Lobby Poll

What types of strategies are you implementing or have implemented recently?

- · Education and Awareness
- · Prescription drug disposal programs
- Prescription drug monitoring programs
- Prescribing and dispensing regulations/policies
- · Law enforcement actions
- · Treatment and follow-up services
- · Naloxone access and promotion strategies
- · Help-seeking promotion strategies
- · Supervised consumption facilities
- · Other: Write in Chat Box

What types of strategies are others implementing in your community? (same list of options)

- Education and Awareness
- · Prescription drug disposal programs
- Prescription drug monitoring programs
- Prescribing and dispensing regulations/policies
- Law enforcement actions
- Treatment and follow-up services
- Naloxone access and promotion strategies
- · Help-seeking promotion strategies
- · Supervised consumption facilities
- Other: Write in Chat Box



Disclaimer

The views expressed in this webinar do not necessarily represent the views, policies, and positions of the Substance Abuse and Mental Health Services Administration or the U.S. Department of Health and Human Services.

This webinar is being recorded and archived, and will be available for viewing after the webinar. Please contact the webinar facilitator if you have any concerns or questions.



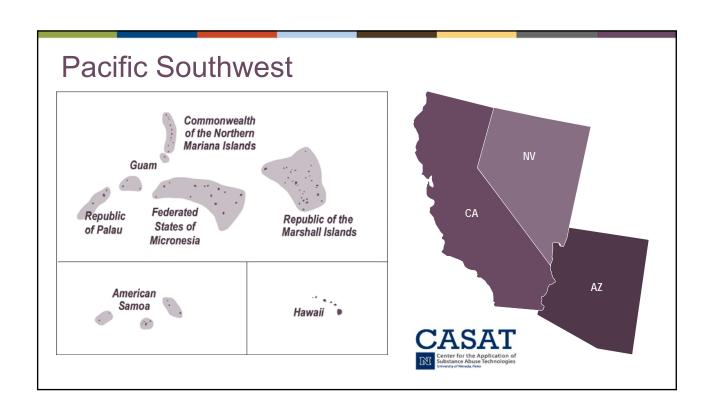








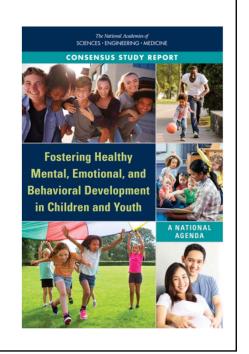




Mark Your Calendars!

Cross-Regional Webinar:

November 26, 2019 3:00 PM – 4:30 PM Pacific



Presenters



Alyssa O'Hair, MPH, MA, CPS, Pacific Southwest PTTC Project Director Ms. O'Hair is a Senior Manager, Workforce Development at the Center for the Application of Substance Abuse Technologies at the University of Nevada, Reno.



Michelle Frye-Spray, MS, CPS, Northwest PTTC Coordinator

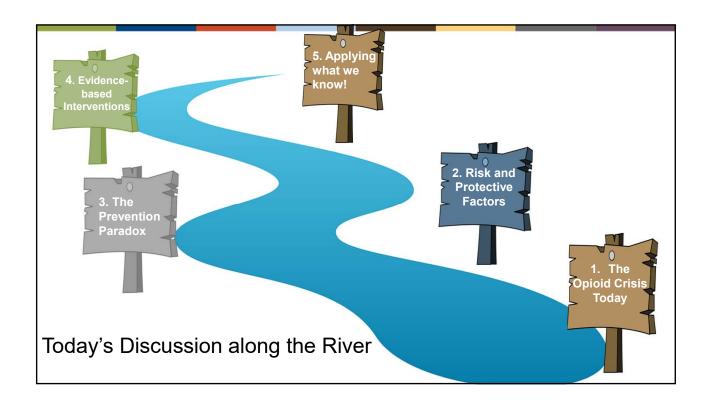
Ms. Frye-Spray is a Project Manager at the Center for the Application of Substance Abuse Technologies at the University of Nevada, Reno.



Kevin P. Haggerty, MSW, PhD, Northwest PTTC Project DirectorDr. Haggerty is a Professor at the UW School of Social Work, and Director of the Social Development Research Group.

Webinar Objectives

- Describe what is known in the research about risk and protective factors associated with opioid misuse
- List a variety of interventions that prevent opioid misuse and overdoses
- Describe the current evidence of effectiveness of these interventions



What are opioids?

- Prescription Opioids can be prescribed by doctors to treat moderate to severe pain, but can also have serious risks and side effects.
 - Common types are oxycodone (OxyContin), hydrocodone (Vicodin), morphine, and methadone.
- Heroin is an illegal opioid.
- **Fentanyl** is a synthetic opioid pain reliever. It is many times more powerful than other opioids and is approved for treating severe pain, typically advanced cancer pain.
 - Illicitly manufactured fentanyl has been on the rise in several states.

https://www.cdc.gov/drugoverdose/opioids/index.html

The Opioid Crisis: Concern and Hope

True or False?

Drug Overdose Deaths increased between 2015 and 2017



Poll Question

What percentage of drug overdose deaths involved an opioid?

- a) 43%
- b) 59%
- c) 68%
- d) 88%



About 2/3 of Drug Overdose Deaths Involve an Opioid

In 2015: 52,404 overdose deaths; 63.1% involved an opioid¹

In 2016: 63,632 overdose deaths; 66.4% involved an opioid²

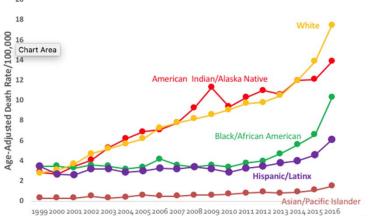
In 2017: 70,237 overdoses accounted; 67.8% involved opioids³

On average, 130 Americans die every day after overdosing on opioids⁴

The CDC estimates the total economic burden of prescription opioid misuse alone in the United States is \$78.5 billion a year,

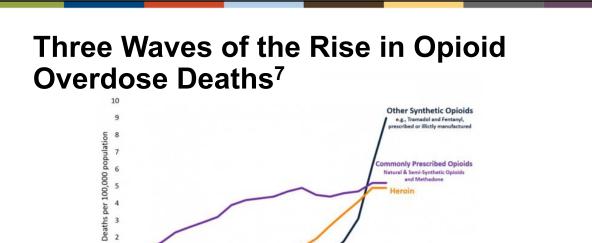
including the costs of healthcare, lost productivity, substance use disorder treatment, and criminal justice involvement.⁵

Opioid Overdose Death Rates by Race/Ethnicity⁶



1999 2000 2001 2002 2003 2004, 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014, 2015 2016 Emeters for Disease Control and Prevention, National Center for Health Statistics, Multiple Cause of Death 1999 2016 on CDC WONDER Online Database, released December, 2017 Data are from the Multiple Cause of Death Files, 1999-2016, as compiled from data provided by the 57 vital statistics jurisdictions through the Vital Statistics Cooperative Program.

1999-2016 Any Opioid



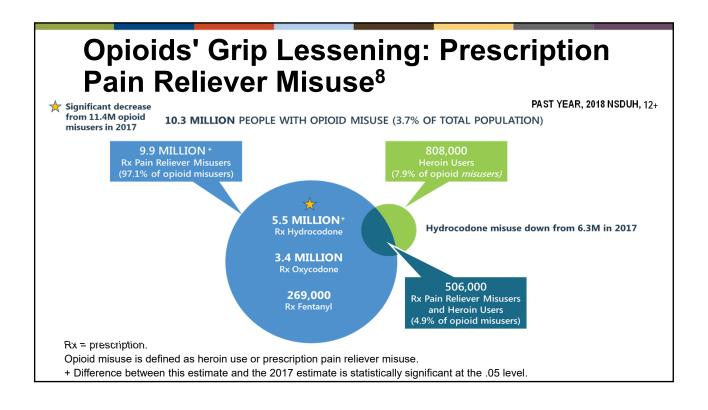
SOURCE: National Vital Statistics System Mortality File.

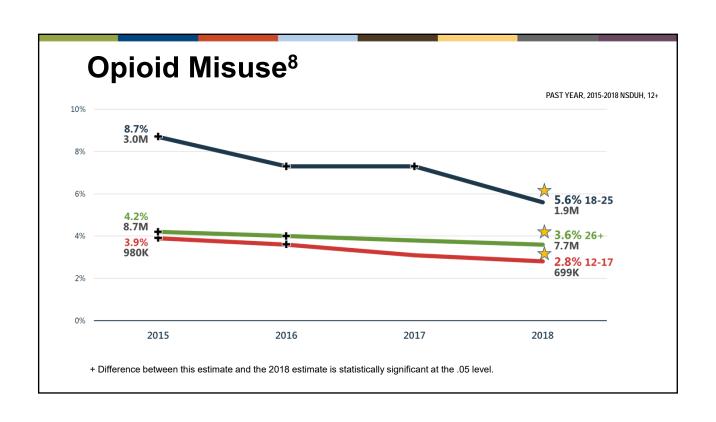
Poll Question

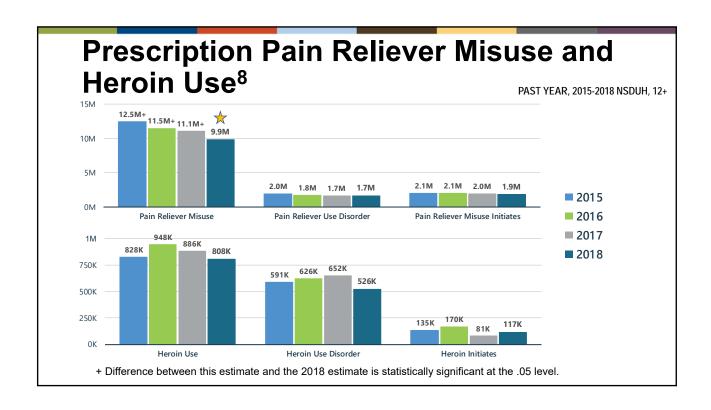
Has opioid misuse/heroin use increased, decreased, or remained stable since 2015?

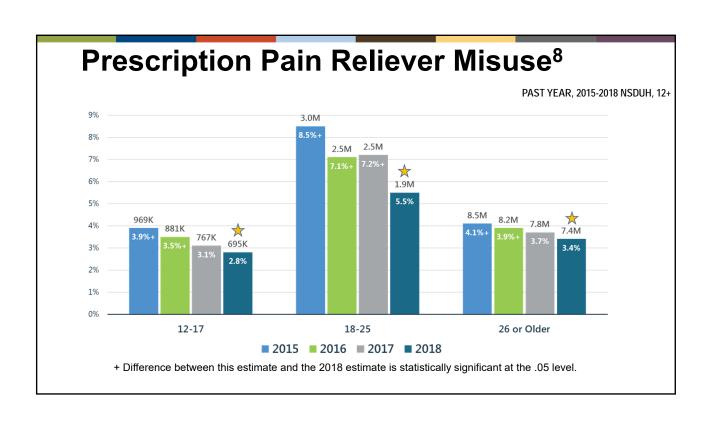
- a) Increased
- b) Decreased
- c) Remained stable
- d) Not sure

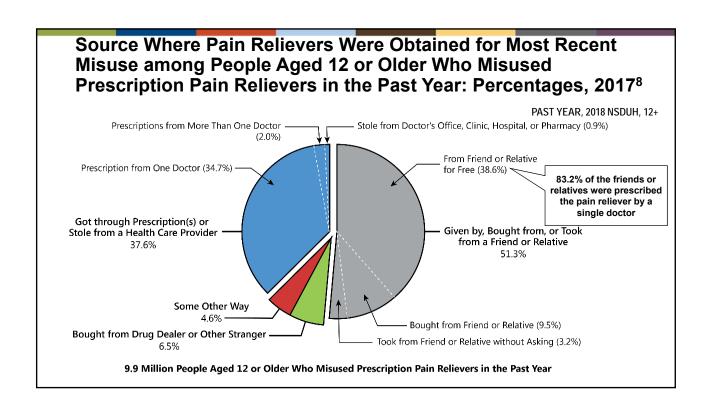


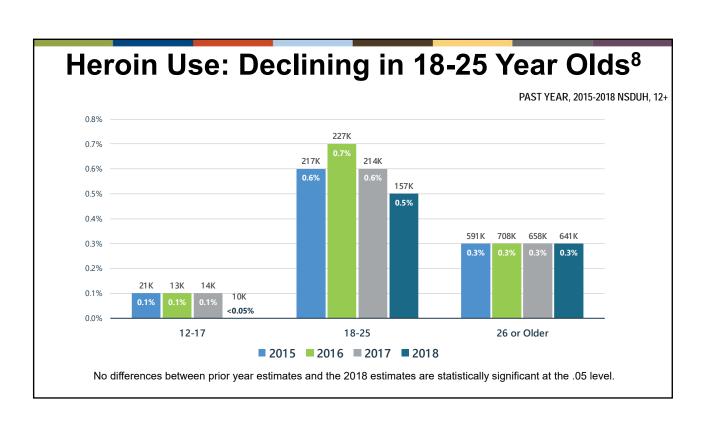












Rising Number of People Initiating with Heroin⁹

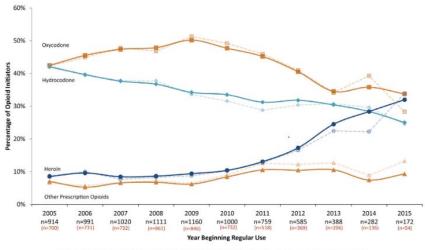
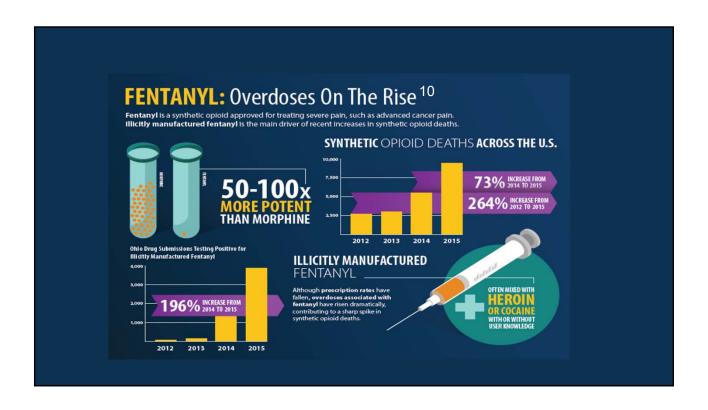


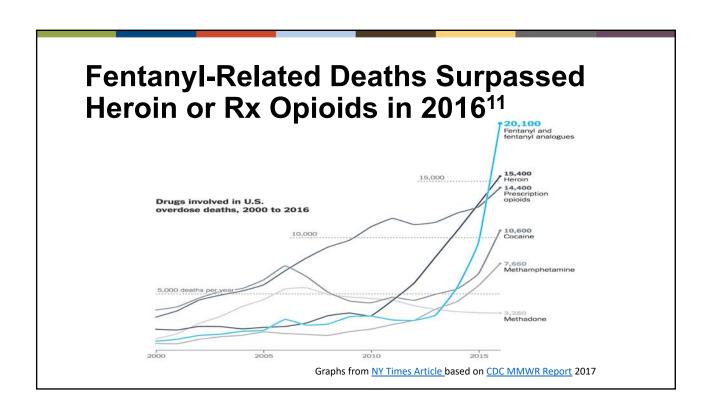
Fig. 1. First opioid of regular abuse among opioid initiates from 2005 to 2015 (N = 8382).

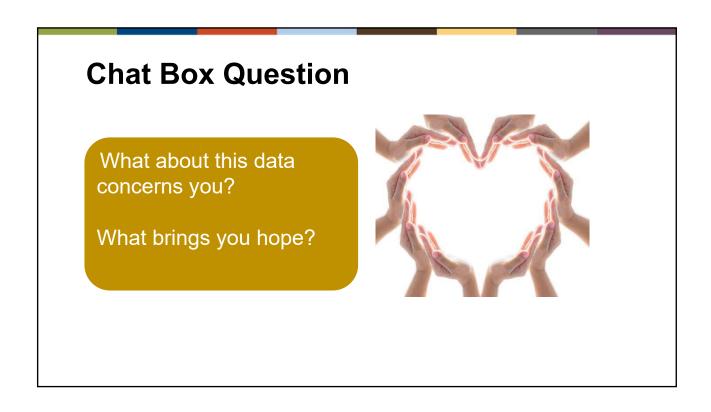
Chat

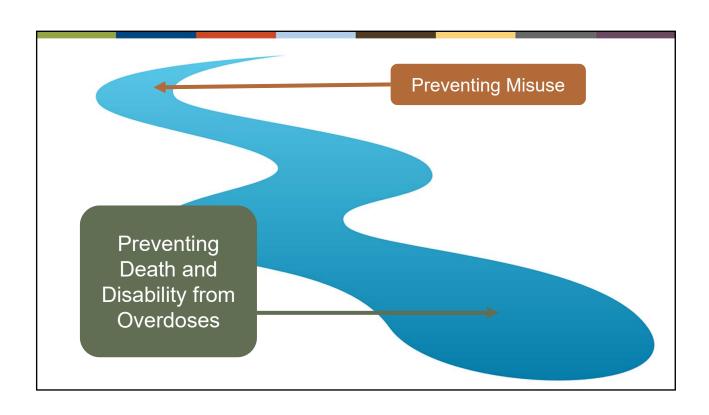
If Rx Opioid misuse and heroin use in some populations are **decreasing**, why are drug overdose rates that involve opioids **increasing**?

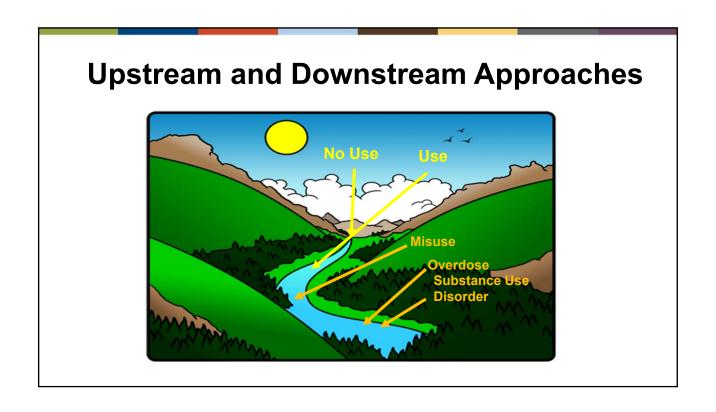


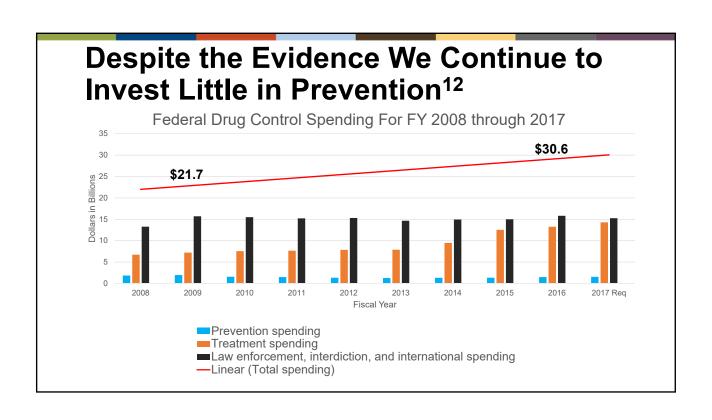










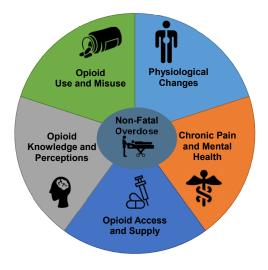


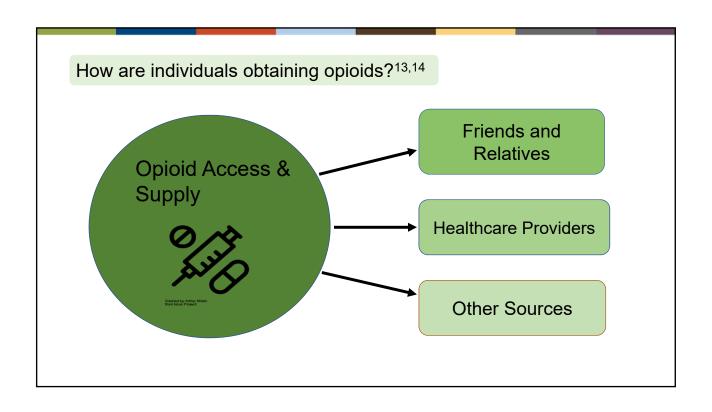
Chat

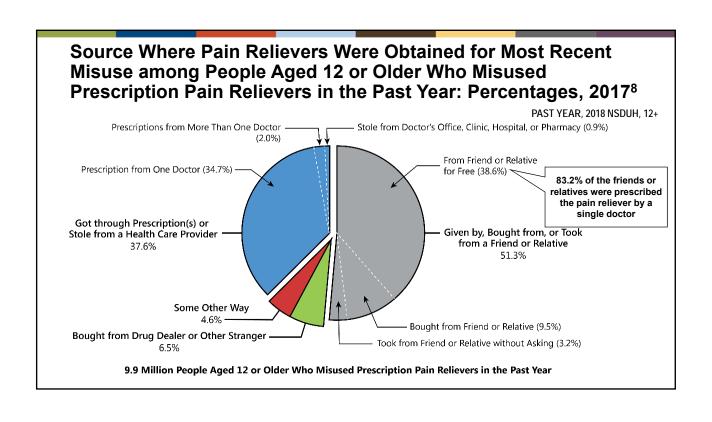
 How can we better advocate for the use of prevention dollars upstream?



Factors Associated with Opioid Overdose







Nonmedical Prescription Opioid Users Are Multiple Drug Users¹⁵

20 year old suburban sample		None	<10x/yr	>10x/yr
А	Icohol	82.6	98.9	100.0
То	bacco	42.2	88.6	91.7
Mar	ijuana	45.1	92.6	96.4
Co	ocaine	4.6	38.3	72.6
Psyche	delics	6.1	45.1	64.3
E	cstasy	6.5	41.1	64.3
Ampheta	mines	3.4	26.9	63.1
Sed	atives	8.0	20.6	45.2
!	Heroin	0.2	4.6	17.9
Any illic	it drug	45.7	94.9	96.4
Any illicit drug excluding mar	ijuana	11.7	68.6	85.7
Mean number of illicit drugs including mar	ijuana	0.67	2.69	4.23

Binge Drinking and Prescription Opioid Misuse¹⁶

- According to the CDC, more than half of the 4.2 million people who misuse prescription opioids in the U.S. also binge drink. (www.cdc.gov/alcohol)
- Drinking alcohol while using opioids increases the risk of overdose and death
- Widespread use of effective community-based strategies for preventing binge drinking—such as regulating the number of places that sell alcohol in any given neighborhood—could reduce opioid misuse and overdoses involving alcohol.

Chat

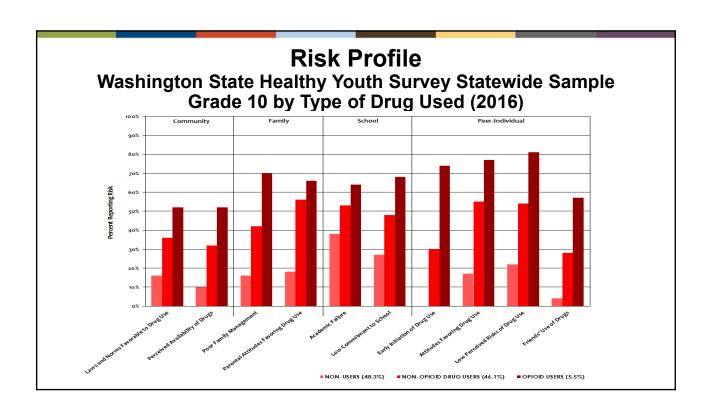
 Are you making the link with binge drinking, polysubstance use, and opioid overdose death prevention in your community? If so, how?



Adolescent Substance Use and Young Adult Substance Use: Example Risk Factors¹⁷

Table 3.1: Risk Factors for Adolescent and Young Adult Substance Use

Risk Factors	Definition	Adolescent Substance Use	Young Adult Substance Use			
Individual/Peer						
Early initiation of substance use46,47	Engaging in alcohol or drug use at a young age.		V			
Early and persistent problem behavior ^{48,49}	Emotional distress, aggressiveness, and "difficult" temperaments in adolescents.	~				
Rebelliousness ^{48,50}	High tolerance for deviance and rebellious activities.	V	V			
Favorable attitudes toward substance use ^{51,52}	Positive feelings towards alcohol or drug use, low perception of risk.	V	V			
Peer substance use ⁵³⁻⁵⁵	Friends and peers who engage in alcohol or drug use.	V	V			
Genetic predictors ⁵⁶	Genetic susceptibility to alcohol or drug- use.	V	V			
Family						
Family management problems (monitoring, rewards, etc.) ^{\$57,60}	Poor management practices, including parents' failure to set clear expectations for children's behavior, failure to supervise and monitor children, and excessively severe, harsh, or inconsistent punishment.	V	V			
Family conflict ^{61 63}	Conflict between parents or between parents and children, including abuse or neglect.	V	V			
Favorable parental attitudes ^{64,65}	Parental attitudes that are favorable to drug use and parental approval of drinking and drug use.	V	V			
Family history of substance misuse ^{66,67}	Persistent, progressive, and generalized substance use, misuse, and use disorders by family members.	V	V			



Risk Factors	Definition	Adolescent Substance Use	Young Adult Substance Use	
	School	Use	Use	
Academic failure beginning in late elementary school ^{68,69}	Poor grades in school.	V	V	
Lack of commitment to school ^{70,71}	When a young person no longer considers the role of the student as meaningful and rewarding, or lacks investment or commitment to school.	V	V	
	Community			
Low cost of alcohol ^{30,72}	Low alcohol sales tax, happy hour specials, and other price discounting.	~	~	
High availability of substances ^{73,74}	High number of alcohol outlets in a defined geographical area or per a sector of the population.	V	V	
Community laws and norms favorable to substance use ^{75,76}	Community reinforcement of norms suggesting alcohol and drug use is acceptable for youth, including low tax rates on alcohol or tobacco or community beer tasting events.	V	V	
Media portrayal of alcohol use ⁷⁷⁻⁷⁹	Exposure to actors using alcohol in movies or television.	V		
Low neighborhood attachment ^{80,81}	Low level of bonding to the neighborhood.	V		
Community disorganization ^{82,83}	Living in neighborhoods with high population density, lack of natural surveillance of public places, physical deterioration, and high rates of adult crime.	V		
Low socioeconomic status ^{84,85}	A parent's low socioeconomic status, as measured through a combination of education, income, and occupation.	V		
Transitions and mobility ^{80,86}	Communities with high rates of mobility within or between communities.	V		

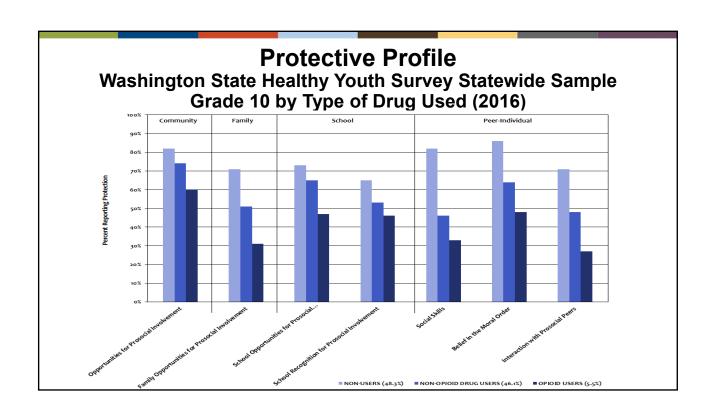
Protective Factors¹⁷

Table 3.2: Protective Factors for Adolescent and Young Adult Substance Use

Protective Factors	Definition	Adolescent Substance Use	Young Adult Substance Use	
Individual				
Social, emotional, behavioral, cognitive, and moral competence ^{87,88}	Interpersonal skills that help youth integrate feelings, thinking, and actions to achieve specific social and interpersonal goals.	V	V	
Self-efficacy ^{89,90}	An individual's belief that they can modify, control, or abstain from substance use.	~	V	
Spirituality ^{91,92}	Belief in a higher being, or involvement in spiritual practices or religious activities.	~	V	
Resiliency®	change and stressful events in healthy and flexible ways.	~	~	
Family, School, and Community				
Opportunities for positive social involvement ^{93,94}	Developmentally appropriate opportunities to be meaningfully involved with the family, school, or community.	V	V	
Recognition for positive behavior ⁵¹	Parents, teachers, peers and community members providing recognition for effort and accomplishments to motivate individuals to engage in positive behaviors in the future.	V	V	
Bonding ^{95,97}	Attachment and commitment to, and positive communication with, family, schools, and communities.	V	V	
Marriage or committed relationship ⁹⁸	Married or living with a partner in a committed relationship who does not misuse alcohol or drugs.		V	
Healthy beliefs and standards for behavior ^{51,99}	Family, school, and community norms that communicate clear and consistent expectations about not misusing alcohol and drugs.	V	V	

Note: These tables present some of the key risk and protective factors related to adolescent and young adult substance initiation and misuse.

(See Surgeon General's Report: Facing Addiction, 2016)



Additionally, policies and programs have been developed that are effective in preventing alcohol and drug misuse, and reducing its negative effects. Addressing risk and protective factors for individuals and communities can help prevent opioid misuse.

--Surgeon General¹⁷

Spectrum of Mental, Emotional, and Behavioral Health Interventions¹⁸

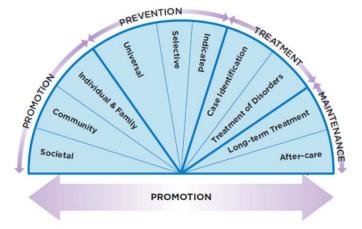


FIGURE 1-3 2019 update of the spectrum of MEB interventions.

The Prevention Paradox

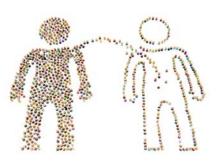
Is it better to provide intervention for a selective group most at risk for a problem or a universal intervention for an entire population?

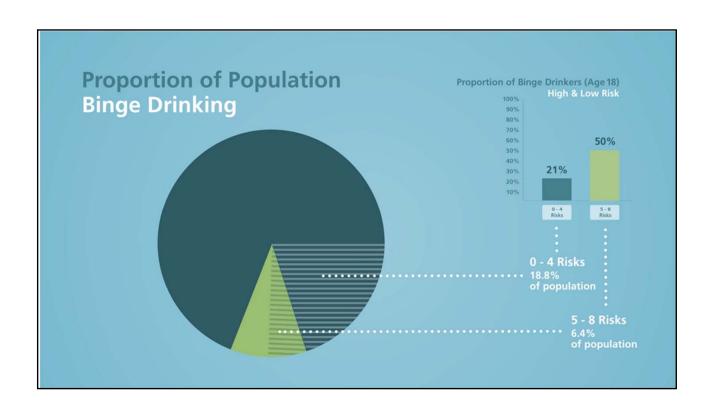


Prevention Paradox: Rose's Theorem¹⁹

A large number of people exposed to a small risk may generate many more cases than a small number of people exposed to high risk.

--(Rose, 1992, pg 24)





Chat

How can we better communicate the value of prevention and the prevention paradox to our stakeholders?



And there is hope...



Effective Prevention Programs Surgeon General's Report (SGR)¹⁷

- Its never too early or too late
- Effective prevention programs have reduced substance misuse:
 - Community-based
 - · Family-based
 - · School-based
 - · Brief motivational interventions in colleges and emergency rooms
 - Workplace
 - Primary care

U.S. Department of Health and Human Services (HHS), Office of the Surgeon General, Facing Addiction in America: The Surgeon General's Report on Alcohol, Drugs, and Health. Washington, DC: HHS, November 2016.

OVER 90 EFFECTIVE POLICIES AND PROGRAMS PROVEN TO PREVENT BEHAVIORAL HEALTH PROBLEMS ARE NOW AVAILABLE

Effective programs: <u>www.blueprintsprograms.com</u>; O'Connell, Boat & Warner, 2009.

Effective policies: Anderson et al. 2009; Catalano et al. 2012; Hingson & White 2013; Vuolo et al., 2016, Surgeon General, 2016.

Effective prevention saves money: www.wsipp.wa.gov
Washington State Institute for Public Policy Benefit-Cost Results, May 2017

Effective Prevention Programs (SGR)¹⁷

Ages 0-10:

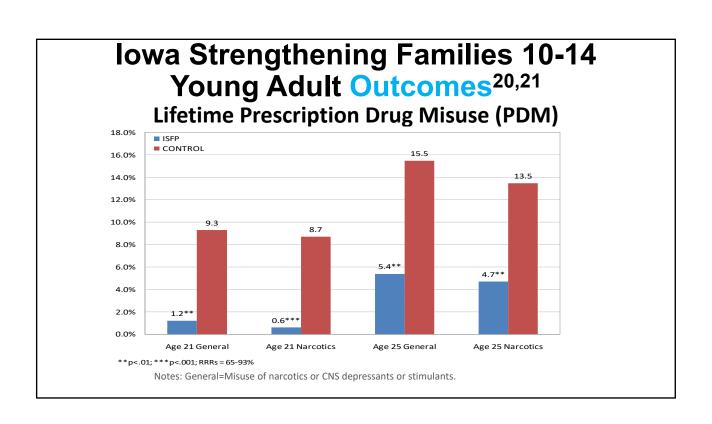
- Nurse Family Partnership
- Raising Healthy Children
- Good Behavior Game
- Classroom Centered Intervention
- Linking the Interests of Teachers and Families
- Fast Track
- Preventive Treatment Program

Effective Prevention Programs (SGR)¹⁷

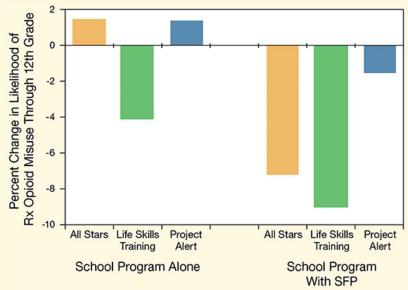
Ages 10-18:

- Life Skills Training
- School Health and Alcohol Harm Reduction Program
- Preventure/Adventure
- Unplugged
- · keepin' it REAL
- Atlas
- Strengthening Families 10-14
- Guiding Good Choices
- Strong African American Families

- SODAS City
- · I Hear What You are Saying
- Familias Unidas
- Bicultural Competence Skills Training
- · Project Chill
- Positive Family Support
- · Keep Safe
- Coping Power
- · Project Towards No Drug Use







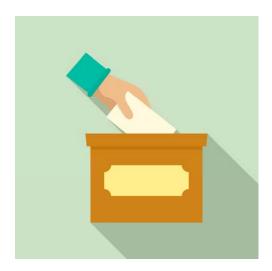
Effective Prevention Programs (SGR)¹⁷

Ages 18+:

- BASICS
- Parent Handbook
- Yale Work and Family Stress Project
- Brief Motivational Intervention in Emergency Departments
- Team Awareness
- Computerized Alcohol-Related Problems Survey
- Project Share

Poll Question

 Who is implementing, or has implemented, any of these examples of Evidence Based Interventions listed in the Surgeon General Report?



Policy Interventions: Alcohol Misuse²³

- Increase Alcohol Taxes
- Regulate Alcohol Outlet Density
- Dram shop (Commercial Host) Liability
- Avoid Further Privatization of Alcohol Sales
- · Maintain limits on Days of Sale
- Maintain Limits on Hours of Sale
- Enhanced Enforcement of Laws Prohibiting Sales to Minors
- Electronic Screening and Brief Intervention (e-SBI)

State, Community and Systems-Level Prevention Strategies to Address the Opioid Crisis²⁴

- State prescribing legislation and regulation
- 2. Prescription drug monitoring programs (PDMPs)
- 3. Insurance and pharmacy benefit management
- 4. Clinical guideline implementation
- 5. Provider education

- 6. Clinical health system interventions
- 7. Naloxone education and distribution
- 8. Safe storage and disposal
- 9. Public education
- 10. Community coalitions
- 11. Interventions employing public safety and public health collaborations

Putting Prevention Science To Use!

- · We know what predicts many problems, including substance use
- We know what works for upstream prevention: programs, policies, and practices (3Ps)
- We know that communities are an effective organizing force

Implications

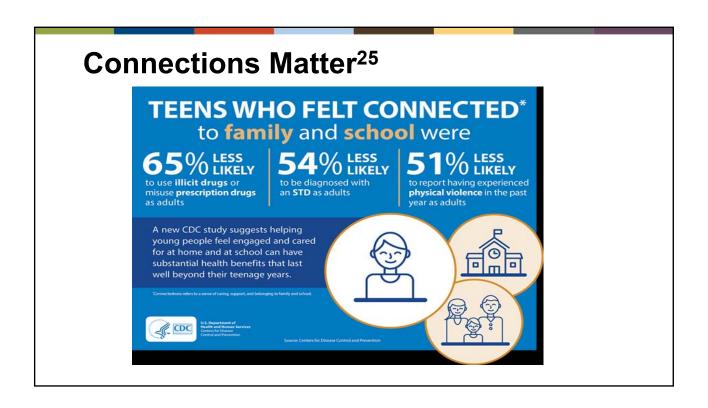
Effective prevention of opioid misuse is within our reach!

- Preventing substance use uptake of all types is likely to reduce opioid misuse
- Increase investment in prevention programs and policies proven to work to reduce opioid use
- Combine interventions shown to prevent multiple behavioral health problems including opioid misuse

Going to Scale with Evidence-based Prevention

- Communities must select programs appropriate to their risk, protection, and substance use profile
- Program Delivery/Policy Implementation
 - Fidelity
 - Program fit/adaptation
 - Program reach
 - Little research on policy implementation processes
- Research scaling of programs/policies to learn how to increase fidelity, fit, adaptation and reach





Positive relationships can buffer childhood trauma and toxic stress²⁶

Overall Study Results:

- Positive Childhood Experiences (PCEs) show a dose-response association with adult mental and relational health, analogous to the cumulative effects of multiple ACEs
- Findings suggest that PCEs may have lifelong consequences for mental and relational health despite co-occurring adversities such as ACEs

What resources or training do you think prevention practitioners need from the PTTC in order to make this happen?

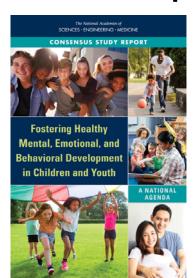


Being a 'Hope Dealer'

- How can you be that 'hope dealer' where you are?
- What can we do to bring prevention more upstream?



Learn More: Upcoming Webinar



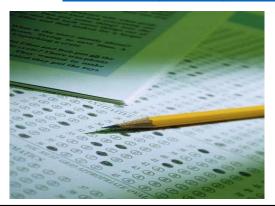
• Date: November 26, 2019

• Time: 3:00 PM Pacific

Please Provide Your Feedback!

Region 9 PTTC: https://ttc-gpra.org/P?s=341195

Region 10 PTTC: https://ttc-gpra.org/P?s=747453



References

¹Rudd, R. A., Seth, P., David, F., & Scholl, L. (2016, December 30). Increases in Drug and Opioid-Involved Overdose Deaths — United States, 2010–2015. MMWR. Morbidity and Mortality Weekly Report. 65, 1445-1452.

²Seth, P., Scholl, L. Rudd, R. A., & Bacon, S. (2018). Overdose Deaths Involving Opioids, Cocaine, and Psychostimulants — United States, 2015–2016 MMWR Morb Mortal Wkly Rep. 67(12): 349–358. doi: 10.15585/mmwr.mm6712a1

³Scholl L, Seth P, Kariisa M, Wilson N, Baldwin G. Drug and Opioid-Involved Overdose Deaths — United States, 2013–2017. MMWR Morb Mortal Wkly Rep 2019;67:1419–1427. DOI: https://dx.doi.org/10.15585/mmwr.mm675152e1

⁴National Institute on Drug Abuse (NIDA). (2019, January). Opioid Overdose Crisis. Retrieved from https://www.drugabuse.gov/drugs-abuse/opioids/opioid-overdose-crisis

⁵Florence, C. S., Zhou, C., Luo, F., & Xu, L. (2016). The Economic Burden of Prescription Opioid Overdose, Abuse, and Dependence in the United States, 2013. *Medical Care*, *54*(10), 901-906.

⁶Centers for Disease Control and Prevention, National Center for Health Statistics (2017). Multiple cause of death 1999-2016 on CDC WONDER Online Database. Accessed at http://wonder.cdc.gov/mcd-icd10.html

⁷Centers for Disease Control and Prevention, National Center for Injury Prevention and Control (2018). Opioid Basics: Understanding the Epidemic. https://www.cdc.gov/drugoverdose/epidemic/index.html#three-waves

⁸Substance Abuse and Mental Health Services Administration. (2018). Key substance use and mental health indicators in the United States: Results from the 2017 National Survey on Drug Use and Health (HHS Publication No. SMA 18-5068, NSDUH Series H-53). Rockville, MD: Center for Behavioral Health Statistics and Quality, Substance Abuse and Mental Health Services Administration. Retrieved from https://www.samhsa.gov/data/

⁹Cicero, T. J., Kasper, Z. A., & Ellis, m. S. (2017). Increased use of heroin as an initiating opioid of abuse: Further considerations and policy implications. Addictive Behaviors, 87, 267-271. doi:10.1016/j.addbeh.2018.05.030

References

- 10Scholl L., Seth P., Kariisa M., Wilson N., & Baldwin G. (2019). Drug and Opioid-Involved Overdose Deaths United States, 2013–2017. Morbidity and Mortality Weekly Report, 67, 1419–1427. doi: http://dx.doi.org/10.15585/mmwr.mm675152e1
- ¹¹CDC MMWR Report 2017
- ¹²ONDCP federal drug control spending for FY 2008 through 2017
- ¹³Yang, Z., Wilsey, B., Bohm, M., Weyrich Roy, K., Ritley, D., Jones, C., & Melnikow, J., (2015). Defining risk of prescription opioid overdose: pharmacy shopping and overlapping prescriptions among long-term opioid users in Medicaid. *Journal of Pain*, 16(5), 445-453. doi: 10.1016/j.jpain.2015.01.475
- ¹⁴Neira-León, M., Barrio, G., Bravo, M. J., Brugal, et al., (2011). Infrequent opioid overdose risk reduction behaviours among young adult heroin users in cities with wide coverage of HIV prevention programmes. *International Journal of Drug Policy*, 22(1), 16-25. https://doi.org/10.1016/j.drugpo.2010.06.003
- ¹⁵Catalano, R. F., White, H. R., Fleming, C. B., & Haggerty, K. P. (2011). Is nonmedical prescription opiate use a unique form of illicit drug use? Addictive Behaviors, 36(1-2), 79-86. doi:10.1016/j.addbeh.2010.08.028
- ¹⁶Esser, M. B. Guy, G. P., Zhang, K., & Brewer, R. D., (2019). Binge drinking and prescription opioid misuse in the U.S., 2012–2014. *American Journal of Preventive Medicine*, 57(2), 197 208. doi: 10.1016/j.amepre.2019.02.025
- ¹⁷U.S. Department of Health and Human Services, Office of the Surgeon General, (2016). Facing Addiction in America: The Surgeon General's Report on Alcohol, Drugs, and Health. Washington, DC: HHS.
- ¹⁸National Academies of Sciences, Engineering, and Medicine (2019). Fostering Healthy Mental, Emotional, and Behavioral Development in Children and Youth: A National Agenda. Washington, DC: The National Academies Press. https://doi.org/10.17226/25201.
- ¹⁹Rose, G. (1992). Rose's Strategy of Preventive Medicine. New York: Oxford University Press.

References

- ²⁰Spoth, R., Trudeau, L., Shin, C., Ralston, E., Redmond, C., Greenberg, M., & Feinberg, M. (2013). Longitudinal effects of universal preventive intervention on prescription drug misuse: three randomized controlled trials with late adolescents and young adults. *American Journal of Public Health*, 103(4): 665-672. doi: 10.2105/AJPH.2012.301209
- ²¹Spoth, R. L., Randall, G. K., Trudeau, L., Shin, C., & Redmond, C., (2008). Substance use outcomes 5½ years past baseline for partnership-based, family-school preventive interventions. *Drug and Alcohol Dependence*, 96(1-2): 57-68. doi: 10.1016/j.drugalcdep.2008.01.023
- ²²NIDA Notes December 2015
- ²³Community Preventive Services Task Force. (2016). Preventing excessive alcohol consumption. The guide to community preventive services: The community guide. Retrieved from http://www. thecommunityguide.org/alcohol/index.html. Accessed on April 11, 2016 as cited in Surgeon General Report 2016: https://addiction.surgeongeneral.gov/
- ²⁴Haegerich, T., Jones, C., Cote, P., Robinson, A. Ross, L. (2019), Evidence for state community and systems-level prevention strategies to address the opioid crisis. *Drug and Alcohol Dependence*, 204, 107563. doi:10.1016/jdrugalcdep.2019.06.009
- ²⁵Steiner, R. J., Sheremenko, G., Lesesne C, et al. (2019). Adolescent connectedness and adult health outcomes. Pediatrics, 144(1):e20183766
- ²⁶Bethell, C., Jones, J., Gombojav, Linkenbach, J., Sege, R. (2019). Positive childhood experiences and adult mental and relational health in a statewide sample associations across adverse childhood experiences levels. JAMA Pediatrics doi: 10.1001/jamapediatrics.2019.3007