investment?

Learn more <u>about The Community Quide</u>, <u>collaborators</u> involved in its development and dissemination, and <u>methods</u> used to conduct the systematic reviews.

Suicide Prevention Resource Center Best Practices Registry http://www.sprc.org/bpr



SAMHSA's National Registry of Evidence-Based Programs and Practices http://www.nrepp.samhsa.gov WWW.nrepp.samhsa.gov WW.nrepp.samhsa.gov WW.nrepp.samhsa.gov WW.nrepp.samhsa.gov WW.nrepp.samhsa.gov WW.nrepp.samhsa.gov WW.nrepp.samhsa.gov WW.nrepp.samhsa.gov WW.nrepp.samhsa.gov

Five main stages of successful implementation

(Fixen, et al., 2005; NREPP/SAMHSA, 2012)

- Installation: Launching your program
 - Establish an implementation team
 - Identify and engage an individual or group of individuals to "champion" or promote your chosen program
 - Budget for startup costs
 - Recognize and address issues regarding readiness



Five main stages of successful implementation (Fixen, et al., 2005; NREPP/SAMHSA, 2012)

- Initial Implementation: Expect the Unexpected
 - Manage the change process
 - Accept abundant coaching
- Full Implementation: The program is in place
 - Maintain and improve service
 - Maintain core program components
 - Monitor and evaluate fidelity

Five main stages of successful implementation

(Fixen, et al., 2005; NREPP/SAMHSA, 2012)

Program sustainability

- Ensure continued funding
- Ensure fidelity to core components
- Develop and implement plans for quality improvement
- Evaluate data systems that support decision making
- Develop new community partnerships
- Share positive results to maintain buy-in

"Giving Psychology Away..."

"I can imagine nothing we could do that would be more relevant to human welfare, and nothing that could pose a greater challenge to the next generation of psychologists, than to discover how to best give psychology away..."



-- George A. Miller (from the Presidential Address to the American Psychological Association in Washington, DC, September 1969)

Have a great summer!

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