How Do We Know What to Do? Prioritizing Prevention Topics and Selecting Effective Strategies



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Overview of this presentation

- Special thank you to Eric Davidson and Annabelle Escamilla
- Thank you to all of you for doing what you do to support your community

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What I said I would cover...

We will discuss approaches to prevention efforts around alcohol and other drug use, including considering what to address and consider when there's pressure to do a particular program or focus on a particular topic. We will review ways in which NIAAA's CollegeAIM can be used to facilitate building a campus's strategic plan for prevention, intervention, and policy. Finally, we will talk about prioritizing prevention topics and considering ways to maximize resources, particularly when there are emerging or "hot topics" that seem to get attention.

 Understand how NIAAA's College Alcohol Intervention Matrix (CollegeAIM) can be used to guide conversations about prevention priorities on campus.
 Identify approaches with higher effectiveness in reducing alcohol use and related consequences.

(3) Consider prevention strategies for behaviors with lower frequency but high impact to students (and those around them)



Patrick, M. E., Miech, R. A., Johnston, L. D., & O'Malley, P. M. (2023). Monitoring the Future Panel Study annual report. National data on substance use among adults ages 19 to 60, 1376-2022. Monitoring the Future Monograph Series. Ann Arbor, ML: Institute for Social Research, University of Michigan. https://doi.org/10.7826/JSR-UM.06.585140.002.07.0002.2023

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Cannabis Use Data from Monitoring the Future Study

- College students
- 40.9% report past year use
- 22.1% report past month use
- 4.7% report use 20+ days in past month



Patrick, M. E., Miech, R. A., Johnston, L. D., & O'Malley, P. M. (2023). Monitoring the Future Panel Study annual report: National data on substance use among adults ages 19 to 60, 1976-2022. Monitoring the Future Monograph Series. Ann Arbor, MI: Institute for Social Research, University of Michigan. https://doi.org/10.7824/ISR-UM.06.585140.002.07.0022.2023

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The college student drinking prevention field has grown a great deal – let's look at some select highlights

College student drinking hit the radar of researchers in 1945

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The root that drive post-And pars in had eight without Clin. Lives as he might to the And dime ping good h Fry, C.C. (1945) A note on drinking in the college community. *Quarterly Journal of Studies on Alcohol, 6,* 243-248.

Fry (1945)

• "These parties are often attended by faculty members, some of whom are selected to respond to the chant, 'Old Prof. ______ is in the alcohol ward ______, Drink, Drink, Drink.' Cheers, or moans, and laughter follow this performance according to the speed with which the professor empties [their] glass. These parties break up after a few hours of song and good fellowship.

They do not occur often, but are part of the life of colleges and are accepted by the community as such." (p. 244)





Fry (1945)

Fry (1945) • "Wine is often served at fraternity dinners in the hope that members will learn to appreciate proper wines with food." (p. 244)

 "Although milk and soft drinks are extremely popular in American colleges – the consumption of them being greater than other beverages – a special snobbism is sometimes to be associated with the appreciation and knowledge of fine

wines." (p. 244)

• Warns that a "state of intoxication" could be the primary purpose of some events.

 Discusses the opportunity for returning veterans to attend college, and speculates on the role alcohol might play related to coping when under pressure in the college setting.

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Larger, even national studies, investigate the issue

Strauss & Bacon (1953)

 First widespread study of drinking at 27 colleges



Calls for effective prevention options are made, particularly as laws change

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Just Say No

- "Just Say No..."
- In 1982, while speaking with schoolchildren in Oakland, California, First Lady Nancy Reagan was asked what to do if company users to be offered



- if someone were to be offered drugs.
- She answered, "Well, you just say no."
- By the end of President Reagan's term, over 12,000 "Just Say No" clubs had started

Just Say No

 However, research at the time on prevention strategies acknowledged that while knowledge might increase following involvement in a program, attitudes were more difficult to change, and most studies showed no change in actual patterns of use (Hanson, 1982).

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College Alcohol Study: Differences from 1979 to 1985

> Task force or committee focusing on alcohol education and prevention
> 1979: 37%
> 1985: 64%
> Dedicated alcohol education coordinator or specialist
>
> 1979: 14%
> 1985: 48%

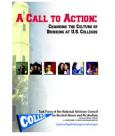
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College Alcohol Study: Differences from 1979 to 1985

- Top 3 most frequently endorsed activities:
- Articles in campus publications (76%)
- Films shown on campus (63%)
- Speakers (63%)
- There was recognition of the need to address college student drinking, yet no clear guidelines on how to best do this.

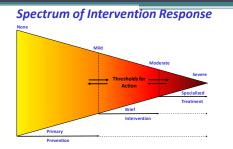
Gadaleto & Anderson (1986)

Gadaleto & Anderson (1986)



www.colleged rinking prevention.gov

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NIAAA College Drinking Task Force Tier System Emphasized Need to Use Evidence-Based Strategies, Measure Outcomes

□ <u>Tier I</u>: Evidence of effectiveness among college students (≥2 studies supporting efficacy)

- CALL TO ACTOOK
 Demand it have
 Therefore a success with general adult
 population that could be applied to college
 environments
 - <u>Tier 3</u>: Evidence of *logical and theoretical* promise, but require more comprehensive evaluation
 - <u>Tier 4</u>: Evidence of ineffectiveness

www.CollegeDrinkingPrevention.gov

G. Alan Marlatt, Ph.D. November 26, 1941-March 14, 2011



"In a world so often focused on "treating" addiction with tough love, Marlatt showed through his work and his life that kindness simply works better." Time Magazine, March 15, 2011

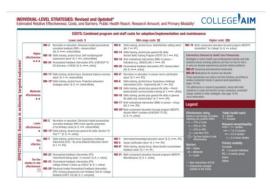
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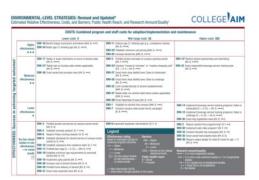
"What Colleges Need to Know Now: An Update on College Drinking Research" (2007)





www.collegedrinkingprevention.gov/CollegeAIM





Constructing a strategic plan for alcohol prevention



www.collegedrinkingprevention.gov/CollegeAIM

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COLLEGE

Overarching Goal of College AIM

Increase the likelihood that *research* will inform interventions to address drinking on campuses by providing a framework for schools to compare and select evidence-based intervention strategies.

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NIAAA's CollegeAIM

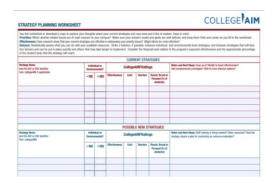
• How can schools and/or coalitions use *CollegeAIM*?

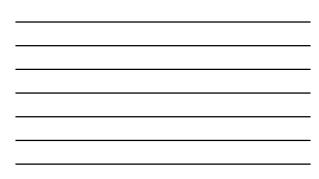
- Review individual and environmental strategies to compare approaches
- Find new evidence-based options to replace less effective strategies or address gaps
- Anyone reviewing CollegeAIM can use the interactive strategy planning worksheet to select a combination of approaches based on needs and budget

Start with a compilation of what is already offered



www.collegedrinkingprevention.gov/CollegeAIM

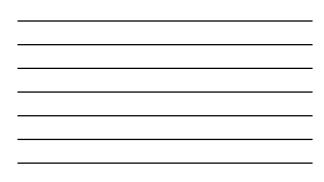


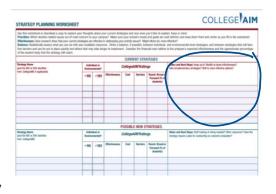


Then, consult College AIM!





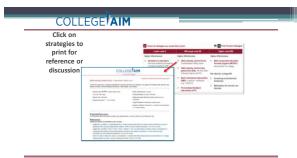




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www.collegedrinkingprevention.gov/CollegeAIM



www.collegedrinking prevention.gov/CollegeAIM



www.collegedrinkingprevention.gov/CollegeAIM

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"Consider a mix of strategies.

Your best chance for creating a safer campus could come from a combination of individual- and environmental-level interventions that work together to maximize positive effects (p. 5)."

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This "mix" includes (but is not limited to):

- Policies
- Enforcement
- Education
- Prevention
- Intervention
- Treatment
- Recovery support

Implementation strategies are key

"...the use of effective interventions on a scale sufficient to benefit society requires careful attention to implementation strategies as well. One without the other is like serum without a syringe; the cure is available, but the delivery system is not." (p. 448)

Fixsen, D. L., Blase, K. A., Duda, M. A., Naoom, S. F., & Van Dyke, M. (2010). Implementation of evidencebased treatments for children and adolescents: Research findings and their implications for the future. In J. R. Weisz & A. E. Kazdin (Eds.), *Evidence-based psychotherapies for children and adolescents* (p. 435–450). The Guilford Press

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Some of the most effective strategies are carried out in the communities and states surrounding the campuses, such as enforcing the minimum legal drinking age. Campus leaders can be influential in bringing about offcampus environmental changes that protect students.

To achieve success off campus, partner with leaders and coalitions in your community and state. Building these partnerships takes time, so you may want to make it part of a long-term plan. For models of campus-community collaboration, see the Frequently Asked Questions section of the *CollegeAIM* website (see URL below).

CollegeAIM, page 6

Environmental strategies/factors

- Increased enforcement of minimum drinking age laws.
- Studies show that increased enforcement, particularly with compliance checks on retail outlets, cuts rates of sales to minors by at least 50 percent.

NIAAA (2002); NIAAA (2015); NIAAA (2020)

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Environmental strategies/factors

- Restrictions on alcohol retail outlet density.
 - Higher density of alcohol outlets is associated with higher rates of consumption, violence, other crime, and health problems.
 - Higher level of drinking rates associated with larger number of businesses selling alcohol within one mile of campus

NIAAA (2002); NIAAA (2015); NIAAA (2020)



https://prev.org/Safer-Toolkit/index.html

What has "higher effectiveness" among individually-focused strategies?



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 Normative re-education: Electronic/mailed personalized normative feedback Normative re-education: Electronic/mailed personalized normative teedback (PRF)—Generic/other
 Skills training, alcohol focus: Self-monitoring/self-assessment alone
 Personalized feedback intervention (PFI): ECHECKUP TO GO (of formerly, e-CHUG)
 Skills training, alcohol pous: Goal/intention-setting alone
 Skills training, alcohol pous; Goal/intention-setting
 Multi-component education-focused program (MCEFP): AlcoholEdu[®] for College

	Lower costs \$	Mid-range costs \$\$	Higher costs \$\$\$
	IND-3 Normative re-education: Electronic/mailed personalized normative feedback (PRP)—Generic/uther ⁴ [F#, 8, ++++, coline/offsite]	IND-9 Skills training, alcohol focus: Goal/Intention-setting alone? [RR, F, ++, P1]	IND-19 Multi-component education-focused program (MCEFP) AcoholEdut ^a for Colleget ¹ (#, 8, ++, online)
Higher effectiveness	IND-10 Solit training, sicolar focus, Self-monitoring/self- assessment alone' (#, F, +++, criterioffatte) IND-24 Personalized testback intervention (PT): eCHECKUP TO GD (formativ, e-CHUG)' (#, B, ++++, unline)	 IND-14 SARs barring, alcohol plat general life skill: Alcohol Skill: Taining Program (ASTP/ (#. F. +++, PG)) IND-18 Brit modvational intervention (SMI): presence- individual (e.g., BASICS) (#R. F. ++++, IM) IND-29 Personalized Sections: intervention (PT): Generic/obar⁴ 188 +++++ execution 	Interventions Delivered by Health Care Professionals Strategies in which health care professionals identify and help students whose driving politims put form at risk for herm, or who are already experiencing alcohol-related profession 180-27 Screening and behavioral treatments.

Normative re-education: Electronic/mailed personalized normative feedback

- Normative re-education: Electronic/mailed personalized normative teedback (PRF) Generic/other Skills training, alcohol focus: Self-monitoring/self-assessment alone Personalized feedback intervention (PFI): eCHECKUP TO GO (formerk), e-CHUG) Skills training, alcohol focus: Goal/intention-setting alone Skills training, alcohol focus: Goal/intention-setting alone Skills training, alcohol focus: Goal/intention-setting alone Skills training, alcohol plus general life skills: Alcohol Skills Training Program (ASTP) Didd metational intentione (Intention) for the program (ASTP) Skills training, atcorner pus general me same, recorner same normer regione goal.
 Brief motivational intervention (BMI): Inperson—Individual (e.g., BASICS)
 Personalized feedback intervention (PFI): Generic/other
 Multi-component education-focused program (MCEFP): AlcoholEdu® for College

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Prevention strategies:

Personalized Normative Feedback (PNF) and Personalized Feedback Intervention (PFI)

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Norms Clarification

• Examines people's perceptions about:

• Injunctive Norms:

- Attitudes
 Acceptability of behaviors

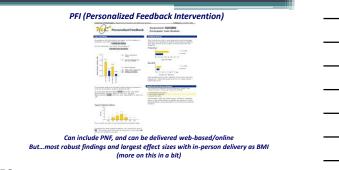
Descriptive norms

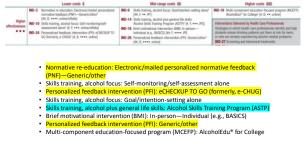
Perceptions about the prevalence of substance use among peers
Perception about the rate of substance use by peers





Typically delivered web-based/online





The Alcohol Skills Training Program (ASTP)

 A skills-training approach using motivational interviewing techniques in its delivery with a focus on drinking in less dangerous and less risky ways for those who make the choice to drink.

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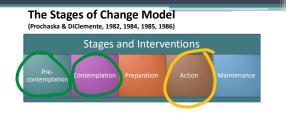
What is Harm Reduction?

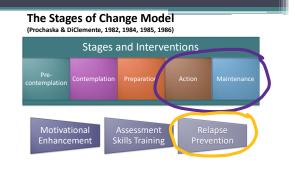
- The most harm-free or risk-free outcome following a harm reduction intervention is abstinence
- Any steps toward reduced risk are steps in the right direction

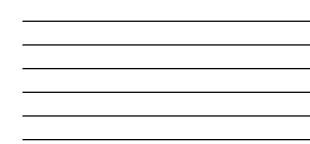
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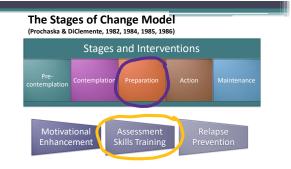
How are these principles implemented in an intervention with college students?

- 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 clinician, facilitator, student affairs professional, or program provider must elicit personally relevant reasons for changing.
- This is done using the Stages of Change model and Motivational Interviewing.

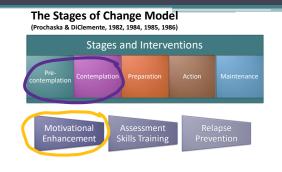












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Motivational Interviewing Basic Principles (Miller and Rollnick, 1991, 2002)

- 1. Express Empathy
- 2. Develop Discrepancy
- 3. Roll with Resistance
- 4. Support Self-Efficacy

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Blood Alcohol Level

.02% Relaxed

• .04% Relaxation continues, Buzz develops

• .06% Cognitive judgment is impaired

Steele, C.M., & Josephs, R.A. (1990). Alcohol myopia: Its prized and dangerous effects. American Psychologist, 45 (8), 921-933.

Alcohol Myopia

Its Prized and Dangerous Effects

Claude M. Steele and Robert A. Josephs University of Michigan



icant effects, a straig thinking of laymen as directly from the play much the way relaxat properties of valium, often drink alcohol t directly cause: relaxa ease, and so on (e.g., 1987; Leigh, 1989; M idea explains both he effects, such as aggre destructive, and oth reduction, are reinfor

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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

Specific Tips for Reducing the Risk of Alcohol Use

Set limits

- 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
- Avoid combining alcohol with cannabis (or other substances)

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	Lower costs \$	Mid-range costs \$\$	Higher costs \$\$\$
	Normative re-education: Electronic/mailed personalized normative feedback (PNF)—Generic/uther ⁴ [E8, 8. ++++, coline/offsith]	Skills training, skuthol focus: Goal/Intention-setting alone ² [Mit, F. ++, (P1] [Skills training, skuthol plus conversi Mir skills:	IND-19 Multi-component education-focused program (MCEFP): AlcoholEdut ^a for Colleget ² (#, 8, ++, online)
Higher	Skills training, alcohol focus: Self-monitoring/self- assessment alone ¹ (#, E, +++, online/offsite)		Interventions Delivered by Health Care Professionals Strategies in which health care professionals identify and help
	Personalized feedback intervention (PFI): eO/ECKUP TO GD (formerly, e-CHUG)* (#, 8, ****, online)	Individual (e.p., BASICS) (##, F, ++++, IPI)	students whose drinking patterns put them at risk for herm, or who are already experiencing alcohol-related problems: IND-27 Screening and behavioral treatments

- Normative re-education: Electronic/mailed personalized normative feedback (PNF)—Generic/other

- [PNF] Generic/other

 Skills training, alcohol focus: Self-monitoring/self-assessment alone

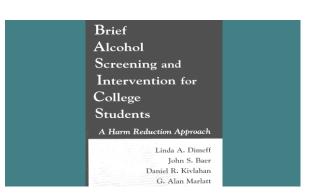
 Personalized feedback intervention (PFI): eCHECKUP TO GO (formerly, e-CHUG)

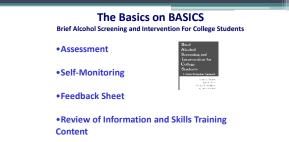
 Skills training, alcohol focus: Goal/intention-setting alone

 Skills training, alcohol plus general life skills: Alcohol Skills Training Program (ASTP Brief motizational intervention (BMI): hn-person-individual (e.g., BASICS)

 Personalized feedback intervention (PFI): Generic/other

 Multi-component education-focused program (MCEFP): AlcoholEdu® for College





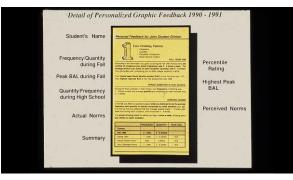
(Dimeff, Baer, Kivlahan, & Marlatt, 1999)

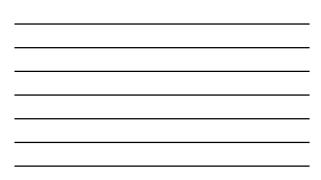
What does it mean to "do" BASICS?

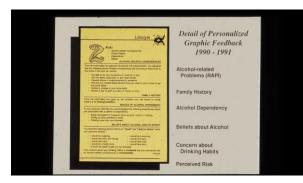


The "AS" is the alcohol screening Originally a separate in-person session Subsequently achieved online, but

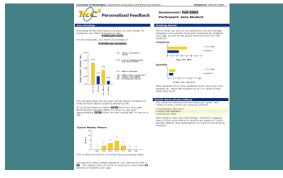
- The "I" is the intervention
- Originally a second in-person session guided by personalized graphic feedback
- Personalized graphic feedback delivered online/in-print without interaction with a facilitator (PFI) is *not* BASICS
 Intervention must be delivered with
- Intervention must be delivered with fidelity (meaning adherence to MI spirit, style, and strategies)

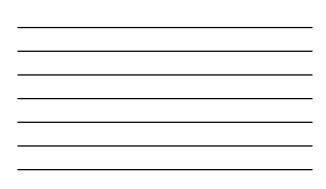






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	Lower costs \$		Mid-range costs \$\$	Higher costs \$\$\$
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	IND-24 Personalized feedback interventio GD (formerly, e-CHUG) ¹ (#, 8, ***	n (PT): eCHECKUP TO +, anline) IND-26	Individual (e.g., BASICS) [##, F, ++++, IP] Personalized feedback intervention (PR: Generic/other ¹ [##, B, ++++, online]	studients whose drividing patterns put them at risk for herm, or who are already experiencing alcohol-related problems: INO-27 Screening and behavioral treatments.

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		Lower costs \$	Mid-range costs SS	Higher costs \$\$\$
		Normative re-education: Electronic/mailed personalized normative feedback (PNF)—Generic/uther ⁴ [E8, 8, ++++, police/offsite]	Skills training, electric focus: Goal/Intention-setting alone? [48, E, ++, P1]	IND-19 Multi-component education-focused program (MCEFP): AcohoEdu* for College* (#, B, ++, online)
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 Skills training, alcohol focus: Sol/intention-setting alone

 Skills training, alcohol focus general life skills: Alcohol Skills Training Program (ASTF Personalized feedback intervention (PMI): In-person—Individual (e.g., BASICS)

 Personalized feedback intervention (Focused program (MCEFP): AlcoholEdu* for College

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• . • .

What do we do with cannabis use?

This "mix" includes (but is not limited to):

- Policies
- Enforcement
- Education
- Prevention
- Intervention
- Treatment
- Recovery support

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(1) Consider screening in Health & Counseling Centers

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(2) Go a step further with SBIRT, especially since motivational enhancement-based brief interventions show promise Screening: Universal screening for quickly assessing use/severity/risks
Brief Intervention: Motivational/awareness-raising intervention to prompt contemplation of or commitment to change
Referral to Treatment: Referral to specialty care or follow-ups

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In-person, personalized feedback interventions have shown reductions in use, time spent high, and consequences (e.g., Lee, et al., 2013)

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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(3) Correct misperceived norms

Correct Normative Misperceptions

- Most people are not using
- Most people are not driving under the influence
- The more people use, the more they think others are using
 Personalized normative feedback
 Personalized feedback interventions
 Social norms campaigns

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Mike Graham-Squire & Neighborhood House: MostSteerClear

(4) If considering harm reduction approaches, be aware of recommendations for "lower risk" rather than "low risk" use



Published in January 2022 issue of International Journal of Drug Policy

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General Precaution A:

"There is no universally safe level of cannabis use; thus, the only reliable way to avoid any risk for harm from using cannabis is to abstain from its use."

Among other recommendations:

- · People who use cannabis should use low potency cannabis products
- "Overall, there is no categorically 'safe' route of use for cannabis and each route option brings some level of distinct risks that needs to be taken into account for use." That said, smoking is particularly risky.
- · Keep use occasional (no more than 1 or 2 days a week, weekend only)
- If a person notices impacts to attention, concentration, or memory, "consider temporarily suspending or substantially reducing the intensity (e.g., frequency/potency) of their cannabis use."
- Avoid driving while under the influence (waiting at least 6-8 hours after inhaling, 8-12 hours after use of edibles)

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<u>Recommendation #11:</u> Some specific groups of people are at elevated risk for cannabis use-related health problems because of biological pre-dispositions or co-morbidities. They should accordingly (and possibly on medical advice as required) avoid or adjust their cannabis use. Higher risks for harm extend to individuals with a genetic predisposition (e.g., a first-degree family or personal history) for, or an active psychosis, mood (e.g., depressive) disorder, or substance use disorder.

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(5) Consider what you are offering to those 21 and older

Kilmer, J.R., Rhew, I.C., Guttmannova, K., Fleming, C.B., Hultgren, B., Gilson, M.S., Cooper, R.L., Dilley, J., & Larimer, M.E. (2022). Cannabis use among young adults in Washington State after legalization of nonmedical cannabis. American Journal of Public Health, 112, 638-645.

- n=12,963 young adults in Washington over 6
- time points

 Included covariates for:
- Sex assigned at birth
 Race
- Ethnicity

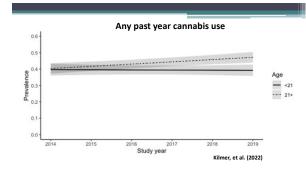
- Ethnicity
 Geographic region of the state
 Age
 Attending 4 year college
 Full time employment status
 Computed post-stratification weights to further
- control for distribution across the samples



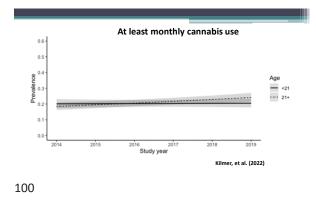
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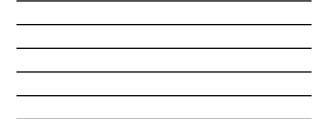
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+						At least monotiny At least daily
0.1		2016		2018	2019	

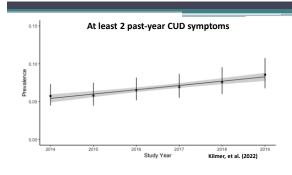












101

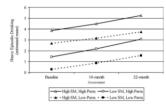
(6) Realize the amazing influence parents, caregivers, and guardians can have Examining role of parents and peers

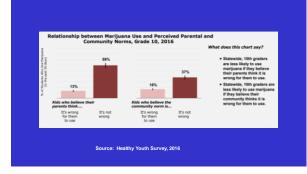
 Fairlie, Wood, & Laird (2012) collected data during summer before starting college, 10 month follow-up (spring senseter of first year), and 22 month follow-up (spring senseter of second year)
 Looked at social modeling (e.g., # of close friends who drink heavily, perceived friend approval of drinking and getting drunk) and parental permissiveness

Prospective Protective Effect of Paper Alcohol Invo	
Assor M. Fundar and Mark D. Wood. Californit of Work Island.	Robust D. Loled Colonomic of New Orlean
The properties that we is not a compared by bandle most distances and a protocol line of non-bandle static mentanges. Perform one being the state of the protocol line of the state of the state of the state of the state of the state and static interaction of the state of the state and static interaction of the state	Charlos and in the setup of the fordness is attempt or presented. Linear particle lasters in the setup of the setup of the setup of the set of the laster design and consequences. And of with laster design and consequences.

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Heavy episodic drinking as a function of high or low social modeling + high or low parental permissiveness







WHERE DO PEOPLE GET CANNABIS, 18-20 year olds										
c	ohort 1 (2014	Cohort 2 2015	Cohort 3 2016	Cohort 4 2017	Cohort 5 2018	Cohort 6 2019	Cohort 7 2020	Cohort 8 2021	Cohort 9 2022	Cohort 1 2023
From friends	72.86%	76.24%	69.68%	77.40%	63.75%	60.74%	66.87%	65.62%	59.68%	58.06%
Gave money to someone	23.29%	26.47%	34.72%	41.45%	39.29%	43.17%	40.55%	39.80%	37.62%	33.36%
Got it from someone w/ medical card	17.60%	14.12%	4.30%	5.24%	2.79%	2.82%	4.27%	4.58%	4.10%	1.62%
Got it from a medical dispensary	13.65%	18.99%	5.58%	4.72%	6.50%	8.28%	8.41%	12.03%	3.40%	7.53%
Got it at a party	22.99%	22.14%	23.08%	24.92%	20.12%	22.91%	8.82%	24.67%	16.43%	10.98%
Got it from family	5.65%	5.18%	11.75%	9.75%	11.24%	10.92%	13.49%	7.09%	11.36%	9.67%
Got it some other way	11.64%	4.12%	6.12%	9.02%	7.30%	6.21%	5.04%	6.24%	3.62%	4.28%
Bought from retail store	0.99%	4.58%	1.73%	1.92%	2.03%	3.55%	1.58%	1.03%	3.08%	1.53%
Got it from parents w/ permission	5.75%	6.02%	12.33%	10.44%	11.69%	12.91%	13.08%	13.91%	12.38%	15.779
Grew it themselves	1.91%	1.15%	1.65%	0.23%	1.47%	2.78%	1.64%	0.42%	0.59%	0.56%
Stole it from store/dispensar	.0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	4.16%	2.40%	0.00%	0.57%

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Available in 37 languages at StartTalkingNow.org

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https://www.learnaboutcannabiswa.org/parents/

LEARN ABOUT CANNABIS

TOPICS PARENTS TEENS CONSUMER FAQ VIDEO EDUCATION GET HELP

At the end of the day, you know your kid best. The best thing you can do is maintain open communication with your teen and monitor their behavio Use your best judgement to decide whether their behavior is cause for concern or whether your teen is just being a teen. And if you're unsure, tell about your concerns and then listen. See below for some tips on how to start conver

reases the risk my child will u w can I help re

v to talk to your teen about ca + What to do if you suspect or know your kid is using ca http://www.collegeparentsmatter.org



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ire college	parentsmatter.org/cannabis.html
	As a parent, what should I do?
Т	he guidance that might be most useful for you differs by the level of involvement with cannabis. How would you describe your grown child's cannabis use? Click on one of the battons below for discussion points and examples of what to say.
I'm not	sure if my child is using cannabis
Click for sug	petitions ¥
My child	uses cannabis, but I'm not sure how much or how often
Click for sug	gestions 🔻
My child	d uses cannabis regularly
Click for sug	gestions ¥

http://www.collegeparentsmatter.org

1) Don't be afraid to start the conversation

- 2) As a family member, you are allowed to disapprove of substance use. Give yourself permission to disapprove.
- a) Banish any fear that your disapproval is naïve.a) Focus on one message during the conversation.
- 5) Reject the myth that discouraging substance use is
- useless because everyone is doing it.
- 6) Make communication a regular activity.
- 7) Recognize the power of your influence.

With other substances, go where your data lead you

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Rates of substance use by college students are very well understood and established

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Monitoring the Future Study (2022 survey data for full-time college students)

Alcohol
/11001101

• Past 12 months:	80.5%
Past 30 days:	62.5%
• 5+ drinks/past 2 weeks:	27.7%
Cannabis	
Past 12 months:	40.9%
Past 30 days:	22.1%
• 20+ days/month:	4.7%

Patrick, M. E., Miech, R. A., Johnston, L. D., & O'Malley, P. M. (2023). Monitoring the Future Panel Study annual report: National data on substance use annong adults ages 19 to 60, 1976-2022. Monitoring the Future Monograph Series. Ann Arbor, Mi: Institute for Social Research, University of Michigan. https://doi.org/10.7826/JSR-UM.06.585140.002.07.0002.2023

Monitoring the Future Study (2022 survey data for full-time college students)

 Past year substance use endorsed by at least 5.0% of students:

• Vaping nicotine:	26.4%
Cigarettes:	15.6%
• Tobacco using a hookah:	5.6%
• Any prescription drug:	5.6%
Hallucinogens:	5.0%

Patrick, M. E., Miech, R. A., Johnston, L. D., & O'Malley, P. M. (2023). Monitoring the Future Panel Study annual report: National data on substance use among adults ages 19 to 60, 1976-2022. Monitoring the Future Monograph Series. Ann Arbor, MI: Institute for Social Research, University of Michigan. https://doi.org/10.728/JIS-WIM-06.55014002.07.0002.2023

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Monitoring the Future Study
0 /
(2022 survey data for full-time college students)

• Past year substance use...other substances of note:

• Amphetamines:	4.8%
Adderall:	3.7%
• Narcotics other than Heroin	0.8%
· Ritalin:	0.2%
• OxyContin:	0.1%
· Vicodin:	0.1%
Heroin:	**

- TECUTIT: Partick, M.E., Miech, R. A., Johnston, L. D., & O'Malley, P. M. (2023). Monitoring the Future Panel Study annual report: National data on substance use among adults ages 19 to 60, 1976-2022. Monitoring the Future Monograph Series. Ann Arbor, MI: Institute for Social Research, University of Michigan. https://doi.org/10.728/viSF-UM.o6.585140.002.07.002.2023

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Certainly, non-medical use of prescription medication gets a lot of attention on college campuses

Rates of non-medical use of prescription stimulants (NMPS) by college students decreasing over time

College Students: Past Year Prevalence of Non-Medical Prescription Stimulant Use (in percentage) 12 10.1 9.8 9.7 10 8.6 8.3 8.1 8 6.5 6 4 2 0 Past year non-medical prescription stimulant use ■ 2014 ■ 2015 ■ 2016 ■ 2017 ■ 2018 ■ 2019 ■ 2020 Source: Monitoring the Future (2021)

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Prescription stimulants are largely used with academic motives in mind, but use does not translate to improved GPA

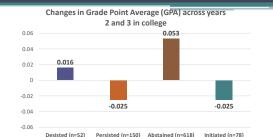
Motives for u	se over pas	st six months (among those with use over the past six months)	
 Percentage endorsing "sometimes/half the time," "often/most of the time," or "always/almost always" 			
	 52.8% 35.0% 28.9% 18.7% 13.9% 11.2% 0.4% 9.1% 8.6% 8.6% 6.4% 5.9% 5.1% 	To connertrate better in class To keep better track of assignments To feel better To prevent others from having an academic edge To get high To prolong the intoxicating effects of alcohol/substances Curiosity and experimentation Because it is safer than street drugs To lose weight Other Do count evaluation effects of other drugs Do count evaluation effects of other drugs	
Kilmer, et al., (2021)	112/0	PHARM	

Non-Medical Use of Prescription Stimulants

Desisted – used in year 2 but didn't in year 3 Persisted – used in year 2 AND in year 3 Abstained – didn't use in year 2 nor in year 3 Initiated – didn't use in year 2 but did in year 3

Arria, A.M., Caldeira, K.M., Vincent, K.B., O'Grady, K.E., Climini, M.D., Geisner, I.M., Fossos-Wong, N., Kilmer, J.R., Larimer, M.E. (2017). Do college students improve their grades by using prescription stimulantsnonmedically? Addictive Behowson, 55, 245-249.

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Desisted (n=52) Persisted (n=150) Abstained (n=618) Initiated (n=78) Arria, AM, Caldeira, K.M., Vincent, K.B., O'Grady, K.E., Cimini, M.D., Geisner, I.M., Foxsos-Wong, N., Klimer, J.R., Larimer, M.E. (2017). Do college students improve their grades by using prescription stimulants nonmedically? Additive Behaviors, 65, 245–249. Media reports or even prevention efforts calling them "study drugs" or "smart pills" feed into the misperception

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So what do we do when we're asked to address non-medical use of prescriptions?

Particularly if the main reason we're asked to address their use is that could be laced with fentanyl? This talk could be 3 minutes long

• "If we want health, we must promote

health."

• Jeff Linkenbach

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This talk could be 3 minutes long

• If "THE" answer on how to address the opiate epidemic and the immediate threat of fentanyl existed, I'm sure we'd be running to implement it. Certainly, for bystanders, Narcan is a valuable and important piece of the puzzle, and test strips can be a component, too.

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This talk could be 3 minutes long

• Fear based appeals DO NOT work

But what do we do when the data are scary?

130

This is a scary substance. But we can't be "scare tactic-y"

131

We are increasingly see warnings that vary in how blunt they are (and what it means if we don't follow the warning)



Motivational Interviewing







Miller & Rollnick, 1992, 2002, 2012, 2023

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Allow the data to be confrontational – not us.

The data are what the data are.

Defining the issue and opportunities within prevention:

One possible group of people: Those who make intentional choices to use fentanyl

Another possible group of people: Those who ingest something else that, unbeknownst to them, contains fentanyl

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UUBSTANCE USE & MIRLUNE. https://www.wg/10.1000/10004884.2021.1001126	Taylor & Francis
ORIGINAL ARTICLE	· Charter by appendix
Nonmedical Use of Prescription Stimulants as a "Red Flag" f Substance Use	or Other
laton R. Kilmer' @, Nicole Fossos-Wong' @, Irene M. Geisner' @, Jih-Cheng Yeh' (@, M. Dolores Cimini', Kathryn B. Vincent' @, Hannah K. Allen' @, Angelica L. Bar Amelia M. Arria' @	
Conter for the Soudy of Health and Bisk Behaviors, Department of Psychiatry and Behavious Sciences, Uri Washington, USA: "Centers for Behavioral Health Promotion and Aggined Research, University at Allaury, Alb Lioug Adult Health and Development, Department of Behavioral and Community Health, University of Ma College Park, Maryland, USA	ans, New York, USA: "Center on
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Kilmer, J.R., Fossos-Wong, N., Geisner, I.M., Yeh, J-C., arimer, M.E., Cimini, M.D., vincent, K.B., Allen, H.K., 3arrall, A.L., & Arria, A.M. 2021). Non-medical use of prescription stimulants as a red flag" for other ubstance use. Substance Use and Misuse, 56 (7), 411-949. doi: 10.1080/10826084.2021.19 Vacor

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Project PHARM: Collecting the data

- Study of non-medical use of ADHD prescription stimulant medication at 7 schools across the United States
 - 2,989 undergraduates between 18-25 years of age
 - "In the past 12 months, on how many days have you used an ADHD prescription stimulant non-medically?"
 - 17.2% reported past year use of a prescription
 - ADHD stimulant medication not prescribed to them

Kilmer, J.R., Fossos-Wong, N., Geisner, I.M., Yeh, J.-C., Larimer, M.E., Cimini, M.D., Vincent, K.B., Allen, H.K., Barrall, A.L., & Arria, A.M. (2021). Non-medical use of prescription stimulants as a 'red flag' for other substance use. Substance Uses and Missos, 56 (7), 941–949. doi:10.1080/10820084.2021.1091256

Skipping class

•Among those with no past year non-medical use of prescription stimulants

 − % skipping at least one class: 34.9%
 − Of those with at least 1 skipped class, % who said they skipped due to use of alcohol/other substances: 8.9%

·Among those with past year non-medical use of prescription stimulants

- % skipping at least one class: 54.1% 🗲
- Of those with at least 1 skipped class, % who said they skipped due to use of alcohol/other substances: 39.6% 🔶

Kilmer, J.R., Fossos-Wong, N., Geisner, I.M., Yeh, J-C., Larimer, M.E., Cinini, M.D., Vincent, K.B., Allen, H.K., Barrall, A.L., & Arria, A.M. (2021). Non-medical use of prescription stimulants as a "red flag" for other substance use. Substance: Use and Misses, 56 (7), 941–949. doi: 10.1080/10820684.2021.1901326

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Cannabis use

•Among those with no past year non-medical use of

prescription stimulants

– Past year cannabis use: 🛛 38.8% 🗲 – Past 30-day cannabis use: 23.0%

Among those with past year non-medical use of

prescription stimulants

- Past year cannabis use: 86.0% 🗲
- Past 30-day cannabis use: 66.2% 🔶

Kilmer, J.R., Fossos-Wong, N., Geisner, I.M., Yeh, J-C., Larimer, M.E., Cimini, M.D., Vincent, K.B., Allen, H.K., Barrall, A.L., & Arria, A.M. (2021). Non-medical use of prescription stimulants as a "red flag" for other substance use. Substance Use and Missos, 56 (7), 941–949. doi: 10.1080/10820084.2021.1501326

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Heavy episodic alcohol use

(4+ drinks last 30 days for women, 5+ drinks last 30 days for men)

•Among those with no past year non-medical use of prescription stimulants

- Women (4+ at least once past 30): 47.1% ┥
- Men (5+ at least once past 30):

47.0% ┥

·Among those with past year non-medical use of prescription stimulants

- Women (4+ at least once past 30): - Men (5+ at least once in past 30):
 - 85.6% 🔶

88.4% 🗲

Kilmer, J.R., Fossos-Wong, N., Geisner, I.M., Yeh, J-C., Larimer, M.E., Cimini, M.D., Vincent, K.B., Allen, H.K., Barrall, A.L., & Aria, A.M. (2021). Non-medical use of prescription stimulants as a "red flag" for other substance use. Substance Use and Missus, 56 (7), 413–494. doi: 10.1080/1082/064.2021.1501326

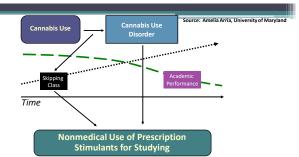
Cannabis and cognitive abilities

 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 (takes 2 weeks before no differences with comparison group)
- Deficits in verbal working memory (takes 3 weeks before no difference with comparison group)
 Deficits in attention (still present at 3 weeks)

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Idea #1:

There is a value in screening for nonmedical use of prescription stimulants: This will likely identify those who also use cannabis and consume alcohol in a high-risk way



Idea #2: There is a value in attempting to reduce cannabis use: Per Dr. Arria's theory, with a reduction in cannabis use, it appears non-medical use of stimulants would decline

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Idea #3:

There is a value in getting people connected to providers who can assess for, diagnose, and treat ADHD and related conditions so that anyone seeking medications is obtaining it legally and with input from a provider.

This would reduce the likelihood of people using "fake" pills Many fake pills are made to look like prescription opioids such as oxycodone (Oxycontin[®], Percocet[®]), hydrocodone (Vicodin[®]), and alprazolam (Xanax[®]); or stimulants like amphetamines (Adderall[®]).

https://www.dea.gov/sites/default/files/2022-12/DEA-OPCK_FactSheet_December_2022.pdf

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Idea #4: There is a value in doing what we can to reduce non-medical use of stimulants, particularly given concerns about fentanyl

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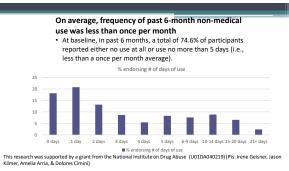
How did this match with your prediction? This research was supported by a grant from the National Institute on Drug Abuse (U01DA040219) (Pis: Irene Geisner, Jason Kilmer, Amelia Arria, & Dolores Cimini)

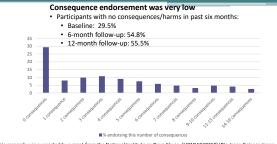


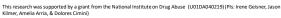
Even in a sample with past year non-medical use of prescription stimulants, past 6-month prevalence rates declined over time across the whole sample:

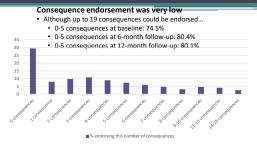
- · Percentage of participants reporting non-medical use of
- prescription stimulants on at least one day in the past 6 months Baseline: 81.9% 81.9%
- 6-month follow-up: 51.6%
- 12-month follow-up: 52.2%

This research was supported by a grant from the National Institute on Drug Abuse (U01DA040219) (PIs: Irene Geisner, Jason Kilmer, Amelia Arria, & Dolores Cimini)









This research was supported by a grant from the National Institute on Drug Abuse (U01DA040219) (PIs: Irene Geisner, Jason Kilmer, Amelia Arria, & Dolores Cimini)

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Norms were changed for those who received feedback compared to those who did not

Negative binomial GLM

- Past year non-medical use of prescription stimulants
 Significant at 6 months (p<.001)
 - Significant at 12 months (p<.01)
 - Significant linear trend (p<.001)
- Past month cannabis use
 Significant at 6 months (p<.001)
 - Significant at 12 months (p<.001)
 - Significant linear trend (p<.001)
- · No treatment effect was observed for normative

Perceptions of alcohol use perceptions of alcohol use This research was supported by a grant from the National Institute on Drug Abuse (U01DA040219)(Pis: Irene Geisner, Jason Kilmer, Amelia Arria, & Dolores Cimini)

Intervention effects at 6 month for non-medical use of prescription stimulants

- Negative binomial GLM models showed significant effect at 6-month follow-up
 - PFI participants reduced non-medical use of prescription stimulants at a greater rate than control group (p<.05%)
- No significant findings at 12 months or in linear trend
- No effect on consequences
- No effect on cannabis use or alcohol use

This research was supported by a grant from the National Institute on Drug Abuse (U01DA040219) (PIs: Irene Geisner, Jason Kilmer, Amelia Arria, & Dolores Cimini)

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• What do we make of our results?

- Everyone decreased over time holds with trends in the US
- Good thing from a public health standpoint!
- Already a relatively low baseline behavior
 - When only using 1-5 times in past 6 months, not a lot of room to change
- Relatively few harms experienced • Challenging in a harm reduction focused
 - intervention

This research was supported by a grant from the National Institute on Drug Abuse (U01DA040219) (PIs: Irene Geisner, Jason Kilmer, Amelia Arria, & Dolores Cimini)

- What do we make of our results?
 - What we primarily addressed and focused on <u>did</u> change
 - · Perceived norms
 - Non-medical use of prescription stimulants, though changes did not persist beyond the 6 month follow-up
 - These are students reporting poly-substance use
 - May need something more intensive than a webbased intervention (and never got the chance to test that)

This research was supported by a grant from the National Institute on Drug Abuse (U01DA040219) (PIs: Irene Geisner, Jason Kilmer, Amelia Arria, & Dolores Cimini)

Idea #5:

There is a similar value in doing what we can to reduce non-medical use of opiates in general, given these same concerns about "fake pills" being laced with fentanyl.

And, if cannabis is a "companion drug," then reducing cannabis use can be part of this big plan.

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https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6140166/pdf/ms115_p0191.pdf

Why marijuana will not fix the opioid epidemic. Medicine, 115, 191-193. PMID: PMC6140166.

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Why Marijuana Will Not Fix the Opioid Epidemic

Finn K. (2018)

"In 2017 Colorado had a record number of opioid overdose deaths from any opioid, including heroin and Colorado has had a medical marijuana program since 2001." (p. 191)

https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6140166/pdf/ms115_p0191.pdf

Why Marijuana Will Not Fix the Opioid Epidemic

"There is currently a large and growing body of evidence showing that cannabis use increases, rather than decreases non-medical prescription opioid use and opioid use disorder, based on follow up of more than 33,000 people." (p. 192)

Author cites: Olfson, M. (2018). Cannabis use and risk of prescription opioid use disorder in the United States. American Journal of Psychiatry, 175 (1): 47-53

started to increase over time, followed by an increase in optical overshase databa? There has been a fort of discussion about how the over of cannolitis will help such the optical expidence. ¹ In has been reported that reaching cannolities have are associated with cannolities the base contained and a section oversities experi- net the section.	In the face of the equival crisis, the method procedures should writing entry ways for people in north the true of equivals. Trustments was here physical theory, supportective, chargeractic, message, and equivitive- behavioral theorypies are source of the star-faller trustments in the measurement of method writing. Other			
https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6140166/pdf/ms115_p0191.pdf				

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Why Marijuana Will Not Fix the Opioid Epidemic

Finn K. (2018)

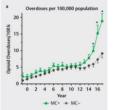
Finn K. (2018)

"There is sufficient and expanding evidence demonstrating that medical marijuana use will not curb the opioid epidemic. There is further evidence that marijuana is a companion drug rather than substitution drug and that marijuana use may be contributing to the opioid epidemic rather than improving it. Although there are patients who have successfully weaned off of their opioids and use marijuana instead, the evidence that marijuana will replace opioids is simply not there. " (p. 192) https://www.ncbi.nlm.nlg.gov/pmd/artics/pt0/cs125_pt31_ptf

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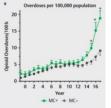
Kaufman DE, Nihal AM, Leppo JD, Staples KM, McCall KL, Piper BJ. (2021). Opioid mortality following implementation of medical cannabis programs in the United States. *Pharmacopsychiatry*, 54, 91-95. doi: 10.1055/a-1353-6509. Epub 2021 Feb 23. PMID: 33621991.



"Significant differences in overdoses per 100,000 population were identified in '02, '06, and '13 to '17 between MC+ and MC- states." (p. 93)

Kaufman DE, Nihal AM, Leppo JD, Staples KM, McCall KL, Piper BJ. (2021). Opioid mortality following implementation of medical canabias programs in the United States. *Pharmacopsychiatry*, 54, 91-95. doi: 10.1055/s-1353-6509. Epub 2021 Feb 23. PMID: 33621991.

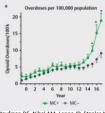
166



"...opioid overdoses did not decrease in the years subsequent to states adopting MC as compared to states that did not. In fact, states that adopted MC had significantly greater overdose slopes than those that did not." (p. 93)

Kaufman DE, Nihal AM, Leppo JD, Staples KM, McCall KL, Piper BJ. (2021). Opioid mortality following implementation of edical cannabis programs in the United States. *Pharmacopsychiatry*, 54, 91-95. doi: 10.1055/s-1353-669. Epub 2021 Feb 23. PMID: 33521991.





"In conclusion, new empirically grounded solutions to reverse the pronounced levels of opioid overdoses in the US are urgently needed. This study tested whether the protective effects previously found in some studies of MC against opioid overdoses could be repeated with the addition of more data. States with MC had increased, not decreased as would be predicted, overdose slopes (p. 94).

Kaufman DE, Nihal AM, Leppo JD, Staples KM, McCall KL, Piper BJ. (2021). Opioid mortality following implementation of medical cannabis programs in the United States. *Pharmacopsychiatry*, 54, 91-95. doi: 10.1055/a-1353-6509. Epub 2021 Feb 23. PMID: 33621991.

Idea #6:

Some students report that the reason they take something without completely knowing what is in it is that they've been drinking alcohol and their judgment is impaired.

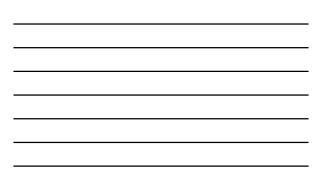
As with idea 5, reducing alcohol use can be part of this big plan.

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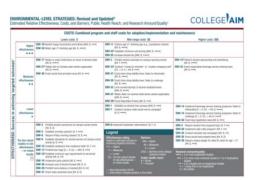
So what's the good news?

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1	







"Consider a mix of strategies.

Your best chance for creating a safer campus could come from a combination of individual- and environmental-level interventions that work together to maximize positive effects (p. 5)."

176

This "mix" includes (but is not limited to):

- Policies
- Enforcement
- Education
- Prevention
- Intervention
- Treatment
- Recovery support

Norms-based messages can be used to address non-medical use of prescription stimulants

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Sticking with naps and coffee?

So are your classmates – **83%** of ______ students have <u>not taken</u> prescription stimulants that were not prescribed to them.



Data are based on past 12-month non-medical use of prescription stimulants and come from a 2016 study of 2,989 college students

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83% of ______ students have <u>not taken</u> prescription stimulants that were not prescribed to them.

Here's what <u>other college undergrads</u> suggested as tips to boost your focus: Talk to people Exercise Study in a group Take a power nap Break up your studying in pieces Treat yourself after each piece Take a 15 minute break Data are based on past 12-month non-medical use of

Data are based on past 12-month non-medical use of prescription stimulants and come from a 2016 study of 2,989 college students Norms based messages can be used to support seeking help (and not seeking pills from others)

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You wouldn't go to a friend for an antibiotic...

74% of ______ students with an ADHD prescription said they'd want friends who are asking for their medication to get help if they need it by seeing a doctor.

Consider the following on-campus resources: ** CAMPUS SPECIFIC RESOURCES HERE **



Data are based on past 12-month non-medical use of prescription stimulants and come from a 2016 study of 2,989 college students

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Your friend's not a doctor.

74% of ______ students with an ADHD prescription said they'd want friends who are asking for their medication to get help if they need it by seeing a doctor.

Consider the following on-campus resources: ** CAMPUS SPECIFIC RESOURCES HERE **



Data are based on past 12-month non-medical use of prescription stimulants and come from a 2016 study of 2,989 college students

Wrapping up

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Wrapping up/Future directions

- We have effective strategies out there!
- Consider the audience for prevention/intervention efforts
- Those who do not drink or use substances
- Study abroad programs
- Students in recovery
- Fraternity and sorority members
- Student athletes
- High-risk events

- T
- $\, \cdot \,$ Consider ways to reach young adults who aren't in a college setting
- Add to the science on "what works" for impacting alcohol use, other drug use, interpersonal violence, and the overlap of these issues

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As you considered messaging, some great resources on the words we use

Great resource from CDC:

https://www.cdc.gov/healthcommunication/Health_Equity.html



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Avoid saying target, tackle, combat, or other terms with violent connotation when referring to people, groups, or communities.

These terms should also be avoided, in general, when communicating about public health activities.

Instead of this...

- Try this... Target communities for interventions Engage/prioritize/collaborate with/serve [population of focus]
- Target population
- Tackle issues within the community
- Aimed at communities
- Combat or fight against [disease] • War against [disease]
- Population of focusConsider the needs of/Tailor to the needs of [population of focus]
- Communities/populations of focus
- Intended audience
- Eliminate/eradicate [issue/disease] · Prevent/control spread of [disease]

https://www.cdc.gov/healthcommunication/Key_Principles.html

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Great resource from APA

https://www.apa.org/about/apa/equity-diversity-inclusion/language-guidelines.pdf





Thank you!

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