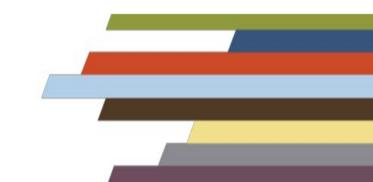




Prevention Foundations

Protective Factors

Kevin Haggerty, PhD., Director, NWPTTC John S. Briney, MS, Data Manager, SDRG





The Northwest PTTC is a partnership led by the Social Development Research Group (SDRG) at University of Washington (UW) School of Social Work in collaboration with the Prevention Science Graduate Program at Washington State University (WSU), and the Center for the Application of Substance Abuse Technologies (CASAT) at the University of Nevada, Reno (UNR).

Northwest partnering institutes share a vision to expand the impact of communityactivated prevention by equipping the prevention workforce with the power of prevention science.









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.

Developed under SAMHSA Cooperative Agreement # H79SP080995

Upcoming Services

Webinars

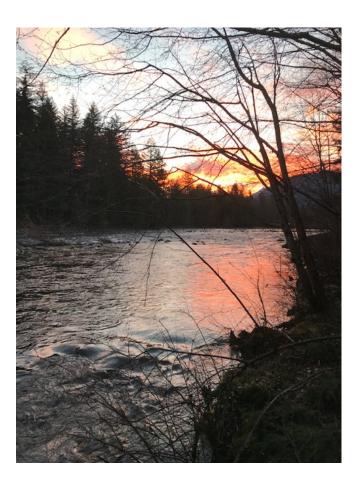
- Measurement
 - May 20 (12:00 pm 01:30 pm PT)
- Preventing Inhalant Use Among Youth
 - June 10, (11:00 am -12:30 pm PT)

On the Spot Consultation

- Benefits and Costs of Prevention
 - May 27, 2021 (11:00 am-12:30 pm PT)

Enhanced Prevention Learning Series

- The Ripple Effect
 - July 6, 13, 20, 27 (2:00-3:30 pm PT)



I acknowledge that we are all on the traditional lands of different peoples. Where I sit, I am situated on the ancestral lands of the Snoqualmie (Costal Salish) People. We have a responsibility to acknowledge our Indigenous connections and the histories of Indigenous land dispossession.

To identify the stewards of your land, type your location into https://native-land.ca/

Feel free to acknowledge in the chat if you desire

Check out Real Rent Duwamish https://www.realrentduwamish.org/

Three Key Take Aways from Today

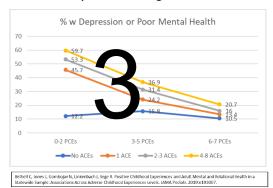


Lead with PROTECTION!



Organize Protection into a strategy that has evidence

>>>> Positive Childhood Experiences Mitigate ACEs Effects



Objectives

Participants will be able to:

- 1. Explain the 'what': what are 'shared protective factors'?
- 2. Describe the 'how': how do we know these are protective factors?
- 3. Discuss the evidence of protective factors in the community, school, family and individual.
- 4. Explore the 'so what': what does understanding about protective factors mean for your community's work in prevention?

Some Questions from Last Session

How do risk and Protective factors fit into a prevention science framework?

Are risks accumulated, or can they happen all at one?

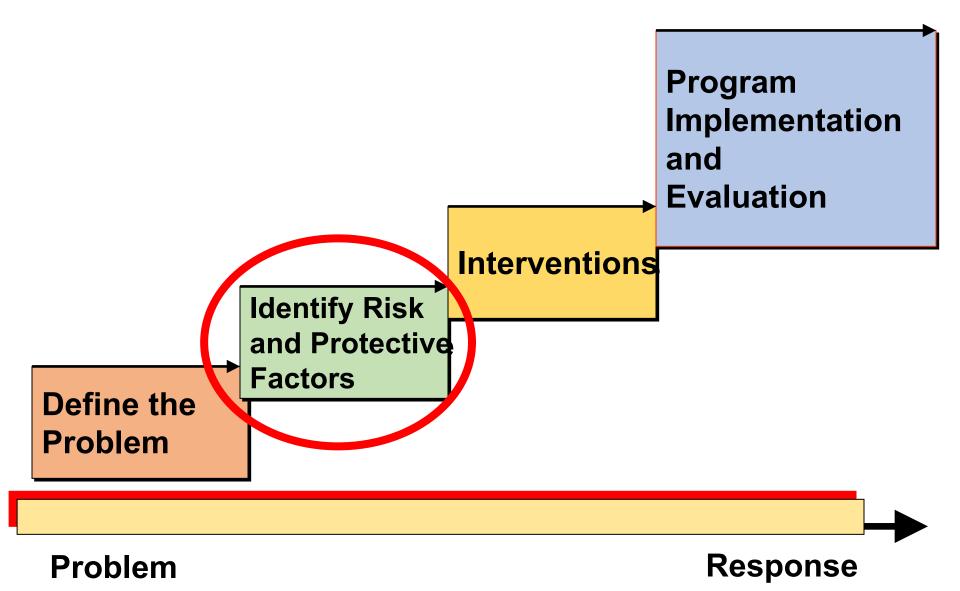
What are the most common prioritized risk factors in communities?

Talk more about specific risks for opioid use

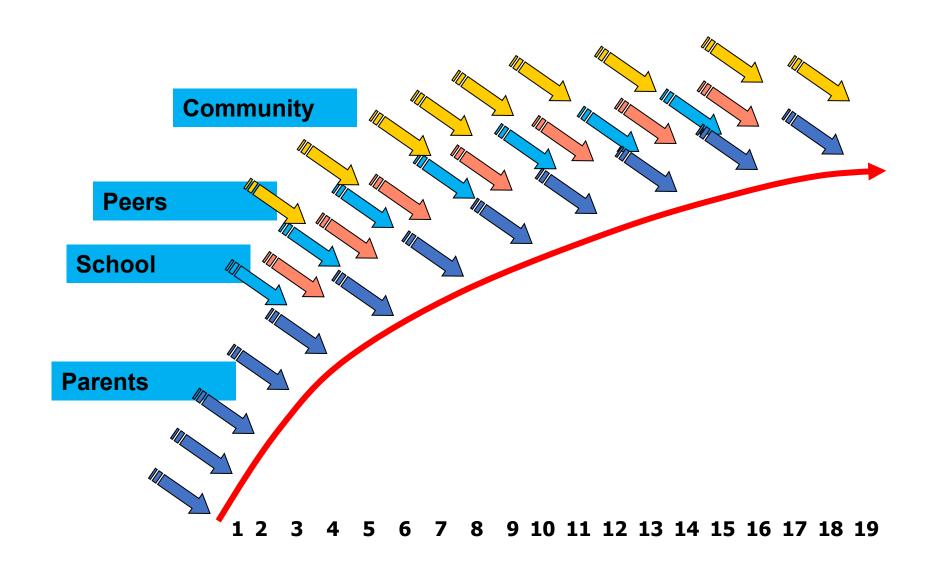
How can you have clear norms and a harm reduction focus at the same time?



Prevention Science Framework



Factors Shaping Child and Adolescent Development



Postportier and Models of Problem Entrolly Developmental Behavior without Protection Challenges without Protection



Common Prioritized Risk Factors Communities

- Parental attitudes favorable to problem behavior
- Low commitment to school
- Favorable attitudes toward problem behavior
- Family management problems
- Friends who engage in problem behavior
- Academic failure
- Rebelliousness
- Laws and norms favorable toward drug and alcohol use
- Family conflict

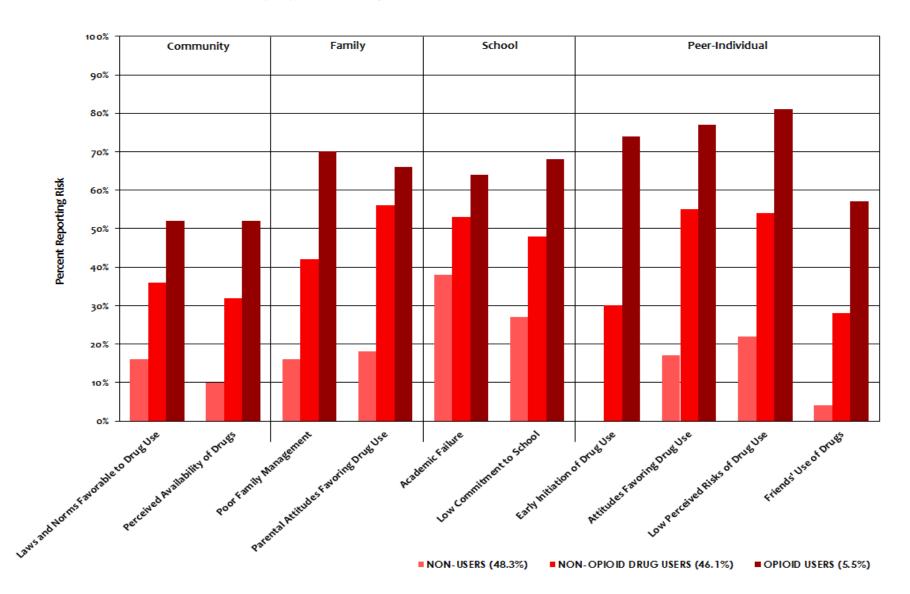
Nonmedical Prescription Opioid Users Are Multiple Drug Users

*20 year old suburban sample	None	<10/yr	>10/yr
Alcohol	82.6	98.9	100.0
Tobacco	42.2	88.6	91.7
Marijuana	45.1	92.6	96.4
Cocaine	4.6	38.3	72.6
Psychedelics	6.1	45.1	64.3
Ecstasy	6.5	41.1	64.3
Amphetamines	3.4	26.9	63.1
Sedatives	8.0	20.6	45.2
Heroin	0.2	4.6	17.9
Any Illicit drug	45.7	94.9	96.4
Any illicit drug exc. mj	11.7	68.6	85.7
Mean number of illicit drugs inc. mj	0.67	2.69	4.23

Catalano, White et al., 2011 NIDA Funding

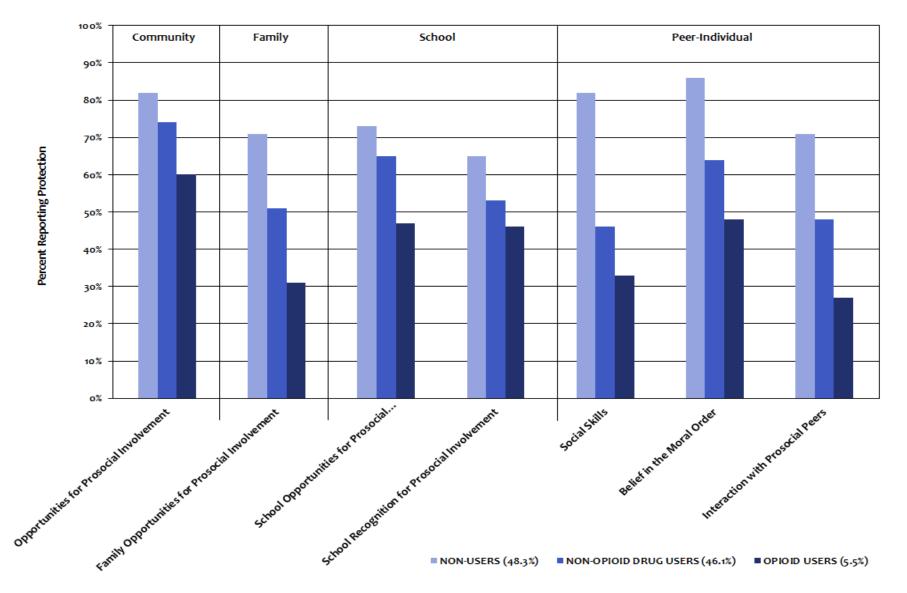
Opioid Users At Risk

Washington State Healthy Youth Survey Statewide Sample Grade 10 Risk by Type of Drug Used

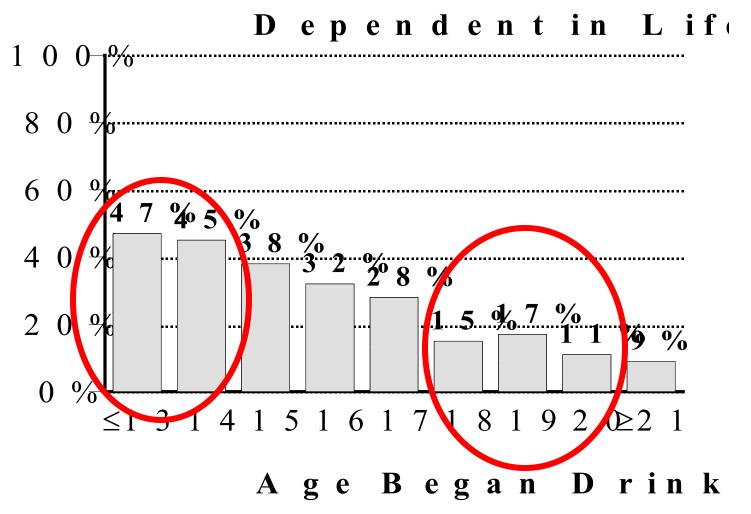


Opioid Users Not Protected

Washington State Healthy Youth Survey Statewide Sample Grade 10 Protection by Type of Drug Used



Alcohol dependence, by age of drinking onset, among adults (aged 18+)



Hingson, R.W., Heeren, T., and Winter, M.R. "Age at Drinking Onset and Alcohol Dependence," *Archives of Pediatrics and Adolescent Medicine* 160(7):739-746, 2006.

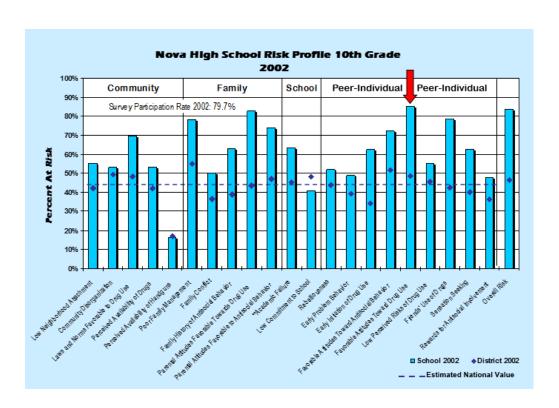
Why Is This Foundational to Prevention?

- Address problems before they start
- Helps find the most appropriate prevention responses to the unique situation for the children and youth in your community
- More bang for your buck: Working at level of risk and protection can impact multiple outcomes

"A shared risk and protective factor approach refers to prioritizing risk and protective factors linked to multiple [youth outcomes] in prevention planning, partnership, and programmatic efforts (vs focusing on different outcomes separately)*."

^{*}J Public Health Manag Pract. 2018 Jan-Feb; 24(Suppl 1 INJURY AND VIOLENCE PREVENTION): S32–S41.

Example: Priority RP Factors Lead to Appropriate Program Selection





The Science Behind These Protective Factors

- Broad range of longitudinal studies helped to discover/identify these factors
- Broad range of demographic groups are represented in these studies
 - See the 2016 Surgeon General's Report for references
 - See also the 2020 paper by Catalano, Hawkins, Kosterman et. al, on Social Development Model

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

	Adolescent and Toding Addit Substa		
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 ^{80,00}	An individual's belief that they can modify, control, or abstain from substance use.	V	V
Spirituality ^{01,92}	Belief in a higher being, or involvement in spiritual practices or religious activities.	V	V
Resiliency ⁸⁸	An individual's capacity for adapting to change and stressful events in healthy and flexible ways.	V	V
	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.

2016 Surgeon General's Report

Different Approaches to Identifying Risk/Protective Factors

Point-in-time (cross sectional studies)

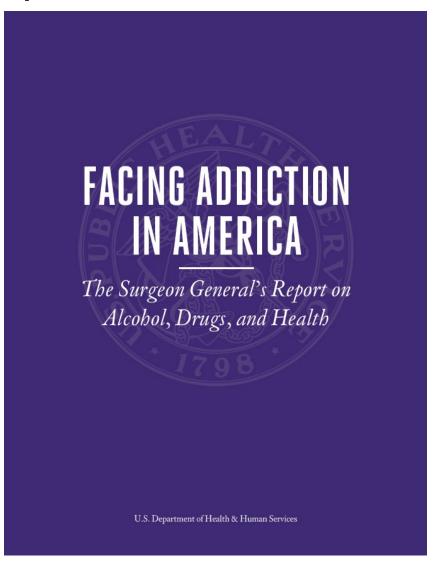
Retrospective (asking adults to recall their experiences as children)

Developmental (longitudinal studies)

Surgeon General's Report, 2016

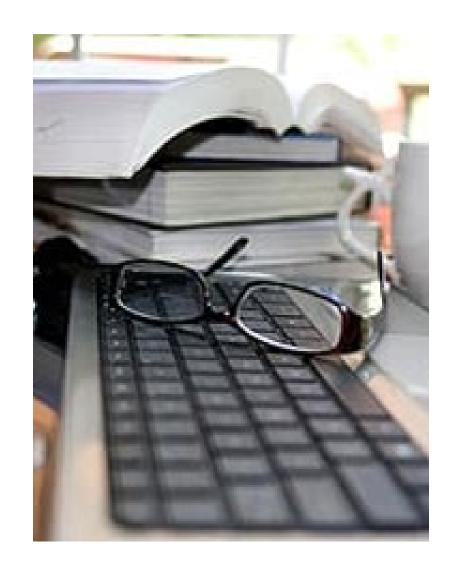


Vivek H. Murthy, M.D., M.B.A. Vice Admiral, U.S. Public Health Service Surgeon General



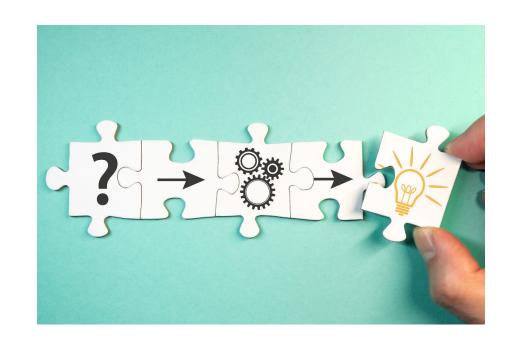
Types of Studies

- When? Range from late 1980's to 2015
- 47 studies cited in Surgeon General's Report (many are comprehensive reviews of yet many more studies)
- Study samples vary from national longitudinal samples like National Child Development Study to smaller longitudinal studies across the country (and internationally)



Key Findings

- Strong evidence for robust predictors (RPF)
- Show consistency across gender, race/ethnicity, income
- Strong evidence of effective prevention programs and policies that address these risk and protective factors
- Programs/policies effective at different stages of lifespan



Key Findings (continued)

- Communities have different levels of RPF
- Communities are important prevention force
- Evidence of policies that are effective in reducing substance misuse and harms
- Evidence that laws targeting impaired driving have dramatically reduced alcohol-related traffic deaths since the 1980s
- Still working on evidence related to opioid pain medications

A Note about Labels

- Labels on risk factor chart are academic and descriptive
- Please listen carefully for the MEANING of each risk factor
- Communities can develop different names for each factor if the academic labels don't resonate



Pseudotsuga menziesii----Douglas Fir----Pine tree

Protective Factors for Adolescents and Young Adult Substance Misuse

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

Protective Factors	Definition	Adolescent Substance Use	Young Adult Substance Use
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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
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Opportunities for positive social involvement 93,94	Developmentally appropriate opportunities to be meaningfully involved with the family, school, or community.	V	V
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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.

Thought Moment

- Take a moment to look at your own handout on protective factors and read the definitions.
- 2. How does this fit with your SPF assessment?
- 3. What questions do you have? Drop them in the chat.



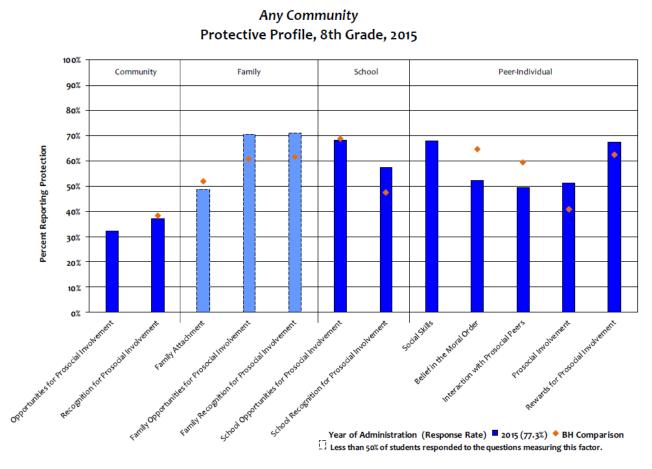
Additional Outcomes Influenced by These Protective Factors

Table 3.2: Protective Factors for

Protective Factors
Social, emotional, behavioral, cognitive, and moral competence ^{(7),81}
Self-efficacy ^{acyo}
Spirituality ^{81,82}
Resiliency ^M
Opportunities for positive social involvement 10,14
Recognition for positive behavior ⁵¹
Bonding ¹⁶⁻⁹⁷

Substance misuse	Delinquency	Risky Sex	School Dropout	Violence	Depression/ Anxiety
14	ıé	16	16	16	16
		16			
16	ıé	ı÷			
16	16	16	16	16	16
ıé	16				
14	16			16	16
16	ı÷	16	14	16	16

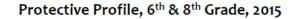
Levels of Risk/Protection Will Vary

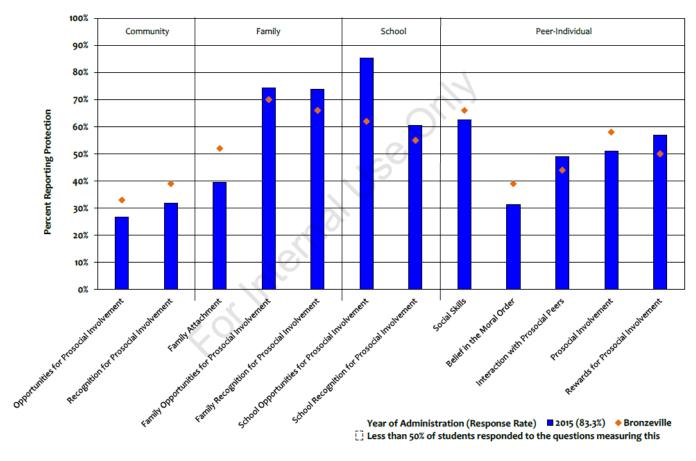






Levels of Risk/Protection Will Vary

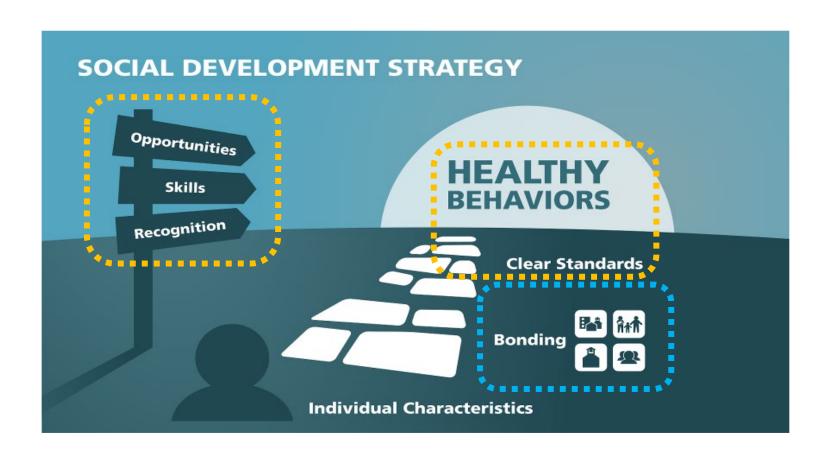






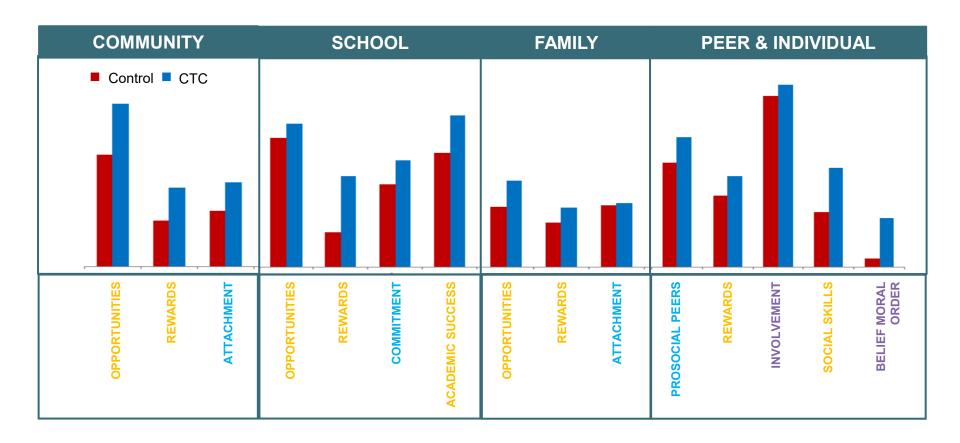


Protection & Social Development Strategy



CTC Enhanced Protection

Grade 8: p = 0.021

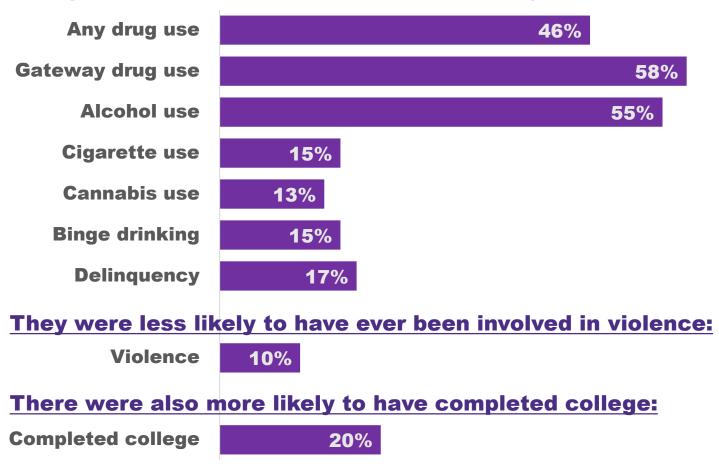




• https://www.washington.edu/boundless/communities-that-care/

CTC Increased <u>Lifetime</u> Abstinence from Substance Use and Delinquency Through Age 23

At age 23, CTC participants were more likely to have abstained from:

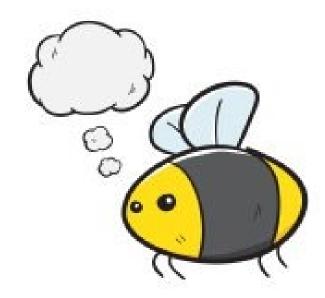


^{*} Values reported are relative risk reductions.

Kuklinski et al., in press, *Prevention Science*.

Thought Moment

- How can you increase protective factors in your COMMUNITY?
- Jot down a few ideas, if you are willing, jot some in the chat.



Three core components during grades 1-6

Seattle Social Development Project

Intervention: Raising Healthy Children



Teacher Training

Proactive Classroom Management Social Emotional Learning Motivation Creating Active Learning Environments Cooperative Learning

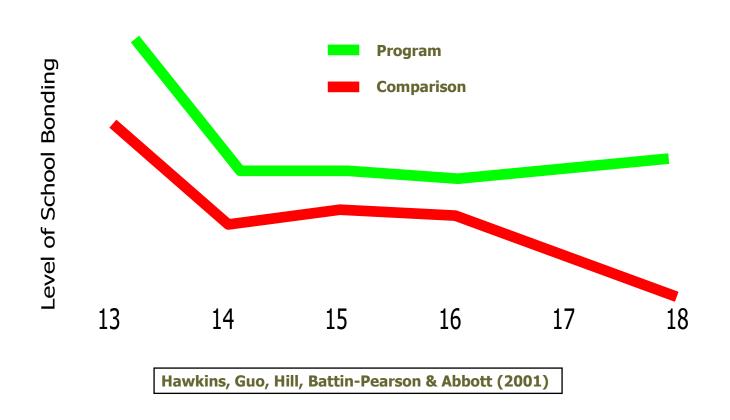
Parent Workshops

Raising Healthy Children K-2 Supporting School Success 3-6 Guiding Good Choices 4-6

Child Skills Training

I Can Problem Solve The Get Alongs Series

Evidence of Intervention Effects on School Bonding from Age 13 to 18



Effects of applying social development strategy

AT THE END OF THE 2ND GRADE, FULL INTERVENTION GROUP

- girls were less self-destructive
- boys were less aggressive (Hawkins et al., 1991)

BY AGE 18

- less heavy alcohol use
- less lifetime violence
- less lifetime sexual activity
- fewer lifetime sex partners
- higher school bonding
- higher school achievement
- less school misbehavior (Hawkins et al., 1999)

BY THE START OF 5TH GRADE

- less initiation of alcohol
- less initiation of delinquency
- better family management
- better family communication
- better family involvement
- higher attachment to family
- higher school rewards
- higher school bonding (Hawkins et al., 1992)



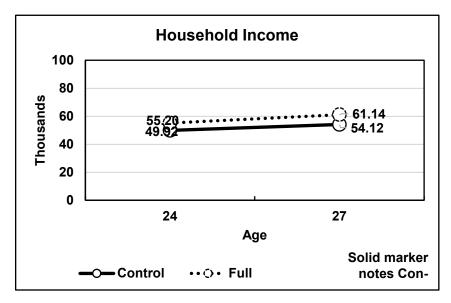
BY AGE 21

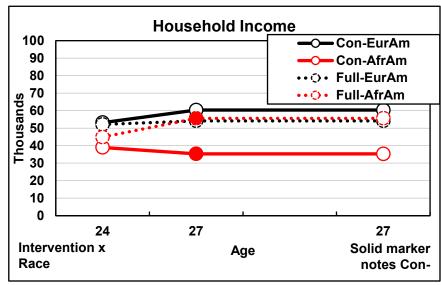
- better emotional and mental health
- better functioning at school or work
- more likely to be high school graduate
- more likely to be attending college
- less likely to have criminal record (Hawkins et al., 2005)

BY AGE 27

- more educational attainment
- more economic attainment
- more civic engagement
- better mental health (Hawkins et al., 2008)

SSDP Reduces Racial Disparity in Household Income





No overall effect on Household income

Age 27 AA F \$55,594 AA C \$35,288

Summary of Impacts Through Age 39

More than 18 years later...

- Significant effects of intervention on...
 - Health maintenance
 - Mental health
 - Overall adult health & success



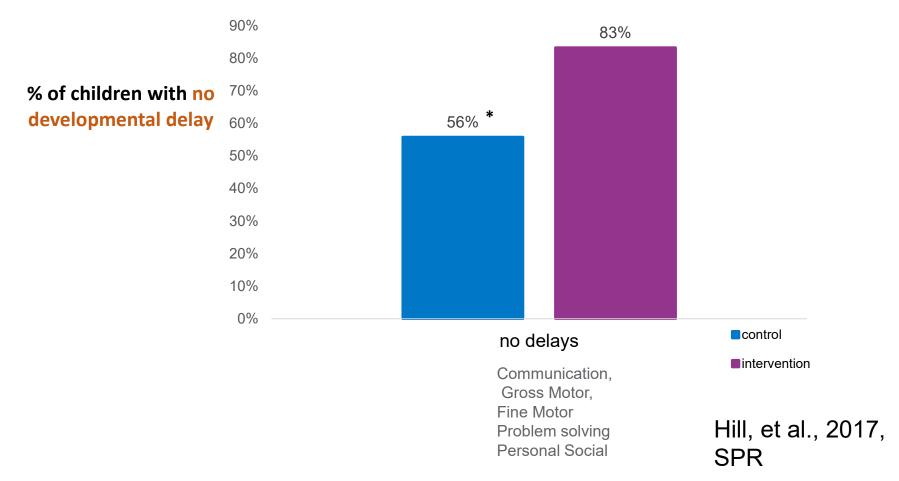


Kosterman, R., Hawkins, J. D., Hill, K. G., Bailey, J. A., Catalano, R. F., & Abbott, R. D. (2019). Effects of social development intervention in childhood on adult life at ages 30 to

39. Prevention Science, 20(7), 986-995.

Effects into the Next Generation:
Parents who were in the SSDP intervention in childhood grow up to have children with....

...fewer developmental delays in the first five years of life.



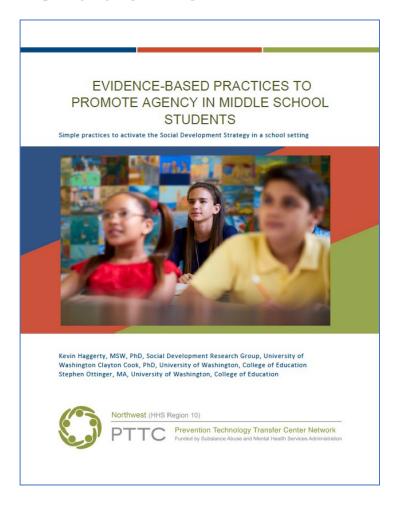
Effects into the next generation Parents who were in the SSDP intervention in childhood grow up to have children with....





- 1. Fewer developmental delays in the first five years of life.
- 2. Fewer teacher-rated child behavior problems ages 6-18 years.
- 3. Higher teacher-rated academic skills and performance ages 6-18 years.
- 4. Lower youth self-reported alcohol and drug onset ages 6-18 years.

Building Protection with Middle School Students



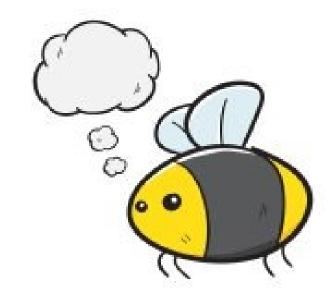
Evidence-based Practices To Promote Agency In Middle School Students

 Summarizes and aligns sixteen evidence-based practices to the components of the Social Development Strategy

https://pttcnetwork.org/sites/default/files/2020-09/EvidenceBasedPracticesforMiddleSchool%20 %282%29.pdf

Thought Moment

- How can you increase protective factors in your SCHOOL?
- Jot down a few ideas, if you are willing, jot some in the chat.



Family Meal Time



Study selection

1783 articles reviewed.

Synthesis

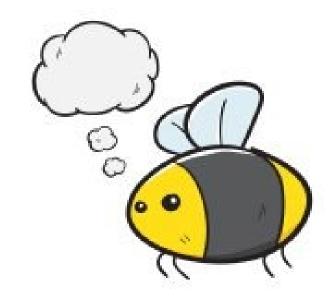
Results show frequent family meals are inversely associated with disordered eating, alcohol and substance use, violent behavior, and feelings of depression or thoughts of suicide in adolescents.

Harrison ME, Norris ML, Obeid N, Fu M, Weinstangel H, Sampson M. Systematic review of the effects of family meal frequency on psychosocial outcomes in youth. *Can Fam Physician*. 2015;61(2):e96-e106.

Thought Moment

 How can you increase protective factors in your FAMILY?

 Jot down a few ideas, if you are willing, jot some in the chat.



Positive Childhood Experiences mitigate Adverse Childhood Experiences

ACEs

- 1998 study of employed people in the Pacific Northwest
- Patients answered questions about their childhood
- Correlated with mental and physical health

PCEs

- ➤ 2015 population study in Wisconsin
- Part of the BRFSS
- Asked about ACEs
- Asked about Positive Childhood experiences
- Correlated with mental health

HEALTHY OUTCOMES

>>>>>>>>>from

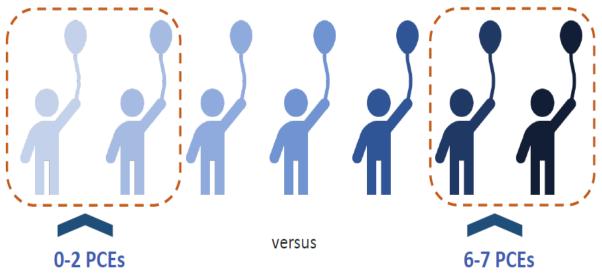
POSITIVE EXPERIENCES

Positive Childhood Experiences (PCEs) Protect Adult Mental Health



6-7 vs. 0-2 PCES: Adults reporting 6-7 PCEs **have 72% lower odds** of having depression or poor mental health compared to those reporting 0-2 PCEs.

48% v. 12.6%, OR 0.28; 95% CI 0.21-0.39. 3.8x higher rate for 0-2 vs. 6-7 PCEs.



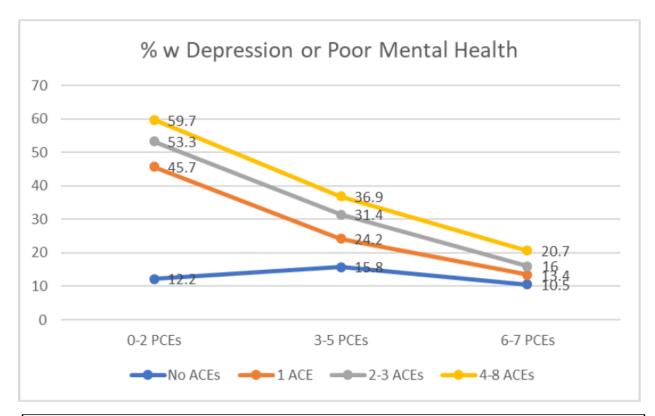
Bethell C, Jones J, Gombojav N, Linkenbach J, Sege R. Positive Childhood Experiences and Adult Mental and Relational Health in a Statewide Sample: Associations Across Adverse Childhood Experiences Levels. JAMA Pediatr. 2019:e193007.

HEALTHY OUTCOMES

>>>>>>>>>>>>>
from

POSITIVE EXPERIENCES

Positive Childhood Experiences Mitigate ACEs Effects



Bethell C, Jones J, Gombojav N, Linkenbach J, Sege R. Positive Childhood Experiences and Adult Mental and Relational Health in a Statewide Sample: Associations Across Adverse Childhood Experiences Levels. JAMA Pediatr. 2019:e193007.

What are 'Positive Childhood Experiences?'



Positive Childhood Experiences (PCEs) questions asked how often respondent:

- 1. Felt able to talk to their family about feelings
- Felt their family stood by them during difficult times
- Enjoyed participating in community traditions
- Felt a sense of belonging in high school
- Felt supported by friends
- Had at least two non-parent adults who took genuine interest in them
- 7. Felt safe and protected by an adult in their home
 - Internal consistency reliability: 0.77
 - Principal components factor analysis: single factor with an Eigenvalue > 1 (2.95).
 - Factor loadings ranged from 0.57 ("felt safe/home") to 0.72 ("family stood by/difficult times")

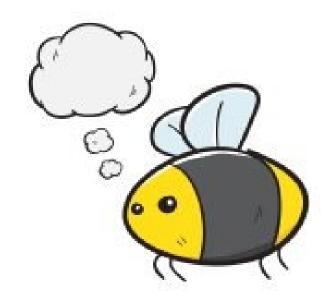




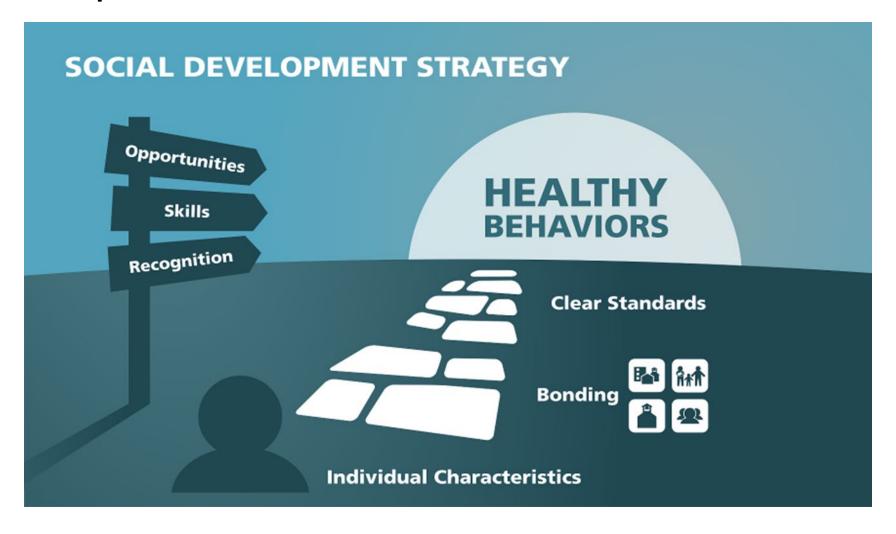


Thought Moment

- How can you increase protective factors in your INDIVIDUAL?
- Jot down a few ideas, if you are willing, jot some in the chat.



Where Do You See Positive Childhood Experiences in the SDS?



So What?

What does understanding shared protective factors mean for your community's work in prevention?

- 1. Think and jot down ideas
- Add to the chat box, if you are willing.



How well can you answer these questions?

Participants will be able to:

- 1. What are 'shared protective factors'?
- 2. How do we know these are protective factors?
- 3. What is the evidence of protective factors in the community, school, family and individual.
- 4. What does understanding about protective factors mean for your community's work in prevention?

Next?

 How can we measure all these shared risk and protective factors at the community level?



Wrap Up!

Make sure to fill out a feedback form!

