

# Riding the Trauma Wave of Pediatric Care

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### Disclosure

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\*An **ineligible company** is any entity whose primary business is producing, marketing, selling, re-selling, or distributing health care products used by or on patients.

### **Real-Life Experiences**



"Eric"- Adoption, Aggression, Lack of resources



"Alexis"- SI, HI, Financial strain, Several siblings



"Christina"- CPS conservatorship, autism, aggression





### 2022 and 2023 Demographics



# COVID and Mental Health Impact

Past decade, suicide has been the 2<sup>nd</sup> or 3<sup>rd</sup> leading cause of death for adolescents (14-18)

#### 2021 Adolescent Behaviors and Experiences Survey for HS students:

- •37.1% of students experienced "poor mental health during the pandemic"
- In previous 12 months:
- •44.2% experienced "persistent feelings of sadness or hopelessness"
- •19.9% had seriously considered attempting suicide
- •9.0% had attempted suicide.

#### Students who maintained closeness to peers showed lower prevalence of:

- Poor mental health (28.4% versus 45.2%)
- "Persistent feelings of sadness or hopelessness" (35.4% versus 52.9%)
- •Considering suicide attempt (14.0% versus 25.6%)
- Suicide attempts (5.8% versus 11.9%).
- (Jones, Ethier, Hertz, et al., 2022)

3 out of 4 US high school students reported at least one ACE during COVID.

•Isolation, lack of access to services, loss/illness, financial strain

#### 1 in 13 reported 4 or more ACEs during COVID (7.8%) -19 pandemic.

(Anderson, Swedo, Trinh, et al., 2022)





## **Adverse Childhood Experiences**

Challenges

DIVORCE

### **Physical Impact**

#### **Brain Architecture**

Shrinkage in prefrontal cortex, corpus callosum, and hippocampus. Enlarged and more reactive amygdala. Resolution: safe and stable nurturing relationships, walk in nature, touch, exercise

#### **Neural Pathways**

Need to 'rewire' our brain from old thought patterns and habits of mind, conscious, and unconscious. Resolution: neurofeedback, meditation/ mindful action, positive self-talk

#### Hormones

Prolonged high cortisol and ghrelin creates greater reactivity to stress. Long term damage to cells, structures of the body, and other homone glands (thyroid). Resolution: oxytocin

Toxin Elimination Intestines and kidneys less able to

eliminate toxins (slow gut or unbalanced flora). Resolution: salt baths, sauna

#### **Nervous System**

Supercharged sympathetic nervous system. Parasympathetic nervous system not engaged to bring back into balance. Resolution: yoga, breathing, or other physical/emotional regulation

Immune System

Resistance to cortisol or lower cortisol

creates unchecked inflammation. Cause of many diseases: asthma, arthritis, etc.) Resolution: meditation/mindful action, walking in nature, diet, rest

## of Trauma

#### Brain Waves

Predomination of wrong brain waves in wrong part of the brain leads to anxiety, unable to concentrate, and seizures. Resolution: neurofeedback

Neurotransmitters Vulnerable to addiction because dopamine transmitters/receptors not developed or damaged. Reduces motivation & focus, creates fatigue. Low seratonin causes depression.

> Cellular Change Shortens telomeres which prematurely ages and reduces reproduction of cells & can cause cancer. Resolution: social support

Epigenetics turns genes on or off in adaptation to dangerous environments. Effect can last generations. Resolution: Safer environment (perception of)

echo



INCARCERATED

PARENT

SUBSTANCE

USE

INTIMATE

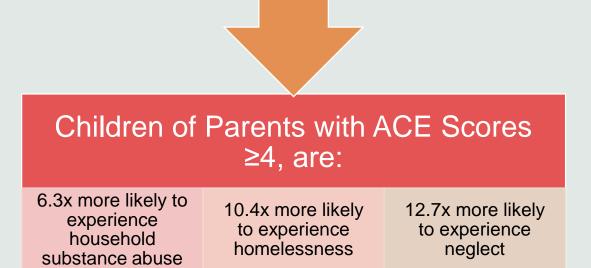
PARTNER VIOLENCE

MENTAL

ILLNESS

# **Understanding ACE's**

#### Parent ACE scores predict child ACE Scores



- + According to Dr. Chris Blodgett, children with three or more ACEs are:
  - + 5 times more likely to have "severe attendance problems"
  - + 6 times more likely to have "severe behavior problems"
  - + 4 times more likely to report poor health (Steffen, 2018)
- + According to SAMHSA, children with 2 or more ACEs are:
  - + 2 times more likely to have a special health care need

(Randell, O'Malley, Dowd, 2015)

## Trauma-Informed Care



# **Triggers and De-escalation**

#### **Common Triggers**

- Lack of power over threatening situation
- Transition without warning
- Shame, vulnerability, fear

#### **De-escalation**

- "Learning brain" is turned off.
- Rationalization and reasoning are higher functions that the adolescent is physiologically unable to use in moment.
- · Early identification of escalating behaviors
- Positive re-enforcement
- Basic needs met?
- Connection (meet at eye level)
- Re-direction and alternatives
- Behavior plans

#### How to Support Someone Who Has Experienced Trauma Attribution Predictability sues behavior' Cal it for what it is trauma Reciprocity Perspective Space Give what you ow time for the also need to urvivor to calm dow receive: listening nd take perspective empathy, and empowerment have difficulty Support Recalibration Rid 'over-reacting' Choice It can be a big trigger when a over'-anything from your vocabulary. echc

# Parent Education and Support

Self-reflection with compassion: Do not ask "What is wrong with you/me?"

Family systems questions:

- What has limited our ability to see our children's perspective?
- Where have I not been present?
- How our we repeating our childhood pain?

Allowing our child to their authentic self.

Dealing with children with diagnosis. ADHD, autism, bipolar disorder.

Attempt to see their behavior as not a personal attack.

Lead by example to teach self-regulation

New learning can not occur in high states of painful arousal

Children need sense of self-efficacy

Know your resources and rights! MHID, RTC, local communities (CBWF)

Daily steps Choose your battles Celebrate the wins

It isn't the mountains ahead to climb that wear you out; it's the pebble in your shoe. Muhammad Ali

BrainyQuote\*

"Parents must surrender their point of view that there's something wrong with the child and see that it's the relationship that's in trouble and the child's behavior is just a function of that. We must stop trying to control the child's behavior."- Gabor Mate

### Last Thoughts on Trauma

"Trauma is not what happens to you, it's what happens inside you as a result of what happened to you. Trauma is that scarring that makes you less flexible, more rigid, less feeling and more defended."- Dr. Gabor Mate

• Trauma is not the event, but the "wound" you sustain.

"Trauma is an inability to inhabit one's body without being possessed by its defenses and the emotional numbing that shuts down all experience, including pleasure and satisfaction."- Bessel van der Kolk

• Trauma, as a defense, prevents all feelings, including joy and happiness.

"Our major finding is that your history of relational health—your connectedness to family, community, and culture—is more predictive of your mental health than your history of adversity (see Figure 8). This is similar to the findings of other researchers looking at the power of positive relationships on health. Connectedness has the power to counterbalance adversity."- Dr. Bruce Perry

• Connectedness is key.

Trauma is a fact of life. It does not, however, have to be a life sentence. Peter A. Levine

BrainyQuote\*

## References

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