Applying the Neurosequential Model of Therapeutics (NMT)

A ROAD MAP TO SUPPORT EFFECTIVE ASSESSMENT, SELECTION AND SEQUENCING OF INTERVENTIONS, AND MEASUREMENT OF PROGRESS

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Who we are and why are we presenting this material?

What is NMT?

The Neurosequential Model of Therapeutics is a "trauma-informed," developmentally-sensitive, approach to the clinical problem solving process.

It is not a therapy – and does not specifically imply, endorse or require – any single therapeutic technique or method.

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Semi-structured, quantitative assessment process: NMT Clinical Practice Tools (Metrics)

- Developmental History
 - Genetic
 - **■** Epigenetic
 - Adverse Experiences
 - Developmental Timing
 - Nature, Severity, Pattern
 - Relational Health
 - Developmental Timing
 - Bonding and attachment
 - Family supports
 - Community supports

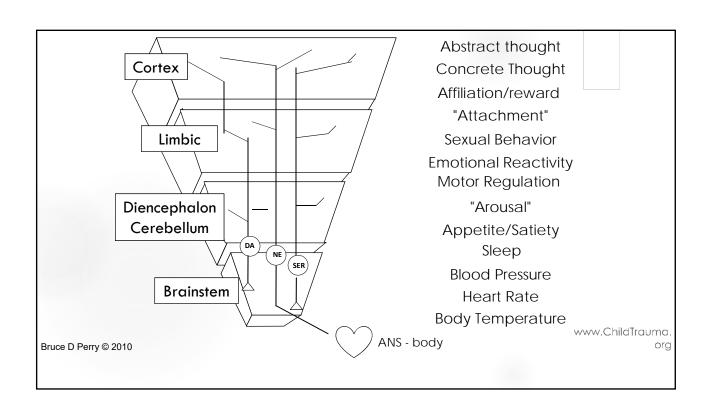
- Current Functioning
 - Individual CNS
 - **■**Brainstem
 - Diencephalon/CBL
 - **■**Limbic
 - Cortex/F TCTX
 - Relational
 - **■**Family
 - ■Peers
 - **■**School
 - **■**Community

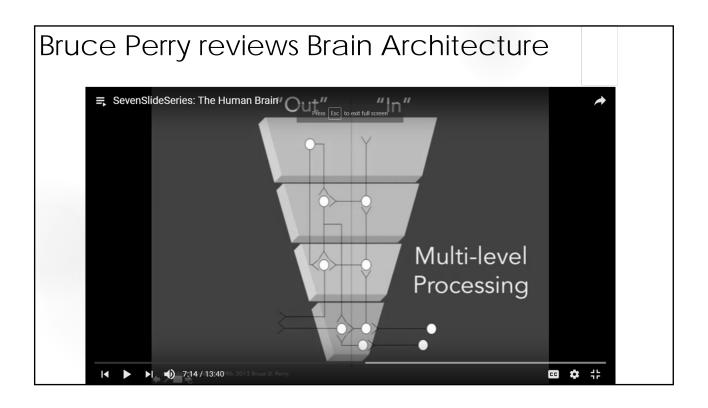
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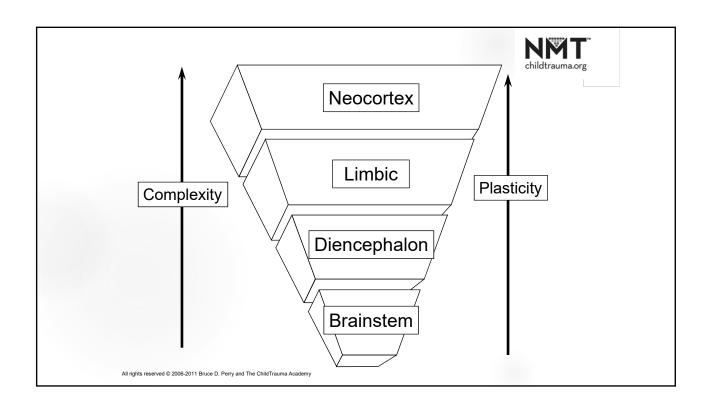
NMT Clinical Practice Tools (NMT Metrics)

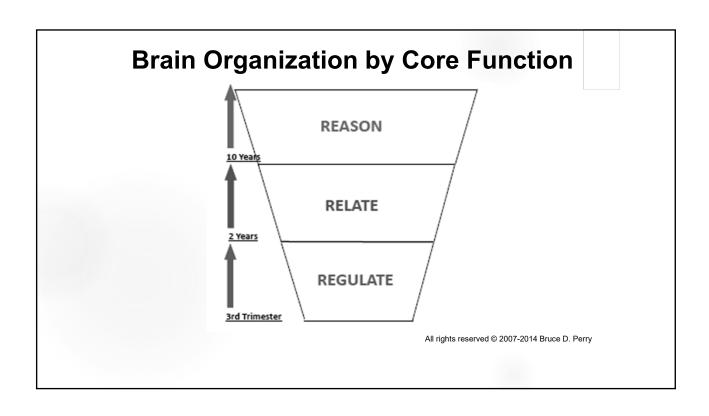
- 1. Is not a stand-alone evaluation or assessment.
- 2. Should <u>not be used out of context</u> of broader assessment and formulation.
- 3. Is <u>a supplement not a replacement</u> to clinical problem solving and planning.
- 4. Can inform information gathering, analysis, action and review but not appropriate for stand-alone evidence in court.
- 5. Final decisions and recommendations must be based on clinical expertise and judgment.

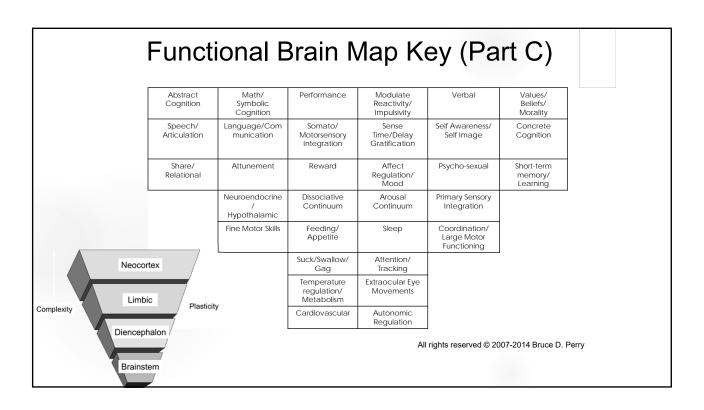
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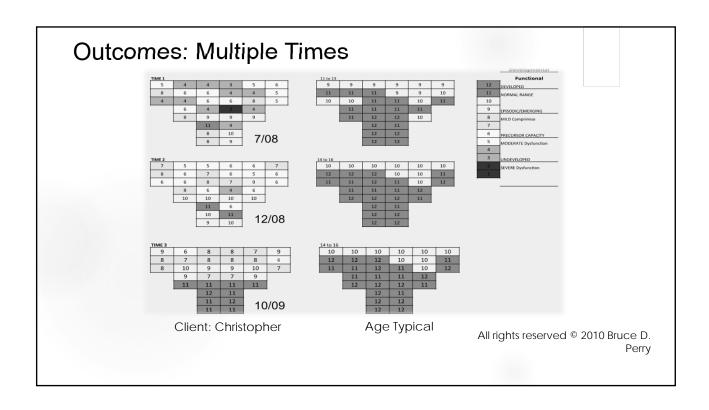


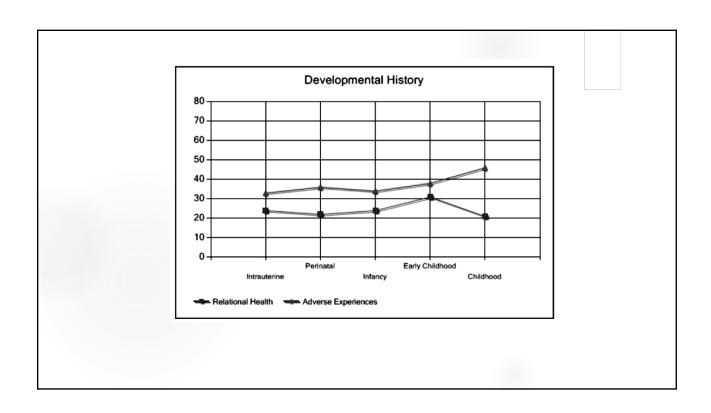


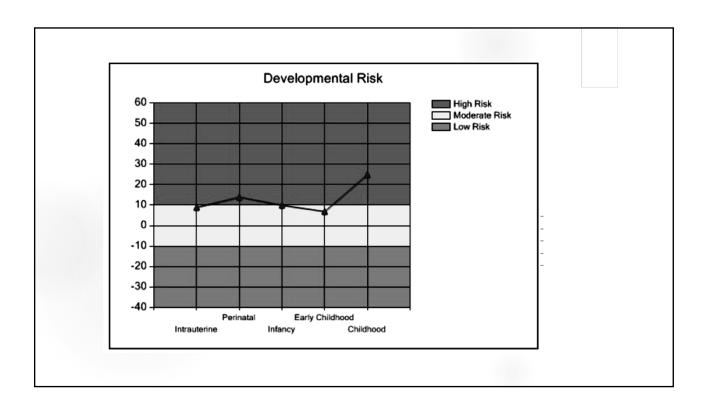


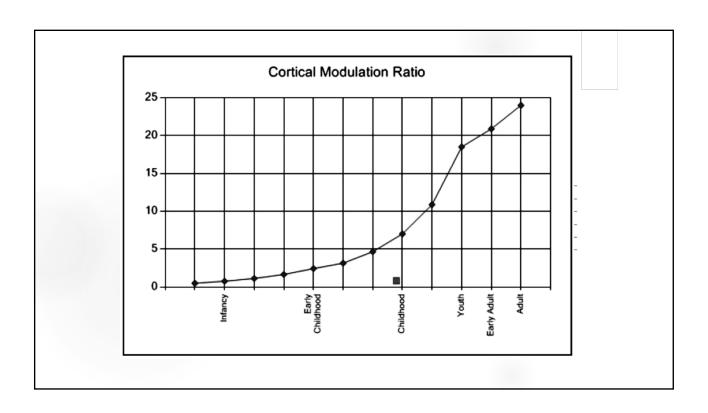


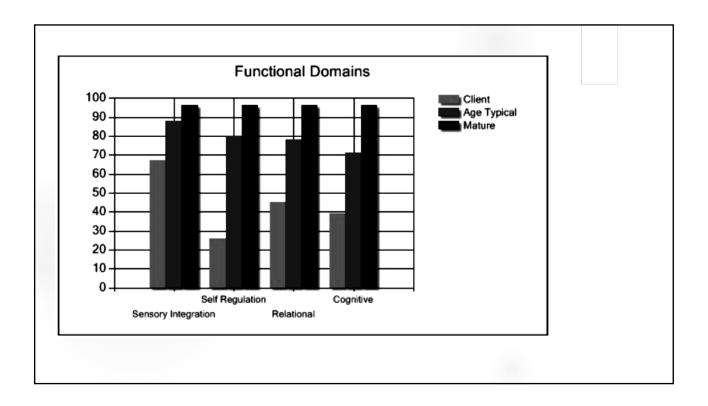








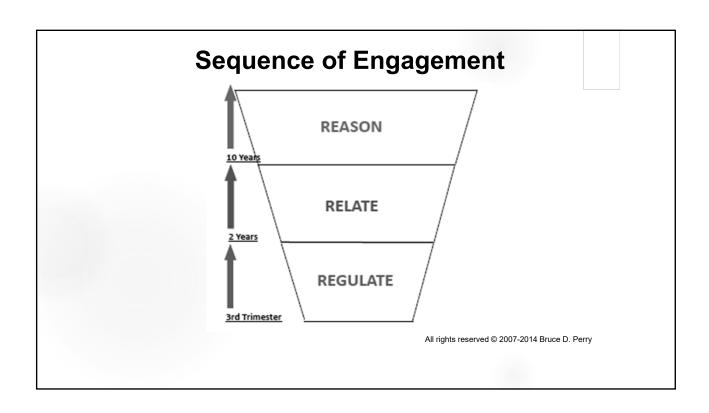




Neurosequential Model of Therapeutics (NMT) – Recommendations

- ► Essential = activities crucial to child's future growth in particular area. (Score below 65% of typical age score). Unless functioning in essential area is increased child will lack foundations for future growth and development in this and other areas.
- ▶ Therapeutic = activities aimed at building in strength and growth in particular area. (Scores within 65 to 85% of typical age are appropriate for more focused treatment). These activities are important for child's continued growth and improvement in area.
- ► Enrichment = activities providing positive, valuable experiences that continue to build capacity in given area. (Scores are at or above 85% of age typical functioning). Activities are designed to enhance and reinforce strengths previously built into area.





Core Elements of Positive Developmental, Educational and Therapeutic Experiences

- ► Relational (safe)
- ▶ Relevant (developmentallymatched)
- ▶ Repetitive (patterned)
- ► Rewarding (pleasurable)
- ► Rhythmic (resonant with biology)
- ▶ Respectful (child, family, culture)

A Background History...

- ► Maria is a12 year old female with a lengthy history in foster care
- Originally removed when she was 1 year old and reunified with bio mother but experienced a second removal, at age 8
- ► Exposed to a history of parental substance abuse, domestic violence and chaotic home environment, that included numerous moves and poverty
- ▶ Presenting with anger, low levels of impulse control, sleep disruptions, and a history of multiple placement disruptions

Initial Map

- ► Abstract cognition
- ► Modulate reactivity/impulsivity
- ▶ Row of Relational share/relational,
 - ▶ attunement/empathy, reward, affect
- ► Dissociative, Arousal continuum
- ► Attention tracking, sleep
- ► Cardiovascular, temperature regulation

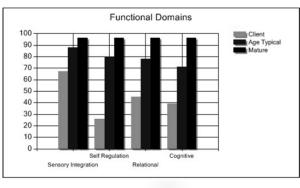
Client (10 years, 4 months)				Report Date: 9/2/2014			
	2	6	4	2	4	3	
	10	6	7	4	5	7	
	3	2	4	3	7	7	
		2	3	2	6		
		10	11	4	9		
			11	2			
			7	11			
			5	8			

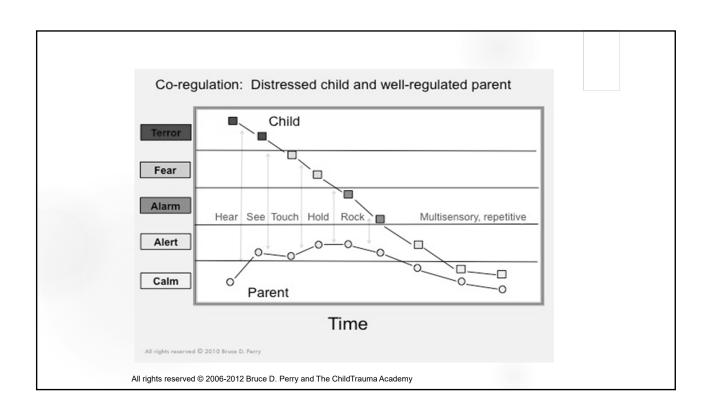
Age Typical - 8 to 10

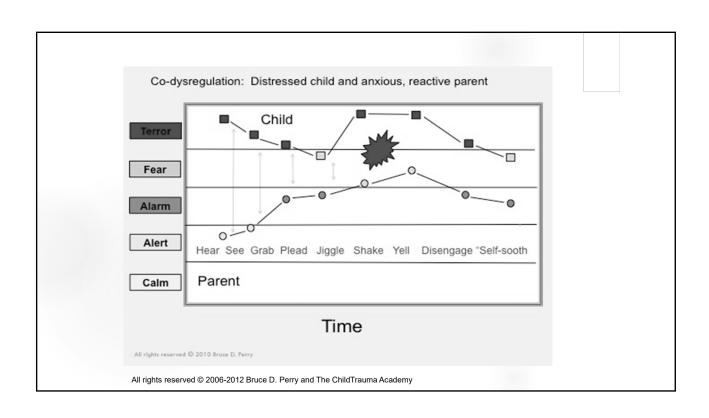
8	8	8	8	8	8
10	11	10	8	8	9
9	10	11	10	9	11
	10	10	10	11	
	10	11	11	9	
		12	11		
		12	12		
		12	12		

General Sequential Recommendations

- ► Sensory Integration Therapeutic 76%
- ► Self Regulation Essential 32%
- ► Relational Essential 57%
- ► Cognitive Essential 54%







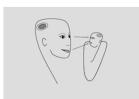
Interventions with Mother

▶ Engagement

- ▶ Relationship building over time
- ► Address bio parent's history of trauma and impacts on parenting (psychoeducation)
- ▶ Tangible resources, e.g. transportation, rent assistance, etc.
- ► System navigation

▶ Parent Coaching

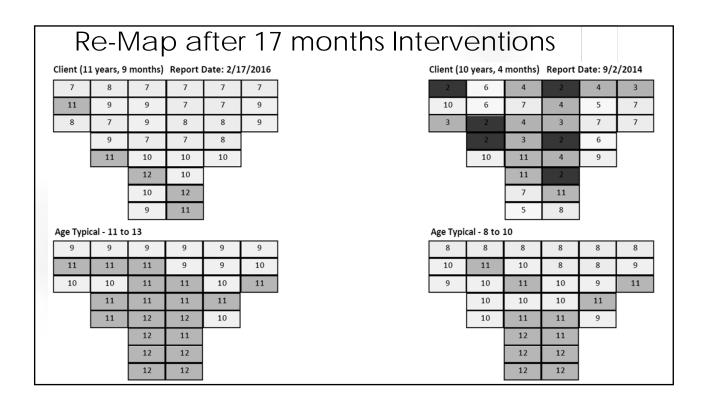
- ▶ Use of NMT metrics and resources for parent education and engagement
- ▶ Parent coaching Casey staff, Wrap Parent Partners, Therapist
- ▶ Space and opportunity for "dosing" availability of staff, therapist
- ▶ Learned about own dysregulation and impacts on child's response
- ► Co-joint therapy sessions.

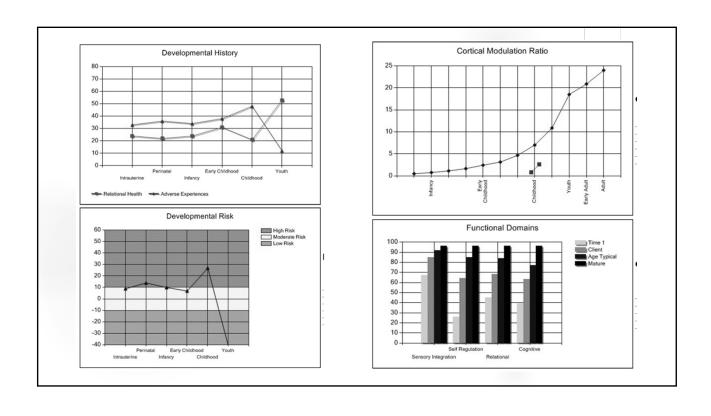




Therapeutic Activities with Youth

- Boxing
- Animal Interaction
- Traditional therapy with medication management
- Sleep Hygiene (Tea and reading)





Conclusions

- ▶ Set of useful tools and organizing concepts, regardless of NMT certification
- ► Grounded in brain science and neurodevelopment
- ► Assists with critically assessing interventions with a sequential lens that mirrors brain development
- ► Communication resource for parents, service providers, social workers, etc.
- ▶ Emphasis on sensory motor integration
- ► Strong emphasis on caregiver capacity as the main purveyor of change and healing

Questions?
FOR REFERENCES AND RESOURCES
WWW.CHILDTRAUMA.ORG