Relational Care and Helping Children Heal from Trauma

Moira Szilagyi, MD, PhD, FAAP

AAP Past President Professor, UCLA Mattel Children's Hospital, Department of Pediatrics Division Chief, Developmental Behavioral Pediatrics



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Disclosures



I do not have any relevant financial relationships with the manufacturer(s) of any commercial product(s) and/or provide commercial services discussed in this CME activity. I do receive annual royalties for two chapters in UptoDate and for my role as co-author of a textbook, Childhood Trauma & Resilience, published by the AAP.



I do not intend to discuss an unapproved/investigative use of a commercial product/device in our presentation.

Learning Objectives

- Recognize the effects of trauma and how it hijacks typical brain development
- Understand the importance of relationships in healing and resilience after trauma
- Establish a partnering relationship with parents so their safe, stable, nurturing caregiving can promote child resilience
- Adopt a few strategies to promote resilience of children with trauma histories

Why is Trauma-informed Care Important?

- High prevalence: 48-90% of children in US
- Cumulative childhood adversities alter our biology, and can negatively affect our lifelong health
- Something we can (and should) do about it as pediatricians
- Evidence-informed: derived from research in other fields
 - Attachment
 - Parenting
 - Resilience
 - Brain development (neuroscience)
 - Epigenetics
 - Evidence-based, Trauma-informed Mental Health Care



My Personal Journey Occam's Razor: The Law of Parsimony

- Children entering foster care
 - High prevalence of abuse and neglect, and of developmental, mental health, behavioral, academic and physical health problems
- Mental, behavioral health (80% of children > 5 y screen +)
 - Multiple diagnoses: ADHD, ODD, Bipolar Disorder, Conduct Disorder, Adjustment Disorder, etc.
 - Psychotropic medications, sometimes multiple
- High rates of developmental problems (60% of children < 5 y screen +)
- Improvements, sometimes dramatic, especially younger children and sometimes teens

The Adverse Childhood Experiences (ACE) Study

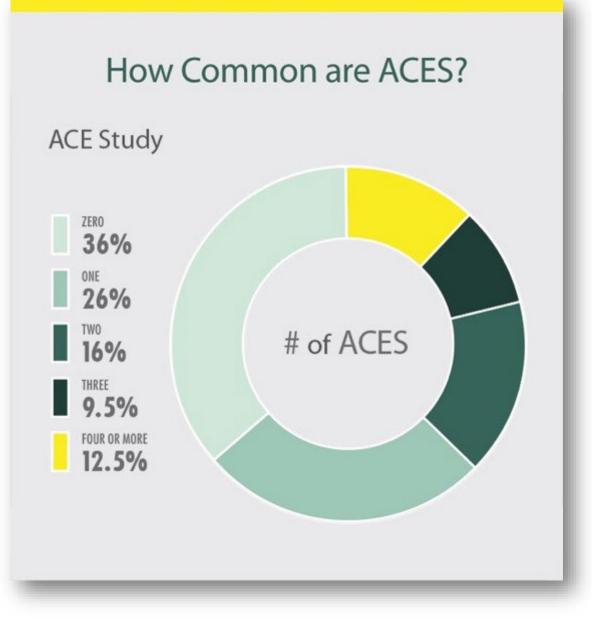
HOUSEHOLD DYSFUNCTION ABUSE NEGLECT Physical Physical Mental Illness Incarcerated Relative Emotional Emotional Mother treated violently Substance Abuse Sexual Divorce

Robert Wood Johnson Foundation, 2013

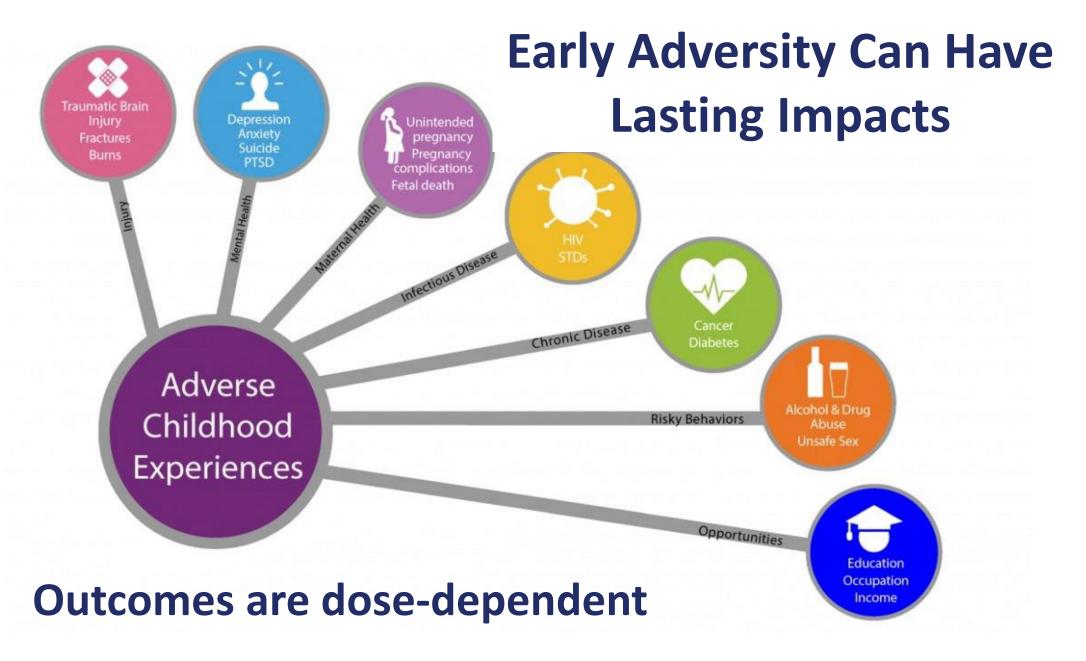
From The Adverse Childhood Experiences Study. <u>http://www.acestudy.org/ace_score,</u> 2015

Findings from Original ACE Study

- Nearly 2/3's of a relatively low risk population from Kaiser Health recalled at least one childhood adversity
- 12.5% recalled 4 or more



www.CDC.gov



www.CDC.gov

Other ACEs

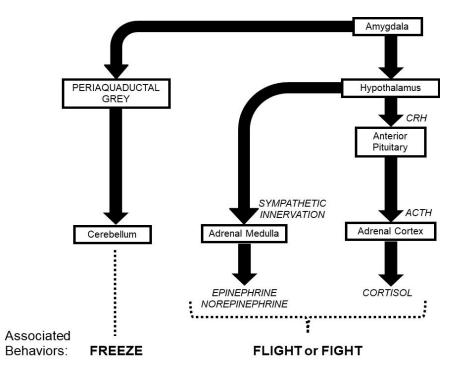
Negative Effects on Children and Teens



- Racism or felt discrimination
- Being bullied (physically/emotionally)
- Family disruption (unexpected; immigration; foster care)
- Dire poverty
- Significant community violence
- Migration, especially forced
- Foster care

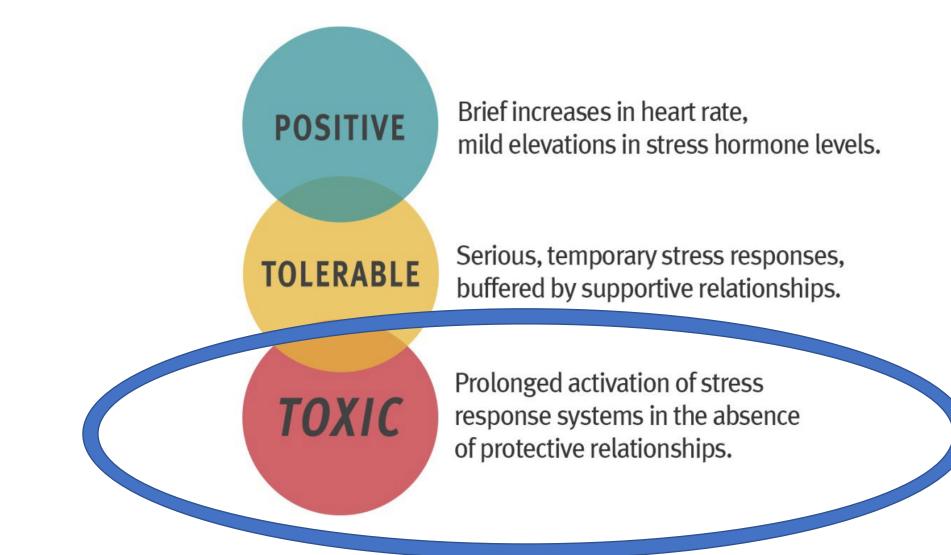
"What happens in childhood doesn't stay in childhood." ~Andy Garner, MD

Neurohormonal Stress Response



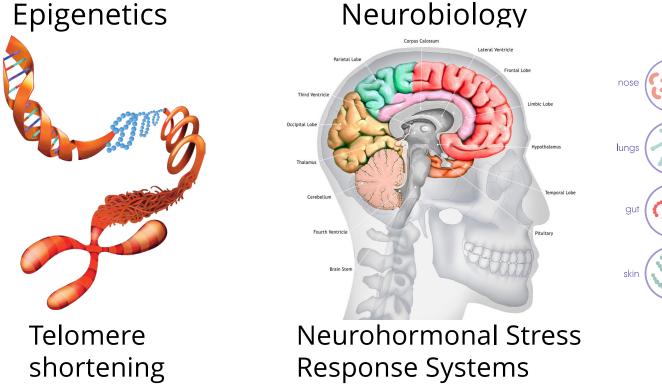
Source: Garner AS, Saul RA. *Thinking Developmentally: Nurturing Wellness in Childhood to Promote Lifelong Health*. Itasca, IL: American Academy of Pediatrics; 2018

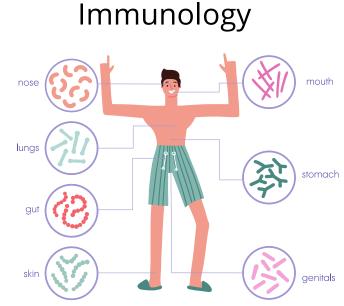
Taxonomy of Stress



https://developingchild.harvard.edu/science/key-concepts/toxic-stress/

Toxic stress can potentially change outcomes through 6 mechanisms:

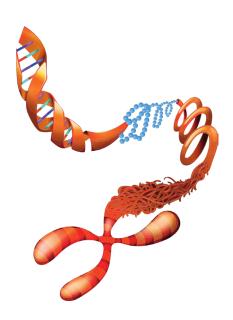




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Microbiome
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Trauma Affects Gene Expression: Children adapt to the dangerous world they live in

- Epigenetics is the science of gene expression.
- Research: trauma activates the neurohormonal stress responses that determine which genes are turned on or off
- Specific genes can be turned on or off for a short time or forever, depending on the gene. Some of these changes can also be passed down the generations.
- Changes in gene expression are how we adapt to the environment we live in—a child who lives in a dangerous environment is going to have a different pattern of gene expression than they would in a nurturing environment



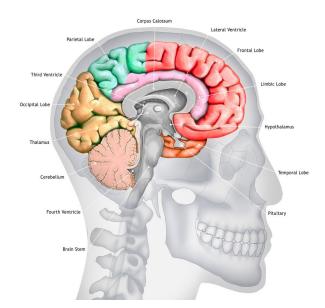


Toxic stress can potentially change outcomes through 6 mechanisms:

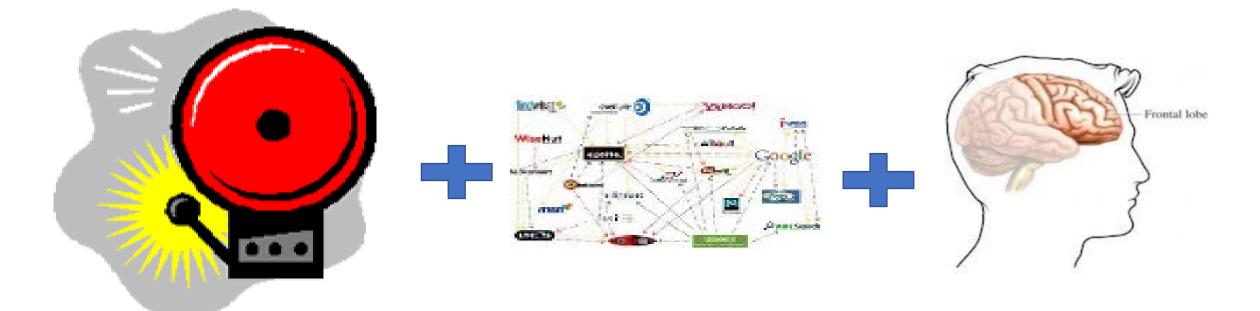
Neurobiology

Immunology

Epigenetics



Architecture of the Brain



Amygdala

Lower Brain Alarm system Emotional memory

Hippocampus

Midbrain Memory& learning Search engine, file cabinet **Prefrontal cortex**

Regulation of impulses, attention, emotions Working memory Cognitive flexibility

Developmental Trauma Disorder

Trauma in early childhood, without buffering, impacts development of competencies that are dependent on that buffering.

Social-Emotional





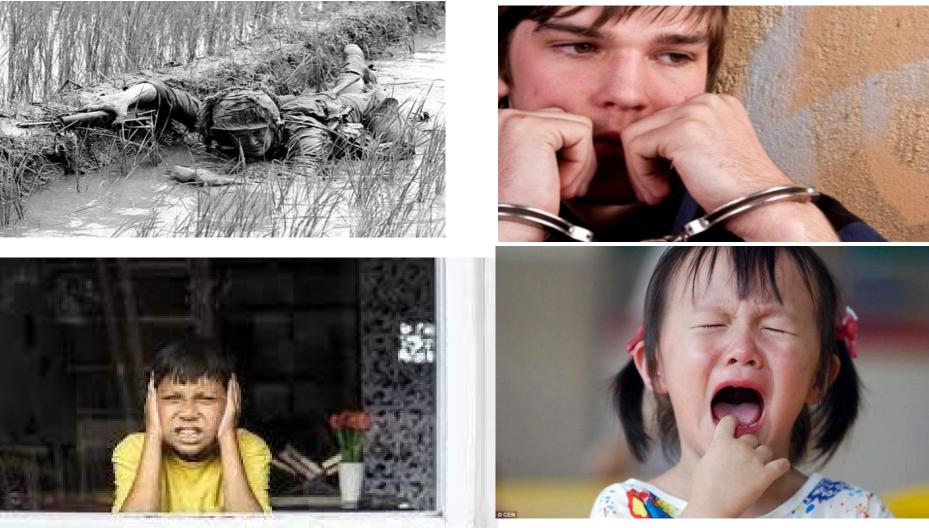
Language Development

Gross Motor



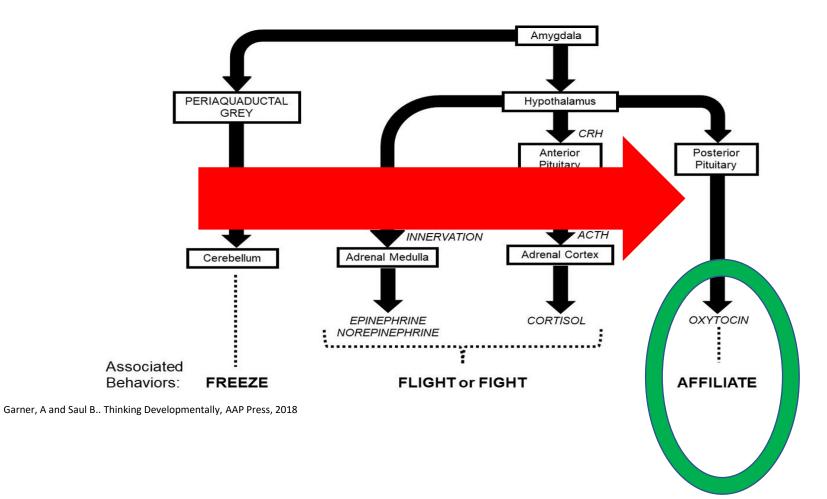


What trauma looks like in children...

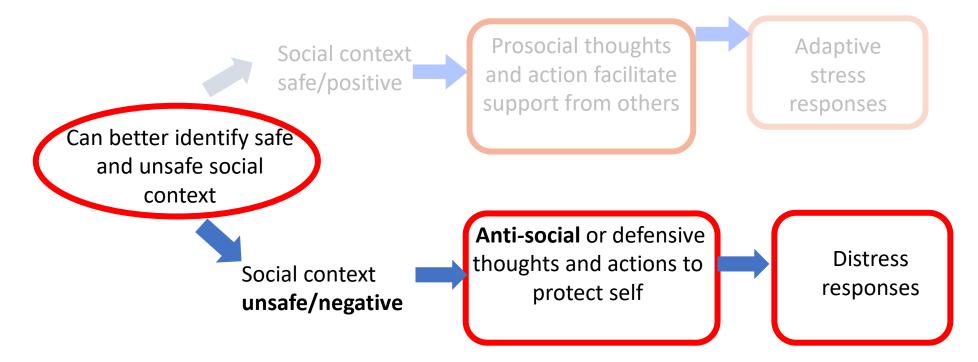


Developmental Trauma Disorder

Oxytocin: Favors Affiliate Response

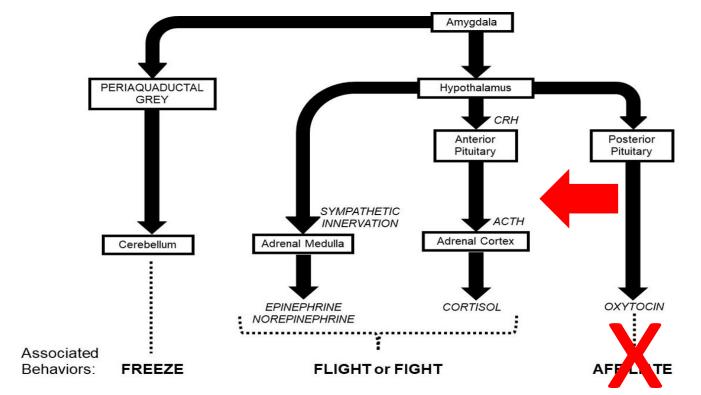


What Happens When No or Negative Social Response?



Source: Adapted from Olff, M., Frijling, J. L., Kubzansky, L. D., et al. The role of oxytocin in social bonding, stress regulation and mental health: An update on the moderating effects of context and interindividual differences. *Psychoneuroendocrinology*, *38*(9), 1883-1894. doi:10.1016/j.psyneuen.2013.06.019

Affiliate Response Meets Negative Cues



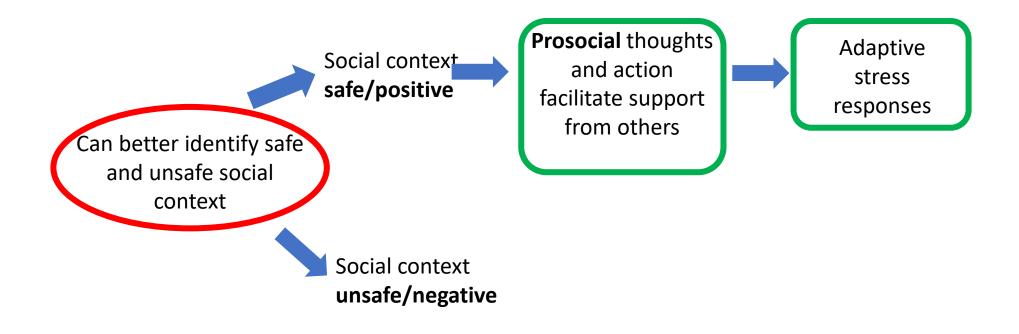
Garner, A and Saul B.. Thinking Developmentally, AAP Press, 2018

But, the presence of a nurturing caregiver = SAFETY





Oxytocin Promotes Focusing Your Attention



Source: Adapted from Olff, M., Frijling, J. L., Kubzansky, L. D., et al. The role of oxytocin in social bonding, stress regulation and mental health: An update on the moderating effects of context and interindividual differences. Psychoneuroendocrinology, 38(9), 1883-1894. doi:10.1016/j.psyneuen.2013.06.019

Resilience

Definition (courtesy of Anne Masten, PhD)

Dynamic process of *positive adaptation* to or in spite of significant adversities;

- Dynamic: dependent upon interaction of our genes with our environment
- Developmental: occurs over time



Resilience Promotion: Ordinary Magic

For children, the pathways to resilience develop in the give and take of safe, stable and nurturing relationships that are continuous over time (attachment)



Resilience Promotion: Ordinary Magic

And it develops in the growth that occurs through play, exploration and exposure to a variety of normal activities and resource



Newer Conceptualization of Resilience: The Biology of Resilience Development

- Oxytocin: the affiliate hormone
- Affiliate structures and pathways of the brain—extend from the amygdala to the prefrontal cortex
- Biobehavioral synchrony between caregiver and child





THREADS: The 7 Personal Resiliency Factors

- Thinking and learning brain
- Hope, optimism, faith
- Regulation or self-control
- Efficacy (self-efficacy)
- Attachment: secure
- Developmental skill mastery
- Social connectedness







The remarkable power of the ordinary in human development

Safe, Stable, Nurturing Caregiver

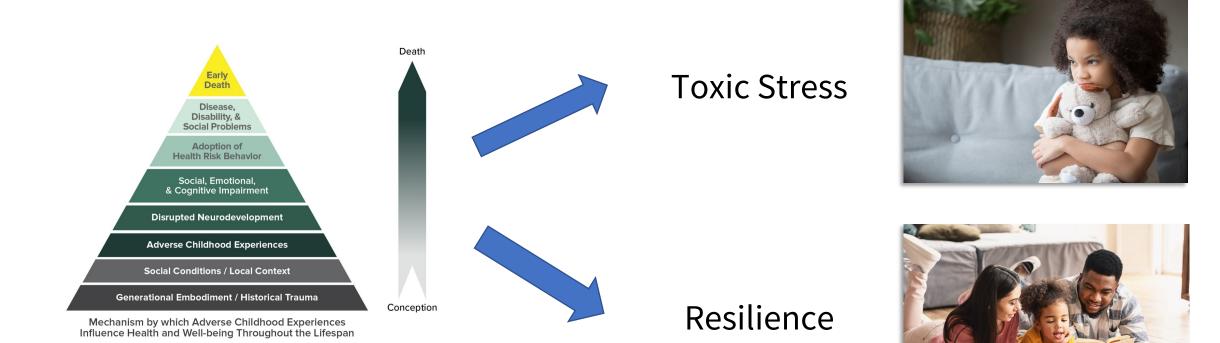


Provides Vital Functions	
Protection and Safety	secure base to safely explore the world and relationships
Sense of Self	see self interpreted and reflected by attachment figure
Self in Relation to Others	foundation of social learning, understanding ourselves as a person in relation with others
Developmental Mastery	of age-salient developmental tasks
Self-efficacy	sense of control over our environments and future

Safe, Stable, Nurturing Caregiver

Provides Context	
Emotional Regulation	soothing by parent dampens stress response, restoring a <i>feeling of security</i> ; over two decades the parent models and co-regulates as we integrate these skills
Executive Function	initially provided by and then modeled and co-managed by caregiver until we eventually integrate into self

Cumulative Adversity: Different Outcomes



Childhood adversity is not destiny...







What is Trauma-informed Care?

Trauma-informed care is defined by the National Child Traumatic Stress Network as health care in which all parties involved assess, recognize, and respond to the effects of traumatic experiences on children, caregivers, and healthcare providers.

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What is wrong with you?



What is Traumainformed Care?

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What is wrong with you?

What happened to you?



What is Traumainformed Care?

Trauma-informed care is defined by the National Child Traumatic Stress Network as medical care in which all parties involved recognize, assess and respond to the effects of traumatic experiences on children, caregivers, and healthcare providers.

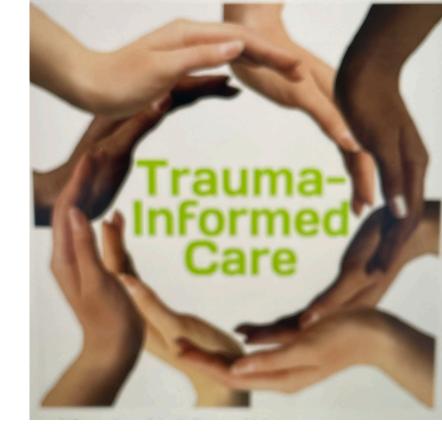
What is wrong with you? What happened to you? What is strong with you?





Trauma-Informed Care: American Academy of Pediatrics

- Universal approach to care
- Relational care (affiliate network)
 - Resilience promoting
 - Trauma aware and responsive
 - Culturally humble
 - Anti-racist



By its nature: Asks us to reflect on our own biases, implicit and explicit, and to be aware of how they affect our interactions with families and children. TIC requires us to seek and understand the perspectives of others.

Garner & Yoghman. Toxic Stress PS. 2021; NCTSN TIC is Anti-Racist

3 Core Principles of Development

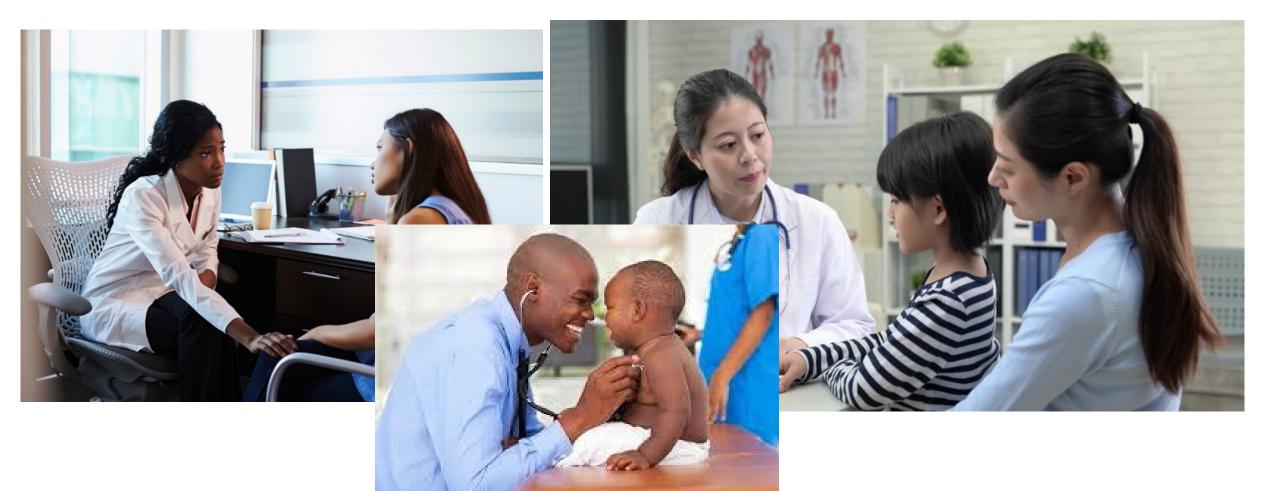


Support Responsive Relationships

Reduce Stressors Strengthen Core Skills

Ref: Harvard Center for the Developing Child

Engagement & trust require safety



Empathy provides safety

Engagement

- Greeting
- Asking caregiver (or older child/teen) to share concerns

C

- Be present
- Open-ended questions (MI)
- Attuned, attentive listening
- Reflect back what hear
- Partnering
 - Ask for their ideas
 - Suggest ideas but adjust



3 Core Principles of Development

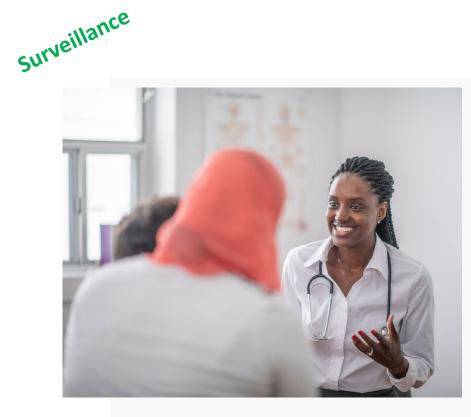


Support Responsive Relationships

Reduce Stressors Strengthen Core Skills

Ref: Harvard Center for the Developing Child

"Getting to know you...getting to know all about you"



- Tell me about your family.
- Are you raising your child(ren) the same way you were raised?
- Help me understand what is important to you about parenting or raising children?
- What do you find rewarding or stressful about parenting?
- Are you & your partner/supports on the same page?
- Has anything bad or scary happened to you or your child ever/since I last saw you?

"Assume the parent and child are doing the best they can." ~Ross Greene, PhD

The THREADS of Resilience are FRAYED by Excessive Stress from Adversity or Trauma



You are at the end of your rope:

- Frets and Fear
- Regulation difficulties
- Attachment relationship concerns
- Yelling and yawning
- Educational and developmental delays
- Defeated/dissociation/depressed

Screening (validated)

- Maternal Depression Inventory
- Developmental Screens
 - SWYC (Free)
 - Ages & Stages (Proprietary)
- Mental and Behavioral Health Screens
 - Pediatric Symptom Checklist
 - Strengths and Difficulties Questionnaire
 - Depression
 - Anxiety (SCARED)
 - Suicidality
- Traumatic Stress Symptoms
 - PTSST

"If you hear symptoms, think trauma. If you hear trauma, think symptoms."

~ Heather Forkey, MD

Pediatric Traumatic Stress Screening Tool

Pediatric Traumatic Stress Screening Tool 6–10 years of age

Sometimes violent or very scary or upsetting things happen. This could be something that happened to your child or something your child saw. It can include being badly hurt, someone doing something harmful to your child or someone else, or a serious accident or serious illness.

If 'Yes,' what happened?

Has something like this happened to your child in the past? 🗖 Yes 👘 No

If 'Yes,' what happened? _____

	ect how often your child had the problem below in the past month. the calendars on the right to help you decide how often.		ENCY			N D A RS
н	ow much of the time during the past month	None	Little	Some	Much	Most
1	My child has bad dreams about what happened or other bad dreams.	0	1	2	3	4
2	My child has trouble going to sleep, waking up often, or has trouble getting back to sleep.	0	1	2	3	4
3	My child has upsetting thoughts, pictures, or sounds of what happened come to mind when he/she doesn't want them to.	0	1	2	3	4

- Brief
- Validated in Primary Care
- Has predictive value
 - Cut-off scores
- Available online, free
- 6-18 yrs
 - Parent report 6-18 yrs
 - Self-report 11+ years
- English and Spanish
- Implementation strategy

Pediatric Traumatic Stress Screening Tool

Visual patterns of responses help indicate symptom severity level.

Mild

FREQUENCY RATING CALENDARS

Select how often you had the problem below in the past month
Use the calendars on the right to help you decide how often.

н	ow much of the time during the past month	None	Little	Some	Much	Most
1	I have bad dreams about what happened or other bad dreams.	V	1	2	3	4
2	I have trouble going to sleep, waking up often, or getting back to sleep.	\checkmark	1	2	3	4
3	I have upsetting thoughts, pictures, or sounds of what happened come into my mind when I don't want them to.	0	N	2	3	4
4	When something reminds me of what happened I have strong feelings in my body, my heart beats fast, and I have headaches or stomach aches.	V	1	2	3	4
5	When something reminds me of what happened I get very upset, afraid, or sad.	0	V	2	3	4
6	I have trouble concentrating or paying attention.	0	Ň	2	3	4
7	I get upset easily or get into arguments or physical fights.	_0/	1	2	3	4
8	I try to stay away from people, places, or things that remind me about what happened.	V	1	2	3	4
9	I have trouble feeling happiness or love.	0	_V	2	3	4
10	I try not to think about or have feelings about what happened.	2/	1	/ 2	3	4
11	I have thoughts like "I will never be able to trust other people."	V	1	2	3	4
12	I feel alone even when I'm around other people.	0	0 1 2		3	4
13	Over the last 2 weeks, how often have you been bothered by thoughts that you would be better off dead or hurting yourself in some way?		Seve	tha	Aore in half e days	Nearly every day

Moderate

EREQUENCY RATING CALENDARS

		FREQUENCT KATTING CALENDA					
	ect how often you had the problem below in the past month. the calendars on the right to help you decide how often.	5 M T W H F 5	SMTWHPS	SMTWHFS	SMTWHFS	SMTWHPS	
н	ow much of the time during the past month	None	Little	Some	Much	Most	
1	I have bad dreams about what happened or other bad dreams.	V	1	2	3	4	
2	I have trouble going to sleep, waking up often, or getting back to sleep.	0	V	2	3	4	
3	I have upsetting thoughts, pictures, or sounds of what happened come into my mind when I don't want them to.	0	V	2	3	4	
4	When something reminds me of what happened I have strong feelings in my body, my heart beats fast, and I have headaches or stomach aches.	0	1	\checkmark	3	4	
5	When something reminds me of what happened I get very upset, afraid, or sad.	0	V	2	3	4	
6	I have trouble concentrating or paying attention.	0	1	v	3	4	
7	I get upset easily or get into arguments or physical fights.	0	1	2	3	4	
8	I try to stay away from people, places, or things that remind me about what happened.	0	.1/	V	3	4	
9	I have trouble feeling happiness or love.	0	V	/ 2	3	4	
10	I try not to think about or have feelings about what happened.	0	-1/	2	3	4	
11	I have thoughts like "I will never be able to trust other people."	0		2	3	14	
12	I feel alone even when I'm around other people.	0	1	2	3	4	
13	*Over the last 2 weeks, how often have you been bothered by thoughts that you would be better off dead or hurting yourself in some way?	Not at all	Seve day	tha	fore in half e days	Nearly every day	

Severe

Select how often you had the problem below in the past month. Use the calendars on the right to help you decide how often.

FREQU	ENCY	RATING	CALE	NDARS
SMTWHFS	SMTWHFS	SMTWHES	SMTWHFS	SMTWHFS
			_	

	nu much of the time during the next menth	None	Little	C	Much	Mark		
п	ow much of the time during the past month	None	Little	some	wuch	Most		
1	I have bad dreams about what happened or other bad dreams.	0	1	2	3	V/		
2	I have trouble going to sleep, waking up often, or getting back to sleep.	0	0 1 2			V		
3	I have upsetting thoughts, pictures, or sounds of what happened come into my mind when I don't want them to.	0	0 1 2		3	V		
4	When something reminds me of what happened I have strong feelings in my body, my heart beats fast, and I have headaches or stomach aches.	0	0 1		3	4		
5	When something reminds me of what happened I get very upset, afraid, or sad.	0	1	2	3	y		
6	I have trouble concentrating or paying attention.	0	1	2	3	y		
7	I get upset easily or get into arguments or physical fights.	0	1	V	3	4		
8	I try to stay away from people, places, or things that remind me about what happened.	0	1	2	V	4		
9	I have trouble feeling happiness or love.	0	1	2	3/	N		
10	I try not to think about or have feelings about what happened.	0	1	2	V	4		
11	I have thoughts like "I will never be able to trust other people."	0	1	2	V/	4		
12	I feel alone even when I'm around other people.	0	1	2	V	4		
13	*Over the last 2 weeks, how often have you been bothered by thoughts that you would be better off dead or hurting yourself in some way?	Not at all	Seve	tha	lore n half days	Nearly every day		

Symptom screening: MH or behavioral

Pediatric Traumatic Stress Screening Tool 6–10 years of age

Sometimes violent or very scary or upsetting things happen. This could be something that happened to your child or something your child saw. It can include being badly hurt, someone doing something harmful to your child or someone else, or a serious accident or serious illness.

Has something like this happened to your child recently?
 Yes
 No

If 'Yes,' what happened?

Has something like this happened to your child in the past?
Yes No

If 'Yes,' what happened? _____

	ect how often your child had the problem below in the past month. the calendars on the right to help you decide how often.					
H	ow much of the time during the past month	None	Little	Some	Much	Most
1	My child has bad dreams about what happener or other bad dreams		Sleep	Prob	lems	
2	My child has trouble going to sleep, waking up over, or her house getting back to sleep.			Both		
3	My child has upsetting thoughts, pictures, or source of whome severed come to mind when he/she doesn't want them to.					
4	When something reminds my child of what happened, he/she has strong feeling; in his/her body, like his/her heart beats fant, hi adaches, or stomach aches.	н	yperv	igilan	ce an	d
5	When something reminds my child of what happened, he/she gets very upset, afraid, or sad.	in	intrusive symptoms			
6	My child has trouble concentrating or paying attention					
7	My child gets upset easily or gets into arguments or physical rights.					
8	My child tries to stay away from people, places, or things the remaind here is about what happened.					
9	My child has trouble feeling happiness or love.		Ανοί	dance	band	
10	My child tries not to think about or have feeling about what happened.					
11	My child has thoughts like "I will never be able to trust other people."		nega	itive n	nood	
12	My child feels alone even when he/she is around other people.					
13	*Over the last 2 weeks, how often has your child been othered by thoughts that he/she would be better off dead or hurting him or buself in some way		S	uicide	Э	
		- 94	lapsed from P	united Wealth	t Queldians	ine (PHG-C)

- Sleep problems
- Intrusive Symptoms & Hypervigilance
- Avoidance & negative mood
- Suicide

ACE Questionnaires



- Designed as population surveys for risks—
 - Not validated as screeners for clinical use
 - No predictive value at individual level
- Deficit-focused—not strengths
- Doesn't assess symptoms (which would inform clinical decision making)
- Potentially re-traumatizing
- Need to be carefully scripted (why, who, what will be done with info, can opt out)

Response to Disclosure

- LISTEN with Empathy: Listen, lean in, make eye contact
- Validate and normalize:
 - "What you/JoJo are feeling (or How JoJo is behaving) is a normal response to what happened; what happened was abnormal and should never have happened."
 - "I am so sorry this happened to you..."
- Ask about what supports they have—who they can talk with
- Ask about what services they have—MH, Evidence-based Trauma Treatment services, etc.
- Take care of survival needs first (reduce stressors): housing, food

3 Core Principles of Development



Support Responsive Relationships

Reduce Stressors

Strengthen Core Skills

Ref: Harvard Center for the Developing Child

Five Steps to Building Resilience

Reassurance of safety Routines Regulation (co-regulation)

Relationship Building Reading the child





Affiliate Approaches

Calming the stress response begins with a connection to a safe adult.

Reassure

Let child know they are safe. This should be said with words, hugs and safe spaces in the home.



Return to Routine

Routines for meals, bedtime, household schedules all help children to know what to expect.

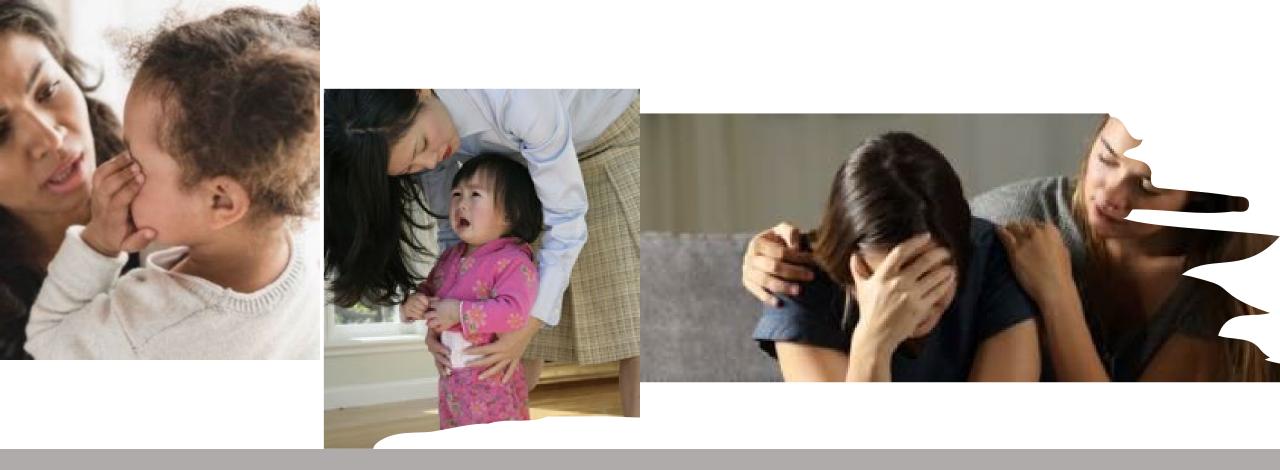
Regulate

Skills to calm self: belly breathing, stretching, relaxation

Skills to name feelings: colors of emotions, words for feelings

Skills for managing emotions





Reassurance: Caregivers Model Calm Behavior Create Zone of Safety and Calm for Child

Children take their cues from their parents & adults around them.

Routines and Rituals

Routines communicate safety and shut down the stress response.

Childcare

Sleep

School

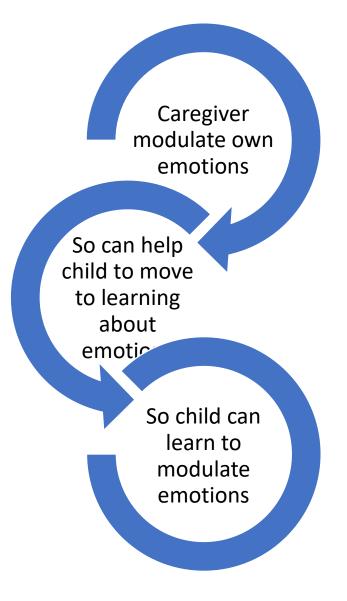






Important to prepare child for transitions or changes in routine.

Regulation





Promoting Self-Regulation Skills



*Figure 9. Employing the evidence-based strategies for toxic stress regulation can help patients reduce stress and build resilience. Reproduced with permission from ACEs Aware.*²⁶

Regulation

Regulation is the act of managing thoughts and feelings to engage in goal directed behavior.

Children have to learn to:

- Identify what they feel, name emotions
- Develop skills to manage emotions
- Calm their stress response



3 Core Principles of Development



Support Responsive Relationships

Reduce Stressors

Strengthen Core Skills

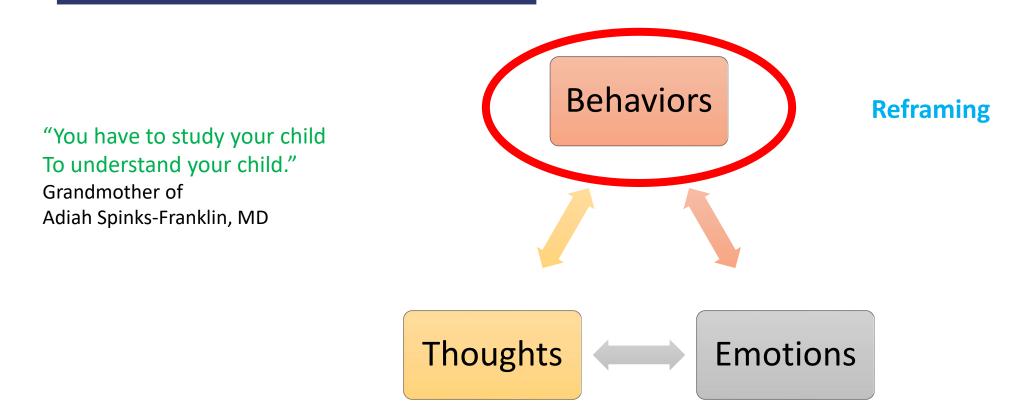
Ref: Harvard Center for the Developing Child



Relationship Building: Special Time In



Reading the Child: The Cognitive Triangle What do Child Behaviors Tell Us?



Caregiver helps child develop the language (thus identification) of emotions...

Enraged	Panicked	Stressed	Jittery	Shocked	Surprised	Upbeat	Festive	Exhilarated	Ecstatic	
Livid	Furious	Frustrated	Tense	Stunned	Hyper	Cheerful	Motivated	Inspired	Elated	
Fuming	Frightened	Angry	Nervous	Restless	Energized	Lively	Excited	Optimistic	Enthusiastic	HIGH ENERGY
Anxious	Apprehensive	Worried	Irritated	Annoyed	Pleased	Focused	Нарру	Proud	Thrilled	
Repulsed	Troubled	Concerned	Uneasy	Peeved	Pleasant	Joyful	Hopeful	Playful	Blissful	Ļ
Disgusted	Glum	Disappointed	Down	Apathetic	At Ease	Easygoing	Content	Loving	Fulfilled	Î
Pessimistic	Morose	Discouraged	Sad	Bored	Calm	Secure	Satisfied	Grateful	Touched	
Alienated	Miserable	Lonely	Disheartened	Tired	Relaxed	Chill	Restful	Blessed	Balanced	LOW ENERGY
Despondent	Depressed	Sullen	Exhausted	Fatigued	Mellow	Thoughtful	Peaceful	Comfortable	Carefree	
Despairing	Hopeless	Desolate	Spent	Drained	Sleepy	Complacent	Tranquil	Cozy	Serene	Ļ
	l	OW PLEASANTNES	is		+	Н	GH PLEASANTNE	ss———	>	



Brackett, M. Permission to Feel. 2019

READING: Teaching the language of emotions

Literacy



Builds understanding of how child thinks

Teach language of emotions



Parent-child relationship



Teachable Moments

The Importance of Play

Learning, growth, and healing after trauma

Ginsburg KR, AAP Committee on Communications and Committee on Psychosocial Aspects Child & Family Health. Clinical Report: The Importance of Play in Promoting Healthy Child Development and Maintaining Strong Parent-Child Bonds. Pediatrics. 2007. 119:183-191.

- Vital to cognitive, physical, social and emotional development and wellbeing of children
- United Nations recognizes play as a human right for children
- Uses creativity as imagination develops
 - Helps them master their world and conquer their fears
 - Calming
 - Practice adult roles
 - Work in groups (affiliate network)
 - Resolve conflicts
 - Develop self-advocacy skills
- Parents can learn how their child perceives the world, thinks and learns

Referrals, Monitoring, Follow-up, Care Coordination

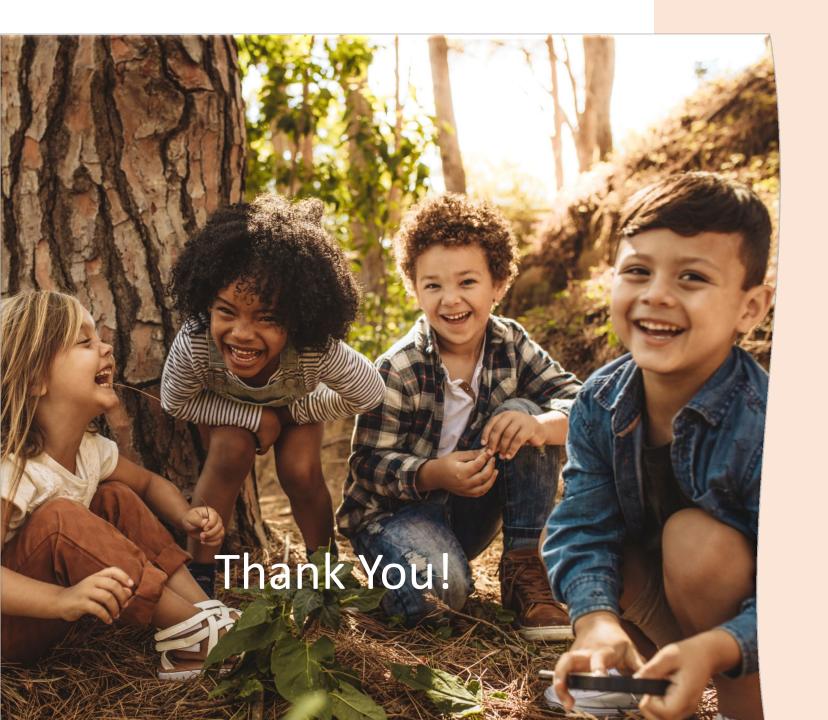
- Referrals (Develop resources and network of care)
 - Community based programs (reduce stressors)
 - Integrated MH/ Community-based MH (maternal depression, child MH problem)
 - Early Intervention (DD)
 - School: learning assessment if indicated
 - Evidence-based Trauma-Informed MH: know the resources in your community (CBT, PCIT, PCP)
- Monitoring and follow-up: check back in (phone, TH, in person)
- Care Coordination

Parents are the Magicians of Ordinary Magic

We are their assistants!

- Use our continuity of care to build caregiver knowledge and skills over time.
- Focus on attachment relationship as the context of building or rebuilding child and family resilience.





It is easier to build a strong child than to fix a broken man. ~Frederick Douglass

AAP Trauma-Informed Care Resources



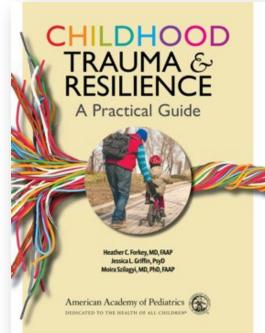
Adverse Childhood Experiences and the Lifelong Consequences of Trauma

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- <u>Trauma-informed care page</u> aap.org
- Preventing Childhood Toxic Stress: Partnering With Families and Communities to Promote Relational Health policy statement ; Trauma-Informed Care policy statement, Trauma-Informed Care in Child Health Systems clinical report
- (PATTER) Project video case vignette series and provider infographics. www.AAP.org/PATTER
- Screening, Technical Assistance and Resource (STAR) Center
- <u>ScreeningTime.org</u> for perinatal depression, social determinants of health, etc.
- *Promoting Relational Health: Implementing a Public Health Approach in Primary Care* <u>webinar</u> with Andrew Garner, MD, PhD, FAAP
- Trauma Toolbox for Primary Care (Spanish and English)
- Trauma coding fact sheet

Other:

- Utah Intermountain Health. Pediatric Traumatic Stress Screening Tool. https://intermountainhealthcare.org/ckr-ext/Dcmnt?ncid=529796906
- Reference: Feldman, R. What is resilience: an affiliative neuroscience approach. World Psychiatry. 2020; 19:132-150.



Thank You