


Model Case:
Using the NRF in Clinical Practice

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www.the-nrf.com

Outline



- Step #1, practice mapping pattern of toxic stress
- Step #2, practice mapping Levels of Engagement
- Step #3, walking you through the functional capacities for each brain system
- Practice mapping the Symptoms and Diagnosis onto 4 brain systems, micro and macro levels
- NRF Guiding Principles Review

Confidentiality Pledge



- We are honored to share a family's struggles
- We respect the journey
- We commit to keeping privacy to this day, in this room, for these families
- We use the descriptive terms such as "the baby in the Blue Zone and the toddler in the Red Zone" to keep a collegial conversation alive

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NRF takes “what matters” in early brain development, & translates 3 core concepts into 3 key clinical steps

<p>What Matters:</p> <ul style="list-style-type: none"> • Adaptive Stress/ Resilience versus Toxic Stress • “Serve & return” levels of high quality engagement • Healthy development of brain networks and circuits (architecture) 	<p>What to assess -3 steps to NRF:</p> <ul style="list-style-type: none"> • <i>Step 1:</i> Assess & intervene to improve stress and stress recovery patterns in child and parent • <i>Step 2:</i> Assess & intervene to improve the level(s) in the quality of engagement in relationships • <i>Step 3:</i> Assess & intervene to improve individual sources of vulnerability (triggers) & resilience (toolkits) in brain networks
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The NRF’s Three Steps



UCB, C. Lillas, © 2015 www.clipartof.com · 1114313

Organizing a Case

- **Step #1**
How deep or shallow are the roots to the tree?



- What is the sleep-awake cycle like for the baby/parent?
- Is there a toxic stress pattern?

Guiding Principles

- Always start at the earliest point in the breakdown
- If sleep is disrupted, we start with sleep
- If sleep is ok, we start with improving green zone

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Colors & HHH

Body States

Relational Styles

Assessment Principle

- Assess the Dimensions of Baseline Health Behavior According to:
 - **Duration:** the long and the short of the behavior
 - **Intensity:** the high and the low of the behavior
 - **Rhythm:** the fast and the slow of the behavior

This is critical to establish at the beginning of your intake and early phase of treatment so you know if you are making any gains!

Lillas & Turnbull, 2009, page 160

Organizing a Case

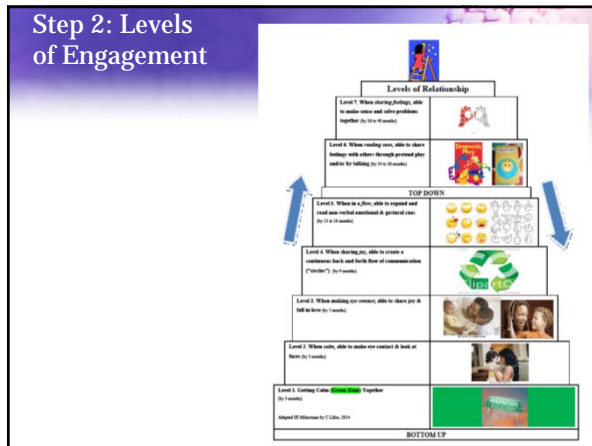
- **Step #2**
How thick or thin is the trunk of the tree?
- How far up the relational ladder can each dyad get?
- How much support does each dyad need?

Guiding Principle

- Always start at the earliest point in the breakdown
- Always start with developmental age, not the chronological age

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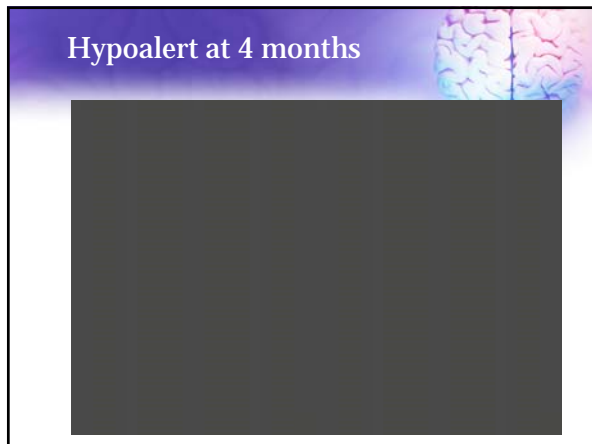
Case #2

PARENT-CHILD RELATIONSHIP MILESTONES

Child: _____ Caregiver: _____ Examiner: _____ Date: _____ Diagnostic: _____

Milestone	1	2	3	4	5	6
<p>Functional Capacities</p> <p>11. Getting Calm (Green) (18-24 months)</p> <p>12. When calm, able to make eye contact & look at face (18-24 months)</p> <p>13. When making eye contact, able to share joy & talk to face (18-24 months)</p> <p>14. When sharing joy, to create a continuous and forth flow of communication ("circling") (24-30 months)</p> <p>15. When in a flow, able to respond and send and receive emotional & gestural signals (24-30 months)</p> <p>16. When making eye contact, able to share feelings with us through pretend play or by talking (30-36 months)</p> <p>17. When sharing feelings, able to make sense and solve problems together (30-36 months)</p>	<p>Age appropriate under all conditions, including stress, with a full range of emotions.</p>	<p>Age appropriate but vulnerable to stress and/or restricted range of emotions</p>	<p>Has capacity but not at age appropriate level</p>	<p>Inconsistent/needs inconsistent support and structure to function at this capacity</p>	<p>Barely evidences capacity even with support</p>	<p>Has not reached this level</p>
FUNCTIONAL CAPACITIES						
BOTTOM-UP						
These functions are built upon the capacity to be calm together						
TOP-DOWN						

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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. Stress responses that occur too frequently and too quickly
2. Inability to adapt to "normal" challenges and transitions
3. Prolonged stress responses that take too long to recover (more than 10 to 20 mins)
4. Inability to recover from stress response back to baseline health (healthy sleep cycle, healthy awake state)
McEwen

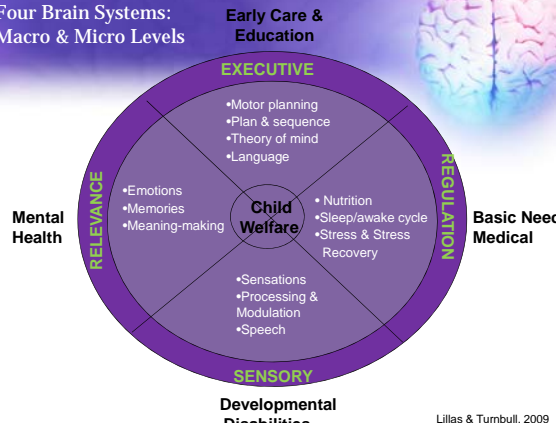
Organizing a Case

- **Step #3**
How strong or weak are the branches to the tree?
- **Assess for Individual Differences & Multiple Causes**
- **Map out all of the needs across systems of care on a "macro" level**
- **Map out the individual differences in all the functional capacities from each brain system on a "micro" level**



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Four Brain Systems: Macro & Micro Levels



Child Welfare

EXECUTIVE

- Motor planning
- Plan & sequence
- Theory of mind
- Language

REGULATION

- Nutrition
- Sleep/awake cycle
- Stress & Stress Recovery

SENSORY

- Sensations
- Processing & Modulation
- Speech

RELEVANCE

- Emotions
- Memories
- Meaning-making

Early Care & Education

Basic Needs/ Medical

Developmental Disabilities

Mental Health

Lillas & Turnbull, 2009

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Assessment Questions

- **Regulation System #1:** Does the infant, child, adult (parent) have a physical home and a medical home? Are there acute or chronic *medical issues* that need to be addressed?
- **Sensory System #2:** Does the infant, child, or adult (parent) show signs of any *developmental delays or disabilities* that requires further assessment or intervention?
- **Relevance System #3:** Does the infant, child, or adult (parent) show any signs of *relationship difficulties or mental health* concerns that need to be addressed?
- **Executive System #4:** Does the infant, child, or adult (parent) evidence any *motor* coordination problems, *learning disabilities*, or problems with planning, sequencing, and *executing* meaningful plans, along with *problem-solving* skills, which point to educational and learning needs?

Double Jeopardy Risk Factors

<p>Anthony</p> <ul style="list-style-type: none"> Drug exposure in utero VLBW & pre-maturity NICU - forced separation from mom Invasive medical procedures Exposure to violence Chase and Dodge Pattern 	<p>Erika</p> <ul style="list-style-type: none"> Substance Abuse Pre-term labor Pre-teen mom Victim of violence Acculturation/Poverty Relationship Disorder
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History Worksheet for the Four Brain Systems

This is a comprehensive worksheet divided into four main sections: Parental Risk Factors, Global Questions, Child Risk Factors, and four brain systems (Regulation, Sensory, Relevance, Executive). Each section contains a list of specific questions for clinical assessment.

- Parental Risk Factors:** Includes questions about parental mental health, substance use, and family environment.
- Global Questions:** Addresses general concerns about the child's development and well-being.
- Child Risk Factors:** Focuses on the child's own history, including trauma, medical issues, and social interactions.
- REGULATION:** Questions about the child's ability to regulate emotions and behavior.
- SENSORY:** Questions about the child's sensory processing and perception.
- RELEVANCE:** Questions about the child's relationships and social skills.
- EXECUTIVE:** Questions about the child's planning, problem-solving, and organizational skills.

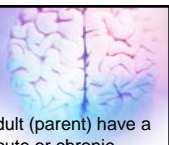
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The "developmental" story



- Life prior to pregnancy?
- Pregnancy context?
- Prenatal care?
- In utero development
- Labor and delivery
- Post partum
- Breast or bottle?
- Feeding difficulties?
- Bathing difficulties?
- Sleeping difficulties?

Assessment Questions



- **Regulation System #1:** Does the infant, child, adult (parent) have a physical home and a medical home? Are there acute or chronic *medical issues* that need to be addressed?

Assessment of Load Conditions and Current Brain Capacities for Child and Parents

Instructions:

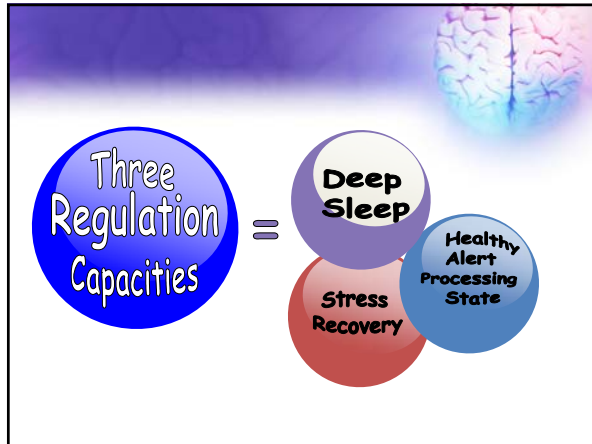
1. This is a guide to work from that applies to the parent (P1 and P2) and the child (C) for both capacities: **regulation** and **concerns** and **preferences & strengths**.
2. Place an (X) in the regulation area that do not apply to the child for developmental reasons.
3. The item highlighted in red are the most salient intervention points.

Name: _____

State: _____

	CONCERNS		PREFERENCES & STRENGTHS	
	P1	C	P1	P2
Three Load Conditions				
1. Too frequent, too many stressors				
2. Prolonged stress response without habituation				
3. Lack of stress recovery				
Regulation				
• Sleep (reg. cradling)				
• Feeding and responding (self-soothing state)				
• Expression of all three stress responses				
• Children react to sensory stimulation				
• Consistent to recent care				
• Difficulties with attention				
Sensory				
• General (body)				
• Pain (chronic, frequent, past, present)				
• Balance/coordination/proprioception				
• Proprioception (use of joints, muscles)				
• Vestibular (sway)				
• Tactile (light and deep touch)				
• Sight				
• Sound				
• Auditory				
• Vision				
• Thinking				
• Habituation				
Relationship				
• Full range of responses (quiet and engaged)				
• Appropriate access to full range of resources				
• Accurate monitoring of self and other				
Executive				
• Dependent adaptive balance				
• Organization/structure				
• Attentional focus				
• Problem-solving/decision				

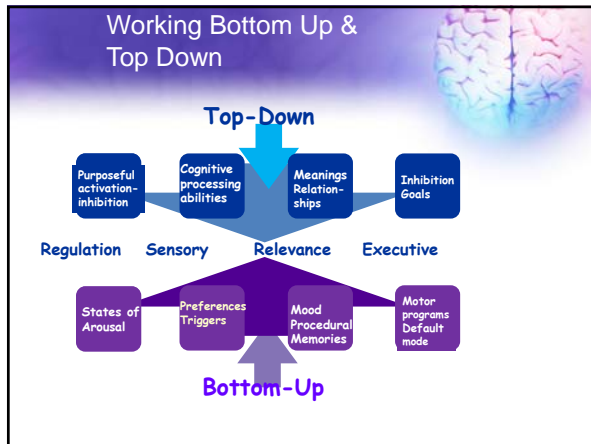
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- ### Functional Capacities of the Regulation System
1. *The capacity for deep sleep cycling*
 2. *The capacity for alert processing*
 3. The capacity for the adaptive expression of all stress responses
 4. The capacity for distinct states of arousal and smooth transitions between them
 5. The capacity for connection to visceral cues
 6. *The capacity for efficient stress recovery*

- ### Bi-directional Feedback of Visceral Cues
- Handout
 - Good/poor cue sender?
 - Good/poor cue reader?

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Sensory System

Typical sensations

- Visual
- Sounds
- Touch
- Smells
- Tastes

Less familiar sensations

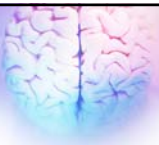
- Movement
- Deep touch pressure
- Active pressure on joints & muscles (proprioception)

History Worksheet for the Four Brain Systems

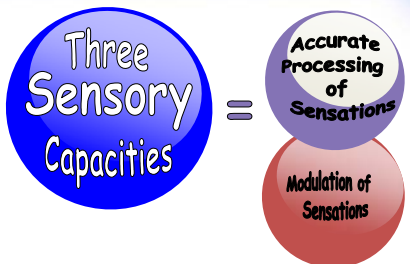
Parental Risk Factors That Can Compromise Parental Ability to Offer Their Child Support	Global Questions	Child Risk Factors That Increase Children's Threat for Adult Support
<p>REGULATION</p> <ul style="list-style-type: none"> Low parental attention Over-protective/over-attending Parental depression Parental anxiety Parental substance use Parental personality Parental mental illness Parental physical illness Parental personality Parental mental illness Parental physical illness Parental personality Parental mental illness Parental physical illness 	<p>REGULATION</p> <ul style="list-style-type: none"> • How does the parent's ability to regulate their own emotions affect the child's ability to regulate their own emotions? • How does the parent's ability to regulate their own emotions affect the child's ability to regulate their own emotions? • How does the parent's ability to regulate their own emotions affect the child's ability to regulate their own emotions? 	<p>REGULATION</p> <ul style="list-style-type: none"> • Parental depression • Parental anxiety • Parental substance use • Parental personality • Parental mental illness • Parental physical illness • Parental personality • Parental mental illness • Parental physical illness
<p>SENSORY</p> <ul style="list-style-type: none"> Low parental attention Over-protective/over-attending Parental depression Parental anxiety Parental substance use Parental personality Parental mental illness Parental physical illness Parental personality Parental mental illness Parental physical illness 	<p>SENSORY</p> <ul style="list-style-type: none"> • How does the parent's ability to regulate their own emotions affect the child's ability to regulate their own emotions? • How does the parent's ability to regulate their own emotions affect the child's ability to regulate their own emotions? • How does the parent's ability to regulate their own emotions affect the child's ability to regulate their own emotions? 	<p>SENSORY</p> <ul style="list-style-type: none"> • Parental depression • Parental anxiety • Parental substance use • Parental personality • Parental mental illness • Parental physical illness • Parental personality • Parental mental illness • Parental physical illness
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<p>EXECUTIVE</p> <ul style="list-style-type: none"> Low parental attention Over-protective/over-attending Parental depression Parental anxiety Parental substance use Parental personality Parental mental illness Parental physical illness Parental personality Parental mental illness Parental physical illness 	<p>EXECUTIVE</p> <ul style="list-style-type: none"> • How does the parent's ability to regulate their own emotions affect the child's ability to regulate their own emotions? • How does the parent's ability to regulate their own emotions affect the child's ability to regulate their own emotions? • How does the parent's ability to regulate their own emotions affect the child's ability to regulate their own emotions? 	<p>EXECUTIVE</p> <ul style="list-style-type: none"> • Parental depression • Parental anxiety • Parental substance use • Parental personality • Parental mental illness • Parental physical illness • Parental personality • Parental mental illness • Parental physical illness

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Assessment Questions

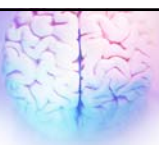


- **Sensory System #2:** Does the infant, child, or adult (parent) show signs of any *developmental delays or disabilities* that requires further assessment or intervention?



The diagram consists of a large blue circle on the left containing the text "Three Sensory Capacities". To its right is an equals sign. Further right are two smaller circles stacked vertically: a purple one on top containing "Accurate Processing of Sensations" and a red one on the bottom containing "Modulation of Sensations".

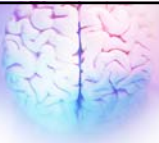
Functional Capacities of the Sensory System



1. The capacity to receive, translate, associate, and elaborate sensory signals within and across sensory modalities in a developmentally appropriate way (*sensory processing*)
2. The capacity to balance the flow of sensory signals in a way that is appropriate to context (*sensory modulation*)

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Processing Variables

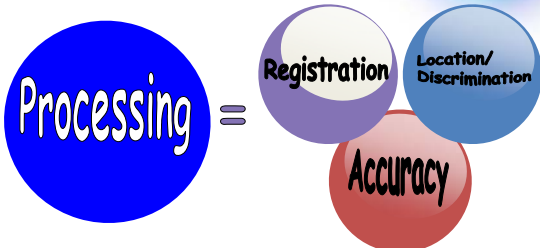


- Is the infant, child, adult *orienting* and *registering* the sensory information?
- Is the infant, child, adult accurately *identifying* the source of the sensory information?
- Is the infant, child, adult accurately *discriminating* the sensory information?
- Is the infant, child, adult accurately *following* and *tracking* the sensory information?

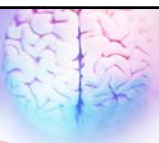
Capacity One...



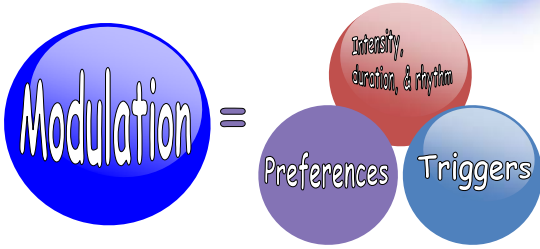
Processing = Registration, Location/Discrimination, Accuracy



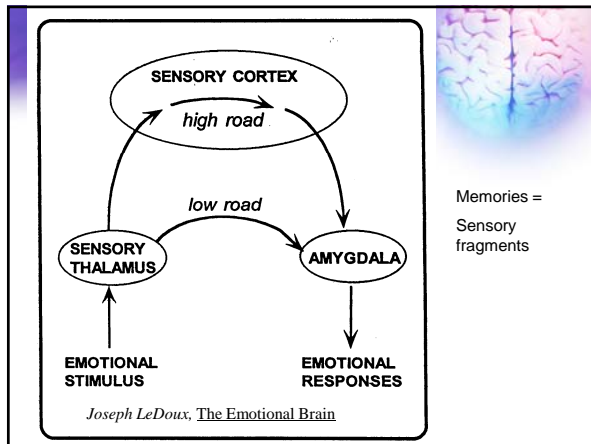
Capacity Two...



Modulation = Intensity, duration, & rhythm, Preferences, Triggers



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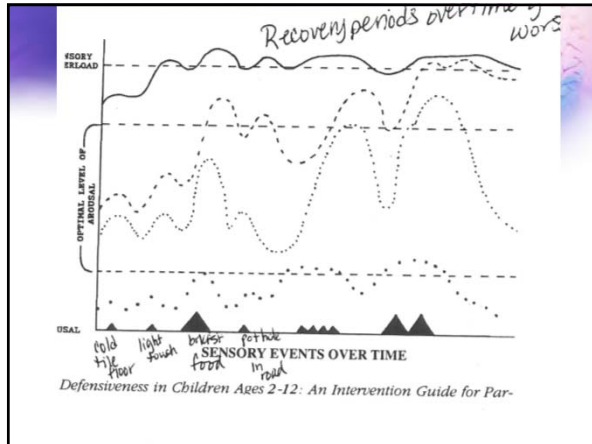
Sensory Preferences & Triggers

Preferences	Triggers
<ul style="list-style-type: none"> • Support down-regulation to sleep 	<ul style="list-style-type: none"> • Stimulate a stress or load response...
<ul style="list-style-type: none"> • Support calm, alertness for engagement 	<ul style="list-style-type: none"> • Because memories are "sensory" fragments
<ul style="list-style-type: none"> • Support stress recovery 	<ul style="list-style-type: none"> • Most often, are procedurally based and "automatic"

Intervention Principle

- By finding sensory preferences and the optimal duration, intensity, and rhythm of these sensory preferences, one can recover, maintain, and enhance the window of the alert processing state, support the sleep cycle, and promote stress recovery:
 - **Duration: long/mid-range/short of sensory preference**
 - **Intensity: high/mid-range/low of sensory preference**
 - **Rhythm: fast/mid-range/slow of sensory preference**
- Match or counter these dimensions to achieve optimal baseline health? Page 172-4, Table 5.3

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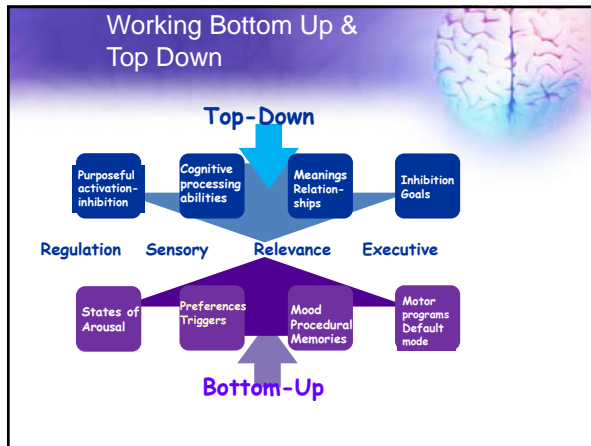
Matching or Countering the Sensory Modality

<p>Low Intensity, Slow Rhythm</p> <p><i>Match</i></p> <p>Lower lights and sounds Lower tone of voice Slow down vocal rhythm Slow down facial expression Slow movement</p> <p><i>Counter</i></p> <p>Increase lights and sounds High pitched tone of voice Rapid vocal rhythms Bright facial expressions Fast movement</p>	<p>High Intensity, Fast Rhythm</p> <p><i>Match</i></p> <p>Increase lights and sounds High pitched tone of voice Rapid vocal rhythms Bright facial expressions Fast movement</p> <p><i>Counter</i></p> <p>Lower lights and sounds Lower tone of voice Slow down vocal rhythm Slow down facial expression Slow movement</p>
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Organizing a Case, Treatment

- Step #3
- With “bottom-up” challenges, a good rule of thumb is to start with organizing individual sensory preferences & triggers
- Sensory preferences are used for sleep regulation, getting to - and staying - green, and for stress recovery

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Parental Risk Factors That Can Compromise Parental Ability to Offer Their Child Support	Global Questions	Child Risk Factors That Increase Children's Need for Adult Support
<ul style="list-style-type: none"> Low parental education Low parental income Low parental employment Parental substance use Parental mental health issues Parental history of child abuse Parental history of intimate partner violence Parental history of child neglect Parental history of child sexual abuse Parental history of child physical abuse Parental history of child emotional abuse Parental history of child neglect Parental history of child sexual abuse Parental history of child physical abuse Parental history of child emotional abuse 	<p>REGULATION</p> <ul style="list-style-type: none"> Are there any signs of dysregulation? (e.g., irritability, aggression, withdrawal, etc.) How does the parent regulate their own emotions? How does the parent regulate their child's emotions? <p>SENSORY</p> <ul style="list-style-type: none"> How does the parent regulate their own sensory processing? How does the parent regulate their child's sensory processing? <p>RELEVANCE</p> <ul style="list-style-type: none"> How does the parent regulate their own relevance processing? How does the parent regulate their child's relevance processing? <p>EXECUTIVE</p> <ul style="list-style-type: none"> How does the parent regulate their own executive functioning? How does the parent regulate their child's executive functioning? 	<ul style="list-style-type: none"> Low parental education Low parental income Low parental employment Parental substance use Parental mental health issues Parental history of child abuse Parental history of intimate partner violence Parental history of child neglect Parental history of child sexual abuse Parental history of child physical abuse Parental history of child emotional abuse Parental history of child neglect Parental history of child sexual abuse Parental history of child physical abuse Parental history of child emotional abuse

Assessment Questions

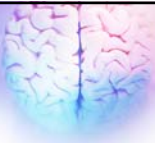
- Relevance System #3:** Does the infant, child, or adult (parent) show any signs of *relationship difficulties or mental health* concerns that need to be addressed?

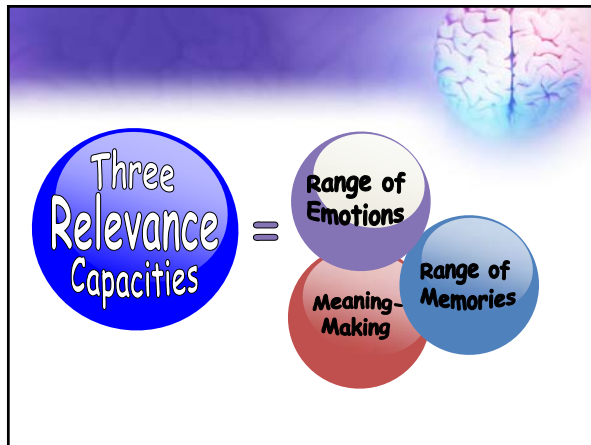
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Adverse Childhood Experiences Scale

CA's ACE List

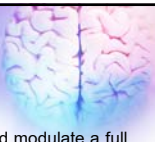
1. Recurrent physical abuse
2. Recurrent emotional abuse
3. **Contact sexual abuse**
4. **An alcohol and/or drug abuser in the household**
5. **An incarcerated household member**
6. Someone who is chronically depressed, mentally ill, institutionalized, or suicidal
7. **Violence between adults in the home**
8. **Parental separation or divorce**
9. Emotional or physical neglect





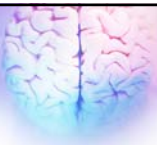
Functional Capacities of the Relevance System

1. The capacity to flexibly experience, express, and modulate a full range of emotions in ways that are appropriate to context
2. The capacity to learn from experience by scanning and accessing a full range of memories that are appropriate to the context
3. The capacity to create meanings that accurately reflect self and others



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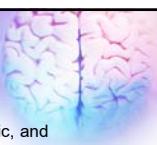
Assessment Questions



- **Executive System #4:** Does the infant, child, or adult (parent) evidence any *motor* coordination problems, *learning disabilities*, or problems with planning, sequencing, and *executing* meaningful plans, along with *problem-solving* skills, which point to educational and learning needs?



Functional Capacities of the Executive System




1. The capacity to express spontaneous, automatic, and consciously controlled behaviors in a flexible and purposeful manner
2. The capacity to integrate the bottom-up influences of emotions with the top-down control of thoughts
3. The capacity to assess, integrate, and prioritize one's own internal (self) needs in relation to external (context/other) needs

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DIAGNOSTIC CLASSIFICATION
0-3R TRIAGE SYSTEM:

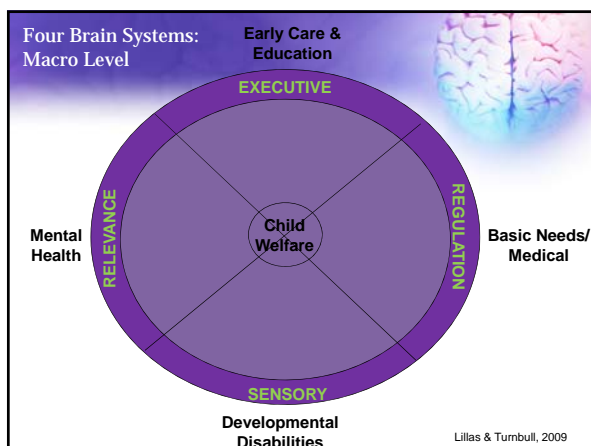
1. TRAUMA
2. GRIEF & LOSS
3. REGULATORY DISORDERS
4. ADJUSTMENT DISORDER
5. MOOD & AFFECT DISORDERS
6. MULTIPLE DELAYS (MDD) (genetics)
7. RELATIONSHIP DISORDER (AXIS II)
8. REACTIVE ATTACHMENT DISORDER
9. FEEDING & SLEEPING DISORDERS



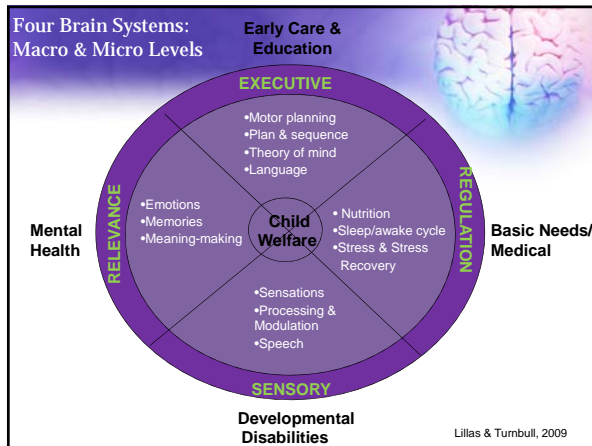
How would you organize this list of symptoms & diagnoses?

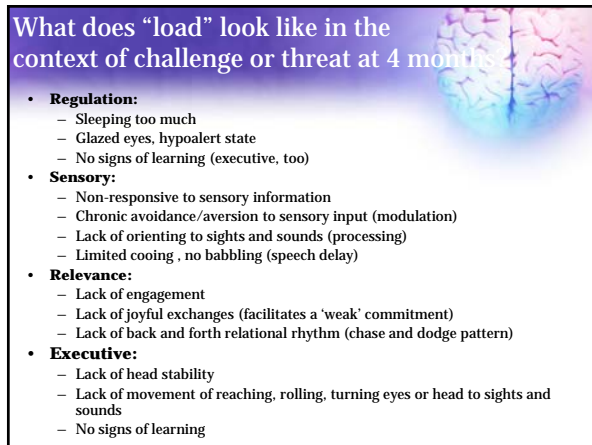
Symptoms	Diagnoses
<ul style="list-style-type: none"> • Lack of joyful exchanges • Poor head control • No eye contact • Limited cooing • Chronic avoidance/aversion to sensory input • Primary blue zone state • No signs of learning • Sleeping too much • Lack of orienting to sights and sounds • Lack of engagement • Lack of movement of reaching, rolling, turning eyes or head • Chase and dodge relational pattern 	<ul style="list-style-type: none"> • Relationship Disorder • R/O Mood Disorder • Trauma • Regulatory Disorder • Speech Delay • Motor Delay

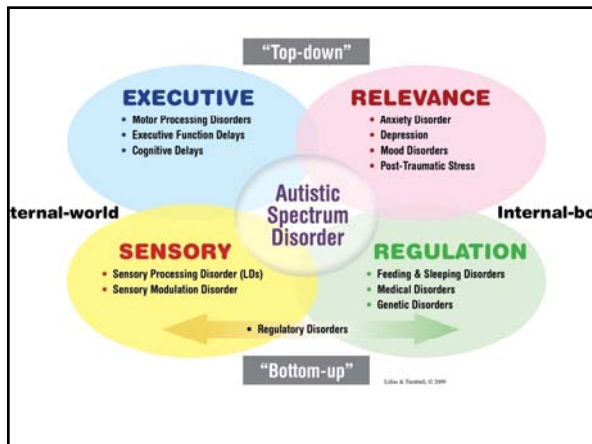




Model Case:
Using the NRF in Clinical Practice

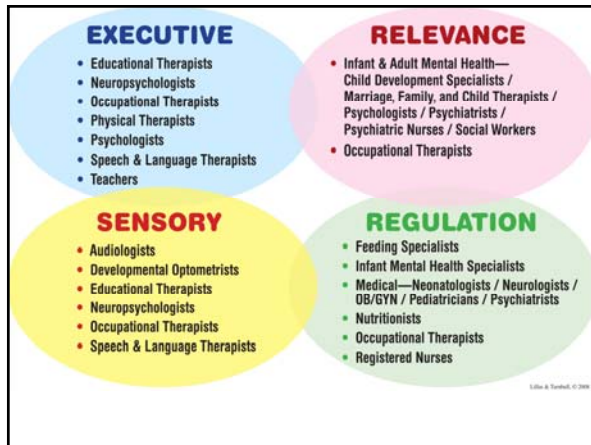






Model Case:
Using the NRF in Clinical Practice



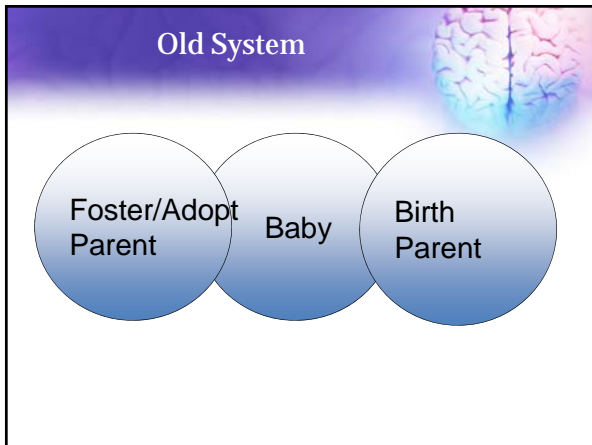


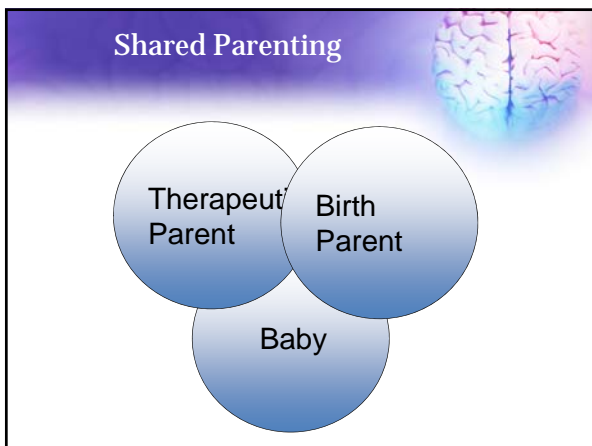
**Anthony and Erika
from Load to Coordination**

- **Regulation:**
 - Optimal state of arousal – calm and attentive
 - Bright shiny eyes
 - Signs of learning and relating
- **Sensory:**
 - Tolerating sensations
 - Orienting to sounds, sights, and touch
 - Cooing begun; sign of beginning speech & language
- **Relevance:**
 - Mutual pleasure and joy
 - Back and forth rhythm
 - Falling in love facilitating a strong commitment and increases chances of permanency and a nurturing relationship
- **Executive:**
 - Motor system at midline
 - Motor movement increased with looking, reaching, and kissing

Model Case:
Using the NRF in Clinical Practice







Model Case:
Using the NRF in Clinical Practice

Current Clinical Context & Culture

Conflation of the Use of Terms...

- Evidence Based Treatments &
- Evidence Based Practice

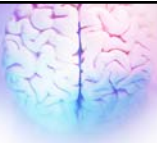
Different Definitions everything from...

- Stating there is no accepted definition
- Equating EBT with EBP
- Institute of Medicine, 2001




EB-Treatments are being equated with EB-Practice

- Evidence-Based Practice is:
 - **A decision making *process* that holds the tension between:**
 - The best available clinical research (EBTs)
 - Professional wisdom based in sound theory and practice
 - Cultural and family values (with informed choice)
 - » Buysee and Wesley, 2006



NRF Guiding Principles

- ***During assessment in Step #1, map out the Duration, Intensity, and Rhythm (DIR) of the stress zones during the awake cycle.*** This establishes your baseline so that you know if you are making any progress or not. Revisit your baseline parameters at least every three months.
- ***Always start at the earliest point in the breakdown.*** If sleep is disrupted, begin with addressing this aspect. If green zone is disrupted, begin with this goal as well. This principle applies to all three steps. Step #1 is the First Level of Engagement and the First Brain System, Regulation.




Model Case:
Using the NRF in Clinical Practice

NRF Guiding Principles




- **When working “bottom-up” for zone (arousal) regulation begin with finding the child’s individual sensory preferences and triggers.**
- **For treatment, match the sensory preference with the Duration, Intensity, and Rhythm (DIR) for the child’s nervous system that promotes sleep, the green zone, and stress recovery.**

NRF Guiding Principles



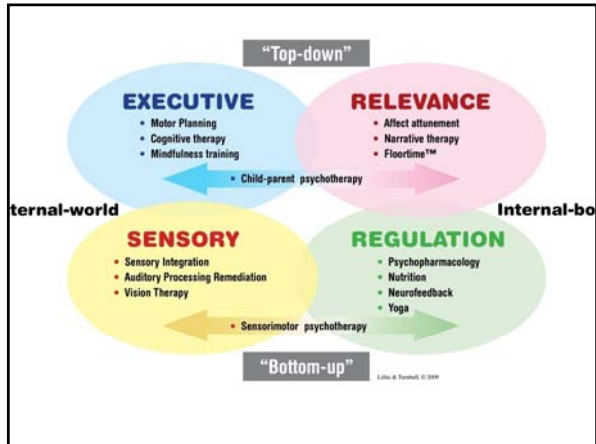
- **Sensory thresholds vary with each child and with each context.** Matching or countering the child’s zones of arousal are guided over time, with experimentation, and by watching the effect on the child’s ability to regulate to sleep and to the green zone.
- The child’s arousal patterns and procedural history are your guide, not the particular “treatment” or EBT you are using. **Individual neurodevelopment that is trauma informed trumps the EBT. Practice flexibility with stability.**
- **Change does not occur in a straight line. Always leave the door open for a family to return to you.**

Ports of Entry in Treatment



Bottom up treatment	Top down treatment
<ul style="list-style-type: none"> • Reading and working with non-verbal cues • Regulation of arousal • Using sensory preferences to calm, engage, and relax • Using sensory triggers to understand procedural memories • ‘Working through’ trauma with procedural enactments • Coaching & mentoring in real-time 	<ul style="list-style-type: none"> • Use of words & to interpret • Telling the story/narrative • Meaning-making <ul style="list-style-type: none"> – Linking past experiences with present – Reframing or narrating for the baby/child or parent – Interpreting a parallel process • Reflective practice • Making choices & Changing beliefs

Model Case:
Using the NRF in Clinical Practice



“Finding” Bottom-Up & Top-Down aspects to EBTs

<p>Bottom-up aspects to EBTs</p> <ul style="list-style-type: none"> • Trauma-Focused CBT <ul style="list-style-type: none"> - Recognition of trauma - Deep breathing - Calming measures - Individualized relaxation & stress management • Child-Parent Psychotherapy <ul style="list-style-type: none"> - Sensor motor disorganization & disruption of biological rhythms • DIR/Floortime <ul style="list-style-type: none"> - Sensorimotor support for engagement, intentionality, & complex cue reading 	<p>Top-down aspects to EBTs</p> <ul style="list-style-type: none"> • Psycho-education <ul style="list-style-type: none"> - Triple P • Use of narratives <ul style="list-style-type: none"> - Use of mood & emotions for meaning-making (CPP) - Beliefs for meaning-making (TFCBT) - Symbolic play with emotional themes (DIR) • Reflective skills <ul style="list-style-type: none"> - Mindfulness parenting skills
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Thank You!
