

Fight, FREEZE

The Life-long Impact of Childhood Stress & Trauma

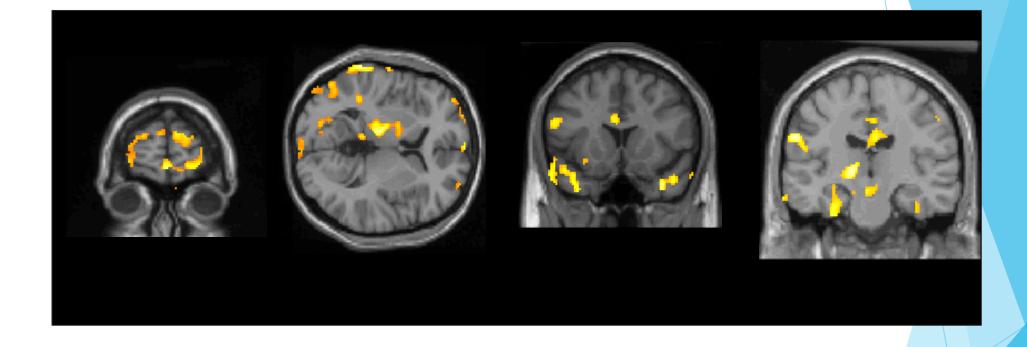
Bethany Brand, Ph.D.





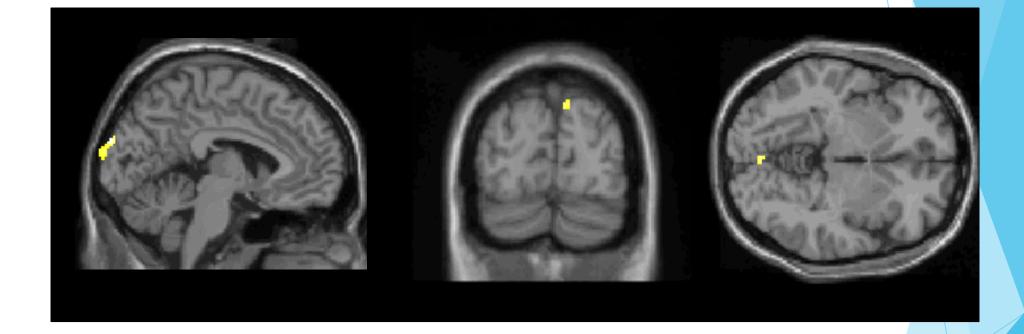


Husband's Brain Scan



Lanius et al., 2003

Wife's Brain Scan



Lanius et al., AJP, 2003

The Effects of Childhood

Trauma Can

Last a Lifetime

What smoking is to cancer,

trauma is to

psychiatric problems.

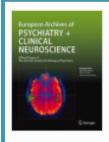
Steven Sharfstein, M.D.

How Common is Child Abuse?

1,000 - 2,000 children in the United States die each year due to abuse or neglect

1 OUT OF 8 CHILDREN Experience neglect, or emotional, physical or sexual abuse

Adverse Childhood Experiences Scale (ACE) Study



European Archives of Psychiatry and Clinical Neuroscience April 2006, Volume 256, <u>Issue 3</u>, pp 174–186 | <u>Cite as</u>

The enduring effects of abuse and related adverse experiences in childhood

R. F. Anda, V. J. Felitti, J. D. Bremner, J. D. Walker, Ch. Whitfield, B. D. Perry, Sh. R. Dube, W. H. Giles

Adverse Childhood Experiences Study (ACE)

8 ACEs:

- 1. Emotional abuse
- 2. Physical abuse
- 3. Sexual abuse
- 4. Witnessing domestic violence
- 5. Parental marital discord
- 6. Growing up with mental illness
- 7. Substance abuse
- 8. Criminal household members



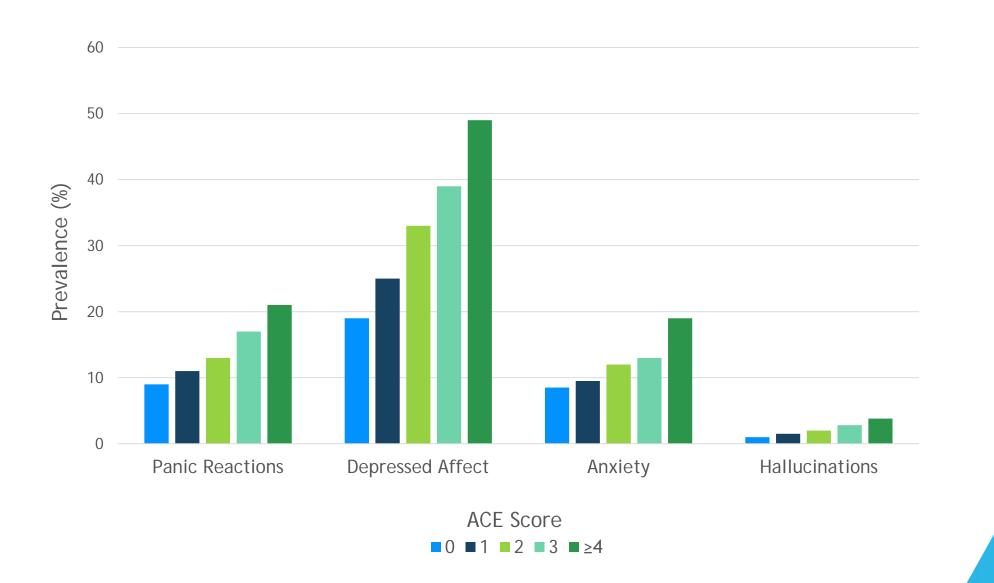
Childhood abuse	Total N = 17,337
Emotional	10.6
(Did a parent or other adult in the household)	
 Often or very often swear at you, insult you, or put you down? 	
Sometimes, often, or very often act in a way that made you fear that you might	be physically hurt?
Physical	28.3
(Did a parent or other adult in the household)	
 Often or very often push, grab, slap, or throw something at you? 	
2. Often or very often hit you so hard that you had marks or were injured?	
Sexual	20.7
(Did an adult or person at least 5 years older ever)	
 Touch or fondle you in a sexual way? 	
2. Have you touch their body in a sexual way?	
3. Attempt oral, anal, or vaginal intercourse with you?	
4. Actually have oral, anal, or vaginal intercourse with you?	

The number of ACEs added to create the ACE score

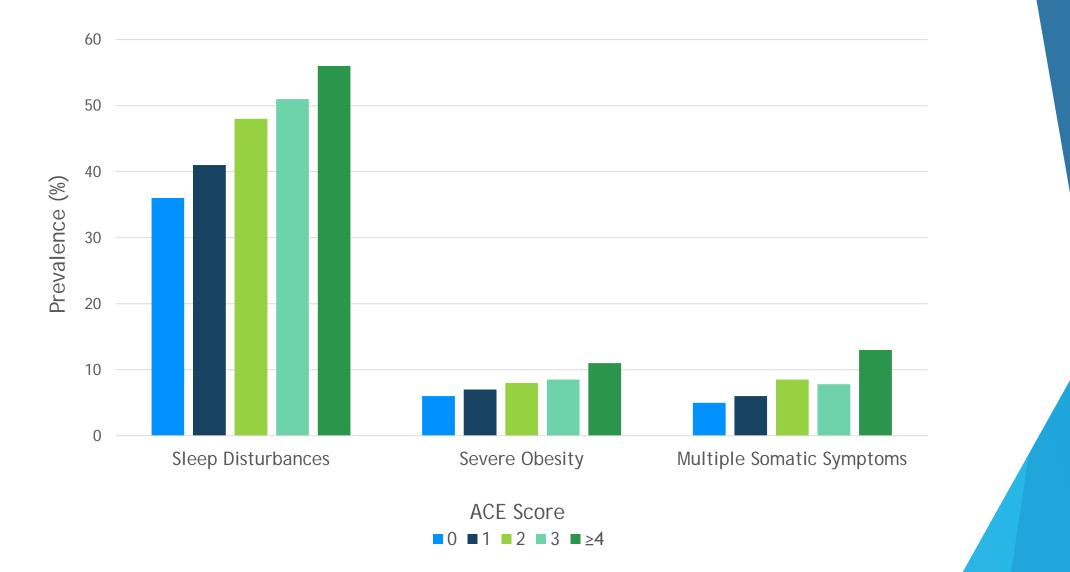
At least 1 ACE reported by 64% of respondents.

Dose Response: as ACE score increased, the risk of problems increased

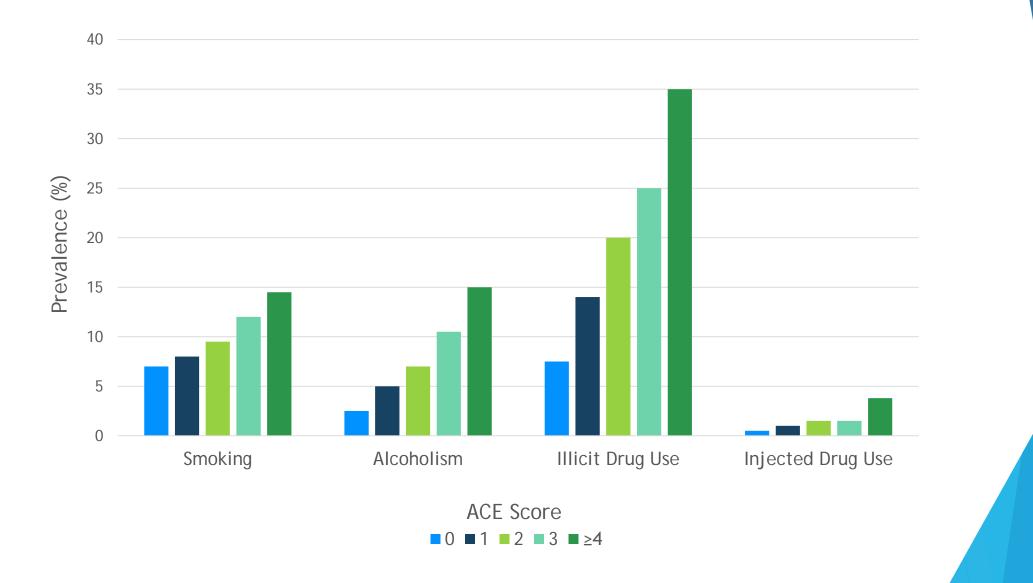
Mental Health Problems



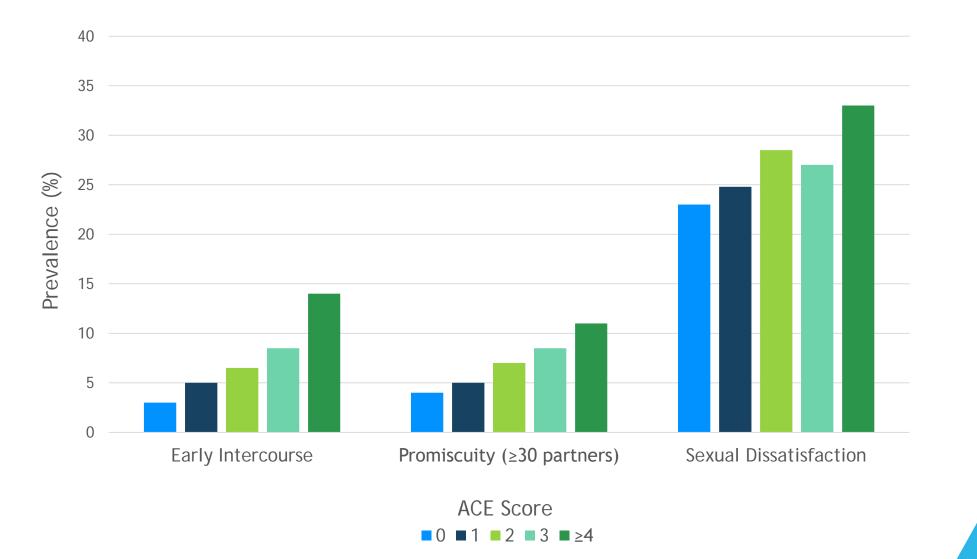
Health Problems



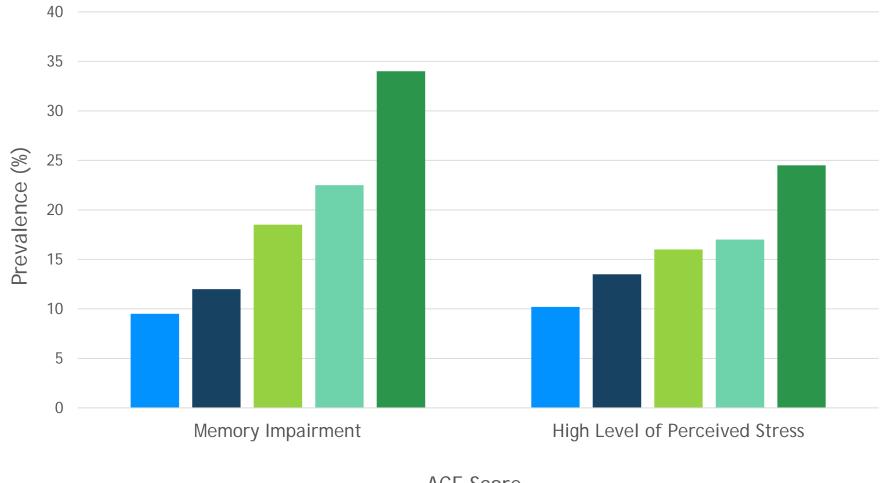
Substance Abuse



Sexuality

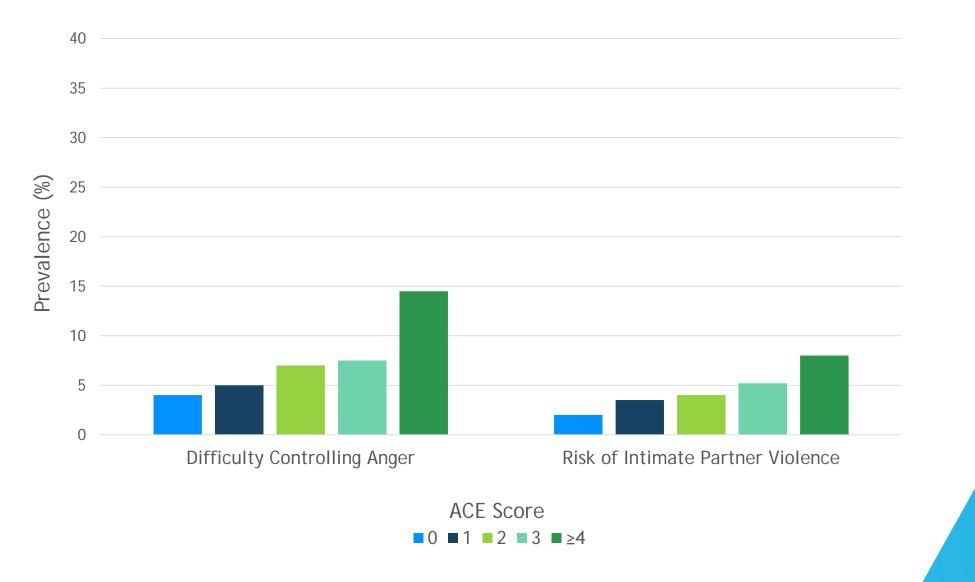


Memory & Stress



ACE Score ■ 0 ■ 1 ■ 2 ■ 3 ■ ≥4

Anger



Why Does Severe, Repeated Childhood Trauma Cause So Many Problems Later in Life?

It Changes the Brain's Response to Stress



High Stress causes Impaired Brain

Logical brain goes "off line"

We can't:

focus our attention

think logically

remember well

conditioned stress response

The Prefrontal Cortex



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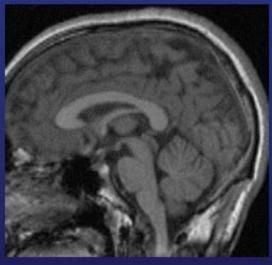
High Stress = Impaired Prefrontal Cortex

- Stress chemicals basically turn it off
- Old and primitive brain structures take control
- We can't...
 - Control our attention
 - Remember important information
 - Think logically
 - Over-ride emotional reflexes or habits
- Evolutionary origins: Stop to think you're lunch

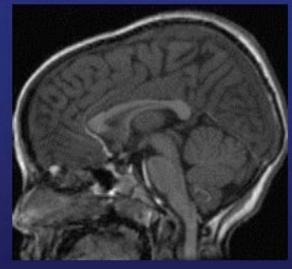
Brain Changes Related to Trauma

- Smaller hippocampus, corpus callosum, prefrontal cortex
- Heightened reactivity
- Different patterns of brain activation

Childhood abuse affects corpus callosum



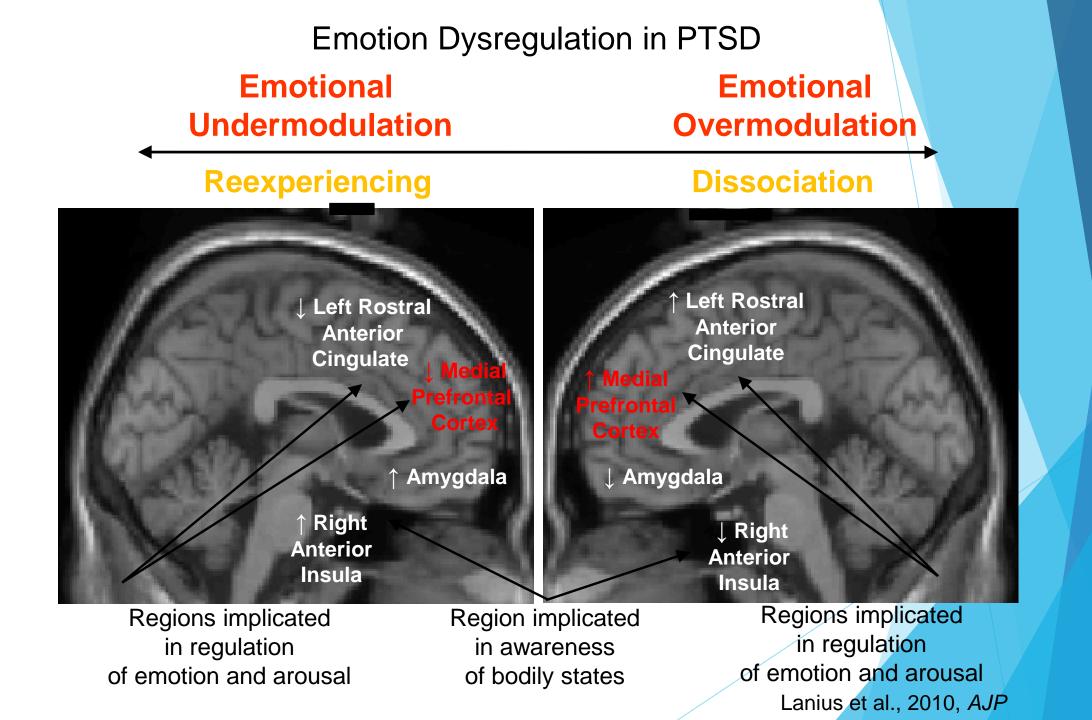
Control



Neglect

The morphology of the corpus callosum is significantly affected by early neglect (as well as physical abuse and sexual abuse).

Teicher et al. (2004) Biological Psychiatry 56, 80-85



Executive Functioning

- Impulse control
- Decision making & judgement
- Emotion regulation
- Managing transitions
- Keeping organized & planning ahead
- Focusing attention
- Working memory
- Many others

What Happens to Kids with So Many ACE

Brain & stress system is changed:

- brain highly sensitized to threat;
- easily triggered;
- less able to think and feel at the same time

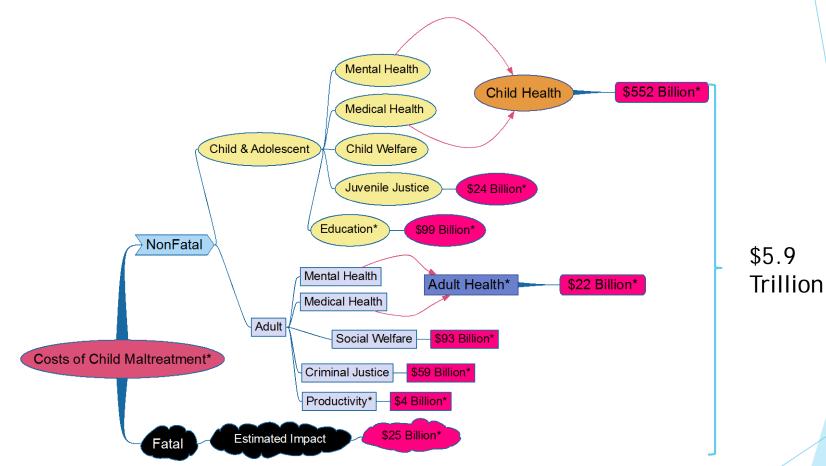
Behavior:

- acting out trauma: violence; self-harm; suicidal
- impulsive,
- feel so helpless that they seek control in unhealthy ways (become the aggressors; they challenge authority figures)

What Happens to Kids with So Man ACEs?

- Thinking dissociation, poor decision making, illogical thinking, hopeless about the future
- Relationships profound mistrust; tend to be victimized or victimizer; get left out

What does it cost to do nothing? Estimated Lifetime Costs for all 2014 First Time Victims = \$5.9 Trillion*



*Suffer the Little Children: An Assessment of the Economic Costs of Child Maltreatment The Perryman Group, info@perrymangroup.com

Dissociation:

The Escape When There is No Escape



Response to Severe Danger

- Fight
- Flight
- Freeze = dissociation

With repeated exposure to danger, the brain adapts and becomes sensitized more reactive to danger

What is Dissociation?

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Disruption:



- Emotion "went numb"
- Memory amnesia
- Cognition intrusive thoughts
- Behavior re-enact father's murder

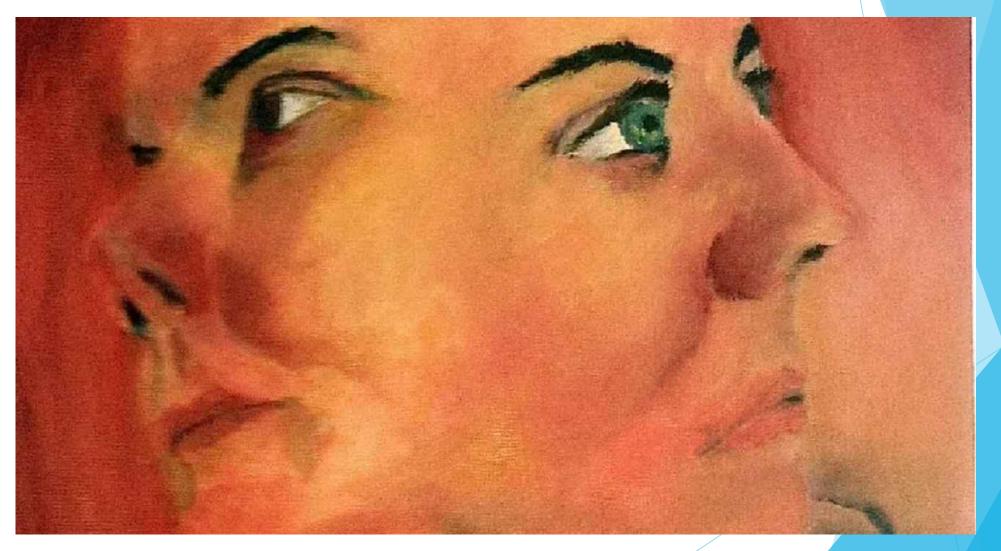
(Diagnostic & Statistical Manual of Mental Disorders-5) (Artwork by Rachel Elise, TU class of 2010)

How Do Kids with So Many ACEs Survive?

They dissociate

- Disconnect from painful memories amnesia
- Disconnect from their bodies and emotions see themselves like in a movie, look dazed & emotionless
- Dissociation later causes big problems, although helped survival:
 - Emotions: highly reactive; feel too much or too little can look like they have no feelings or extreme feelings
 - <u>Behavior</u>: feel unable to control their behavior when in a dissociated state

Severe Childhood Trauma: Fragmented Identity



Artwork by Rachel Elise (TU class of 2010)

Dissociative Identity Disorder



Artwork by Rachel Elise (TU class of 2010)

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How Can We Help?

Kids survive by: dissociating, taking it out on themselves, pushing others Understand away, mistrusting everyone, denying trauma & its impact How to Help Traumatized People Convey respect, belief in them.

Encourage

Support safe connections.

How to Help Traumatized People



TeachTrauma.com



THE IMPACT OF TRAUMA

What is the impact of trauma?

Trauma can impact individuals in many ways, including socially, psychologically, academically, neurophysiologically, and socioeconomically, and can impair physical health as well [1].

Traumatized individuals, particularly those who are

MENU

Information About Trauma

What is Trauma?

The Importance of Teaching Trauma

Types of Trauma

Sexual Assault

Child Maltreatment

Resources

Books

► The Boy Who Was Raised as a Dog, Bruce Perry

Trauma and Recovery, Judith Herman

The Body Keeps the Score, Bessel van der Kolk

Neuroscience of Human Relationships: Attachment and the Developing Brain, Louis Cozolino

Resources

Websites

- ► TeachTrauma <u>www.teachtrauma.com/</u>
- National Child Trauma Stress Network, <u>www.nctsn.org</u>
- Child Abuse Narrative <u>www.canarratives.org/</u>
- ►ISTSS <u>www.istss.org/</u>
- Children's Bureau www.acf.hhs.gov/programs/cb
- SAMHSA <u>www.samhsa.gov/ebp-web-guide</u>

Thank you!

TeachTrauma.com

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