

The Importance of Early Years Critical Years for Setting Up a Fragile or Sturdy Foundation



"What happens during the first months and years of life matters a lot, not because this period of development provides an indelible blueprint for adult well-being, but because it sets either a sturdy or fragile stage for what follows."

Shankell, Jack P. & Debonih A. Philips, eds. From Wexnes to Neighborhoods: The Science of Early Childhood Development. National Research Council Committee on Integrating the Science of Early Childhood Development. Washington, D. C.: National Academy Press, 2000, S.





Harvard Child Development

The Importance of the Early Yea (0-3)

Experiences lay down

- Adaptive or toxic stress response patterns
- Positive or negative lifelong expectations (procedural memories)

- Neural connections and pathways (brain development)

http://developingchild.harvard.edu/resources/multimedia/vid eos/three_core_concepts/

• Emotional care vs. custodial care is the most important factor in health development and a source of resilience

















Safety is defined as...

A STA

Weighing these factors up against each other

- Degree of vulnerability
- Degree of protective factors
- Degree of threat

- Mary Pat Bohn, The Child Safety Guide

Cascade Effect



- Neglect disrupts the firing/wiring of brain architecture & circuits
- In 2010 alone, neglect accounts for 78% of all child maltreatment cases nationwide, far more than physical abuse (17%), sexual abuse (9%), and psychological abuse (8%) *combined. In Brief, The Science of Neglect, pg 2.*
- Finally, the vast majority of children who die as a result of child maltreatment are victims of neglect (70%), rather than other forms of child maltreatment (DHHS, 2013).
- Toxic stress disrupts circuits that exist
- "estimate that over 80% of foster children they examined suffered from developmental, behavioral, or emotional problems (between two and eight times the national averages)." Stock & Fisher, 2006, Child Welfare League of America, pg. 446.

Need for Translating Brain Development into Policy & Pract

"The expertise about early childhood development, brain development and trauma exists in different sectors and disciplines. Yet, we lack an integrated science of early childhood development...All this new knowledge on child development, trauma, the brain and protective factors is not being translated into public policy nor is it being introduced in our practice."

Jack Shonkoff M.D., Director, Center for the Developing Child at Harvard University



























- Recognize what stress recovery looks like:
 - Deep sleep
 - Green zone



What's the quality of sleep?

- Can baby/parent get to sleep?
- Can baby/parent stay asleep?
- Do baby/parent get enough total sleep?
- Does baby/parent wake up refreshed?
- Does baby/parent wake up and feel tired and cranky?





How Much "Green Zone" Do You Have? How much green zone behavior do you usually get, yourself, during any given day? [0, 25, 50, 75, 100%]

- Is there a difference in the "green zone" between a day during the week and on the weekend?
 - Some adults/children do "better" during the week when their lives are often more structured
 - Some adults/children do "better" during the weekend when there is often less structure

Step #1B: How do we identify three primary stress responses?



Recognize the three primary stress responses:

- Red zone
- Blue zone
- Combo zone



- Allostasis =
 - Healthy rubber band, that stretches out nicely and bounces back
 - Coordination between flexibility & stability
 - Flexible stress responses
 - Stable deep sleep and green zone











Step #1C: How do we identify toxic stress patterns?

Recognize stress responses that are too frequent, too quick / intense, too long

4 Toxic Stress Patterns

- 1. Over reactivity: Stress responses that occur too frequently and too guickly
- 2. Extended reactivity: Prolonged stress responses that take too long to recover (more than 10 to 20 mins)
- 3. Repeated reactivity: <u>Can't adapt to</u> "normal" challenges and transitions
- Dampened recovery: <u>Can't recover</u> from stress response back to baseline health (healthy sleep cycle, healthy awake state) McEwen

Adverse Childhood Experiences Scale

CA's ACE List

- 1. Recurrent physical abuse
- 2. Recurrent emotional abuse
- Contact sexual abuse
 An alcohol and/or drug abuser in the
- household 5. An incarcerated household member
- An incarcerated household member
 Someone who is chronically depressed,
- mentally ill, institutionalized, or suicidal
- 7. Violence between adults in the home 8. Parental separation or divorce
- Parental separation or divorce
 Emotional or physical neglect
- http://www.cavalcadeproduct ions.com/ace-study.html http://wichildrenstrustfund.or g/files/WisconsinACEs.pdf

http://acestudy.org/home

Resources

ACE Score Higher Than 4

Score 4 or more

· Twice as likely to smoke

- · Twice as likely to have heart disease
- · Twice as likely to be diagnosed with cancer
- · Four times as likely to have emphysema or chronic bronchitis
- Six times as likely to have sex before age 15
- · Seven times as likely to be alcoholics

Score 4 or more compared to 0 Score 4 or more compared to 0

- Twelve times as likely to have • attempted suicide
- Men with a score of 6 or more compared to 0
- . Forty-six times as likely to have injected drugs

Stress Patterns & Associated Health Issues

Disease does not begin at the onset of symptoms. In fact, maladaptive stress related conditions are implicated in all of the following:

- Toxic Patterns #1 to 3
- Increase in heart attack & hypertension
- Melancholic depression
- Obsessive compulsive disorder
- Panic disorder
- Alcoholism
- Lowered immune system Decrease in memory functions
- Diabetes .
- Malnutrition
- Hyperthyroidism •
- Functional gastrointestinal disease

Toxic Pattern #4 Allergies

- Asthma
- Autoimmune diseases
- Chronic fatigue syndrome • Rashes
- Rheumatoid arthritis
- ٠ Post Traumatic Stress Disorder
- http://www.theannainstitute.org/a-bio.html

Assess Procedural Soothing & Comfort



Optimally, ask for a shared journal between parents [fost/adop/kinship] that notes stress responses, triggers, and

what soothed the infant/child

- If there is not an immediate or robust answer to these questions, these are not likely "procedures" that are automatic, relational routines for soothing and comforting
- This is a red flag for this infant/child
- A picture is worth a thousand words...







SE Milestone Language Adapted by Connie Lillas reenspan, 1985, 1992; Greenspan & Lourie, 1981; Greenspan, DeGangi, & Wieder, 2001; ZERO TO THREE, 1994, 2005)







9. Emotional or physical neglect







Case #1		PARENT-CHILD	RELATIONSHIP MILE	STONES		
Child:0	Caregiver:	Examiner:	Date:	Diagnosis:		
-	1	2	3	4	5	6
e an X in the box that :hes the milestone and evement levels	Age appropriate under all conditions, including stress, with a full range of emotions	Age appropriate but vulnerable to stress and/or constricted range of emotions	Has capacity but not at age appropriate level	Inconsistent/needs sensorimotor support and structure to function at this capacity	Barely evidences capacity even with support	Has not reached this level
unctional Capacities						
11 Cattles Calm (Cases	1	BOTTOM-UP				v
Together (by 3 month)						X
y regenter (by 5 month)	These functions are b	uilt upon the capacity to	be calm together			
12. When calm, able to r eye contact & look at						x
13. When making eye ret, able to share joy & n love (by 5 months)						X
14. When sharing joy, to create a continuous and forth flow of nunication ("circles") nonhul						
15. When in a flow, able pand and read non- al emotional & gestural (by 13 to 18 months)						
17.100		TOP-DOWN				
16. When roading cues, to share feelings with rs through pretend play or by talking (by 24 to 36 x)						
17. When sharing tgs, able to make-sense solve problems together to 48 months)						

Practical Tips: Assess Procedural Engagement



A picture is worth a 1000 words

- If parent/child couple does not come to court, ask Infant Mental Health therapist to take a picture of the child "**playing with**" each of his or her caregivers and bring it to you; every time a case is reviewed, this should become routine protocol
- *State and Ask*: It is normal for infants/children to show us how they feel and to show their joy when being played with. How does each caregiver engage and play with his/her infant/child?
- Ask: What does this infant/child like to do with each parent? Ask: How frequently does each caregiver play with this
- infant/child?Ask: How long does this "play time" last for each caregiver with
- Ass: now long does this play time last for each caregiver with this infant/child?

It is rarely the case that there is a single cause to the symptoms we

 The meaning of behavior is based upon multiple causality, rather than singular causality, as multiple causes usually underlie the "behavioral problems" that are identified as the presenting problem
 Lillies & Turnold, 0.2009











We work from bottom-up to top-down

- We often divide and "unbundle" thoughts from feelings, mind from body, top-down from bottom-up
- From the NRF's point of view, we need to "bundle" together states of arousal, sense experiences, perceptions, memories, words, thoughts, and actions/movements
- We grow from bottom-up into top-down; the quality of the bottom-up regulation of the rate, rhythm, and force of our sensorimotor experiences influence the speed, coordination, and appropriateness of our emotions & thoughts





What We Are Going To See



At educational setting for teen parents; Anthony left in swing for hours on end, sleeping too much; notice his low, floppy tone when picked up

Sleeping "too much" can be a sign of depression and poor quality sleep just as "too little" can be depleting.



Things to Observe in Next Video



- Does he show any interest in the visual stimulation?
- Does he show any aversion to the tactile stimulation?





Things to Observe in the Next Video

- E's meaning-making system being triggered as A does not engage with her
- What do these comments tell us about her procedural memories?
 - What did grandma do to you, huh?
 - Oh, I'm so sorry.
 - Did your Auntie Daisy hit you?









Things to Observe in the Next Video

- A on the mat
- Does A show anti-gravity movements?
- Does A rotate his trunk?
- Does A move his upper body?
- Does A move his lower body?
- If so, does he move with reciprocal kicking or bi-lateral synchronization?

Typical "Organization of a case

Symptoms

- Teen mom
- Lack of joyful exchange Poor head control
- No eye contact
- Limited cooing
- Chronic avoidance/aversion to
- sensory input
- Primary blue zone state Sleeping too much
- . Lack of orienting to sights & sounds
- Lack of engagement
- .
- rolling, turning eyes or head

Diagnostic Categories Relationship Disorder •

- Sensory Processing Disorder .
- Trauma
- R/O Mood Disorder •
- . Speech Delay
- Sensory Modulation Disorder
- Motor Delay
- · History of Neglect
- Lack of movement of reaching,



- Speech Delay
- Step #3 **Individual Differences** Micro – Relevance Macro – Mental Health Teen mom No eye contact Hx of neglect in family Lack of joyful exchanges • Trauma · Lack of engagement • Relationship Disorder R/O Mood Disorder Macro - Early Intervention, Early Micro - Executive Care, & School District Poor head control Motor Delay Lack of movement of reaching, rolling, turning eves or head

Anthony and Erika's Shift

Do you Match or Counter his low intensity and slow rhythm to get Anthony to the Green Zone?

- From blue zone to green
- From flat facial features to smiles
- · From few sounds to cooing
- · From no movement to reaching
- · From lack of engagement to falling in love

What did we see?

- Anthony actually needed to be "countered" with better trunk support and...
- With rather vigorous movement (vestibular) input
- He needed to be "up-regulated"



















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Take Home Points



What To Look For:

- Toxic stress can be identified through non-verbal behaviors across the lifecycle and is especially important to be "seen" in birth to five year olds
 - Toxic stress can show up through red zone, blue zone, and/or combo zone behaviors that are too frequent or last too long
- Key red flags that indicate the need for "dyadic" (parentchild) intervention are:
 - Any toxic stress pattern
 - If the parent (e.g., birth/foster/kinship/adopt) cannot soothe his/her child
 - If the parent-child (e.g., birth/foster/kinship/adopt) cannot engage in joy





