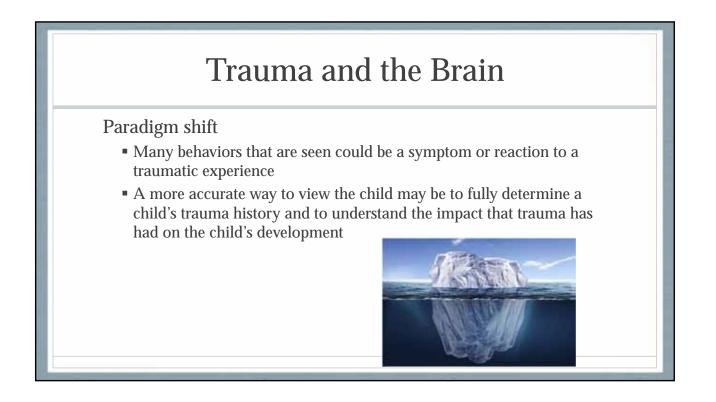
Brain Development and Trauma: The Basics

Dr. Katti J. Sneed PhD, LCSW, MSW, LCAC Director of Social Work Indiana Wesleyan University <u>katti.sneed@indwes.edu</u>

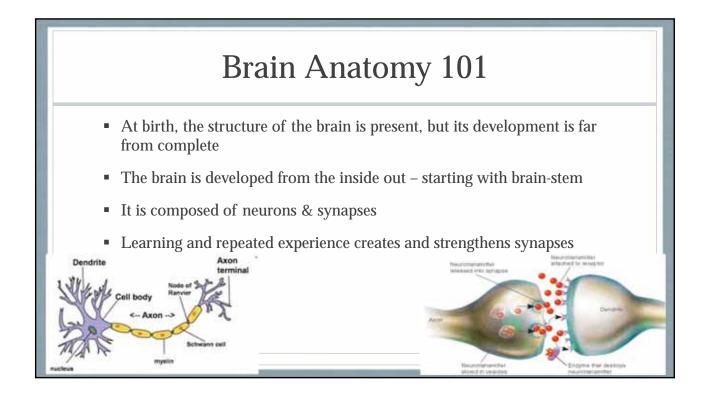
Trauma and the Brain

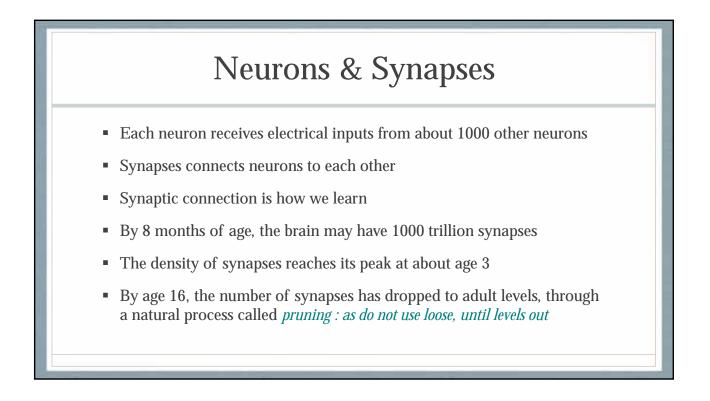
- Trauma shapes not only how we interact in the world, but also how we physically and developmentally grow
- You are your Brain!!

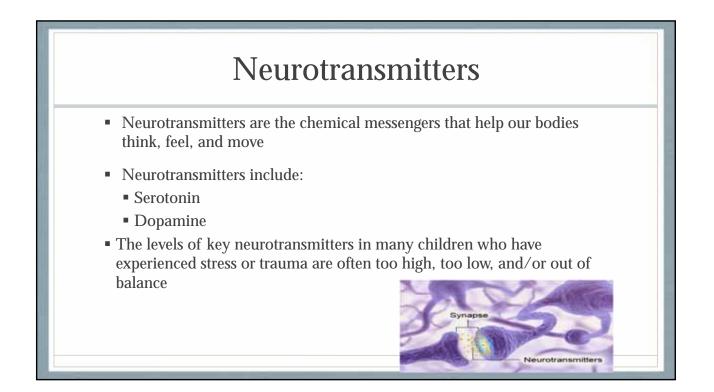


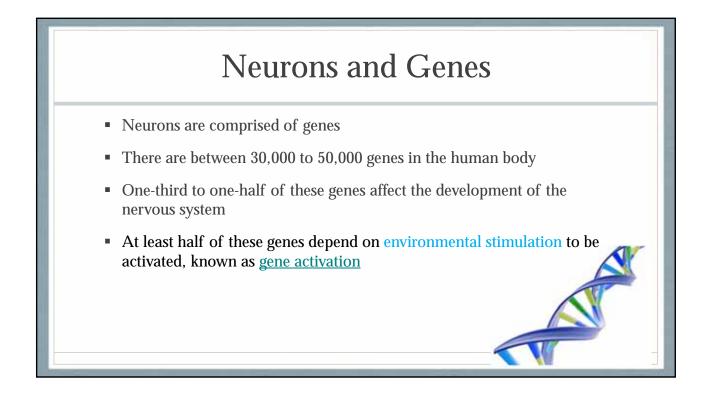


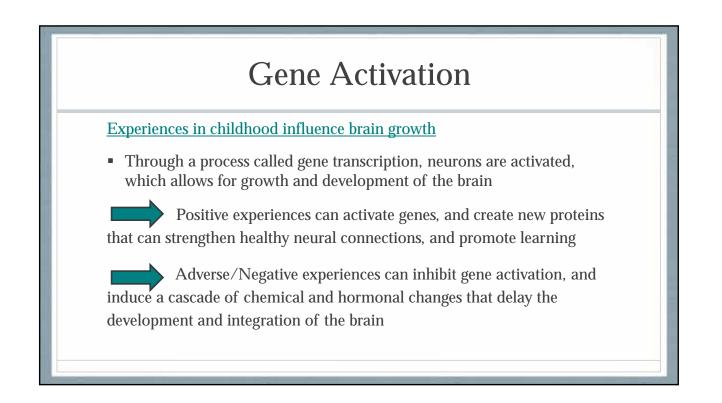


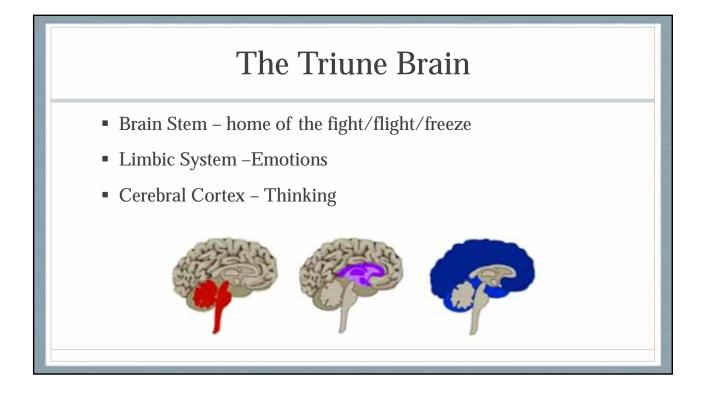


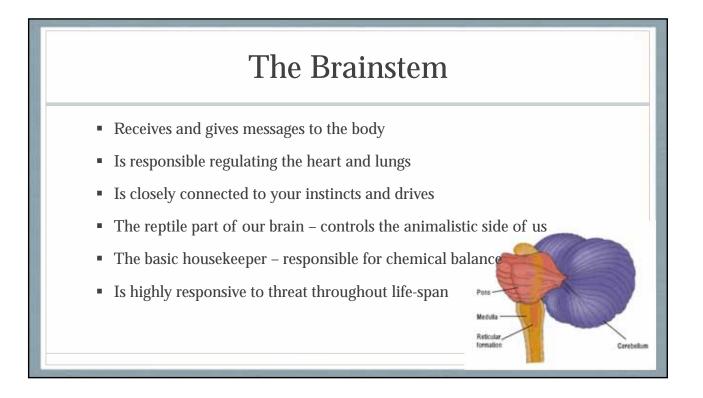


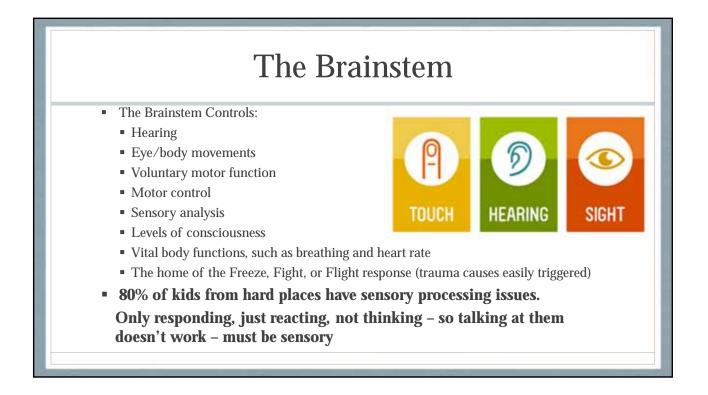


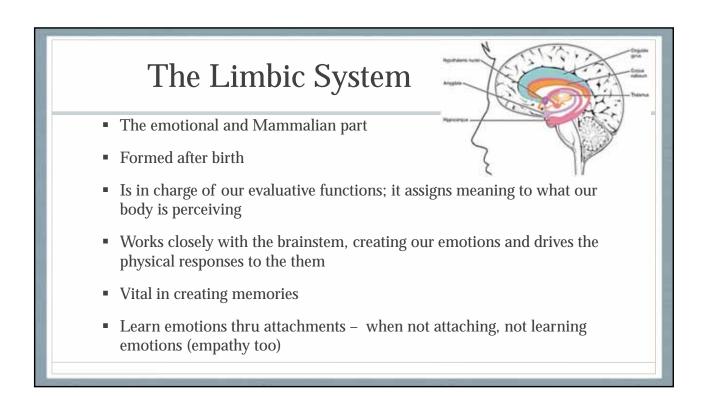


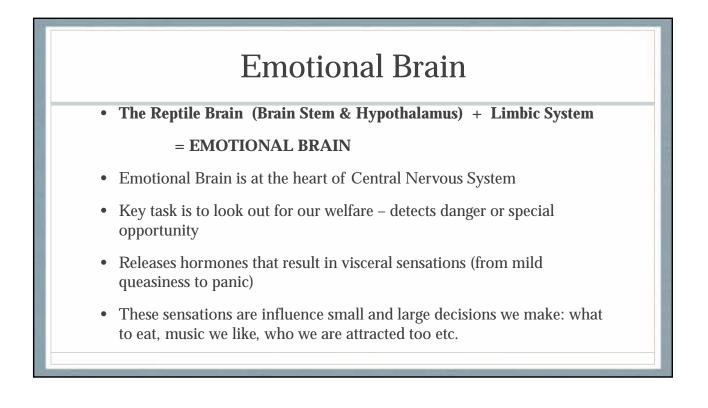


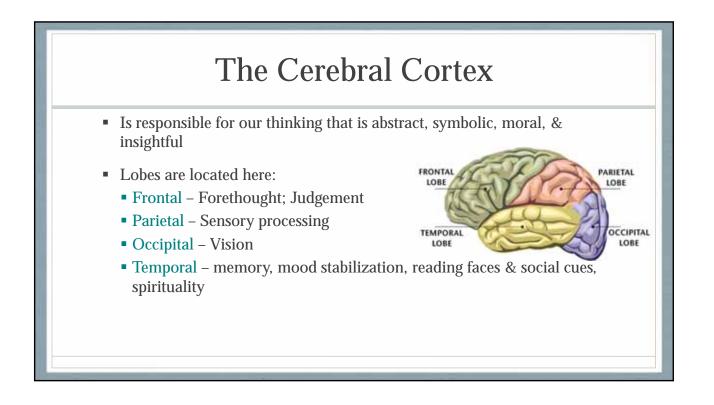


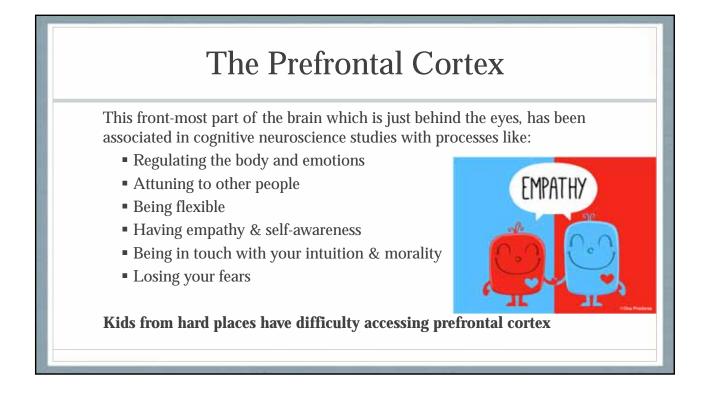


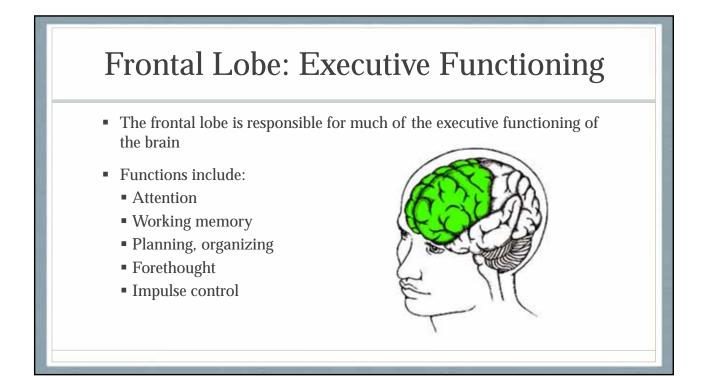


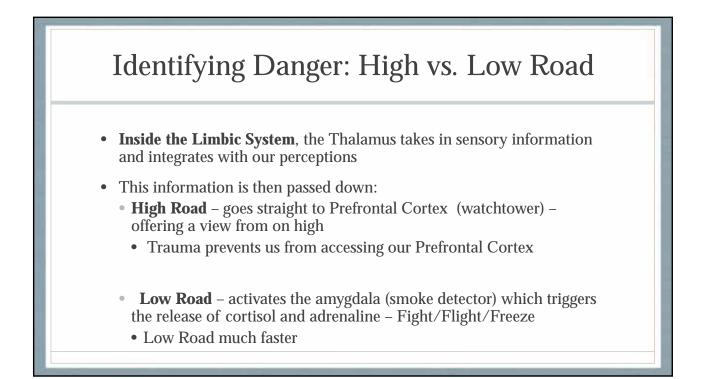


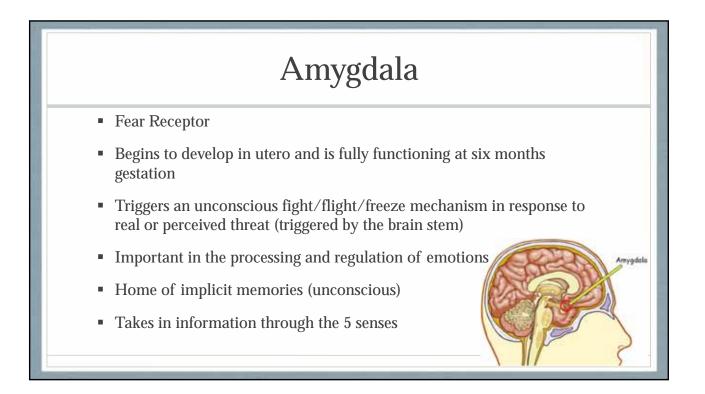


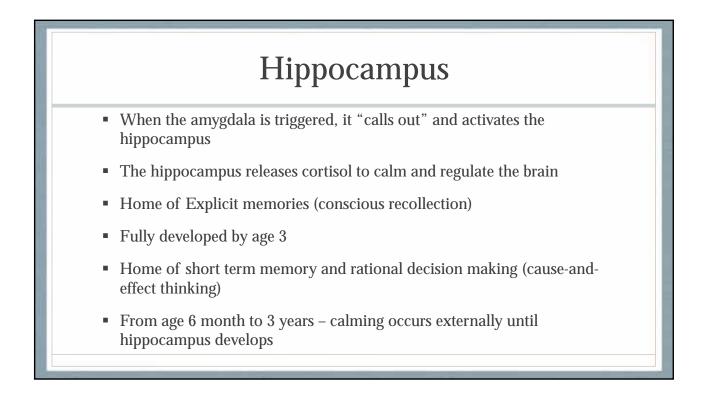


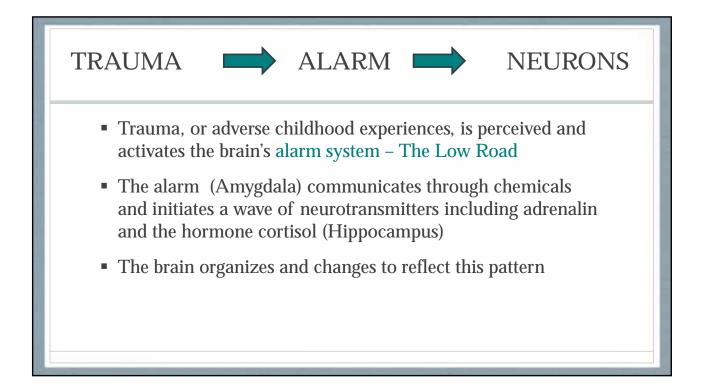


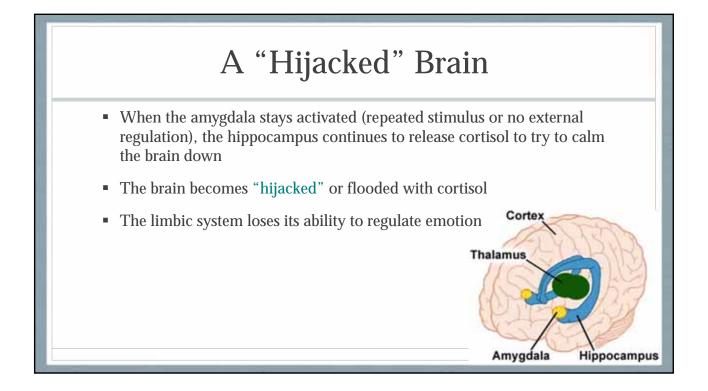








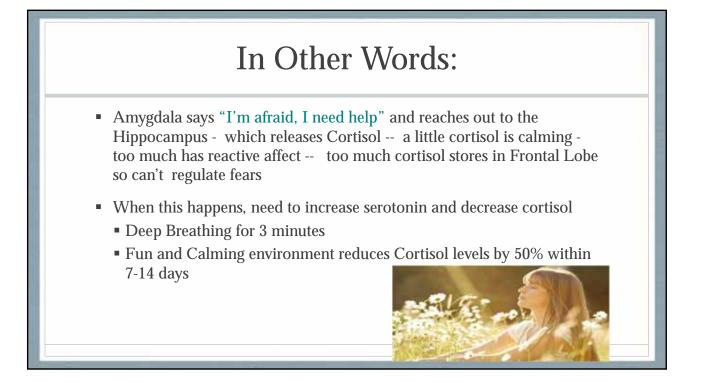


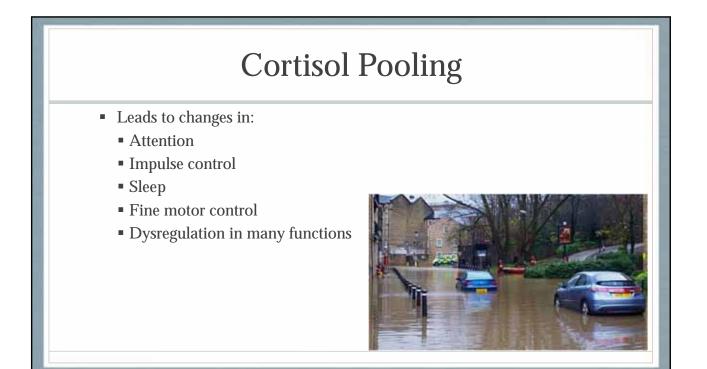


Hijacked Brain – Prefrontal Cortex

REMEMBER:

- Prefrontal cortex is involved in cognitive processing of decision making
- Prefrontal cortex is where regulation and attachment solidify
- When the brain is flooded with cortisol, it pools on the frontal cortex
- When the prefrontal cortex is flooded, it inhibits regulation, the to attach, and cause & effect thinking
- This pooling inhibits the frontal cortex from fully developing





Dan Seigle – Hand Model of Brain

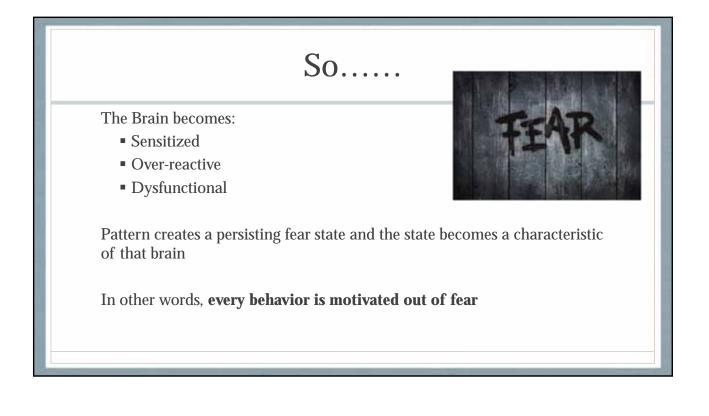
• https://www.youtube.com/watch?v=gm9CIJ74Oxw

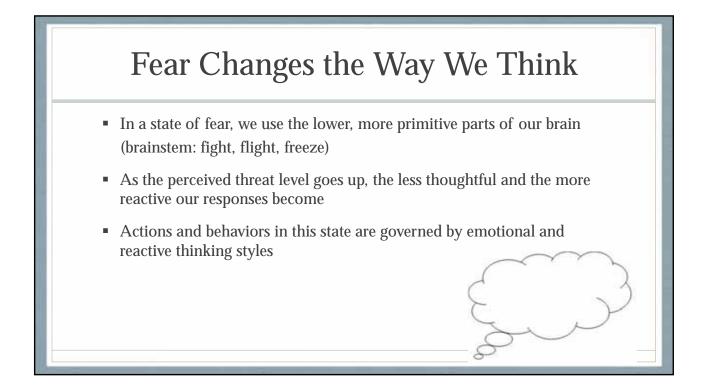


- Due to these neurochemical changes (caused by cortisol pooling), a traumatized child may exhibit:
 - Motor hyperactivity
 - Anxiety
 - Behavioral impulsivity
 - Sleep problems
 - Tachycardia
 - Hypertension

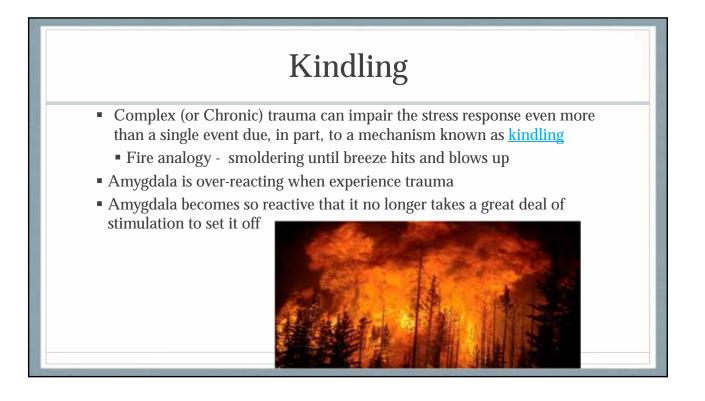


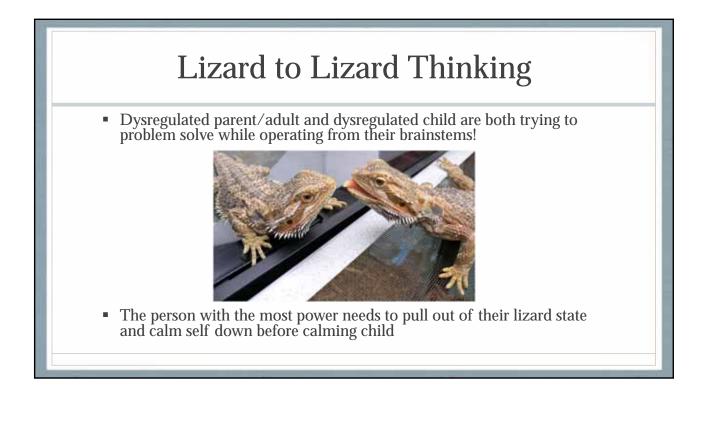
 Preliminary studies are showing altered cardiovascular regulation (increased resting heart rate) suggesting altered autonomic regulation at the level of the brainstem







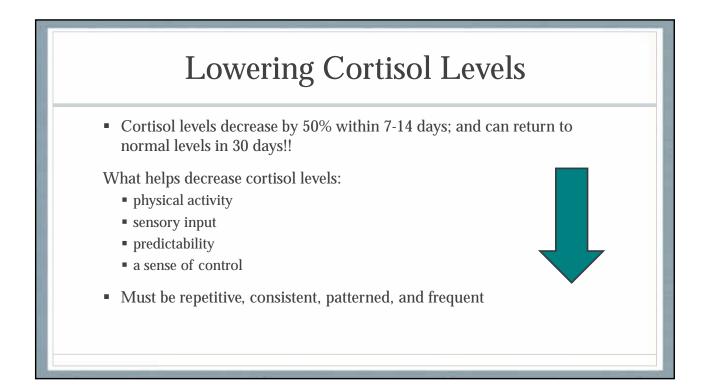


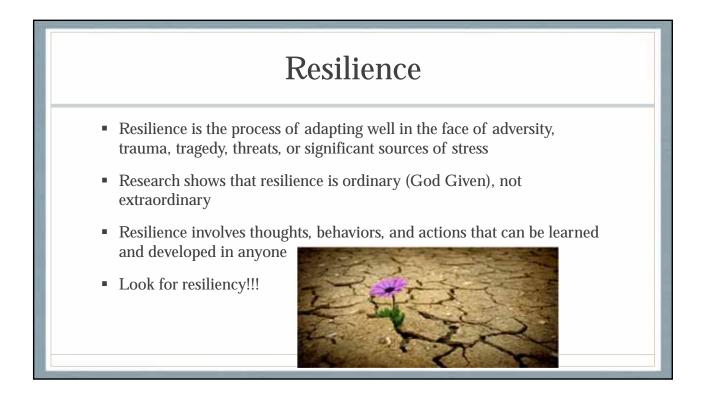


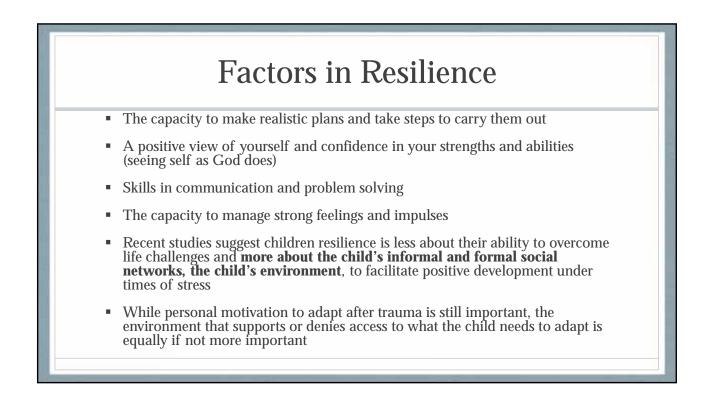
"Removed" Video Part 1

<u>https://www.youtube.com/watch?v=lOeQUwdAjE0</u>

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Intervention

Quick ways to help a child relax

- Get down to their level physically, be kneeling or sitting
- Speak softly and gently in a warm voice
- Offer a stress ball or fidget toy that he can press and squeeze
- Offer a piece of gum chewing is calming
- Offer a sweet sucking candy or lollipop sucking is calming
- Offer to sit or stand farter away from her
- Encourage him to take deep, slow breaths -- smell the cookies, blow out the birthday candles

Rd-Do's -- Let's try that again

Safety Relationship Psychoeducation Parenting skills Enrotional regulation -relaxation, yoga, progressive muscle relaxation, emotions jar Affect identification - body drawing, emotion color wheel feelings bingo Affect expression - clay, art work Coping skills - positive self-talk Exposure/exploration of the trauma - professional therapy Identification of future (hope, resiliency, strengths, positivity)

"Removed" Part 2

<u>https://www.youtube.com/watch?v=I1fGmEa6WnY</u>

