

Developmental Trauma & the Brain: How to Take a Bottom-Up Approach to Supporting Healing & Regulation with Children

FAST FACTS

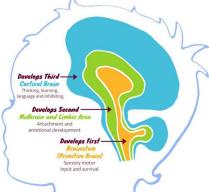
Research has shown us that brain development is impacted at any stage when children experience trauma, adverse experiences, chronic stress and attachment disruptions. This may seem discouraging or overwhelmingly negative, but the good news is that research has also as shown that our brains are plastic. Plastic may be a strange word to describe our brains, but what that really means is that thanks to neuroplasticity (or brain plasticity) our brains are able to form new neural pathways throughout our lifetime. So with the right supports in place, children's brains can heal, grow and change to encourage healthy growth, repair and development.

This resource is designed to provide you with some basic information about the brain and nervous system and how it is impacted by trauma, as well as ways to support healthy nervous system in children who have experienced developmental trauma.

How the Brain Develops

Our brains develop from the bottom up to help us survive and grow from birth through adolescence (and beyond!). The first part of the brain to develop is called the *brainstem* and is also known as the *primitive brain*. This part of our brain is responsible for keeping us alive and safe. It helps us fight for our life, freeze inside or in our bodies, and/or run away from danger. It also takes in important sensory information for survival and development. The second part of the brain to develop is the *limbic brain*, which is the home to our feelings, our ability to form attachments with others, and plays an important role in the formation of memories. The third part of our brain to develop is called the *cortical brain*, which is where thinking, learning, language, identity formation and cognitive processing of emotional information takes place.

Having an understanding of how and in what order the brain develops is helpful in guiding us in how to support children with getting their developmental needs met and regulating when they are having a tough time.



Source: Beacon House Therapeutic Services & Trauma Team, 2019

Recognizing and Understanding Dysregulation

Being curious about a child's behavior is a great way to begin understanding how and why they become dysregulated, and what can be helpful for them in order to regulate themselves (self-regulation) and to regulate with your support (co-regulation). Behaviors tell us a story about what a child is experiencing and what they might be needing in any given moment. If we can figure out the story that we are being told, we can begin to experiment with different regulation strategies and supports to bring a child back into their window of tolerance (a state of arousal that is both tolerable and allows the child to connect, learn, think and be regulated). Here are some tips for how to spot if your child is in a state of fight, flight, freeze or collapse, as well as some tips for how to respond accordingly:



Source: Beacon House Therapeutic Services & Trauma Team, 2019

Activities to Support Regulation, Connection and Repair

If you are the caregiver of a child who has experienced trauma and attachment disruption, you know how out of control it can feel for both you and your child when they are dysregulated and either over or under aroused (also known as *hyper aroused* or *hypo aroused*). Behaviors and emotions can get big and messy, which is challenging for everyone. While there is no right or wrong way to support your child during these times, there are some helpful tools you may consider when figuring out how to help your child feel more in control of their body, behaviors and feelings when they are struggling.

A helpful way to start, can be to identify a list of activities you and your child can engage in to help calm their brain stem and bring them out of a state of fight/flight/freeze/collapse. Some examples of these activities are:

- Rhythmic activities such as dancing, drumming or singing
- Walking, running or jumping
- Jumping on a trampoline or bouncing/rolling on an exercise ball
- Breathing together
- Rocking
- · Chewing crunchy or chewy snacks

- Therapeutic massage
- Using a weighted blanket
- Tossing or rolling a ball back and forth

Additionally, using this helpful framework can provide some structure when you are determining what best may help you and your child in any given moment:

The Three R's

Dr. Bruce Perry, a trauma clinician and researcher has developed a helpful tool to support a child when they are having a difficult time to bring their thinking and learning brain back online by first helping to regulate and calm their brainstem.

Regulate	^	Relate	->	Reason
First, we help the child regulate, feel calm, safe and loved. We can use a variety of helpful regulation tools depending on what is most helpful for the child.		Next, we help the child by connecting with them in compassionate, attuned and validating ways. We may say things like, "I can see how upset you are right now" or "Your body is showing me that this is really tricky/tough for you".		Third, we can help the child to learn and reflect about the challenge and try to solve it together when you are both calm, regulated and connected.

We all do best with learning, reflecting and talking when we are regulated and feeling connected to a safe person.

Resources:

- MN ADOPT HELP program, www.mnadopt.org/help
- Beacon House: https://beaconhouse.org.uk/useful-resources/
- Attachment Regulation and Competency resources: https://arcframework.org/resources-for-parents-and-caregivers/
- **Book**: The Body Keeps the Score, Bessel van der Kolk

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