

Adverse Childhood Experiences

Presented by Joe Neigel & Erin Wood

Thank You for your participation and partnership!





Joe Neigel, BA, CPP

Joe Neigel is Monroe School District's Prevention Services Manager, where he supervises the Behavioral Health Team and the implementation of tiered, evidence-based strategies to address substance use, mental health and suicide. Joe also coordinates the Monroe Community Coalition and is recognized across Washington State as an expert speaker on the topics of substance abuse prevention, Adverse Childhood Experiences and evidence-based prevention kernels. His print and video community guide, "Prevention Tools: What Works, What Doesn't," is distributed statewide and nationally by the Washington State Health Care Authority. Most importantly, Joe is a daddy to five guirky, sweet and hilarious children aged 8-21.

Erín Wood, MA, LMHC

Erin Wood is a licensed mental health counselor and the Behavioral Health Specialist for Monroe School District. She specializes in the prevention and intervention of youth suicide, and supports students and staff in raising awareness and understanding of mental health across the lifespan. Erin organizes the district's Crisis Recovery Team and studentfocused prevention efforts including Sources of Strength and the Signs of Suicide Prevention Program. Erin loves working with students K-12, and is especially passionate about supporting the mental, emotional, and behavioral needs of every young person in our community.

Compassion



ACES 101: The Hidden Risk Factor

Understanding Adverse Childhood Experiences, Complex Trauma and What We Can Do About It!





CLIENT OF CONCERN – 10 Minute Breakout Session

Think about a client for whom you have concern. Discuss the following:

- 1. What worries do you have for this client?
- 2. What challenging behaviors does this client exhibit?



<u>Adverse</u> <u>Childhood</u> <u>Experiences</u> <u>Study</u> (ACES)

ACES began as study in the late 1980's and 1990's at a diet and nutrition center managed by Kaiser-Permanente in San Diego, California. It became the largest study ever to examine social determinants of health.

Over 17,000 people participated in the study, which ultimately a direct connection between traumatic childhood experiences and health.

Most critically, the Centers for Disease Control and Prevention (CDC) now recognize ACES as a *public health crisis.* ACES Participants were mostly:

- Middle class, average age of 57
- 80% White, 10% Black, 10% Asian
- 74% Some college
- 44% Graduated college
- 49.5% Men



But since the original ACE study, research indicates that ACEs are more prevalent for those belonging to non-dominant cultures and living in poverty...

THREE TYPES OF ACEs MEASURED

The original ACE study measured three types of ACEs through a 10 question assessment:

But, there's actually more than just these...





Physical



Emotional





NEGLECT

Physical



Emotional

HOUSEHOLD DYSFUNCTION



Mental Illness

Incarcerated Relative



Mother treated violently



Substance Abuse



Divorce



ACEs interact with stressors commonly faced by racial and sexual minorities—such as discrimination, stigma, and rejection—to contribute to behavior, health and opportunity disparities.

ACEs and Intersectionality

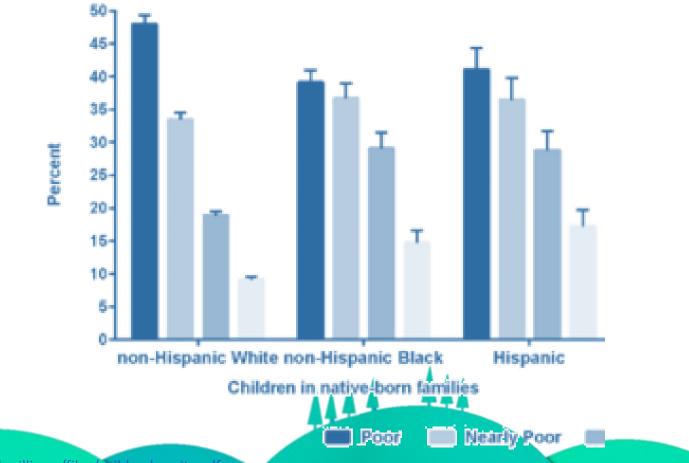
- Ethnic and sexual minority children are significantly underrepresented in the ACEs research.
- When cultural minorities are included in the data, Black, Hispanic and LGBT children are consistently shown to be exposed to more adversities than white children.
- Similarly, those living in economically stressed communities are more likely to experience ACEs.

This has led to a reexamination of the ACEs that predict long-term negative health and opportunity outcomes.

Racial disparities in Childhood Trauma: <u>https://scholar.harvard.edu/files/davidrwilliams/files/child_adversity.pdf</u>

RACE, ETHNICITY AND INCOME INFLUENCE EXPOSURE

ACE Exposure by Race/Ethnicity and Income Level N=84,837



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https://scholar.harvard.edu/files/davidrwilliams/files/child_adversity.pdf

Since the original ACE study, exposure to additional early life stressors are being studied.

Acute Trauma: is caused by a *single* traumatic event that triggers extreme emotional or physical stress.

Complex Trauma: is caused by exposure to *multiple* traumatic events. The long-term impact of this exposure is severe and pervasive.

Historical Trauma: is a complex and collective trauma experienced over time and across generations by a group of people who share an identity, affiliation, or circumstance.



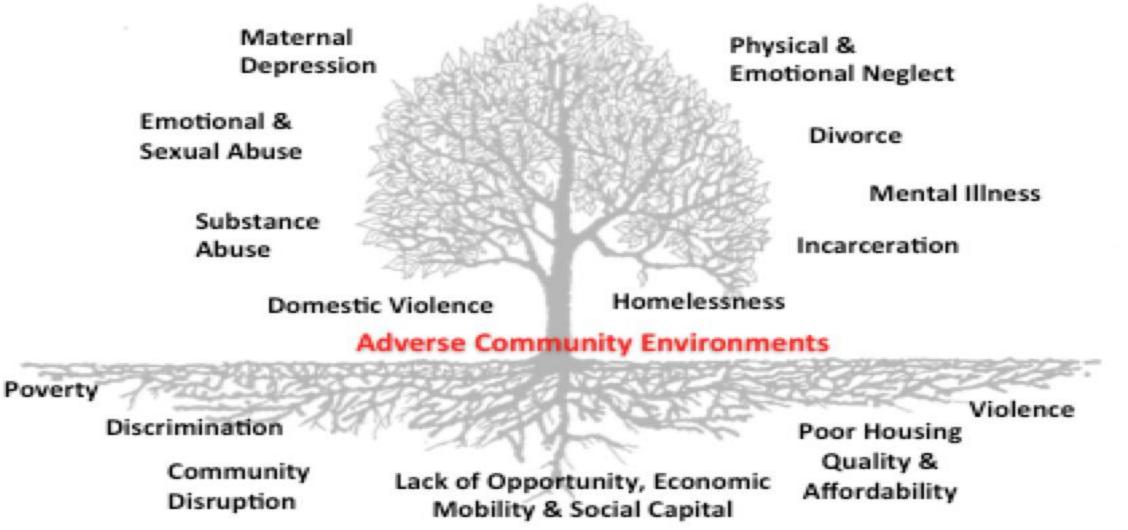
B Realms of ACEs

ACEs Connection accelerates the global movement to prevent and heal adverse childhood experiences (ACEs), and supports communities to work collaboratively to solve our most intractable problems. Left unaddressed, toxic stress from ACEs harms children and families, organizations, systems and communities, and reduces the ability of individuals and entities to respond to stressful events with resiliency. The ACEs in these three realms intertwine throughout people's lives, and affect the viability of organizations, systems and communities.

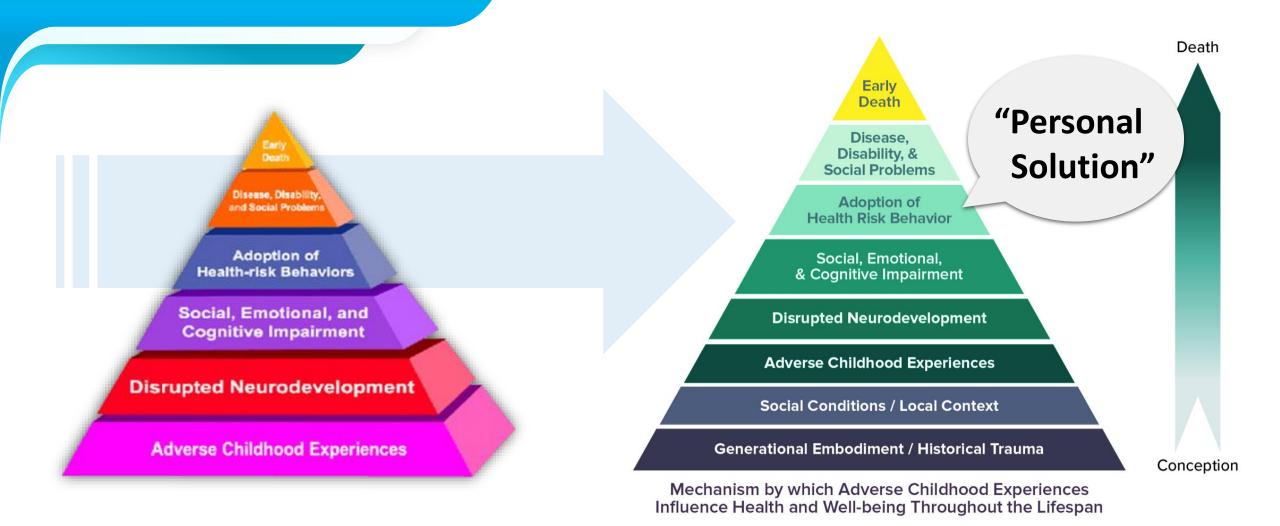


The Pair of ACEs

Adverse Childhood Experiences

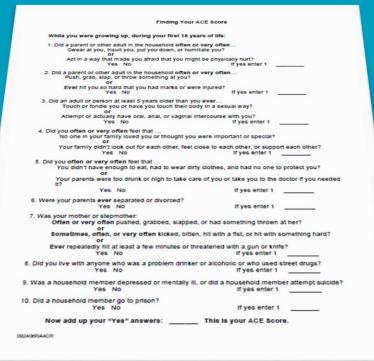


The Model has Expanded Since the Original Study



ACE SCORE CALCULATOR

1. Did a parent or other adult in the household often: Swear at you, insult you, put you down, or humiliate you? OR Act in a way that made you afraid that you might be physically hurt?



2. Did a parent or other adult in the household **often:** push, grab, slap, or throw something at you? **OR** Ever hit you so hard that you had marks or were injured?

3. Did an adult or person at least 5 years older than you **ever t**ouch or fondle you or have you touch their body in a sexual way? **OR** Try to or actually have oral, anal, or vaginal sex with you?

Yes No If yes enter 1

4. Did you **often** feel that no one in your family loved you or thought you were important or special? **OR** Your family didn't look out for each other, feel close to each other, or support each other?

5. Did you often feel that you didn't have enough to eat, had to wear dirty clothes, and had no one to protect you? OR Your parents were too drunk or high to take care of you or take you to the doctor if you needed it?

Yes No If yes enter 1

6. Were your parents ever separated or divorced?

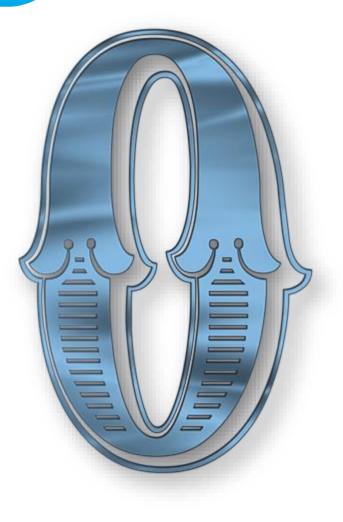
- 7. Was your mother or stepmother often pushed, grabbed, slapped, or had something thrown at her? OR Sometimes or often kicked, bitten, hit with a fist, or hit with something hard? OR Ever repeatedly hit over at least a few minutes or threatened with a gun or knife?
 - Yes No If yes enter 1
- 8. Did you live with anyone who was a problem drinker or alcoholic or who used street drugs?

9. Was a household member depressed or mentally ill or did a household member attempt suicide?

Yes No If yes enter 1

10. Was a household member ever incarcerated?

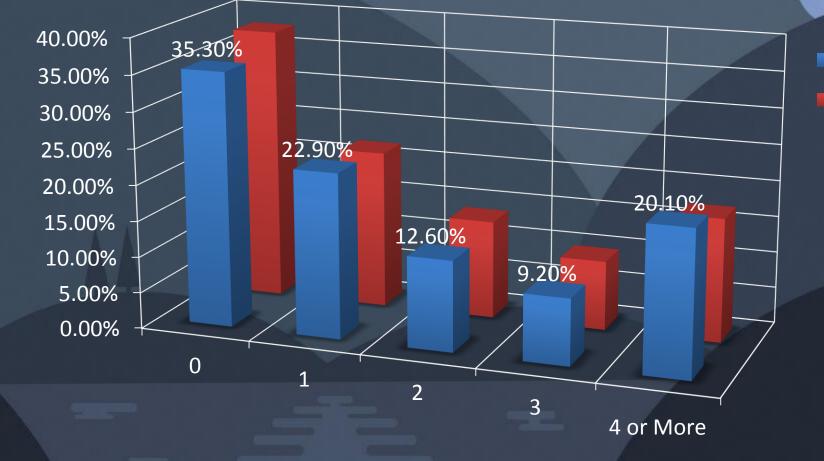
Did Anyone Score Zero



POLL: What is Your ACE SCORE?



ACES IN SNOHOMISH COUNTY



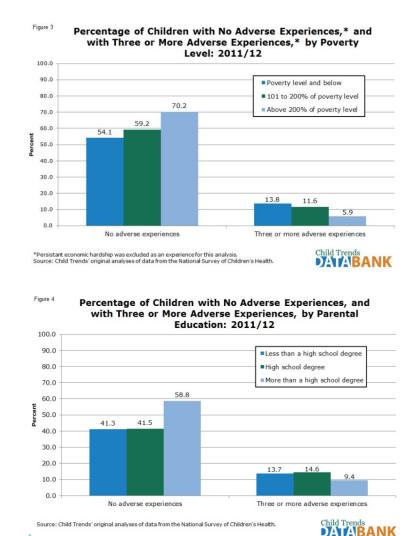
SnohomishWashington

Fire Minute Break

ACES & Poverty are Linked

If you serve youth, know that poor and near poor children are more likely to be exposed to ACES if their parents lack a high school education.

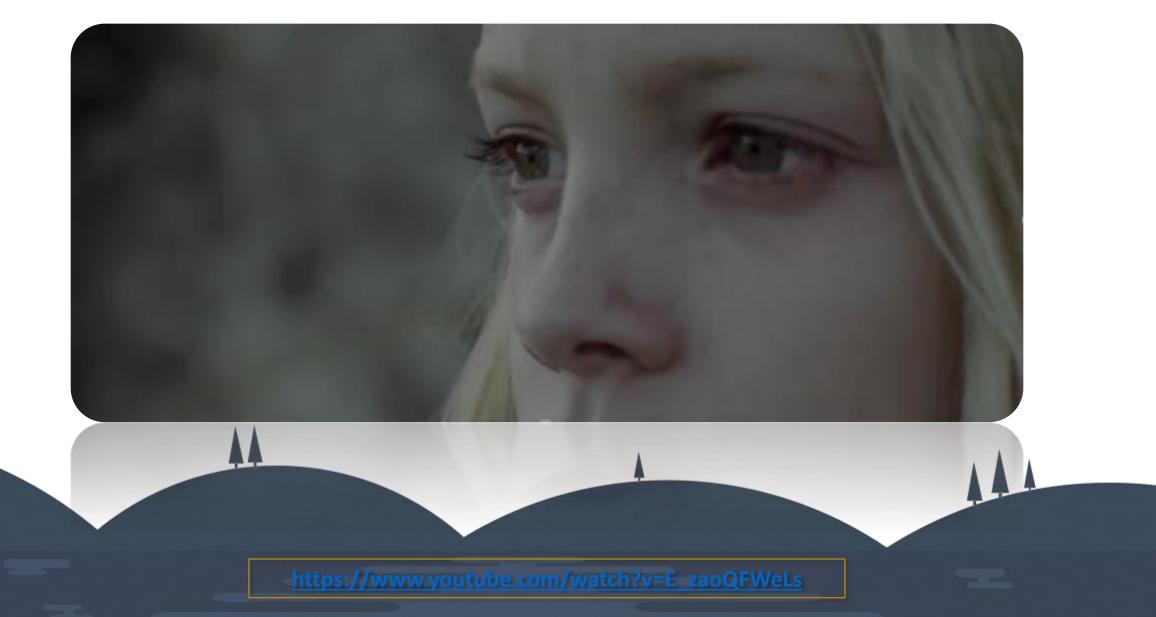
They are also more than twice as likely to have three or more categories of trauma exposure compared to children not impacted by poverty.



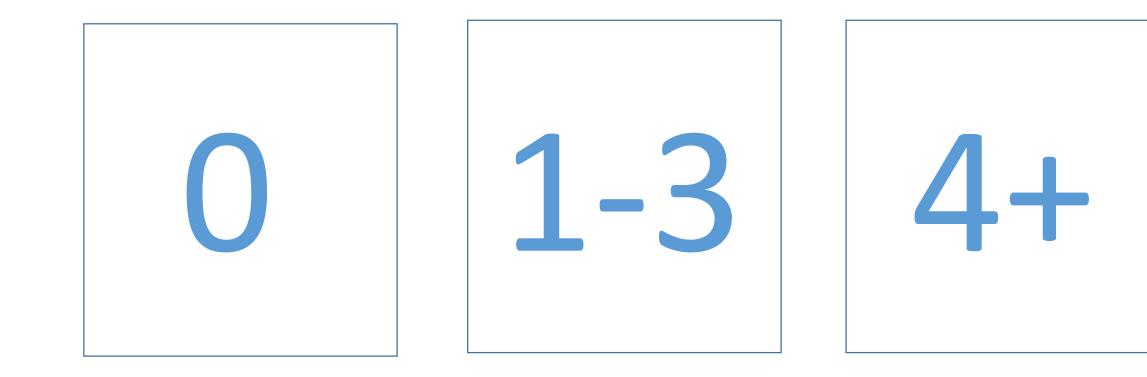
Source: Child Trends' original analyses of data from the National Survey of Children's Health

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Do You Really Know Maja?



Annotate: What is Maja's ACE SCORE?



Annotate: C	lient of
Concern	

Do you suspect your client of concern has been exposed to ACEs?





ACE STUDY FINDINGS

COMMON

ACEs are strong indicators of what happens in school and later in life.

Category exposure determines outcomes

WELL CONCEALED

How Common are ACEs?

> Almost **two-thirds** of participants of the original ACE study reported being exposed to at least one ACE

Women were more likely to report:



Unfortunately, ACEs are so common the CDC has deemed them the #1 chronic health epidemic

64%

45%

The 2016 National Survey of Children's Health (NSCH) revealed that 45% of U.S. children have experienced at least one ACE

The most common ACEs nationally reported in this 2016 study were:



Chronic Heat

#1

Divorce or Separation of a Parent or Guardian

The Brain Science

A person's environment and experience shapes their behavior and health.

Our brain is designed to prioritize survival.

Hormones like Cortisol are released when our "Fight, Flight, or Freeze" response is triggered.

Toxic Stress

Prolonged exposure to Cortisol and other stress hormones is toxic, and makes permanent changes to the brain.

This means you may encounter clients who are **perfectly adapted to survive** in their home environment, but who **cannot turn-off** their behavioral and stress response adaptations in your organization, community or other "normal" situations.

f(x)=a(x-

cosd + a

 $\sin \alpha + \sin \beta = 2\sin \beta$

Our Stress Response System



Not All Stress is Bad

Positive Stress

Common stressful events that produce a mild stress response within the context of supportive families, schools and communities.

Tolerable Stress

Living in a high stress environment, but buffered by a supportive family and community system.

Toxic Stress

Continuous activation of the stress response system without a protective buffer, causing lasting damage and impairing parts of the brain responsible for learning, concentration and self-control.

Do You Recognize Signs of Traumatic Brain Development?

Hypervigilance – On edge, always scanning for threats.

Display of ADHD-like symptoms, including an inability to stay on task or follow directions, but meds don't work.

Difficulty identifying feelings or communicating needs.

Early onset of sexualized behaviors and activity.

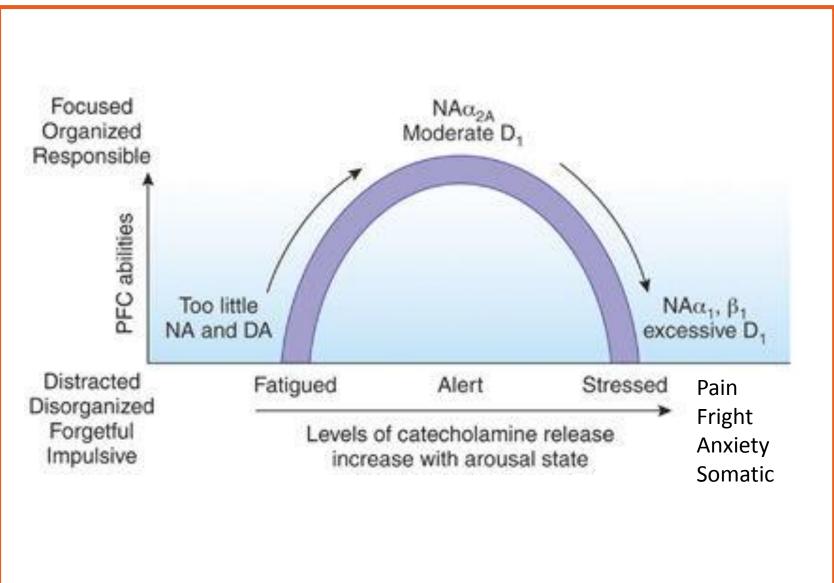
More impulsive, aggressive and disruptive behaviors, including those leading to suspension, expulsion and arrest.

Difficulty with transitions.

CATECHOLAMINE PRODUCTION IMPACTS ADHD SYMPTOMS

Low catecholamine production results in distracted and impulsive behaviors.

High catecholamine production impact somatic symptoms

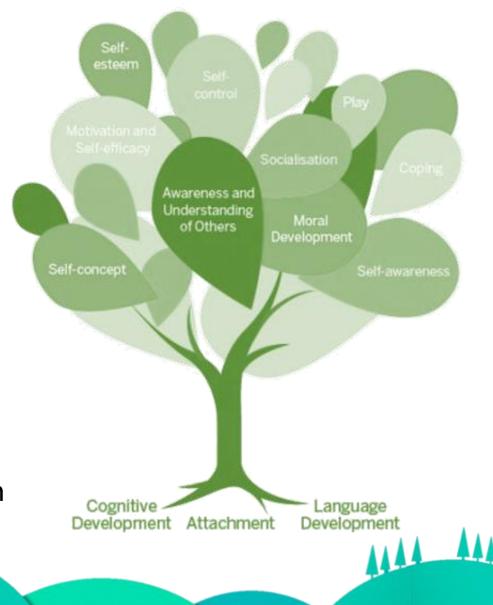


Neuropsychopharmacology (2010) 36, 207-226; doi:10.1038/npp.2010.160



Trauma Impacts Self-Concept

- Hopelessness
- Body image
- Shame, guilt, self-blame
- Do not feel safe in this world
- Difficulty developing healthy relationships
- Dissociation
- Hard time with boundaries
- Hesitant to trust people for support or attention



Physiological Impacts

Trauma Induced Physiological Outcomes		
Difficulty concentrating and negative thoughts	Headaches, muscle tension, stomach aches and other somatic symptoms	
Impaired memory	Weakened immune system	
Higher blood pressure	Decreased bone density and muscle tissue	
Hyperglycemia (fatigue, excessive thirst/urination)	Slower healing	
Coordination problems	Development of health risk behaviors	

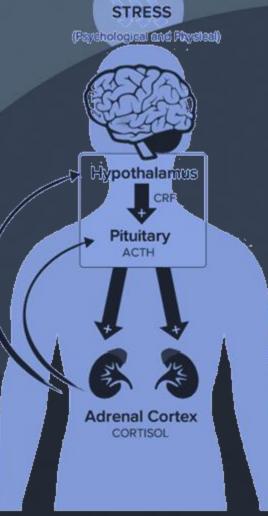
CORTISOL AWAKENING RESPONSE

People exposed to high levels of conflict, abuse or other dysfunction may develop dysregulated HPA Axis reactivity, leading to increases in health and social, emotional and behavioral problems.

Cortisol Awakening Response (CAR) – A burst of the stress hormone Cortisol at each morning wakeup that orients us to our place in space and time in order to prepare us for our day.

Our CAR brings us to full alertness, activates our immune system, helps us to recall memories that help us to anticipate our day (like a project being due or an upcoming test), and increases energy availability for coping with demands.

Source: Zhang, Jihui et al. "Family Conflict and Lower Morning Cortisol in Adolescents and Adults: Modulation of Puberty." *Scientific Reports* 6 (2016): 22531. *PMC*. Web. 27 Mar. 2018.



BLUNTED STRESS RESPONSE

Blunted Stress Response – Occurs when constant activation of the stress response system creates a homeostatic reaction in the HPA Axis – a forced dampening of stress hormone production.

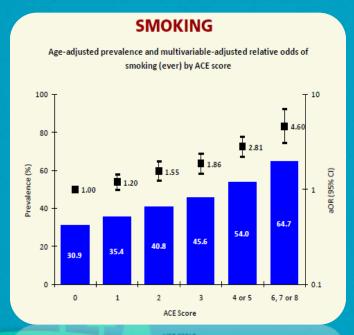
A dysregulated CAR system diminishes executive function and is related to these issues in your classroom:

Memory Distortion	Persistent Aggression	Diminished Coping	Callousness
Depression	Hyporeactivity	Sleep/Fatigue Problems	Less adaptive to change
Anxiety/Pervasive Worry	Less motivation/ engagement	Blunted response to reward	Over-response to social environment

Researchers have linked advanced stress management skills to improvements CAR functioning.

McGinnis, Ellen W et al. "Cortisol Awakening Response and Internalizing Symptoms Across Childhood: Exploring the Role of Age and Externalizing Symptoms." International journal of behavioral development 40.4 (2016): 289–295. PMC. Web. 29 Mar. 2018.

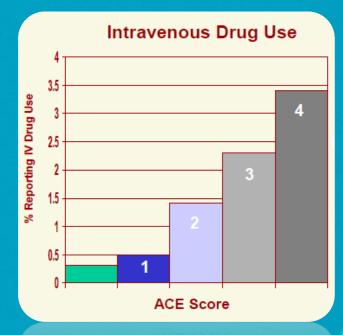
ACES IMPACT BEHAVIORAL HEALTH



46% increase from baseline.

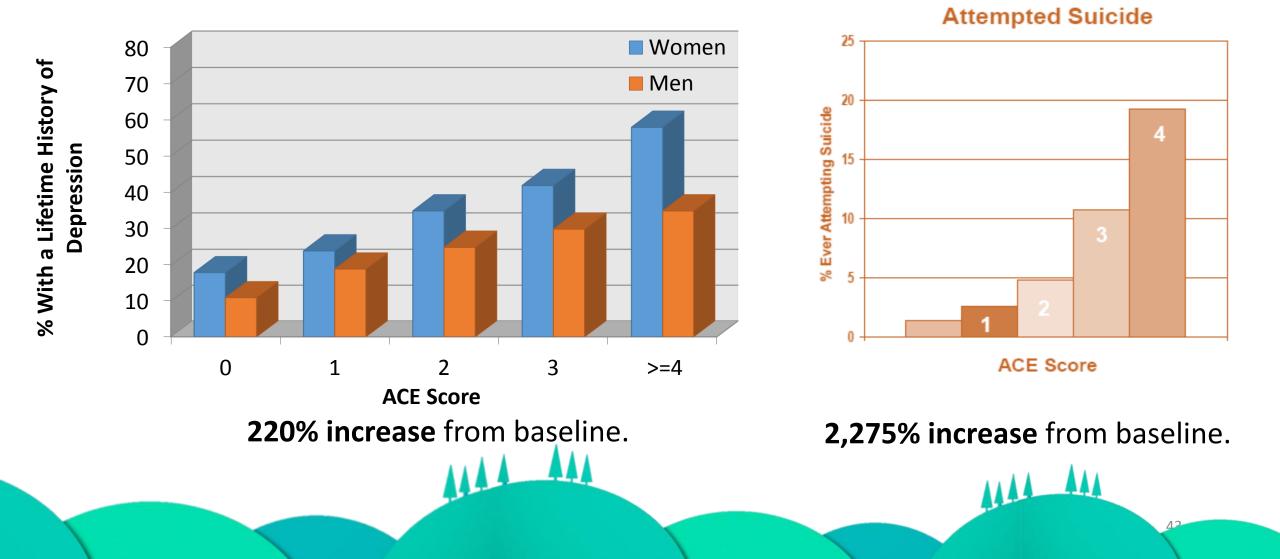


440% increase from baseline.

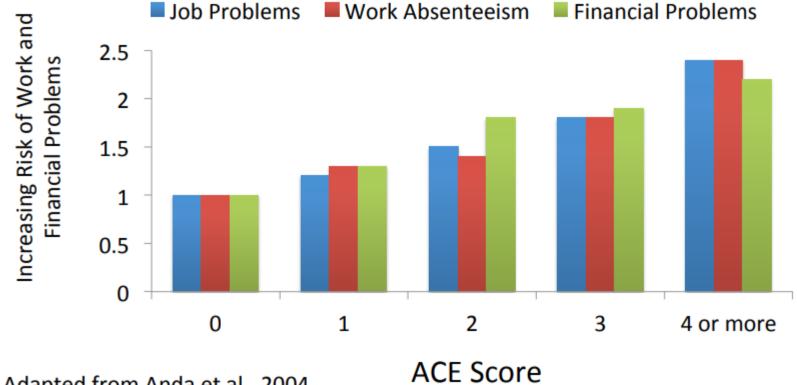


820% increase from baseline.

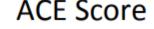
ACES IMPACT MENTAL HEALTH



ACES IMPACT EMPLOYMENT



Adapted from Anda et al., 2004



ACES LEAD TO THE 10 MOST COMMON CAUSES OF EARLY DEATH

alcoholism violence physical innactivity illicit drug use Severe obesity injected drug use suicide attempts depression more than 30 sexual partners

REFRAMING OUR POINT OF VIEW

With an ACE score of 0, the majority of adults have few, if any, risk factors for the most common diseases leading to early death.

With an ACE score of 4 or more, the majority of adults have multiple risk factors for these diseases or the diseases themselves.

Much of what we see as problem behaviors should actually be viewed as a **personal solution** to an unrecognized prior adversity.

ACES IMPACT SNOHOMISH COUNTY SCHOOLS

Special education needs

Grade repetition

Problems at school



Meet Malory

Mallory is in 8th grade at Centennial Middle School.

Her counselor knows Mallory's mother physically abused her in the past. As a result, **Mallory's known ACE Score is** "1."

Keep in mind - ACEs travel in clusters: Among people exposed to physical abuse, **84% report exposure to at least 2 additional ACEs**.



MALLORY'S AGGRESSION

Mallory is frequently sent to the office for aggressive and defiant behavior. Three months ago, she was suspended again for fighting in the cafeteria.

- Students like Mallory are nearly twice as likely (1.9x) to report getting into a physical fight within the past 12 months.
- They are 4.2x more likely to be in six or more physical fights.



Washington State Healthy Youth Survey 2018 Results retrieved from www.askhys.net

BULLYING & SAFETY AT SCHOOL

Mallory has trouble making lasting friendships and is frequently the target of bullying behavior.

8th graders like Mallory are:

Twice as likely (2.0x) to report being the victims of bullying.

3.0x as likely to report missing days of school because they feel unsafe.

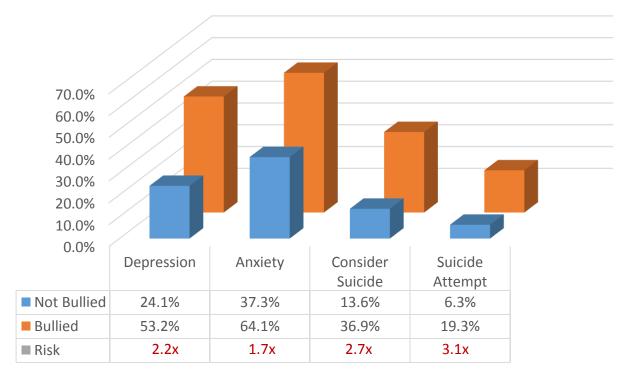


BEYOND ACES - BULLYING

Emerging evidence suggests the negative impacts of childhood bullying on longterm adult health and wellness outcomes are more severe than the impacts of child abuse and neglect.

Bullying Impacts 8th Grade Mental Health

Source: Washington State Health Youth Survey 2018



MALLORY'S MENTAL HEALTH

Mallory seems pretty disengaged in class and always looks tired. She can't remember facts or directions from 10 minutes ago.

- Students who report being physically abused by an adult are more than twice as likely (2.2x) to report being depressed on the most recent HYS.
- They are also nearly three times as likely (2.8x) to report contemplating suicide.
- They are more than three times as likely (3.3x) to have made an actual attempt to die by suicide within the last year.

Washington State Healthy Youth Survey 2018 Results retrieved from www.askhys.net

MALLORY'S PERSONAL SOULTIONS

Mallory was caught bringing a flask of alcohol to school in 7th grade. She was suspended and hasn't really engaged with any helping adults since then.

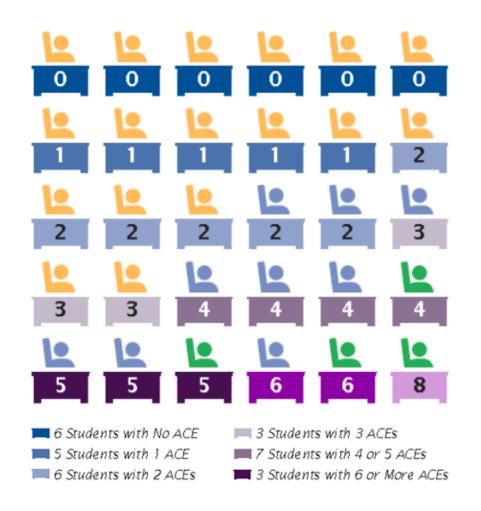
- 8th Graders like Mallory are 3.4x more likely to report current alcohol or marijuana use.
- They are 8.6x more likely to indicate current prescription pain killer use.



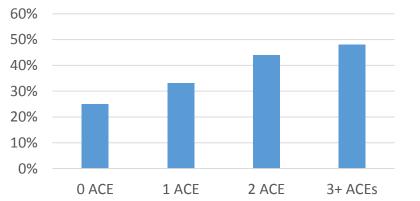
Washington State Healthy Youth Survey 2018 Results retrieved from www.askhys.net

ACES in Every Classroom

More than 1 in 5 8th graders in Snohomish **County Schools indicate** they have been intentionally hurt by an adult on the most recent Healthy Youth Survey.

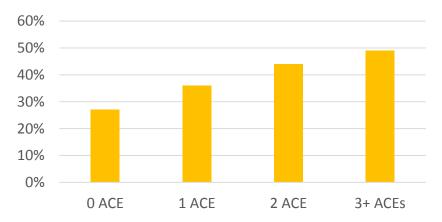


ACE IMPACTS RISK FACTORS FOR DROP OUT



Low School Engagement

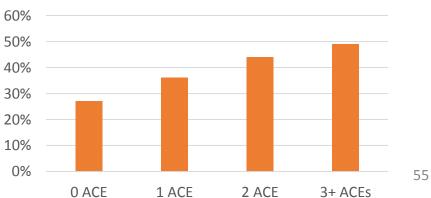
Contacted Home Due to Problems



Highly Externalizing Behavior



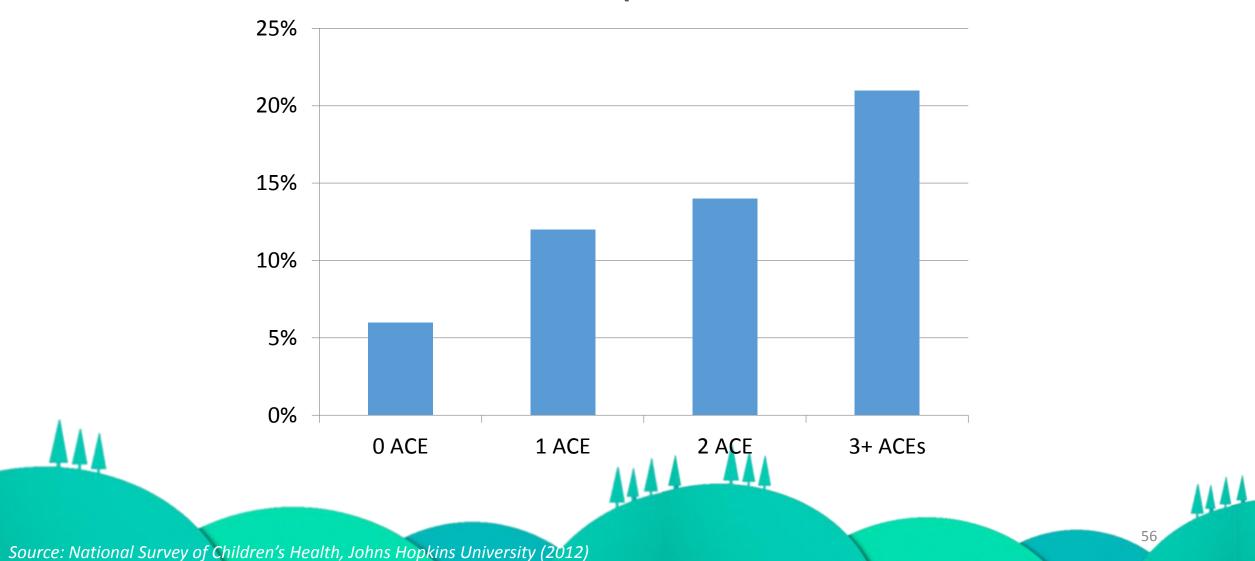
Does Not Finish Tasks Started



National Survey of Children's Health, Johns Hopkins University (2012)

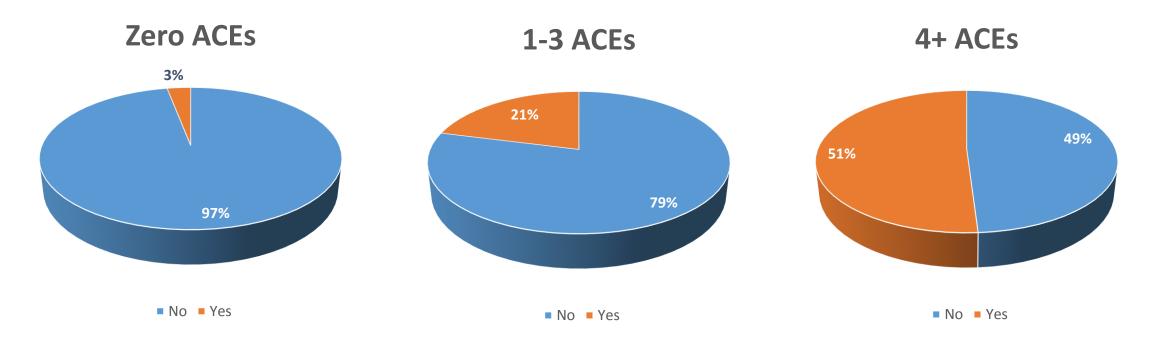
ACES IMPACTS RISK FACTORS FOR DROP OUT

Grade Repetition



ACES IMPACT SCHOOL COSTS

NEED FOR ACADEMIC & BEHAVIORAL INTERVENTIONS



CLIENT OF CONCERN – 10 Minute Breakout Session

Think about a client for whom you have concern. Write down the following:

- 1. What worries do you have for this client?
- 2. What challenging behaviors does this client exhibit, if any?
- 3. Do you suspect this client has exposure to ACES?
- 4. All behavior has a function. If we consider this client's behavior as a *personal solution* instead of a problem, what purpose might the behavior serve? How does the behavior help them to get their needs met?



The link between Trauma & Health



Partial List of ACE Dose/Response Outcomes		
Alcoholism & alcohol abuse	School Drop-Out	
Chronic obstructive pulmonary disease & ischemic heart disease	Significant Financial Problems	
Depression and other MH issues	Sexually transmitted disease	
Chronic Unemployment	Obesity	
High risk sexual activity	Suicide attempts	
Illicit drug use	Unintended pregnancy	
Intimate partner violence	Early Death	
Three or more marriages	Increased Emergency Room Use	
Increased Pharmacy Use	Many more	



Why Trauma Awareness Matters

To put it simply, childhood experiences are the most powerful determinants of who we become as adults.

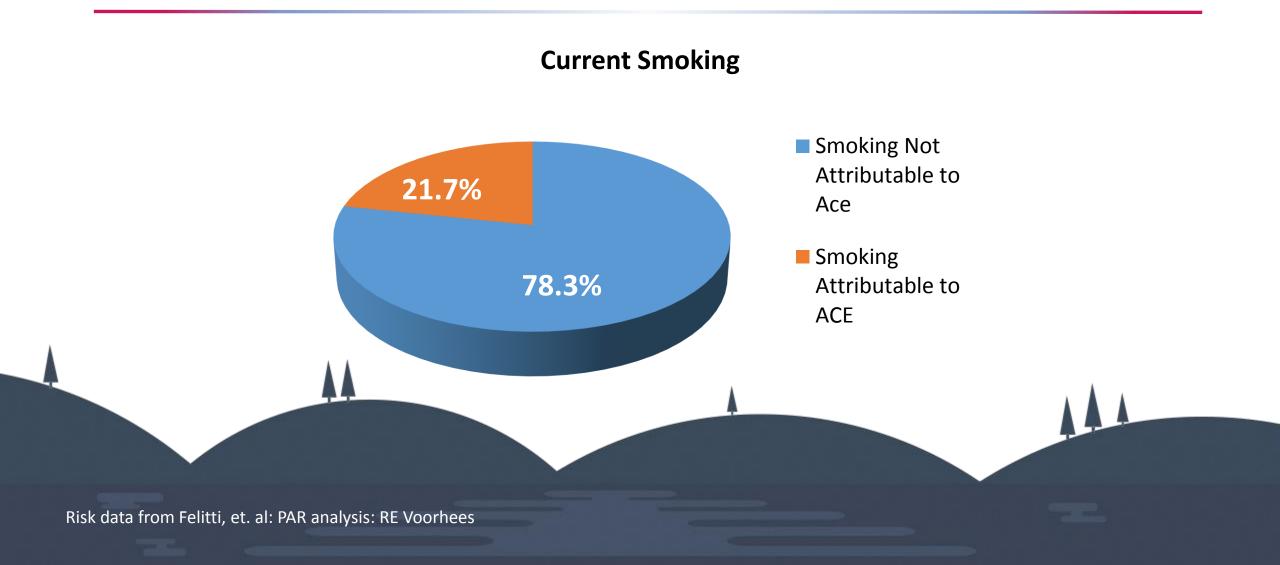


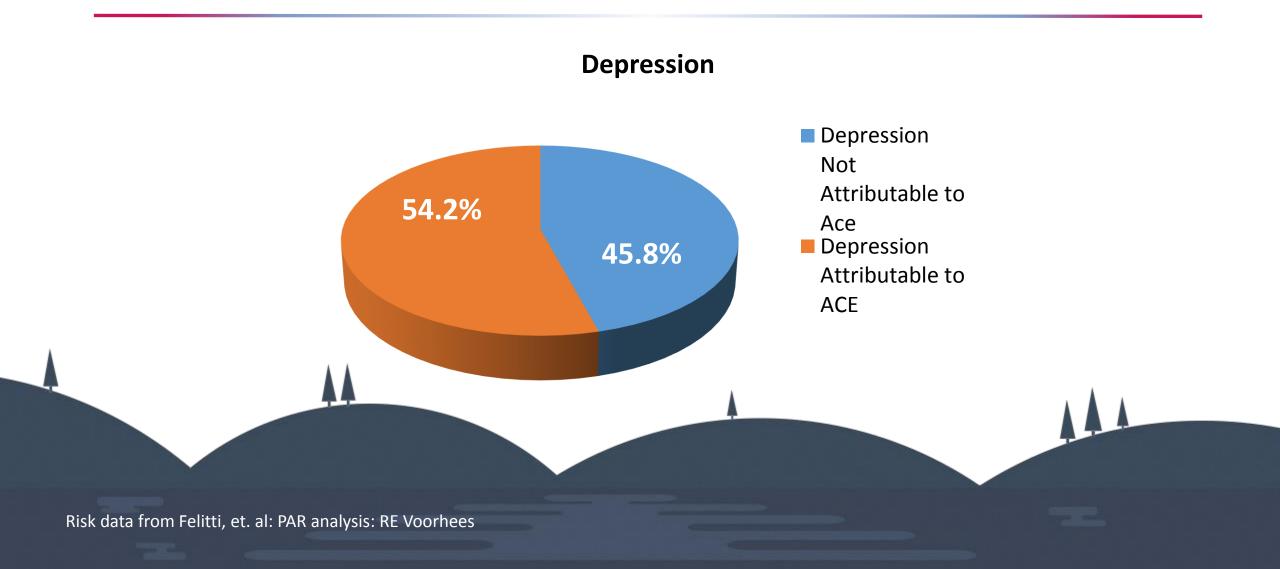
PAR = The difference in rate of a condition between an exposed population and an unexposed population.

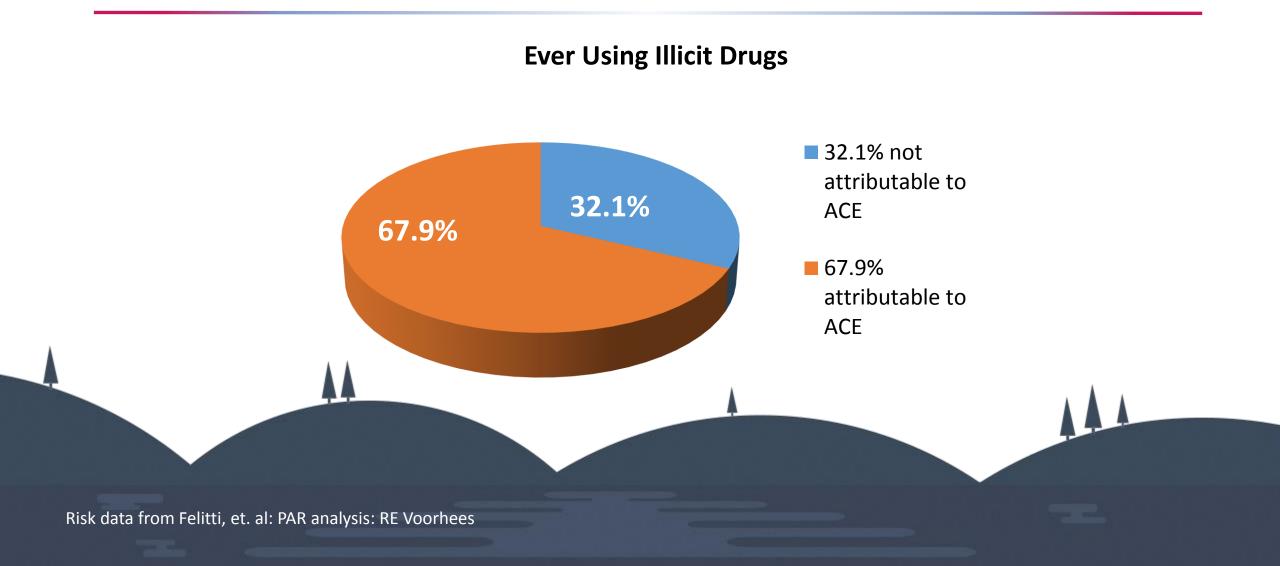
In this case, it is a calculation used by the CDC to estimate the proportion of a health outcome caused by ACE.

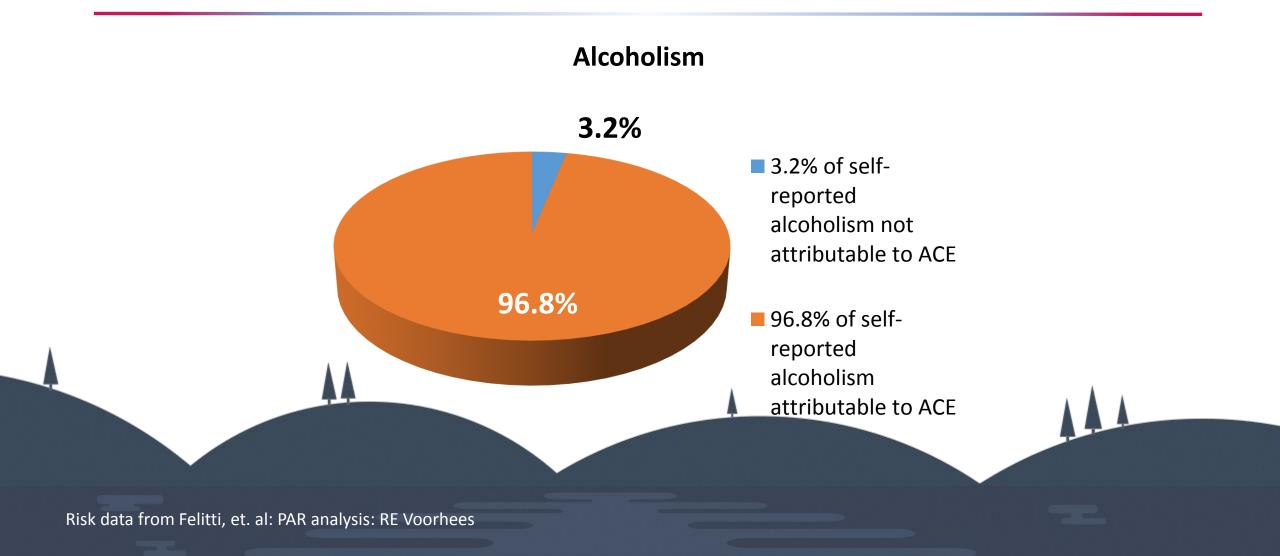
Takes into account:

- > The increased risk due to each level of ACE
- > The prevalence of the number of ACE categories

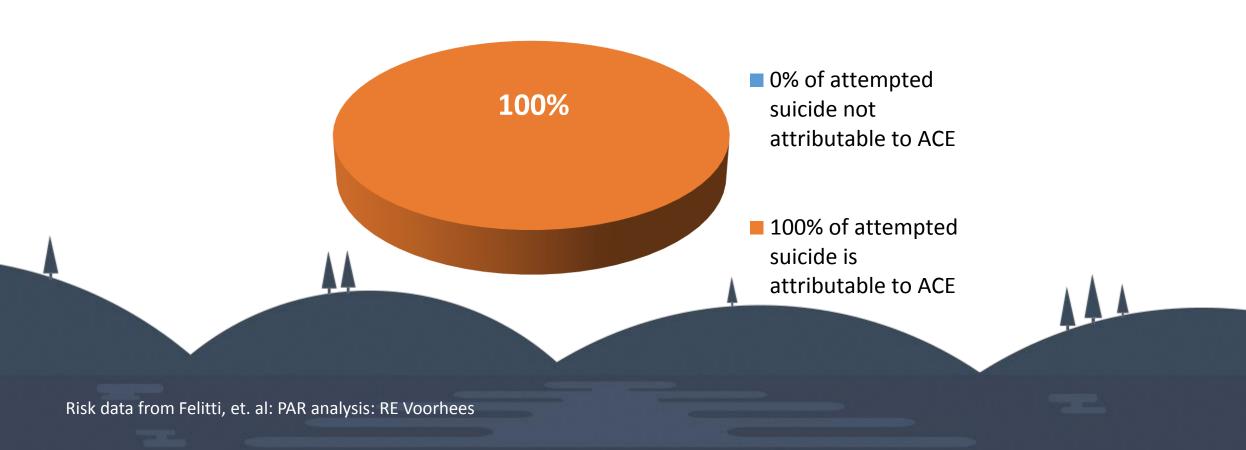




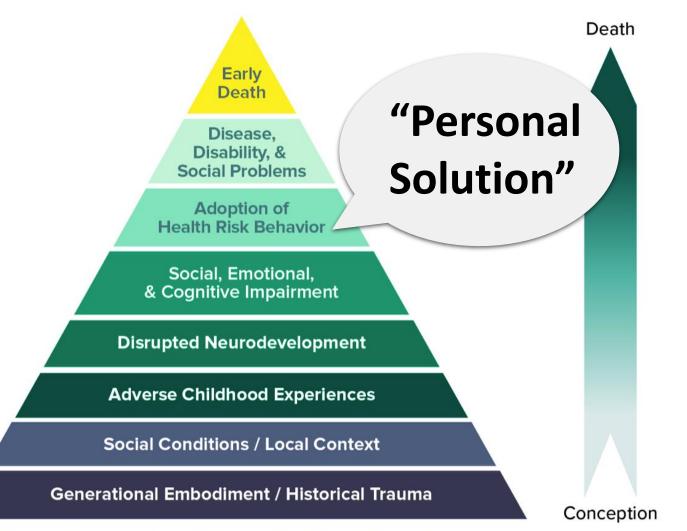




Reporting Having Attempted Suicide



The ACE Pyramid



Mechanism by which Adverse Childhood Experiences Influence Health and Well-being Throughout the Lifespan Without accounting for individual levels of resiliency, this pyramid depicts how impacts to health and well-being can occur over a lifetime as a result of exposure to Adverse Childhood Experiences.

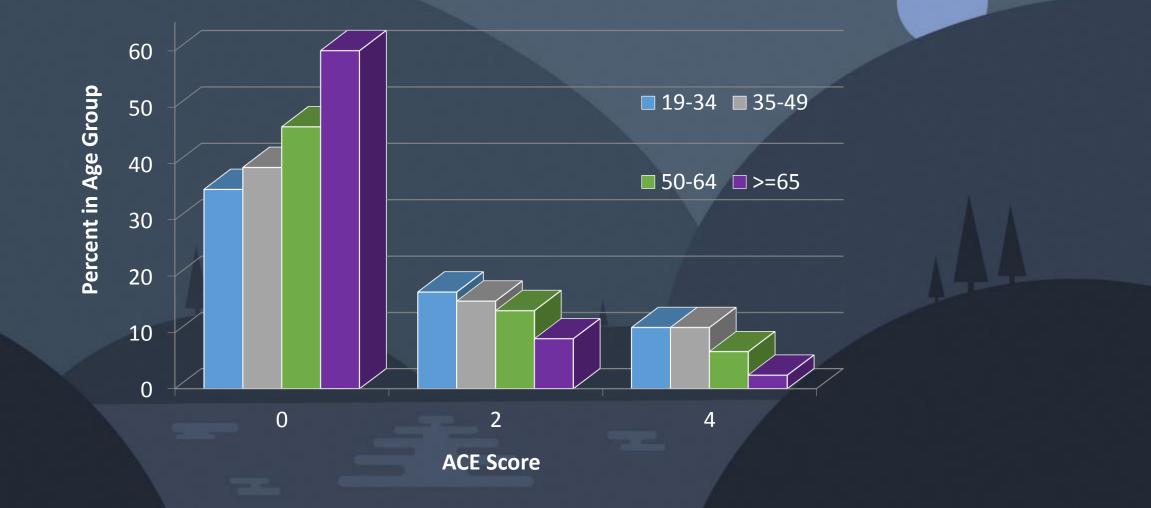
The ACE study found links between ACEs and adult health risks, often leading to chronic health conditions.

Those with 4 or more ACEs were found to be:

- **12.2x** as likely to have attempted suicide
- 7.4x as likely to consider themselves to be an alcoholic
- **4.7x** as likely to have ever used illicit drugs
- 4.6x as likely to have had 2 or more weeks of depressed mood in the past year
- 3.2x as likely to have had 50 or more intercourse partners, and
- 2.3x as likely to smoke



ACEs IMPACT MORTALITY



MASLOW MATTERS!

Maslow identified a hierarchy of needs to explain individual motivation.

Your clients must meet needs at the lower levels of the pyramid before tackling higher levels.

How do you intentionally address the Deficiency Needs of your clients to unlock your organization's mission?



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You Matter!

Whether you like it or not, **most of you are on the ACEs frontline**. Without proper boundaries and self-care, you are likely to experience the **emotional residue** of working with trauma impacted clients.

- Physical loss of sleep, not eating well, low energy
- Emotional anxiety, sadness, numbness
- **Behavioral** absent minded, losing things
- **Cognitive** diminished concentration, loss of focus, hypervigilance
- Interpersonal mistrust, withdrawal
- Spiritual workplace frustration, feeling lack of support, not satisfied
- Among social workers with only indirect exposure to trauma, the rate of PTSD is twice as high compared to the general population.

Personal Impact – Compassion Fatigue

We experience compassion fatigue – a **profound emotional and physical erosion** – when we are unable to refuel and regenerate ourselves. This is when our empathy shuts down.

- Wishing a client would just get over it ("Suck it up.").
- Blaming clients for their problems.
- Using anger or sarcasm when trauma symptoms manifest.
- Lacking Empathy or fearing what the client will start to talk about next.
- **Ignoring** clear signs of trauma or avoiding the client altogether.

Self-Care is Client Care!

Taking care of yourself should be enjoyable. If it feels like a chore, try something else!

2 minutes

- Breathe
- Stretch
- Daydream
- Take your stress temperature
- Acknowledge an accomplishment
- Say no
- Compliment yourself
- Share a favorite joke

5 minutes

•

- Listen to music
- Have a cleansing cry
- Chat with a colleague
- Sing out loud
- Jot down dreams
- Step outside for fresh air
- Enjoy a snack or coffee

10 minutes

- Evaluate your day
- Write in a journal
- Call a friend
- Meditate
- Tidy your work area
- Assess your self-care
- Draw a picture
- Dance
- Listen to soothing sounds
- Surf the web (but avoid media)
- Read a magazine

30 minutes

- Get a massage
- Exercise
- Eat lunch with a colleague
- Take a bubble bath
- Read non-work related literature
- Spend time in nature
- Go shopping
- Practice yoga
- Watch your favorite TV show.

There's Hope!

- Trauma-informed organizations create environments where injured brains have the best opportunity to thrive.
- Research on resiliency and neuroplasticity teach us that every person can bounce back from adversity.
- Evidence-based Kernels can lead us from intuitive responses to intentional action.





Looking Across Disciplines



"If all you have is a hammer, everything looks like a nail." - Abraham Maslow

How Wolves Change the Behavior of Rivers



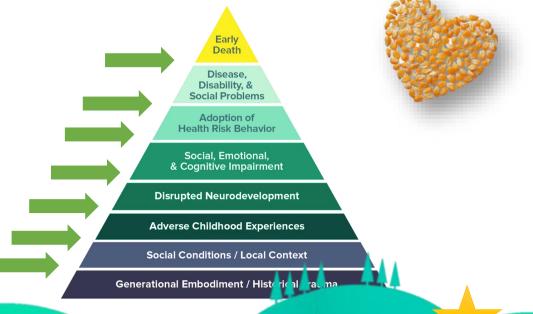
https://www.youtube.com/watch?v=ysa5OBhXz-Q

How Wolves Change the Behavior of Rivers



Let's Talk about Kernels

- Kernels are low or no-cost to evidence-based strategies recognized as fundamental units of behavioral influence.
- This means we can *unleash access* to strategies that support safety, relationship and skill building essential to our client's readiness to grow and learn.
- Kernels give us a way to implement simple but effective practices that interrupt the ACES trajectory, move us from intuition to intention, and improve outcomes.



What is a Kernel?

- A kernel is the smallest unit of scientifically proven behavioral influence.
- Kernels produce quick easily measured change that can grow into much bigger change over time.
- They can be used alone **OR** combined with other kernels to create new programs, strategies or policies.
- Combinations of Kernels are considered "behavioral vaccines."
- "Planted" Kernels create a culture.



Managing Affect



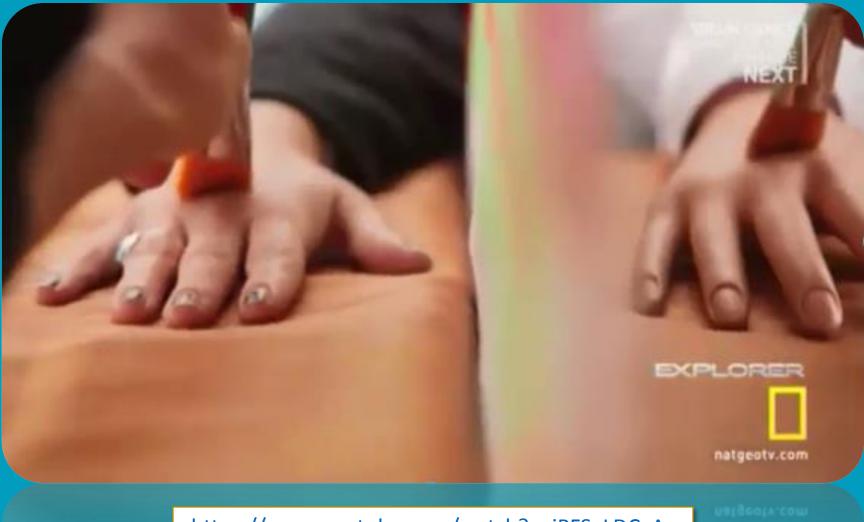
- **Mood** is your internal emotional state.
- Affect is how you externalize your emotions through verbal and non-verbal cues.
- Research shows that trauma-impacted people are particularly aware of changes in affect, which triggers the survival brain, decreasing their capacity to think and learn.

Your Pain is My Pain

- **Mirror Neurons** help us to instinctively understand the actions of others and prime us to imitate what we see.
- This neural mechanism is involuntary and automatic.



Rubber Hand Illusion



https://www.youtube.com/watch?v=iPFSgLDCvAs

Your Pain is My Pain

- **Mirror Neurons** help us to instinctively understand the actions of others and prime us to imitate what we see. It is an involuntary and automatic neural mechanism.
- Consider that in our current context, Mirror Neurons comprise the biology of witness.





Managing Affect



- **Mood** is your internal emotional state.
- Affect is how you externalize your emotions through verbal and non-verbal cues.
- Research shows that trauma-impacted people are particularly aware of changes in affect, which triggers the survival brain, decreasing their capacity to think and learn.

Attunement



- Traumatized people, especially youth, often have difficulty communicating, so their behaviors may become a front for conveying unmet needs or dysregulated affect.
- We may respond to the most distressing symptom, rather than the client's underlying emotion or need.
- Ask "What's happening here?" rather than, "What's wrong with this person?"

Consistency

- Being predictable by having consistent responses to client behavior is vital to establishing safety and reducing your client's need to exert control.
- An intentional focus on building success, rather than establishing limits which may be associated with powerlessness or vulnerability – should be your priority.
- Know that your most challenging clients may initially react with both negative or positive responses.



- Building routines and rituals, particularly around trouble areas, can make meeting with you fun, safe and predictable.
- Research shows that establishing routines enhances client:
 - > Feelings of safety;
 - > Ability to build trust and feelings of reliability within a relationship; and
 - > Anticipation of an event, which reduces stress.

From Concept to Application – 10 Minute Breakout Session

Consider the following evidence-based kernels:

- Affect Management
- Attunement
- Consistency
- Establishing Routines and Rituals

Discussion:

- 1. How is your organization intentionally promoting or using these strategies among staff and with clients?
- 2. Are there any situations you can recall where the use of one of these strategies would have helped a client to be successful?
- 3. Brainstorm ideas about how these strategies can be incorporated into your work.



Why Haven't We Heard this Before?





- Caretaker/child play is associated with lower rates of delinquency, substance abuse problems and psychiatric disorders such as depression and anxiety problems.
- **Physical play** increases a child's ability to have healthy relationships by teaching basic skills for making and playing with friends.
- Non-Directive Play improves the relationship with the parent, increases the happiness and contentment of the child, and results in greater attention span, improved creativity and resourcefulness.

Turtle Breathing

"Turtle Breathing" is a technique for helping children with controlling anger.

Trusted adults use this technique in conjunction with the scripted story, "Tucker Turtle Takes Time to Tuck and Think."

This technique:

- Reduces anxiety
- Reduces temper tantrums
- Increases resiliency
- Increases self-control

Turtle Breathing - Recipe

Model remaining calm

Teach the child the steps of how to control feelings and calm down

Step 1: Recognize your feeling(s)

Step 2: Think "stop"

Step 3: Go inside your "shell" and

take 3 deep breaths

Step 4: Come out when calm and think of a "solution"

Practice steps frequently

Recognize and comment when the child stays calm Involve families: teach them the "Turtle Technique"



Helping children with their anger Tucker's Anger is a normal and healthy emotion. Children

need to learn how to manage their anger without hurting themselves or others. Here are seven ways to help a child cope:

- 1. Be firm and fair, without getting angry. Limits are part of loving.
- 2. Understand that anger usually stems from the frustration of trying to get or avoid something.
- 3. Be clear. Tell the child what you want him or her to do in a specific situation. Try to avoid lectures. Say, "Try this instead."
- 4. Coach the child on how to handle conflict.
- 5. Role model healthy ways to deal with anger.
- 6. Try to avoid spanking as it teaches hitting.
- 7. Be patient: Learning takes time!

Resources

www.vanderbilt.edu/csefel Free tools, videos, and information on children's social emotional wellbeing.

www.challengingbehavior.org Resources for social

www.safeschoolsmanitoba.ca Resources for parents, teachers, and students on various topics.

www.vanderbilt.edu/csefel/documents/booklist.pdf List of books on anger for children aged 2-8.

References

Lentini, R. (2007). Tucker Turtle takes time to tuck and think : A scripted story to assist with teaching the "Turtle Technique". Retrieved March 1, 2010 from http://www.vanderbilt.edu/csefel/scriptedstories/ tuckerturtle.ppt

Joseph, G.E. & Strain, P. S. (2003). Module 2; Handout 2.6: Social emotional teaching strategies- Helping young children control anger and handle disappointment. Retrieved March 1, 2010 from http://www.vanderbilt.edu/csefel/modulesarchive/module2/handouts/6.html

Provence , S. (1985). Helping young children channel their aggression. Retrieved March 1, 2010 from http://www.zerotothree.org/site/PageServer?pagen ame= ter_key_temp_aggression&AddInterest=1158 Developed by kelthmoen@gmall.com - (March, 2010)

Tucker Turtle learns to tuck

1. share

- play 2.
- 3. ignore
- 4. ask nicely
- 5. say, "please stop"

solutions

~`O`

- 6. get a teacher
- 7. trade a toy or item
- 8. wait and take turns

8.//wait and take turns

- 7. trade a toy or item



An anger management

brochure for children

Verbal Praise

When any person receives specific, spoken recognition for engagement in a target act or behavior, it is widely demonstrated to:

- Improve school and work performance
- Improve prosocial interactions
- Improve organizational functioning
- Increase engagement in the noticed behavior

Verbal Praise as a Social Reinforcer

What are the social reinforcers in your organization for this behavior?



Paying attention.

06



Verbal Praise as a Social Reinforcer

How about for this behavior?



07

Attention Seeking or Distracting



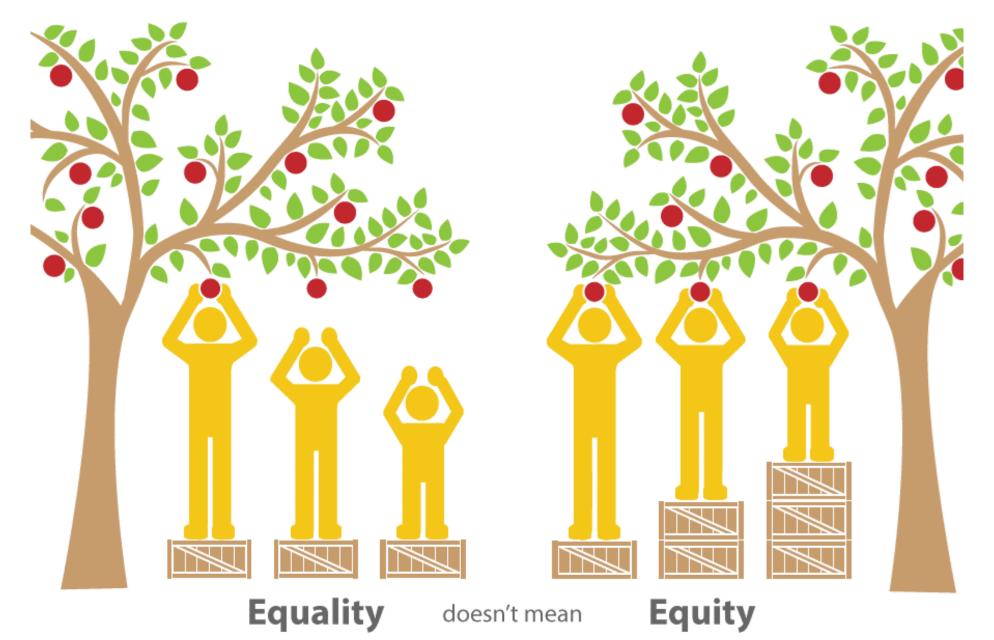
I - FEED - V

Use the I-Feed-V mnemonic to guide your use of praise

(Loveless, 1997)

I = immediate **F** = frequent **E** = enthusiastic **E** = eye contact **D** = describe the behavior V = varietyRatio of praise to criticism = 4:1 (Watson, 2004)

Equity or Equality

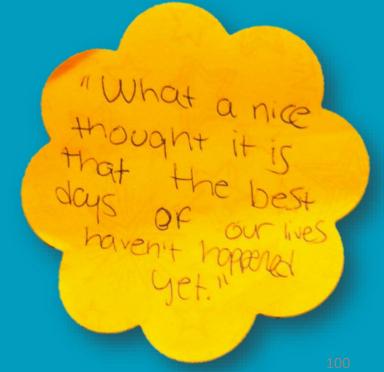


Written Praise



Notes from recognizing clients and coworkers for a **specific** action or behavior is demonstrated to help across the span of life:

- Do better at school or work
- Be more socially competent
- Reduce symptoms of ADHD, aggression and problem behaviors
- Increase engagement in the noticed behavior



Positive Note for Inhibiting a Challenging Behavior



If you work with children, a positive note sent home with a child for inhibiting an otherwise disruptive behavior is show to:

- Reduce disruptive and aggressive behavior
- Reduce problems at home
- Increase engagement at school



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Peer to Peer Notes



Notes of praise written from one peer to another, then **read aloud** or **posted on a public display** is widely shown to:

- Increase positive friendships
- Reduce neighborhood disorganization and crime
- Increase sense of safety
- Increase volunteerism
- Increase engagement in the noticed behavior



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From Concept to Application – 10 Minute Breakout Session

Consider the following evidence-based kernels:

- Engaging in or Teaching Non-Directive Play
- Breathing Strategies
- Specific Verbal, Written and Public Praise and Recognition

Discussion:

- 1. How is your organization intentionally promoting or using these strategies among staff and with clients?
- 2. Are there any situations you can recall where the use of one of these strategies would have helped a client to be successful?
- 3. Brainstorm ideas about how these strategies can be incorporated into your work.



Five Minute Break

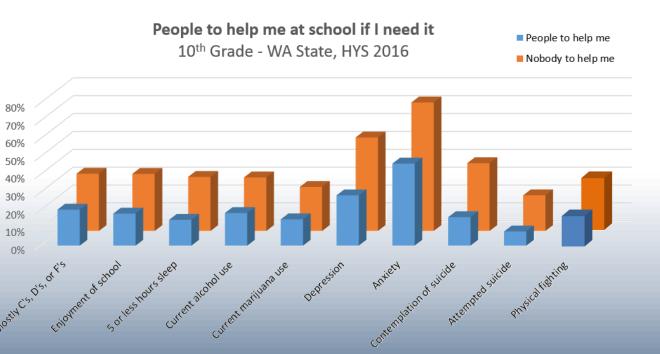
Building Relationship is Key

Connection and relationship

are vital to improving outcomes for all clients.

"Relationship is the evidence-based practice." – Chris Blodgett, WSU





Annotation Activity: What Do You Need to Be Successful?

Good Boss	Bad Boss
 Notices when I do a good job 	• Controlling
• Trusts me	• Yells
• Patient	• Doesn't believe in me



Traits of Your Best Bosses



Traits of Your Worst Bosses



What Do Your Clients Need from You to be Successful?

Social Worker Good Boss	social Worker Bad Boss
• Notices when I do a good job	• Controlling
• Trusts me	• Yells • Doesn't
• Patient	believe in me

The Marshmallow Experiment

Feelings of reliability within a relationship improves self-control.



Pleasant Greeting with Physical Touch



Also known as "handshakes."

- Frequent friendly physical and verbal greetings impact social status and perceptions of safety and harm.
- They also affect behavior streams of aggression, hostility and politeness.

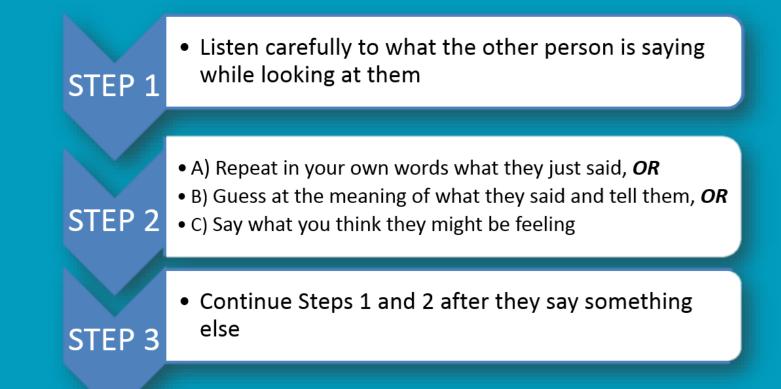


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Active Listening



Active Listening is a structured form of listening and responding that focuses the attention on the speaker. Research shows this technique increases mutual understanding and respect, while building emotional support.



What's Your Stress Temperature – 10 Minute Breakout Session

Practice your active listening skills. Instructions:

Each person takes a turn at one of three roles: Speaker, Listener, Coach

- Speaker: Discuss your stress temperature from 0 degrees (life is like a Hawaiian vacation) to 100 degrees (I'm out of here and never coming back!). What's contributing to your temperature?
- Listener: Listen utilizing the active listening steps. Remember you are listening, not sharing.
- Coach: Prompt the listener with active listening steps if the listener is struggling. Share what you observed.



Private Reprimands



Public reprimands and humiliation can create a trauma response, especially in boys, that causes long lasting negative effects. Where possible, **low emotion** and **private reprimands** are a more effective strategy.

Research shows that this strategy:

- Reduces aggression
- Reduces disruptive
 behavior
- Reduces emotional responding



Auditory/Visual Signal for Transition



The attention kernel works for youth and adults. It results in:

- Immediate reduction in transition time
- Increased academic engagement
- Reduced disruptive behavior
- Reduced aggression and bullying
- Reduced trauma response in traumatized people.



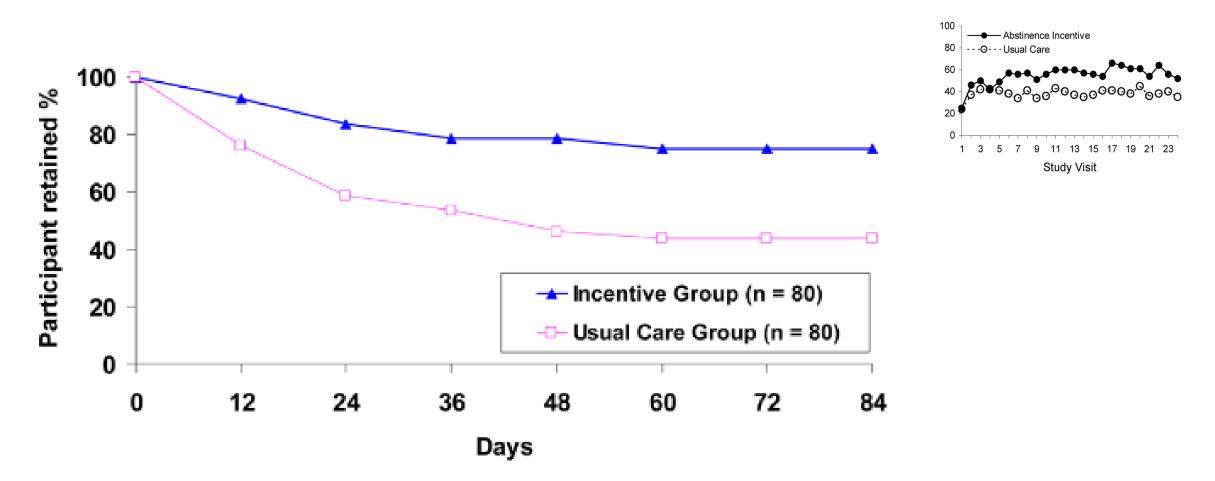
Also known as Contingency Management, the Mystery Motivator, Granny's Wacky Prizes, Prize Bowl and the Game of Life.

A praise strategy that uses activities as positive reinforcement instead of words. It results in:

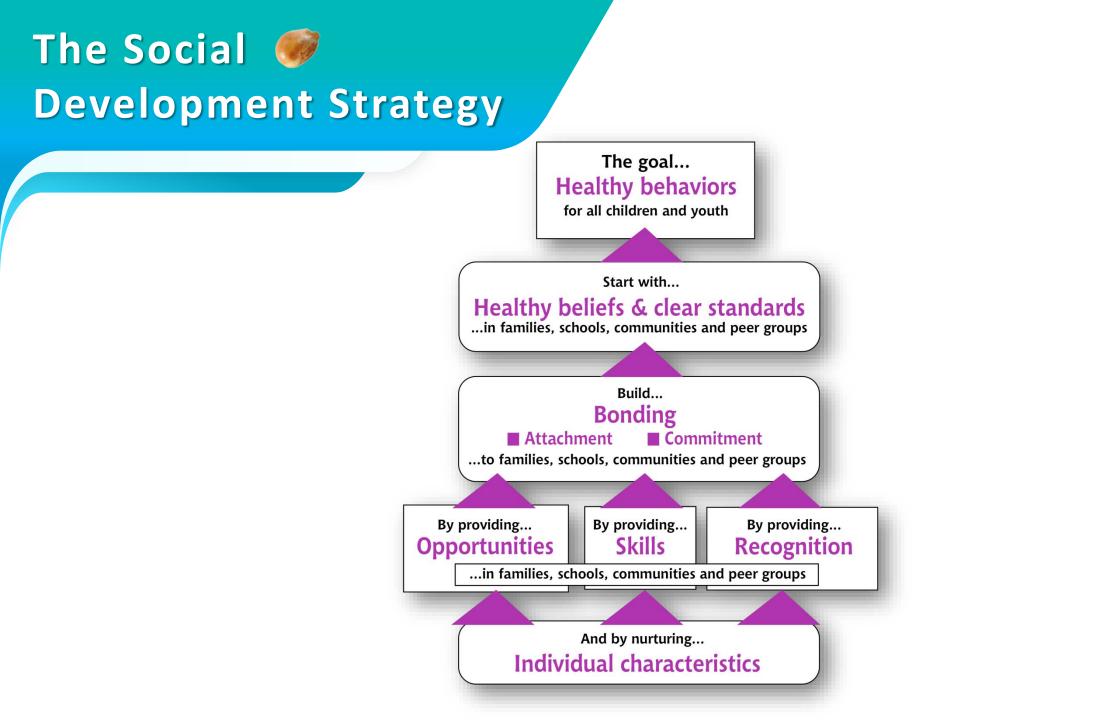
- Reduction in deviant behavior across the lifespan
- Reduction in problem behaviors at school
- Increases desirable behavior in all age groups
- Reduces addiction.
- Promotes self-regulation instead
 of excitement



Premack's Principle



Effects of a randomized contingency management intervention on opiate abstinence and retention in methadone maintenance treatment in China. Hser YI, Li J, Jiang H, Zhang R, Du J, Zhang C, Zhang B, Evans E, Wu F, Chang YJ, Peng C, Huang D, Stitzer ML, Roll J, Zhao M. Addiction. 2011 Oct;106(10):1801-9. doi: 10.1111/j.1360-0443.2011.03490.x. Epub 2011 Jul 27. PMID: 21793958



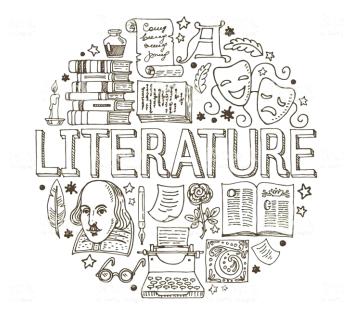
Detached Observer Phenomenon



Reading helps clients build resilience by introducing them to solutions that may be relevant to their needs.

Through identification with characters, the reader has a vicarious experience that facilitates insight and a release of their own emotions.

Because the reader is a detached observer, they are less defensive and more open to a new experience.





When an authority figure like a club director **sends a note home** or **calls a parent** about a young person's positive behavior, research shows that action results in:

- Increases in engagement
- Reductions in disruptive behavior
- Reductions in aggression

Gratefulness Check-in



When people are asked and share what they are grateful for once per week, research shows:

- Increase in happiness
- Improved sleep



Brain Nutrient Deficiencies Impact Health Across the Globe

Omega 6 Potato chips Bread Cookies Crackers Salad dressings Margarine School food Fast Food Snacks Prepared foods Grain fed meats Hydrogenated fats

Omega 3

Mackerel, Salmon or herring Range fed meats Cod liver oil Flaxseed oil Flaxseed ground Walnuts, Pecans, Brazil Nuts Pumpkin seeds Tofu (moderation) Green leafy veggies (Spinach). Tahini (sesame seed spread) Hummus (chickpea spread) Eggs (non-grain feed)

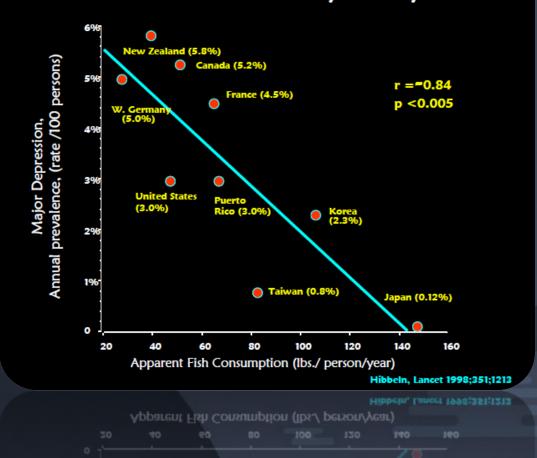
The alterations in brain chemistry that have resulted from our changing diet during the last 60 years contributes to trends of depression, bipolar disorder, autism, violence and academic problems.

Omega-3 Supplementation

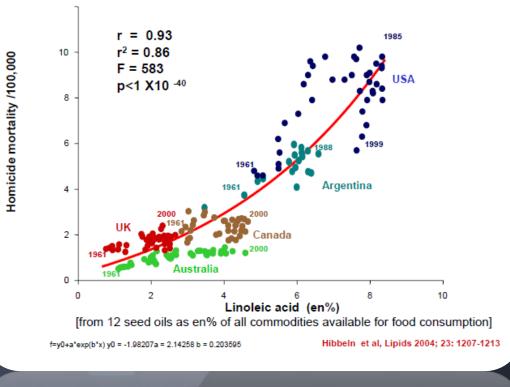
- Omega 3 has no harmful effects
- Well-documented evidence for Reducing aggression, depression, anxiety, bipolar disorder, post partum depression and borderline personality disorder
- 2002 Oxford University study and 2009 Dutch Corrections study of found Omega-3 supplementation achieved a 37% reduction in episodes of inmate aggression.
- In 2006, the American Psychiatric Association recommend that all psychiatric patients receive at least 1 gram of omega-3 per day to reduce symptoms of mental illness.

National Institute of Health

Fish Consumption and Major Depression Annual Prevalence by Country



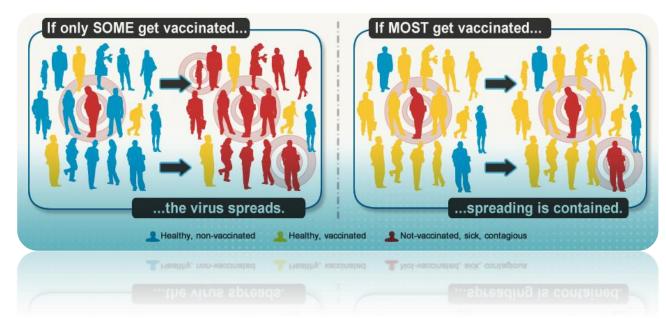
Homicide mortality and availability of linoleic acid (en%) Combined Australia, United Kingdom, Canada Argentina and USA data from 1961-2000



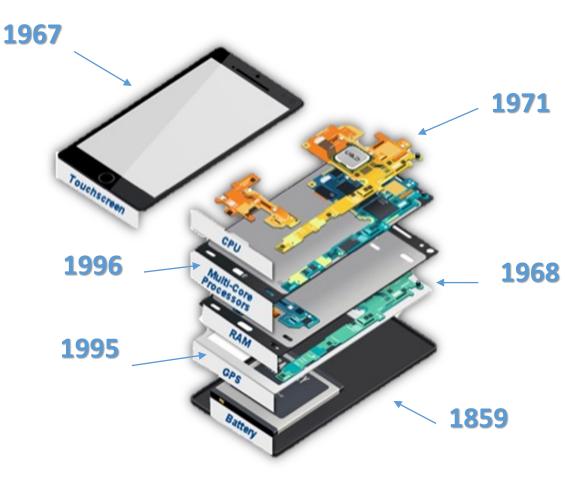
(r=y0+a*exp(b*x) y0 = -1.98207a = 2.14258 b = 0.203565 Hibbein et al, Lipids 2004; 23: 1201

[from 12 seed oils as en% of all commodities available for food consumption]

Behavioral Vaccines



If you work together to provide effective organization-wide behavioral vaccines for your clients, how will your resources and culture be impacted?



Seattle Social Development Strategy



Adults instructed to greet and shake hands with five kids NOT in their classroom each day. They also gave out "caught you being good" tickets every day. 10 years later, kids who received this simple strategy had:

- Reduced alcohol, tobacco and other drug initiation
- Reduced aggression
- Had significant improvement on achievement tests
- Were significantly less likely to have engaged in school misbehavior (i.e., cheating, truancy, or being removed from class for misbehavior)

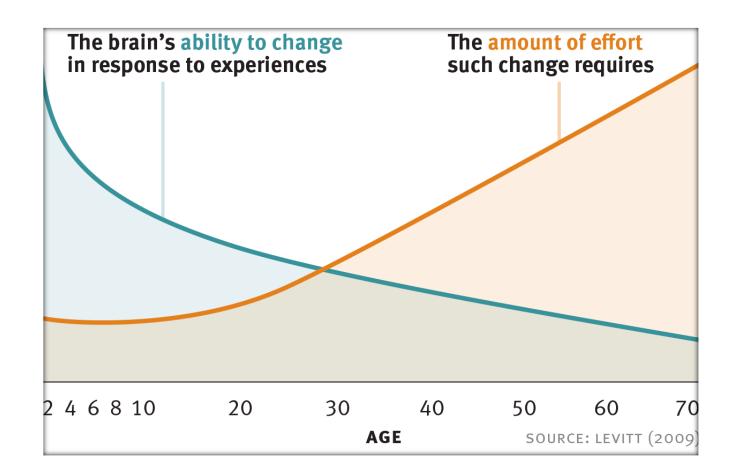
Timing Makes a Difference

As we age, it takes more effort for the brain to change in response to experiences.

The plasticity of our brains shrinks when our neurons struggle to form new connections (synapses) with other neurons.

Our brain's plasticity is the strongest in the first few years after birth. It is easier to form strong brain pathways during the early years and harder to repair pathways as we age.

That's why building resiliency through a community of **CARE** is so important!



What else can we do?

Be clear, consistent, predictable, and follow through

Maintain high expectations and assume positive intent, build on success rather than establishing limits

Provide guided opportunities to participate through voice and choice

Focus on the feeling of safety, building trust, and reliability of relationships





The Bottom Line

- Understanding ACES gives you the power to significantly impact the trauma trajectory of your clients.
- Remember Kaiser Permanente's diet and nutrition program dropouts? The researchers learned that their very successful intervention wasn't just treating nutrition problems, it was treating personal solutions!
- If you take away a client's personal solution before teaching them a better one, you're just digging a hole for them to fall back into.

Your Beliefs Matter!



https://www.youtube.com/watch?v=xQ6wr6vRfGo





<u>Adverse</u> <u>Childhood</u> <u>Experiences</u> <u>Study</u> (ACES)

ACES began as study in the late 1980's and 1990's at a diet and nutrition center managed by Kaiser-Permanente in San Diego, California. It became the largest study ever to examine social determinants of health.

Over 17,000 people participated in the study, which ultimately a direct connection between traumatic childhood experiences and health.

Most critically, the Centers for Disease Control and Prevention (CDC) now recognize ACES as a *public health crisis.*

ACES Participants were mostly:

- Middle class, average age of 57
- 80% White, 10% Black, 10% Asian
- 74% Some college
- 44% Graduated college
- 49.5% Men



But since the original ACE study, research indicates that ACEs are more prevalent for those belonging to non-dominant cultures and living in poverty...

THREE TYPES OF ACEs MEASURED

The original ACE study measured three types of ACEs through a 10 question assessment:

But, there's actually more than just these...



Physical



Emotional



NEGLECT



Physical



Emotional

HOUSEHOLD DYSFUNCTION



Mental Illness



Incarcerated Relative



Mother treated violently



Substance Abuse



Divorce



ACEs interact with stressors commonly faced by racial and sexual minorities—such as discrimination, stigma, and rejection—to contribute to behavior, health and opportunity disparities.



ACEs and Intersectionality

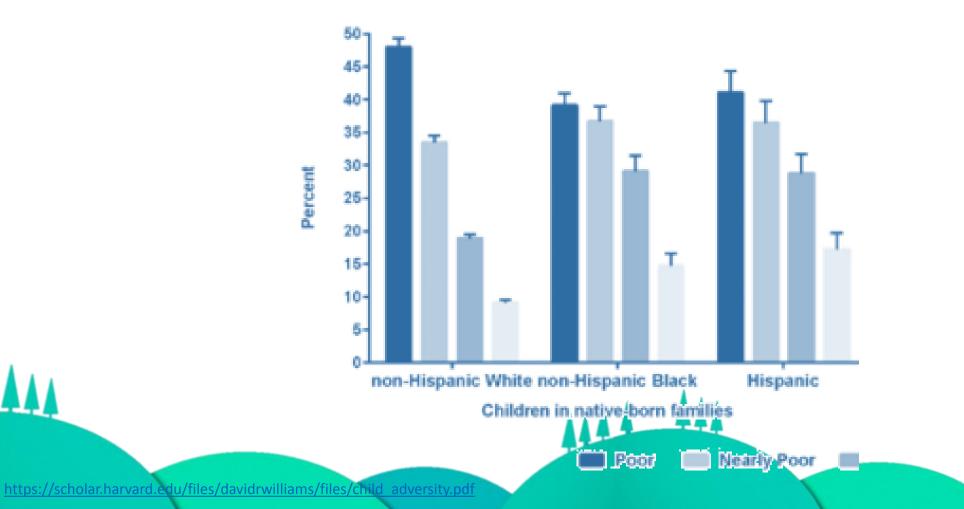
- Ethnic and sexual minority children are significantly underrepresented in the ACEs research.
- When cultural minorities are included in the data, Black, Hispanic and LGBT children are consistently shown to be exposed to more adversities than white children.
- Similarly, those living in economically stressed communities are more likely to experience ACEs.

This has led to a reexamination of the ACEs that predict long-term negative health and opportunity outcomes.

Racial disparities in Childhood Trauma: <u>https://scholar.harvard.edu/files/davidrwilliams/files/child_adversity.pdf</u>

RACE, ETHNICITY AND INCOME INFLUENCE EXPOSURE

ACE Exposure by Race/Ethnicity and Income Level N=84,837



Since the original ACE study, exposure to additional early life stressors are being studied.

Acute Trauma: is caused by a *single* traumatic event that triggers extreme emotional or physical stress.

Complex Trauma: is caused by exposure to *multiple* traumatic events. The long-term impact of this exposure is severe and pervasive.

Historical Trauma: is a complex and collective trauma experienced over time and across generations by a group of people who share an identity, affiliation, or circumstance.



B Realms of ACEs

ACEs Connection accelerates the global movement to prevent and heal adverse childhood experiences (ACEs), and supports communities to work collaboratively to solve our most intractable problems. Left unaddressed, toxic stress from ACEs harms children and families, organizations, systems and communities, and reduces the ability of individuals and entities to respond to stressful events with resiliency. The ACEs in these three realms intertwine throughout people's lives, and affect the viability of organizations, systems and communities.



The Brain Science

A person's environment and experience shapes their behavior and health.

Our brain is designed to prioritize survival.

Hormones like Cortisol are released when our "Fight, Flight, or Freeze" response is triggered.

Toxic Stress

Prolonged exposure to Cortisol and other stress hormones is toxic, and makes permanent changes to the brain.

This means you may encounter clients who are **perfectly adapted to survive** in their home environment, but who **cannot turn-off** their behavioral and stress response adaptations in your organization, community or other "normal" situations.

f(x)=a(x-

cosd+ a

Sin & + sin B = 201

ACES LEAD TO THE 10 MOST COMMON CAUSES OF EARLY DEATH

alcoholism violence physical innactivity illicit drug use Severe obesity injected drug use suicide attempts depression more than 30 sexual partners

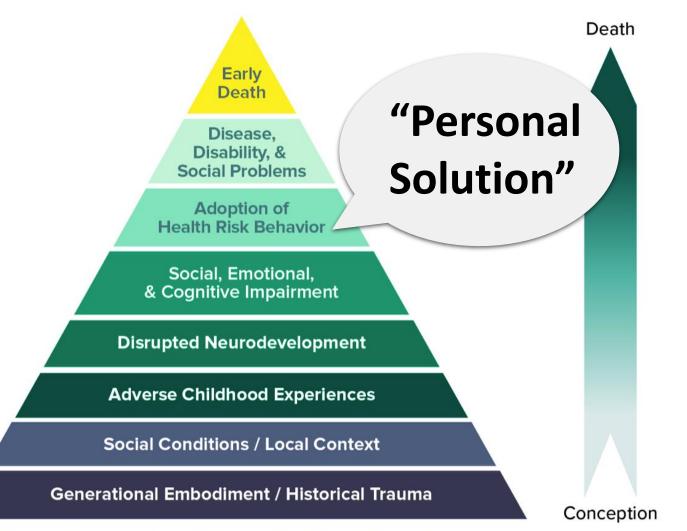
REFRAMING OUR POINT OF VIEW

With an ACE score of 0, the majority of adults have few, if any, risk factors for the most common diseases leading to early death.

With an ACE score of 4 or more, the majority of adults have multiple risk factors for these diseases or the diseases themselves.

Much of what we see as problem behaviors should actually be viewed as a **personal solution** to an unrecognized prior adversity.

The ACE Pyramid



Mechanism by which Adverse Childhood Experiences Influence Health and Well-being Throughout the Lifespan Without accounting for individual levels of resiliency, this pyramid depicts how impacts to health and well-being can occur over a lifetime as a result of exposure to Adverse Childhood Experiences.

The ACE study found links between ACEs and adult health risks, often leading to chronic health conditions.

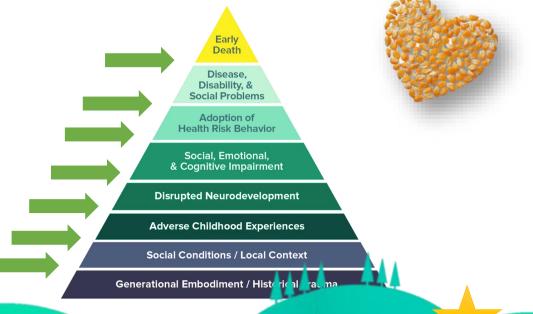
Those with 4 or more ACEs were found to be:

- **12.2x** as likely to have attempted suicide
- 7.4x as likely to consider themselves to be an alcoholic
- **4.7x** as likely to have ever used illicit drugs
- 4.6x as likely to have had 2 or more weeks of depressed mood in the past year
- 3.2x as likely to have had 50 or more intercourse partners, and
- 2.3x as likely to smoke



Let's Talk about Kernels

- Kernels are low or no-cost to evidence-based strategies recognized as fundamental units of behavioral influence.
- This means we can *unleash access* to strategies that support safety, relationship and skill building essential to our client's readiness to grow and learn.
- Kernels give us a way to implement simple but effective practices that interrupt the ACES trajectory, move us from intuition to intention, and improve outcomes.



What else can we do?

Be clear, consistent, predictable, and follow through

Maintain high expectations and assume positive intent, build on success rather than establishing limits

Provide guided opportunities to participate through voice and choice

Focus on the feeling of safety, building trust, and reliability of relationships





4144 444

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AAA AAA

Adverse Childhood Experience (ACE) Categories, by Sexual Orientation: 2012 North Carolina, 2011 Washington, and 2011 and 2012 Wisconsin Behavioral Risk Factor Surveillance System Surveys

ACE Category	Lesbian, Gay, or Bisexual, No.	Heterosexual, No.	Unadjusted OR
	(Weighted %)	(Weighted %)	(95% CI)
Physical abuse	210 (29.7)	4828 (17.0)	2.05 (1.62, 2.61)
Sexual abuse	217 (29.1)	3959 (11.7)	3.11 (2.44, 3.95)
Emotional abuse	328 (43.8)	8101 (28.3)	1.97 (1.57, 2.45)
Parental separation or	220 (34.7)	6849 (27.0)	1.43 (1.14, 1.80)
divorce			
Adult mental illness in	229 (33.2)	4755 (16.8)	2.46 (1.95, 3.10)
household			
Adult substance abuse in	284 (39.8)	8235 (28.0)	1.69 (1.36, 2.11)
household			
Incarcerated household	79 (15.5)	1645 (7.9)	2.15 (1.55, 2.98)
member			

Violence Adverse Childhood Experience (ACE) Score, by Sexual Orientation: 2012 North Carolina, househol 2011 Washington, and 2011 and 2012 Wisconsin Behavioral Risk Factor Surveillance System Surveys

ACE Score***	Lesbian, Gay, or Bisexual, No. (Weighted %)	Heterosexual, No. (Weighted %)
0	183 (26.8)	12 971 (40.4)
1	148 (18.7)	6 663 (23.1)
2	94 (12.2)	3 695 (12.7)
3	82 (11.9)	2 411 (8.7)
4	70 (9.4)	1 697 (6.1)
5	49 (6.5)	1 121 (4.2)
6	41 (6.3)	683 (2.8)
7	36 (5.7)	348 (1.6)
8	8 (2.6)	101 (0.5)

		Hispanic	Non-Hispanic black	Non-Hispanic v	white Tota			
	Children of immigrant parent	ts						
	No. of respondents	7,119	1,608	4,422	13,15	i0		
	Mean no. of adversities	0.79 (0.03)*	0.85 (0.06) ^a	0.63 (0.04	·) 0.77 (0.	.02)		
	0	52.24 (1.28) ^a	51.59 (2.37) ^a	65.27 (1.63	i) 54.59 (0	.97)		
	1	31.11 (1.16)*	27.49 (2.18) ^a	20.33 (1.34				
	≥2	16.65 (1.01)	20.92 (2.03) ^a	14.40 (1.27	[']) 16.72 (0	.77)		
	Individual adversities (% e	xposed)						
	Financial hardship			Poor	Nearly poor	Middle income	High income	Tre
	Parental divorce/sepa			FUUI	Nearly poor	Mildule income	High income	
	Parent died Parent served time in	Children of U.Sborn parents						
lina, ystem	Domestic violence bet	No. of respondents		9,106	12,213	23,134	27,234	
	Victim or witness of ne	Mean no. of adversities	1	1.71 (0.04) ^a	1.39 (0.03) ^a	0.90 (0.02)*	0.47 (0.01) ^a	
_	Household member w	Individual adversities (% exp						
		Hispanic	Non-Hispanic black	Non-Hisp	anic white	Total	5.85 (0.36) ^a	
Children of U	.Sborn parents							
	•						14.54 (0.57) ^a	
No. of resp	ondents	5,724	8,011	57	,952	71,687	1.75 (0.24) ^a	
Mean no. o	of adversities	1.26 (0.05) ^{a,b}	1.27 (0.03) ^{a,b}	0.90) (0.01) ^b	1.01 (0.01) ^b	2.05 (0.18)	
0		42.45 (1.66) ^{a,b}	37.40 (1.04) ^{a,b}	54.84	(0.44) ^b	50.38 (0.41) ^b	2.96 (0.24)	
1		26.39 (1.52) ^b	29.97 (1.04) ^a	23.63	(0.39) ^b	25.04 (0.37) ^b		
≥2		31.16 (1.52) ^{a,b}	32.63 (1.06) ^{a,b}	21.54	(0.39) ^b	24.58 (0.37) ^b	3.96 (0.27)	
Individual a	adversities (% exposed)						6.08 (0.34)	
Financia	I hardship	30.56 (1.49) ^a	30.54 (1.01) ^a	23.23	(0.39) ^b	25.43 (0.38) ^b	7.03 (0.32) ^a	1
Parental	divorce/separation	26.32 (1.42) ^{a,b}	23.35 (0.98) ^b	22.01	. (0.39) ^b	22.76 (0.36) ^b	2.41 (0.22) ^a	
Parent d	lied	3.32 (0.48) ^b	6.50 (0.59) ^a	2.59	(0.15) ^b	3.34 (0.16) ^b	_	_
Parent s	erved time in jail	11.37 (1.09) ^{a,b}	12.54 (0.75) ^{a,b}	6.10	(0.22) ^b	7.83 (0.24) ^b		
Domesti	c violence between paren	ts 12.97 (1.13) ^{a,b}	8.99 (0.66) ^a	6.44	(0.23)	7.66 (0.24) ^b		
Mantana	r witness of neighborhood	violence 10.64 (0.91) ^{a,b}	16.92 (0.85) ^{a,b}	6.92	? (0.26)	9.07 (0.26) ^b		
Victim or		10.02 (0.06) ^b	8.80 (0.61) ^b	9.86	(0.28) ^b	9.81 (0.25) ^b		
	old member with mental il	Iness 10.92 (0.96) ^b						
Househo	old member with mental il alcohol problem in housel		10.92 (0.72) ^b	11.87	′ (0.30) ^b	11.98 (0.28) ^b		

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Remember the Shift!

1114

YOU CAN'T CHANGE JUDGING PEOPLE NEED FIXING FIRST	POWER WITH
	YOUR BRAIN IS 'PLASTIC'
OPERATE FROM THE DOMINIANT OUI TUDE	OBSERVING
OPERATE FROM THE DOMINANT CULTURE	PEOPLE NEED SAFETY FIRST
PEOPLE ARE OUT TO GET YOU	CULTURAL HUMILITY
RIGHT/WRONG	PEOPLE CAN LIVE UP TO THE TRUST YOU GIVE THEM
	MULTIPLE VIEWPOINTS
"YOU'RE CRAZY!"	LEARNING
COMPLIANCE/OBEDIENCE	"IT MAKES SENSE"
NEED-TO-KNOW BASIS FOR INFO	EMPOWERMENT/COLLABORATION TRAUMA
PRESENTING ISSUE	
	WHOLE PERSON AND HISTORY WE'RE ALL IN THIS TOGETHER INFORME
"US AND THEM"	
LABELS, PATHOLOGY	BEHAVIOR AS COMMUNICATION
FEAR-BASED	EMPATHY-BASED CARE
I'M HERE TO FIX YOU	SUPPORT HEALING
DIDACTIC	PARTICIPATORY
PEOPLE MAKE BAD CHOICES	PEOPLE WHO FEEL UNSAFE DO UNSAFE THINGS
	BEHAVIOR VIEWED AS SOLUTION
BEHAVIOR VIEWED AS PROBLEM	WHAT HAPPENED TO YOU?
WHAT'S WRONG WITH YOU?	RESPECT
BLAME/SHAME	GOAL IS TO CONNECT
GOAL IS TO DO THINGS THE 'RIGHT' WAY	
PRESCRIPTIVE	PEOPLE ARE DOING THE BEST THEY CAN CONSIDER ALSO LIVED EXPERIENCE
PEOPLE ARE BAD	CONSIDER ALSO LIVED EXPERIENCE
CONSIDER ONLY RESERCH AND EVIDENCE	

Resources

CWC	www.snocochildrenswellnesscoalition.com
Kernels:	http://promiseneighborhoods.org/kernels/ Or http://bit.ly/embry_kernels
ACES:	http://www.cdc.gov/ace/index.htm Or http://www.acestudy.org/ Or http://www.fpc.wa.gov/ Or http://www.acestoohigh.com
ARC Training:	http://www.traumacenter.org/research/ascot.php

