Trauma Informed Practice

The Science of Early Childhood Development



Building Connections, Building Healthy Brains Chilliwack, May 2016



Goals & Agenda



- Definitions & Types of Trauma
- What Supports Healthy Brain Development
- What Derails Healthy Brain Development
- 3 Critical Pillars of Intervention



- Dr. Bruce D. Perry Child Trauma Academy
- Dr. Vincent Felitti, et.al. ACE Study
- Dr. Dan Siegel & Dr. Tina Payne The Whole Brain Child
- Dr. Karyn Purvis The Connected Child
- Dr. Ross Green & Dr. Stuart Ablon Collaborative Problem Solving
- Evelyn Wotherspoon Infant Mental Health Clinician
- Harvard Center on the Developing Child
- Dr. Chuck Geddes CCI Program
- Dr. Daniel Hughes Attachment based therapies
- Heather T. Forbes Beyond Consequences, Logic & Control

Did you know..... 1 in 1 in Canada

1 in 10 people

in Canada suffers from

Post-Traumatic Stress Disorder

-- McMasters University Medical Centre, 2008

Trauma-Informed Practice provides a new paradigm shift



Trauma-Informed Practice Approach

Allows clinicians, teachers, and caregivers to better:

- > Understand the strengths and vulnerabilities of individuals
- > Target developmentally appropriate activities & interventions

How We See Things Influences our Understanding & Response





A Different Understanding May Lead to a Different Outcome.....



"Your understanding determines your solution"

Dr. Stuart Ablon, Collaborative Problem Solving, 2010

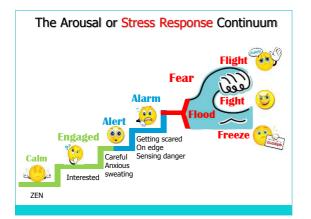
Won't vs Can't Behaviour

Is behaviour always within willful control?

- Behaviour management strategies that consequence bad behaviour <u>implies</u> that behaviour is in willful or conscious control.
- But what if a child's behaviour is a reflection of an unconscious reflective response to a trauma trigger?

Trauma Response Behaviour





The Physiology of Fight or Flight

What we know is happening...



How would you.....

- Define trauma?
- Decide what makes something traumatic as opposed to just stressful?
- Do children experience trauma or stress the same as adults?



Trauma – Medical Definition

A serious bodily injury or shock, as from violence or an accident.

(The American Heritage Medical Dictionary, 2007)

Trauma – Other Definitions

A response that involves intense fear, horror and helplessness; extreme stress that overwhelms the person's capacity to cope.

(American Psychological Association, 2000)

Trauma – Other Definitions

The experience of violence and victimization including sexual abuse, physical abuse, severe neglect, loss, domestic violence and/or the witnessing of violence, terrorism or disasters.

(National Association of State Mental Health Program Directors, 2006)

Trauma – A Brain Definition

Internal or external experiences:

- that persistently activate the "threat or fear response"
- that may impede brain development & function.

Traumatic Events in the Lives of Individuals

- > Physical, emotional or sexual abuse
- > Community violence & victimization
- > Abandonment & neglect
- Domestic violence
- Traumatic loss
- Natural disaster
- > Exposure to war, Refugee
- Medical trauma, injury, illness



Exposure to Trauma

It is an individual's <u>experience</u> of the event, not necessarily the event itself that is traumatizing.





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Our experience.

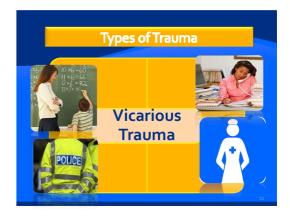
A trauma survivor's experience.













Complex Trauma Video Sponsored by Spokane County Community Network



Complex Trauma

- > Usually takes place at an early age
- > The exposure is sustained
- > Most pervasive impact to development

...especially when trauma occurs within the child's primary care giving system and/or social environment

Complex Trauma

Child's brain-based stress response system appears

to become permanently changed

Over-reactive Stress Response System

Children focus unconscious attention on the need to ensure safety!

Six Primary (Trauma) Risk Factors

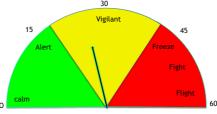


Toxic Stress Derails Health Development Harvard University Center on the Developing Child



Source: Dr. Karyn Purvis, Developmental Psychologist





"Zero to 60" Kids

The Stress Response in the Brain



- The stress response is crucial for survival.
- The stress response prepares us to react to danger.
- The stress response is operational at birth.

Humans are social creatures



A young child needs caregivers to survive.

The Stress Response System

Babies & young children can <u>experience</u> stress but can't regulate the stress response

i.e. they *don't have the ability to soothe or turn off* their stress response system.



They need caregivers to **co-regulate** or **"calm their distress".**

The Stress Response System



Was Designed for This

...But What About This?



Toxic Stress

Chronic activation of the Stress Response System in the absence of an attuned, responsive <u>caregiving relationships</u>

is one of the most **powerful activators** of the stress response system.

Children are More Vulnerable to Trauma than Adults

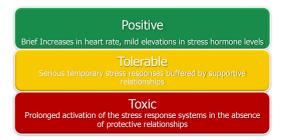
"The same sponge-like properties that enable our brain to absorb experiences such as language in the first 3 years of our life, also absorbs **chaos**, **threat**, **and fear** with the same facility as absorbing language."



Source: Bruce D. Perry, MD PhD

Not all Stress is Bad

Three types of stress:





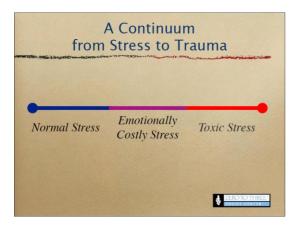
- Positive stress helps us learn new skills
- Positive stress can build resilience when we successfully manage stress



Over-reactive Stress Response

- The normal stressors of life for a well-regulated child makes them stronger.
- But if you expose a dysregulated child to the same normal stressors, it actually makes them worse!









"If you are trying to influence the brain you will likely be more successful if you have a better understanding of the brain."

Bruce D. Perry, MD, Phd, The Child Trauma Academy

Our Exciting Role to Support Building Brains



What Determines How Our Brains are Structured?

The building blocks of brain architecture:

What we are born with = our genes

The lives we live = our experiences



Brains Aren't Just Born, They're Also Built

Experiences in the first years of life actually affects the **physical architecture** of the developing brain.



Sturdy or fragile?

Source: Harvard Center on the Developing Child

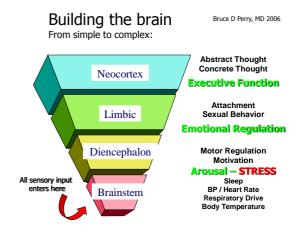


Brain Organization & Function Key Points

- The brain develops in a predictable fashion from the most primitive structures to the most complex.
- Basic functions develop first & provide the foundation for the development of later more complex functions.

One skill begets the next skill

Source: Bruce D Perry and The ChildTrauma Academy 2006-2011





Brain Organization & Function Key Points

- There are "Sensitive Periods" of brain development.
- The *first four years* of life are a developmentally *sensitive period.*



Experiences Build the Brain

The "Sensitive Periods" of brain development are a window in time when "something" must happen for normal development to take place.

All rights reserved Bruce D Perry and The ChildTrauma Academy 2006-2011

Sensitive Period of Brain Development

- ³/₄ of brain growth occurs between <u>third</u> <u>trimester and age 2</u>
- 90% of post-natal growth occurs <u>before</u> age 5
- This period devours more calories than any other phase of brain development



60% of infant's
 daily calories support brain development versus
 16% - 18% of adult's

How Does It Develop? In the Context of <u>*Relationships*</u>

- Healthy infant & child development is all about relationships
- Brains are built on the 'Serve & Return' of human interaction – a circle of communication



The Amazing Talents of the Newborn





- Quality of back & forth connectedness builds a baby's brain
- Needed for children
 to regulate their emotions,
 - to develop language,
 - to develop motor skills
- Soothing & calming a child through serve and return exchanges <u>helps the child learn that relationships &</u> <u>connections with others are essential</u>



These sensitive periods are also windows of vulnerability

The systems that are developing at this time are also most sensitive to environmental input—including traumatic experience or toxic stress.

Source: Bruce D Perry and The ChildTrauma Academy 2006-2011

The Still Face Experiment Dr. Edward Tronick, Harvard University



The Stress Response System

Repeated attuned co-regulation helps the child's brain begin to develop the capacity to self-regulate.

Take Home Messages

- Early experiences matter.
- Relationships are the active ingredient.
- Children need adults to co-regulate them in order to develop self-regulation skills.



 Babies & young children are highly adaptable--but they can pay a price if without "good enough" parenting.

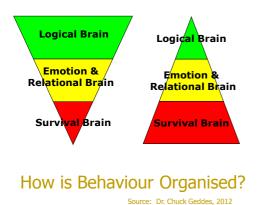
Key Pre-Requisites for Healing



- The development of "felt" safety
- The promotion of healing relationships (attachment)
- The teaching of self-management (self-regulation) and coping skills

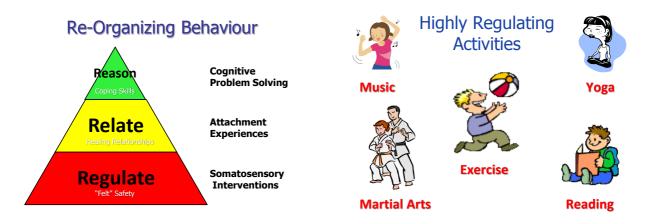


You can't change any part of the brain that you're not activating!



Logical Brain Emotion & Relational Brain Survival Brain

Brain stem reorganization is required if a child has experienced early years toxic stress





Patterned, Repetitive, Rhythmic sensory experiences naturally calm the lower brain.

- Music
- Movement: basketball, soccer, biking, jogging, swimming, etc
- Deep pressure, weight lifting, massage
- Deep Breathing, singing, blowing bubbles
- Yoga
- Mindfulness/Mind-Up Program
- Animal Assisted Therapy
- OT sensory assessment





- Movement: rough & tumble free play
 - -- 3 to 4 hours/day for optimal development for all children
- Bilateral movement helps stimulate neuronal growth
- Rough and tumble play builds <u>coordination and core</u> <u>strength</u>—reduces fear, builds sense of competence
- Movement helps calm emotions, teaches self-regulation

Elina Falck, Certified Trauma Specialist



The Joy of Play!!



- Play increases endorphins
- Physical activity every 2 hrs lowers stress chemicals
- All children learn better when in motion



Activities for Self-Regulation Dr. Bruce D. Perry



Be Consistent



- Children who have an over-reactive stress response are often very sensitive to changes.
- Be "boringly predictable"!



Teach feelings

- Label and give words to different feelings
- Help the child pay attention to the physical part of their emotional reactions.
- Teach healthy ways to act when having feelings.

Teach to Their Emotional Age

- Chronological and emotional age are often mismatched
- Reduce expectations
- Child may not have developed the neural pathways required to manage behaviour



Keep in mind

Some children

may need adults who are willing

to co-regulate with them

when their emotions run wild.



Calming the Mind & Brain "Just Breathe"



"They may forget what you said but they will never forget how you made them feel."

- Carol Buchner -

Tips to Teach

- Learn to notice and avoid emotional "triggers"
- Allow control: Keep to a routine, give choices
- Don't take behaviours personally
- Remain as calm, patient, logical as possible
- Acknowledge (and respect) the child's feelings
- Don't expect quick results!
- Practice Self Care to support Self-Regulation





Self Care as an Ethical Obligation

- "We can't teach what we don't know. We can't lead where we won't go." --- Malcolm X
- "You cannot give away that which you do not have."
 ---- Julie Alvarado
- You must look at what state a child is in to determine what intervention is most helpful. It's very difficult to help someone regulate if the person is not well regulated themselves.
 ---- Dr. Bruce D. Perry

Some Final thoughts.. Children Are Doing the Best They Can!

- Our job is to teach them how to adapt to our world
- Our job is to support them as teachers
- If we're both patient and persistent, we can help make the transition successful.



Trauma Informed Community of Practice

- Who: Monthly sessions are open to anyone who wishes to attend, no pre-registration required.
- What: An educational DVD is shown for 1 hour followed by facilitated discussion of DVD contents.

Sessions also provide an informal opportunity to network and cross share knowledge, resources, etc.

Trauma Informed Community of Practice

Where & When:

Chilliwack Community Services, Wellington St. Boardroom 3rd Thursday of each month, 9-11am

Agassiz Work BC, Pioneer St. meeting room 1st Thursday of each month, 9:30-11:30am

Mission Fraser House, meeting room 1st Wednesday of each month, 12-1pm

Thank You!



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