We Can't Wait Conference

The Early Child Development and Mental Health

Pradeep Gidwani, MD, MPH September 28, 2023

1

Disclosures

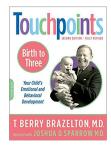
- I have no disclosures (CME requirement)
- I am committed to everyone reaching their fullest potential
- I want to create a field called Nurturology
- Neurobiology of the Developing Child from We Can't Wait 2020 https://www.youtube.com/watch?v=uFcdXi5tLly

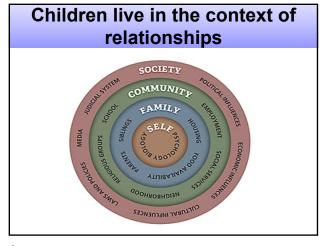
2

Inspired by T. Barry Brazelton, MD

His advice for frazzled new parents: "I'd like for them to learn that they can understand that baby by watching the baby's behavior."

- Touchpoints are periods, during the first years of life during which children's spurts in development result in disruption in the family system.
- The succession of touchpoints in a child's development is like a map that can be identified and anticipated by both parents and providers.







5

We See the World Through Our Lens and Filters

- Experience
 - Personal
 - Family
 - Cultural (Current and Historical)
 - Cultural Context
- Expectations
- Beliefs
- · Memories
- Stories

My Experiences - Career

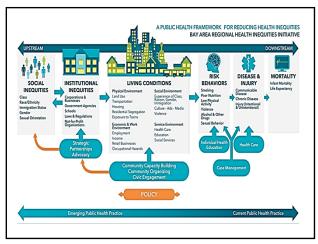
- First trip back to India 5 years old (1st Generation Immigrant)
- Returned at 7, 9, 11, 13 and 17 (Overt Inequality)
- Tight-knit Progressive Indian Community (No native language)
- Mother 1st surgeon at the Cleveland Clinic (Women's rights)
- College Anthropology Major (Covert Inequality)
- · Field Working for the CDC in STD Prevention
- · Congressional Commission Infant Mortality
- Pediatric Residency Population Health (2nd Generation MD)
- Fellowship and MPH Research in Boston
- Asthma work and Chronic Illness in San Diego
- · Development and Behavioral Services in San Diego
- Yoga Teacher Training
- Studied with don Miguel Ruiz (Neurosurgeon and Shaman)

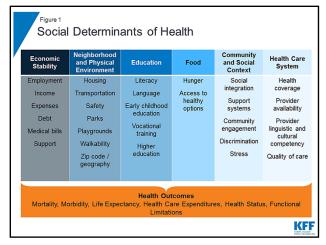
7

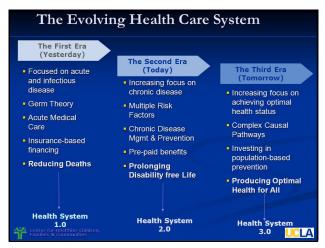
My Lens and Filters

- Relationships are central (especially family)
- Resilience
- Indian(ish)
- Cultural
- Inequality and justice race/ethnicity and gender
- Clinical Western (Allopathic) trained open to other traditions studied TCM/Ayurvedic/Energy Medicine
- Developmental Attachment Regulation
- Trauma Post Traumatic Growth Healing
- · Family Support/Strengths based
- · Nurture throughout the lifespan

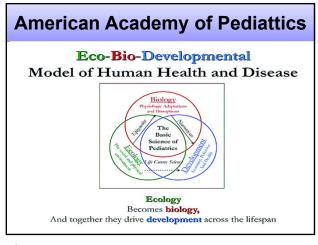
8



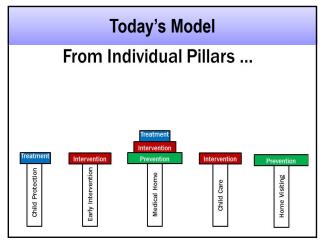




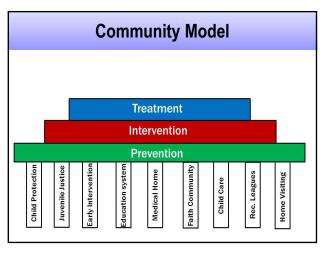
11







14



Where to Start in Practice?

- · Relationships as a vital sign
 - safe, stable, and nurturing relationships (secure attachment)
 - Social-emotional surveillance at every visit because the quality of the early parent-child relationship is fundamental
- · Communicating with Families
 - Discuss with parents and caregivers the power of relationships to proactively build the critical socialemotional-language skills that buffer toxic stress
 - Emphasize that early relationships need to be "safe, stable, and nurturing" or "Protect, Relate, and Nurture" – PRN all the time (PRN is medical lingo for as needed)

16

An Early Brain and Child Development Agenda

- · Promote healthy relationships
- Promote the healthy early childhood foundations for life course health
- Promote kindergarten readiness and lifelong success
- Decrease toxic stress effects on health and developmental trajectories
- Strengthening the systems and community supports to address the social determinants of health



17

What do babies and young children need? No More Toxic Tub Straight again at Francisco Straight against a straight against aga

Nurture

- To care for and to encourage the growth or development of
- Occurs when a parent or caregiver is available and able to sensitively respond to and meet the needs of their child



Available, Attuned, and Interested Parents and Caregivers

19

Nurturing Relationships are Inborn



20

Nurturing Relationships are Love in Action



Nurturing Relationships Builds

- Better brains
- · Healthy attachment
- · SE intelligence
- · Self regulation
- Resilience

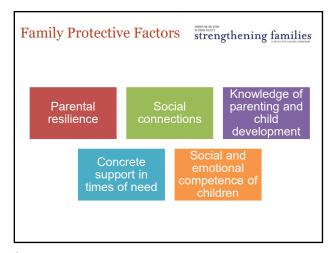


Relationships + Regulation = Resilience

22

Focus - Adults who Care for Children If we really want to achieve Build Adult breakthrough outcomes for Capabilities children experiencing toxic mprove Child stress, then we Outcomes have to transform the lives of the adults who care for them. Center for the Developing Child

23



Moms in the Fourth Trimester The Golden Months

- Needs 1 3 months to recover nutritionally, hormonally
- · Needs mothering
 - Rest -- sleep when baby sleeps
 - Resting moms have less postpartum depression
 - Support
 - · Apprenticeship
 - · A Little Information
 - · Traditional diets
- · Help with sleep, fussy baby, emotional issues and fall in love with baby

25

What Can We Do?

- · Strengthen parenting
- · Identify family needs
 - Health leads, medical-legal partnership, nutrition assistance
- · Connect to community resources
- Advocate at state, federal levels
 - Minimum wage
 - Welfare reform
 - Preschool education investment
 - Affordable Care Act implementation, including Medicaid changes

26

Normal Interactions

- · Cues and quality of interactions
 - Moments of Meaning and Joy
 - -Rupture and Repair
 - Rupture without Repair
- · Attachment and Attunement
- Temperament
- · Co-regulation leads to self-regulation
- How to play
- · Behavioral limit setting

Supports for Parents

- · Rest and Respite
- Nutrition
- · In home help Doulas, home visits
- · Connection with other parents and grandparents
- Specific help with critical events (divorce, foster care, incarceration, grief and loss, unemployment)
- · Quality Universal and Therapeutic daycare and preschool
- · Training all parents, professionals and society on ECMH issues
- Improved supportive messaging
- Healthier communities with better nutrition, exercise, atmosphere, and reduced toxicity

28

Case for Income Supports

Panel Study of Income Dynamics over >30 years

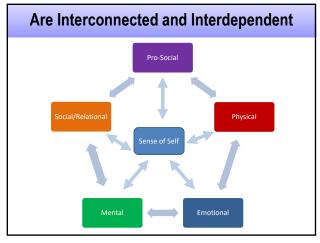
Analyses modeled effects of adding \$3,000 income to households with <\$25,000 per year, controlling for wide variety of non-income variables

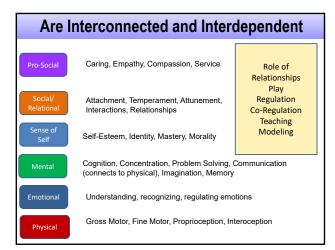
- Income and related programs:
 - 17% increase in annual earnings
 - · 152 more work hours per year
 - Marked decrease in food stamp use as adults
- Health outcomes (mid-late 30s) -reductions in:
 - Obesity20%
 - Hypertension 29%
 - Arthritis45%
 - Work-limiting chronic conditions 33%

Duncan et al., Child Development, 2010

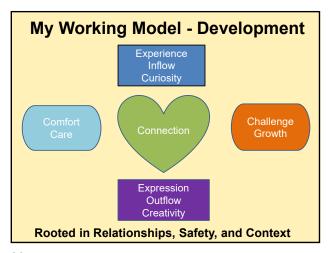
29

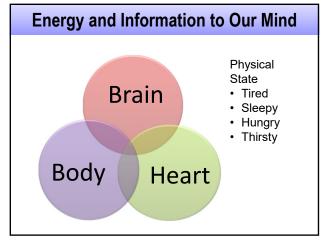
Inter-relational/Prosocial/Spiritual – Feeling the needs of others Who can help and how can I make the world better? Social/Relational/ – Connection to others Who are my family and friends? Sense of Self- Who am I? Executive State Perfontal Lobes What can I learn from this? Emotional State Limbic System Am I loved? Sensations Emotions Sensations





32

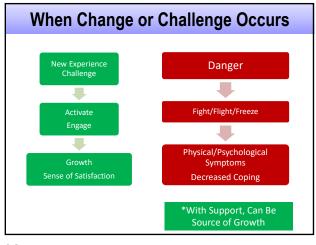


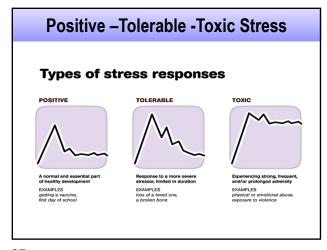


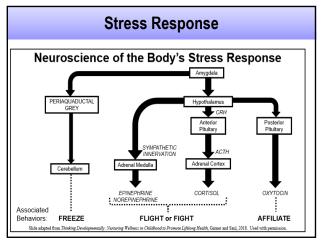
Stress is part of growth

- Stress is a normal human reaction
- Your body produces physical and mental responses when you experience changes or challenges (stressors)
- Stress responses help your body adjust to new situations.
 - Positive keeping us alert, motivated, and ready to avoid danger
 - Negative when stressors continue without relief or periods of relaxation

35







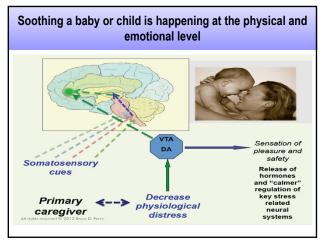
38

Trauma and Difficult Experience

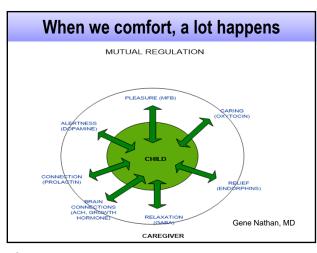
- Trauma is often the result of an overwhelming amount of <u>stress</u> that exceeds one's ability to cope, or integrate the <u>emotions</u> involved with that experience
- Trauma differs between individuals, according to their subjective experiences
- Unprocessed events, experiences, or emotions can be triggering





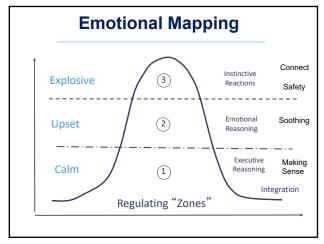


41

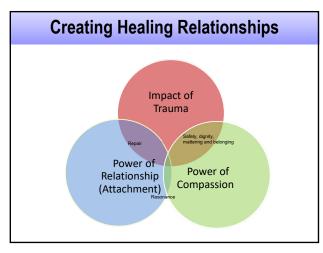


Positive Relationships Down Regulates Stress Safety Pleasure Hormonal Cascade Creates Calm

43



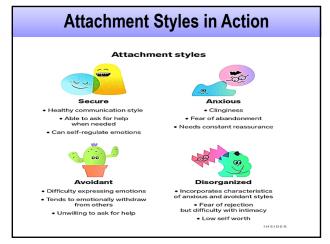
44



What is Attachment?

- ...the capacity to form and maintain healthy emotional relationships which generally begin to develop in early childhood
- Enduring bond with "special" person
- · Security & safety within context of this relationship
- · Includes soothing, comfort, & pleasure
- Loss or threat of loss of special person results in distress

46





Development of the Attachment Relationship			
RAISING A SECURE CHILD We Crite of Security The Child's Needs Circle of Security Parent Attending To The Child's Needs Circle of Security For Laylandon Segred Segred Segred Segred Land Segred Land Segred Value for Segred Land Segred Value for Seg			

Secure Base - Top of the Circle

- I need you to "Support My Exploration"
- How
 - Watch Over Me being there, present, on standby, not doing anything more
 - Delight In Me showing delight in someone, just as they are, whoever that is
 - Enjoy with Me sharing in adventures and activities
 - Help Me supporting an adventure, activity, or exploration

50

Safe Haven - Bottom of the Circle

- I need you to "Welcome My Coming to You"
- How
 - Protect Me protecting another person, with clear signals that that person can count on you (trust)
 - Comfort Me Sooth and support through hardships (hungry, tired, hurt, scared, lonely, frustrated, confused, etc).
 - Delight In Me -Type 1: Provide a little emotional uplift; Type 2: Being filled with ease while a child is uncomfortable (unconditional love) "I love you even when you aren't feeling OK."
 - Organize My Feelings Help someone experience, learn, and grow through their emotions

Being with - Caregiving's "true north"

GOAL: Respond in line with needs

- Exploration: Watch over me, delight in me, enjoy with me, help me
- Comfort: Protect me, Comfort me, Delight in me, Organize my feelings

How: Being with

- Tune in to another's needs and emotions
- Strive for resonance between you and the other person, without losing yourself or overtaking over the other
- Hold strong emotions and experiences without being overwhelmed by them
- Match the quality, intensity, and timing of interactions with your child's needs

52

Be the Hands

Bigger & Stronger:

- Why Trust & predictability: to provide structure, routines, and safety; No nonsense tenderness
- How "I'm always going to be there for you, but that doesn't mean that I always have to be overly nice, because sometimes it is about really letting you know that that is a boundary, you've crossed it, and we need to step back."

Kinder:

- Why Cultivates attunement and resonance for your child's needs; to provide compassion, love, care, and empathic understanding as a pathway to growth and learning
- How "I love you and will be here for you to work through this, even when its tough.
 We will figure this out together and I will guide you through this."

- Wiser

- Why Learning how to live into this: "Whenever possible, follow your child's needs. Whenever necessary, take charge."
- How Learn what you favor (bigger/stronger vs. kinder) and develop the other.

53

Donald Winnicott Rupture and Repair

- Babies and children actually benefit when their mothers "fail" them in manageable ways
 - Not major failures, such as child abuse/neglect
 - Being connected 100% of time and it would prevent developing an independent self
- Ruptures are inevitable and even important for positive growth but only when ruptures are shortlived.
- When we become aware of rupture, we repair by reconnecting being empathic, warm, loving, accepting, curious, and playful

Attunement

Dr. Dan Siegel, MD says,

"When we attune with others, we allow our own internal state to shift, to come to resonate with the inner world of another. This **resonance** is at the heart of the important sense of **'feeling felt'** that emerges in close relationships. Children need attunement to feel secure and to develop well, and throughout our lives we need attunement to feel close and connected."

55

Attunement Examples

- A caregiver seeing a baby crying, recognizing that the baby is hungry, and then picking up the baby to feed her.
- A mother comforting her toddler, after he falls and skins his knee
- In an adult relationship, when someone says, "I'm fine," you know he doesn't mean it, and you dig a little deeper to find out what's going on.
- · With your child
 - Knowing the feelings and motivations of your child
 - Being able to analyze your child's actions and interpret cues accurately
 - Provide a correct response that meets the child's underlying emotional needs

56

Self-regulation

- Is foundational in promoting wellbeing across the lifespan, including educational achievement and physical, emotional, social and economic health.
- Self-regulation can be defined as the act of managing thoughts and feelings to enable goaldirected actions, and includes a variety of behaviors necessary for success in school, relationships, and the workplace

Murray, Rosanbalm, Christopoulos, & Hamoudi, 2015: Foundations for Understanding Self-Regulation from an Applied Developmental Perspective, <a href="https://doi.org/10.1016/j.com/programs/pore/resource/selfregulation-and-toxic-stress-foundation-for-understanding-self-regulation-from-an-applied/evelopmental-perspective

Self-regulation

- Although it may sound like something internal to an individual, self-regulation develops through interaction with caregivers such as parents, teachers, coaches, and other mentors.
- Further, self-regulation development is dependent on predictable, responsive, and supportive environments.
- Because caregivers are vital to self-regulation development, teaching adults in caregiving roles to promote self-regulation can be powerful.

58

Self-Regulation Metaphor



Accelerator Brakes

Needs to consider Engine Gas Tank Speedometer Gauges

Needs to consider Roads Weather

59

Co-Regulation

- Co-regulation is defined as warm and responsive interactions that provide the support, coaching, and modeling children need to "understand, express, and modulate their thoughts, feelings, and behaviors" (Murray et al. 2015, 14)
- Co-regulating requires caregivers to pay close attention to the cues children send and consistently and sensitively respond with just the right amount of support
- Instead of...
 - dismissing (going away or putting the child away/in time-out)
 - threatening (yelling, hitting, shaming)
 - or rescuing (moving in to solve the frustration instead of allowing her child her experience)

Co-Regulation Models Self-Regulation

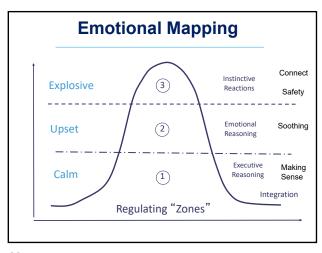
- Parents and primary caregivers can help infants and young children know that they are "felt with" and "attuned to" by using their voice, movements, affects, gestures, and intonations
- They helps babies and children become calmer and regulate at the time of distress like when they are struggling with strong feelings
- Babies and young children begin to internalize and conceptualize strategies for self-regulation and selfsoothing—in their brains and in their minds

61

Co-Regulation Example

- Giant meltdown. Katie, 4, began screaming and hanging on to her mom's body while simultaneously pushing her away.
- Her mom has learned that when Katie is upset, she wants to be close, but she does not want to be held. Her mom moved away a bit and sat on a step close by, suggested a calming strategy (counting and blowing on her finger), and told her she would be available when she was ready.
- She continued to cry for a couple of minutes longer, then began to count
- As she counted, Katie's voice gradually get calmer. She counted all the way to 30, then lifted her finger to "blow out a candle"
- Her mom asked if she was ready for a hug, and she climbed into my lap to accept the connection.

62



Temperament - Biological Response to our Environments				
	Activity Level	Persistence	Distractibility	
	Initial Reaction	Adaptability	Mood Intensity	
	Sensitivity	Regularity	Sensory Threshold	

Winnicott's "Good Enough Parenting"

- Winnicott believed perfect parenting is not desirable
- Infants need immediate attention and all of their needs met
- As long as parent is usually reliable and her child is well-cared for, her "failures"—minor miscues and slipups—are par for the course.
- Being good enough ultimately fosters independence and autonomy in the growing child.
- There is flexibility and room for real-life mistakes and limitations to our parenting abilities.

65

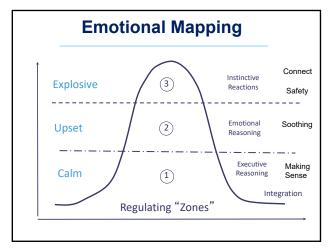
Making Sense - Coherent Narratives

- Use of language to weave together thoughts, feelings, sensations and actions as a means of organizing and making sense of internal and external worlds
- Connection of the past and present in the creation of an autobiographical sense of self-awareness
- Provides the developing brain with fundamental means of integrating data from disparate sources
- Storytelling requires sustained attention, memory, emotional responsiveness, non-verbal cues and responses, collaborative meaning making, attunement to the listener's expectations (resonance)

Making Sense - Coherent Narratives

- Provides an ability for self-reflection and selfidentity
- A way for explaining behavior—emotionally meaningful, causally-linked, serving as a means of education, understanding and change
 - Map that may be continually redefined to create new meaning and behavior
- Stories and storytelling are pervasive in society as a means of conveying symbolic activity, history, communication and teaching

67



68

Name, Validate, Suggest



- I see you are feeling jealous because I am holding your baby sister, must be hard to be a big brother, what about if you grab a book and I read it to you."
- "I see you are frustrated because your tower keeps falling down, what about if you try this way or maybe play with something else.
 Remember to be patient."

The "ABCDE"s of Co-Regulation Attune Be Calm, Coregulate Describe and Repair Options To Coregulate Describe and Repair Options

70

Resilience Can Be Developed Resiliency is developed in the context of relationships Regulation – Reflection – Reframing Calm, Consider and Create a New Way to See Things

71

Understanding of Mental Health Problems in the Past

- Genetic or heritable vulnerability
- Congenital
 - · Physical malformation
 - Exposure to chemicals or infection
 - Birth Trauma
- Learned Maladaptive Behavior
- · Psychological Conflict
- · Social relations problems

- Caregiver/child relationship
 - Attachment and Loss
 - Temperamental mismatch
- · Medical problems
 - · In child
 - In caregiver
- · Physical trauma
 - · Head injury
 - Broken bones, burned skin
 - Dog bites

Jeff Rowe, MD

Now we must add 2 more

- 1. Psychological Trauma
 - Physical abuse
 - Sexual abuse
 - Emotional abuse
 - Neglect
- 2. Interruptions of development

Jeff Rowe, MD

73

Interruptions of Development

- 1. Inexperienced caregiver
 - · Lack of support for caregiver
 - · Lack of capacity of caregiver
- 2. Loss of Continuity of Affectionate care
 - Removal from home; change of placement
 - Loss of parent, nanny, sibling
- 3. Problems of Sensitive Responsiveness and Mutually Confirming interactions
 - Inability to <u>attune</u> to child's states

Jeff Rowe, MD

- 4. Challenges that are not overcome early
 - Sleeping
 - Eating
 - Speech and language
 - Fine and gross motor development
 - Social development
 - Behavioral problems (aggression, emotional dyscontrol, anxiety, depression, attention)

Childhood Trauma

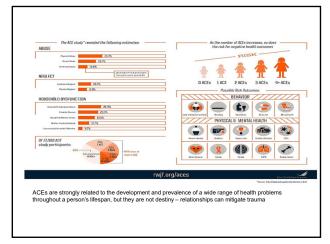
- The physical and emotional responses to events that threaten the life or integrity of the child or of someone critically important to the child
- Traumatic events overwhelm a child's capacity to cope and elicit feelings of terror, powerlessness, and out-of-control physiological arousal
- Failure to provide sensitively responsive and mutually confirming interaction during developmentally important periods of life

7	
/	J

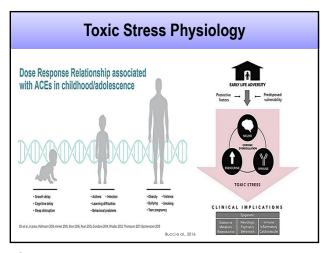
Developing Child is at Greater Risk

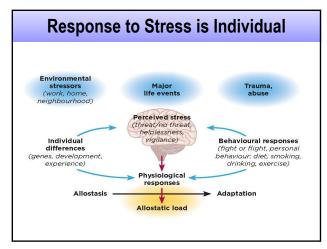
- Dependent on caregiver for support and context
 - Lack of physical ability to shield self
 - Lack of emotional resources
 - Lack the ability to discriminate novelty from threat
 - Need for child to stay with caregiver even if caregiver is the source of arousal/trauma
- · Immature alert/alarm systems

76



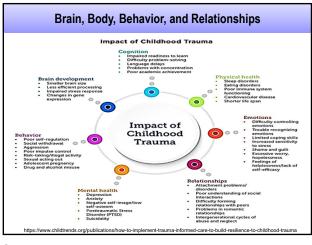
77

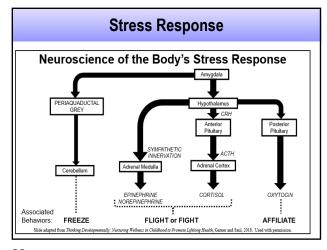






80





When distressed, we all need someone to respond to us (Safe Haven)

83

Reframe Trauma - Fuel for Growth

Post-Traumatic Growth

- · Greater appreciation of life
- · Greater appreciation and strengthening of close relationships
- · Increased compassion and altruism
- The identification of new possibilities or a purpose in life
- · Greater awareness and utilization of personal strengths
- · Enhanced spiritual development
- · Creative growth

Facilitated by education, emotional regulation, disclosure, narrative development, and service

Tedeschi, R., & Calhoun, L. (2004). Posttraumatic Growth: Conceptual Foundations and Empirical Evidence.

Positive Childhood Experiences Help

- The positive experiences with the greatest protective impact for those with 4+ ACEs included:
 - -feeling that your family stood by you in hard times
 - having someone to talk with about difficult feelings

Sege, R., Bethell, C., Linkenbach, J., Jones, J., Klika, B. & Pecora, P.J. (2017). Balancing adverse childhood experiences with HOPE: New insights into the role of positive experience on child and family development. Boston: The Medical Foundation

85



86

Children's Development All Areas of Developing Personal Space Developing Personal Space Screen Time, Physical Activity, and Sleep Lack of Childcare and Changing Childcare Providers

Children's Experience Decreased Social Interaction Children's Experience Increased Parental Stress

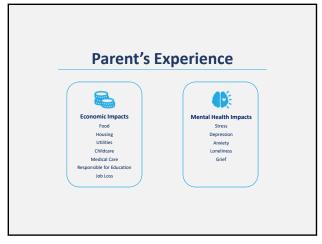
88

"If children haven't had (social) experience when they enter into preschool, they need some extra scaffolding from their teachers and peers to learn.... about taking turns and sharing and solving conflicts for children who have interacted very little with others, it may take a little more time."

- Nancy Close, Yale Child Study Center

89



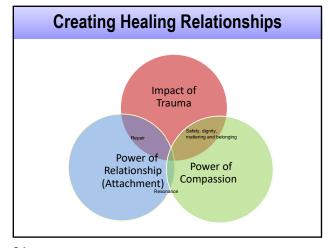


What Else is Stressing Families?

- COIVD
- · Social Media
- · Active Shooter Drills/ School Shooting
- · Racial Reckoning
- Economic Inflation
- Political Conflicts/Book Banning

92







95

Nurture as an Organizing Approach

- Promote Nurture to across the Life Span and throughout the community
- · Goals to increase nurture for our
 - Children and Families
 - Service Providers
 - Organizations and Institutions
 - Community
 - Systems and Payors