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"You never change things by fighting the existing reality. To change something, build a new model that makes the existing model obsolete."

- Buckminster Fuller

Essentially, all models are wrong, but some are useful.

--- George E. P. Box, in Norman R. Draper (1987). Empirical Model-Building and Response Surfaces, p. 424, Wiley. ISBN 0471810339

1

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WHAT IS NMT?

The Neurosequential Model of Therapeutics is a neuroscience-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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The NMT is both an 'evidence-based' and an 'evidence-generating' practice.

The web-based, standardized assessment elements allow the collection of aggregate data to facilitate the ongoing monitoring of a range of individual and program outcomes.

The model is designed to allow iterative modifications to improve program and treatment plan elements.

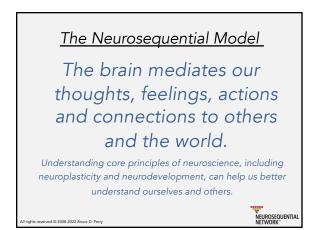
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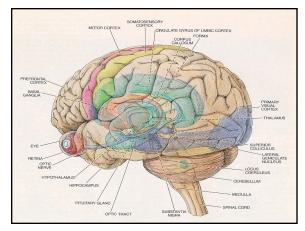
NEUROSEQUENT

NEUROSEQUENTIAL

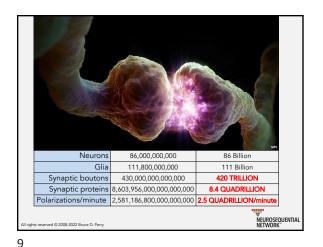
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Heuristic (/hjuˈnstik/; Greek: " b ", "find" or "discover") refers to experience-based techniques for problem solving, learning, and discovery that that employs a practical method not guaranteed to be optimal, but sufficient for immediate goals. Where finding an optimal solution is impractical, heuristic methods are used to speed up the process of finding a satisfactory solution via mental shortcuts to ease the cognitive load of making a decision. Examples of this method include using a rule of thumb, an educated guess, an intuitive judgment, stereotyping, or common sense.

In more precise terms, heuristics are strategies using readily accessible, though loosely applicable, information to control problem solving in human beings and machines.

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Creativity, planning, 'thinking'

Cortex

Hopes, aspirations

Sense of time/past, future Values, belief system

Pleasure/reward

Memory formation Attachment & bonding

Sexual behavior

Emotional reactivity

Accuracy

All operations

Brainstem

Heart Rate/breasting

NERROSSOUENITIAL

Memory formation Attachment & bonding

Sleep/wake

Diencephalon

Appetite/satiety Motor regulation

Brainstem

Heart Rate/breasting

The Neuroarcheaology of Experience and the Neurosequential Model

- The age at which an experience (e.g., an adverse event) takes place will determine the neurodevelopmental impact and the resulting functional consequences
- Therefore, a developmental history of the timing of adverse experiences (<u>as well as positive, attenuating</u> <u>experiences)</u> is crucial to understanding current functioning
- The NMT includes a developmental review of adverse experiences <u>and</u> the buffering effects of relational health ('connectedness').

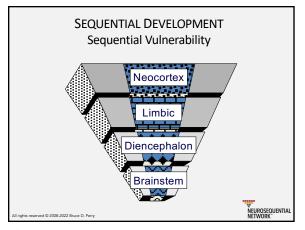
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NEUROSEQUENTIAL NETWORK

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The Neurosequential Model

Humans are complex – individually, in families, communities, cultures and across generations.

Overly simple constructs – including the Neurosequential Model – do not capture the depth and breadth of the human experience.

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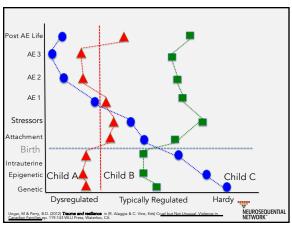
Neurosequential Model

It is important to understand mechanisms underlying current functioning.

Your understanding determines your solution - Stuart Ablon (CPS, 2010)

NEUROSEQUENTIAL

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The Neurosequential Model

Each person has a unique pathway to the present and deserves individualized care.

"One-size fits all" approaches rarely meet the needs of the individual – more often they meet a need of the provider (or system).

> NEUROSEQUENTIAL NETWORK

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Relational Complexity in Groups

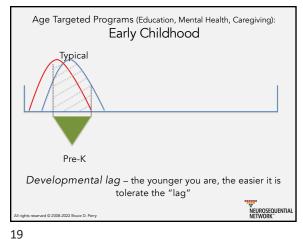
| Size of Group | Number of Relationships | | | | |
|---------------|----------------------------|--|--|--|--|
| 2 | 1 | | | | |
| 3 | 6 | | | | |
| 4 | 25 | | | | |
| 5 | 90 | | | | |
| 6 | 301 | | | | |
| 7 | 966 | | | | |
| 0 | . 2000 | | | | |

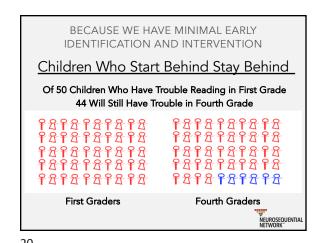
Adapted from Kephart, W.M. (1950) A quantitative analysis of intragroup relationships. American Journal of Sociology 60: 544-549

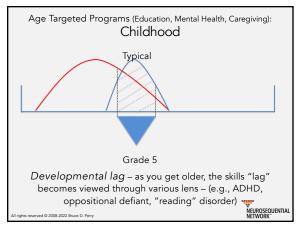
NEUROSEQUENTIAL NETWORK

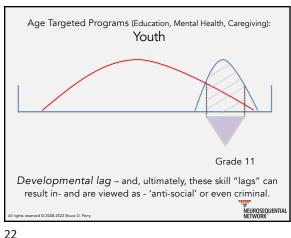
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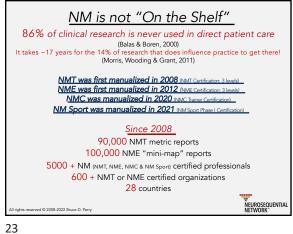


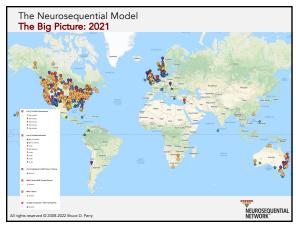




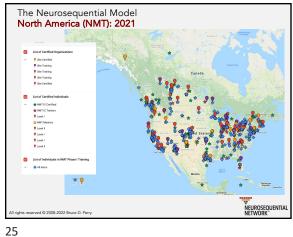


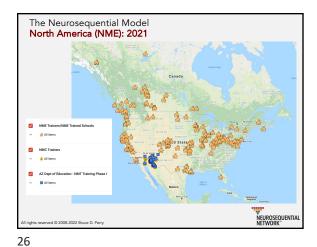


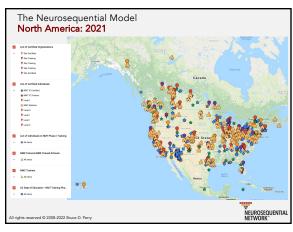


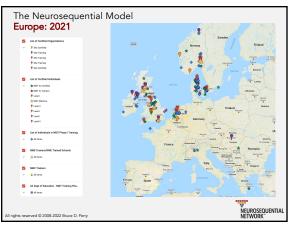




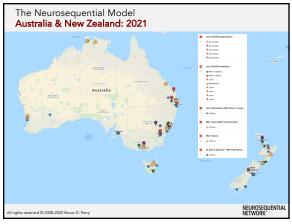


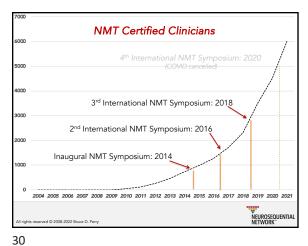






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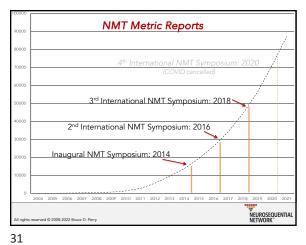




NEUROSEQUENTIAL NETWORK™

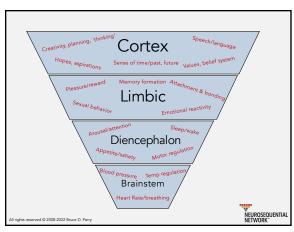


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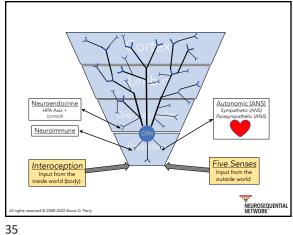


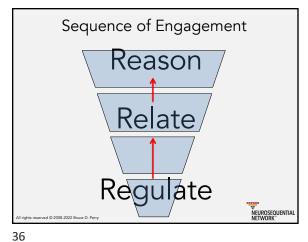
| Cumulative | | Web, | |
|---|-------|-------------|--------------------------|
| Clinicians, Teachers, | | Webinars, | |
| Caregivers | | Books, Live | |
| Exposed to the | YEAR | Training | |
| Neurosequential | 2004 | 6,000 | |
| Model | 2005 | 20,000 | |
| Wodel | 2006 | 40,000 | |
| | 2007 | 80,000 | |
| | 2008 | 120,000 | |
| | 2009 | 180,000 | |
| | 2010 | 250,000 | |
| | 2011 | 300,000 | |
| | 2012 | 350,000 | |
| | 2013 | 400,000 | |
| | 2014 | 500,000 | |
| | 2015 | 600,000 | |
| | 2016 | 800,000 | |
| | 2017 | 900,000 | |
| | 2018 | 1,000,000 | |
| | 2019 | 1,300,000 | |
| | 2020 | 1,800,000 | |
| | 2021 | 2,500,000 | -111- |
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| NMT, NME, NMC, NM Sport | Professionals Using NM | Children, Youth, Adults | Professionals Using NM | Children, Youth, Adults | |
|-------------------------------|---------------------------|----------------------------|---------------------------|----------------------------|---------|
| YEAR | (Direct) Cumulative | (Impacted/yr) | (Indirect) Cumulative | (Impacted/yr) | |
| 2004 | 1 | 25 | 10 | 250 | |
| 2005 | 4 | 100 | 40 | 1000 | |
| 2006 | 10 | 250 | 100 | 2500 | |
| 2007 | 12 | 300 | 120 | 3000 | |
| 2008 | 20 | 500 | 200 | 5000 | |
| 2009 | 45 | 1125 | 450 | 11250 | |
| 2010 | 44 | 1100 | 440 | 11000 | |
| 2011 | 120 | 3000 | 1200 | 30000 | |
| 2012 | 264 | 6600 | 2640 | 66000 | |
| 2013 | 462 | 11550 | 4620 | 115500 | |
| 2014 | 726 | 18150 | 7260 | 181500 | |
| 2015 | 992 | 24800 | 9920 | 248000 | |
| 2016 | 1278 | 31950 | 12780 | 319500 | |
| 2017 | 1708 | 42700 | 17080 | 427000 | |
| 2018 | 2618 | 65450 | 26180 | 654500 | |
| 2019 | 3418 | 85450 | 34180 | 854500 | |
| 2020 | 4200 | 105000 | 42000 | 1050000 | |
| 2021 | 5124 | 128100 | 51240 | 1281000 | |
| 2022* | 6000 | 150000 | 60000 | 1500000 | |
| | Direct | 676,150 | Indirect | 2,930,500 | |
| | | | TOTAL | 3,606,650 | NEUROSE |



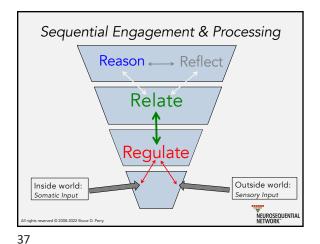
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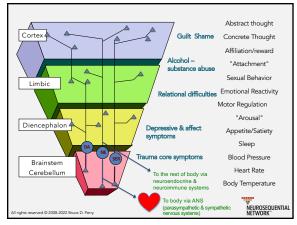




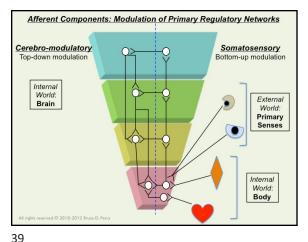
NEUROSEQUENTIAL NETWORK™



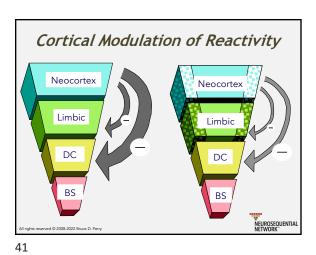




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Predictable disruptors of CRN functioning resulting in 'cascade' of vulnerability for global (pervasive) health problems Intrauterine insults
 EtOH, methamphetamine, malnutrition, maternal distress 2. Bonding & attachment disruptions Domestic violence Maternal isolation, Post-partum depression 3. Maternal history of attachment/bonding issues 3. Sensitizing pattern of stress response activation Chaos, unpredictability, 'splinter' neglect
"Out-group" experience – e.g., racism, gender, identity Exposure to violence, physical, sexual abuse Emotional humiliation, shaming, NEUROSEQUENTIAL NETWORK

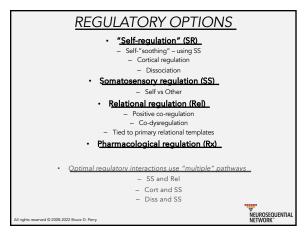


"Self-regulation" (SR) Somatosensory regulation/self-soothing (SS) Starts in womb; suck/swallow Tied to intrauterine and perinatal associations Breathing, walking, running, rocking, swimming, rhythm Doodle, hum, swing, jump, dance Cortical Modulation (CM) Tied to cortical development & state-dependence Dissociation (Diss) Inescapable, unavoidable, painful - Universal Adaptive continuum Mind-wandering to threat-induced full dissociation Used rhythmically ("in-out") NEUROSEQUENTIAL NETWORK

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The Six R's Key Elements of Positive Developmental and Educational Settings • Relevant (developmentally-matched) Rhythmic (resonant with neural patterns) • Repetitive (patterned) • Relational (safe) • Rewarding (pleasurable) · Respectful (child, family, culture) NEUROSEQUENTIAL NETWORK

Pleasure

Confidence

Practice

Masterv

NEUROSEQUENTIAL

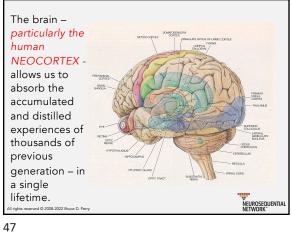
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Creating the Relational 'Space' for Optimal Development, Learning & Healing (or How do you like those P's?)

- · Present,
- Parallel,
- Patient &
- Persistent in Providing
- Patterned, Predictable, Positive doses of
 - Protected (safe) experience

NEUROSEQUENTIAL NETWORK

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The Relational Landscape is Changing Children have fewer emotional, social and cognitive interactions with fewer

It all starts with a sense of safety

The impact of "modern" life on the developing child has yet to be fully understood.

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Exploration

The Cycle of Learning

Discovery

Curiosity

people.

NEUROSEQUENTIAL NETWORK



Poverty of Relationships

The compartmentalization of our culture has resulted in material wealth yet poverty of social and emotional opportunity.

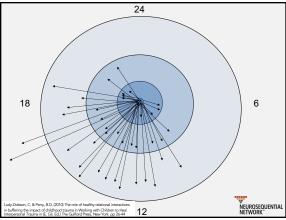
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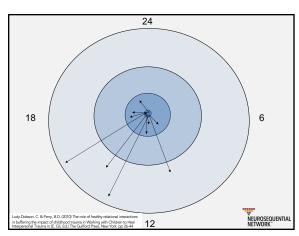
So What? Why does this matter?

Both the STRESS RESPONSE and the REWARD networks in the brain are shaped by relationships in early childhood – in healthy and unhealthy

Relationships have a key role in global health, creativity and productivity of a group



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On Becoming Humane

Being born a human being does not ensure a child will become humane.

Humans become humane. The capacity to care, to share, to listen, value and be empathic - to be compassionate - develops from being cared for, shared with, listened to, valued and nurtured.

Humane caregiving expresses our capacity to be humane. Inhumane caregiving can decrease or even destroy this capacity.

NEUROSEQUENTIAL NETWORK

The brain develops and organizes as a reflection of our genetic gifts, epigenetic heritage, intrauterine, perinatal and developmental experiences, organizing in response to the pattern, intensity and nature of our sensory and perceptual experience.

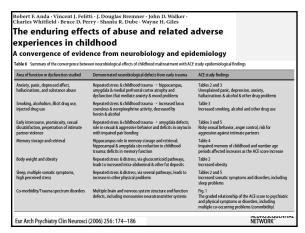
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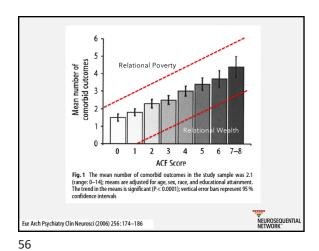
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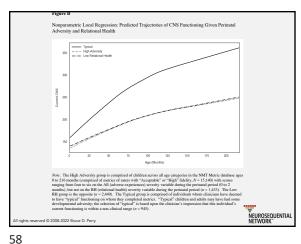
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Neurosequential Model Core Slides "Best Hits" Package









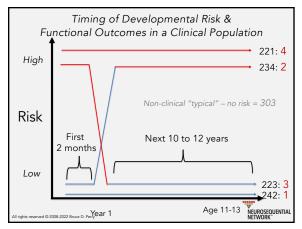
| Children Australia
| Volume 43 | Number 2 | pp. 105–115 | © The Author(s) 2018 | doi:10.1017/cha.2018.2 Examining Developmental Adversity and Connectedness in Child Welfare-Involved Children NEUROSEQUENTIAL NETWORK

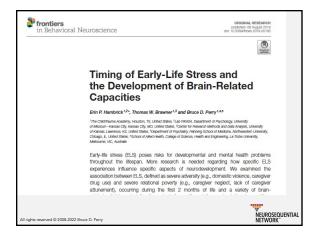
Connectedness is the key. Your history of connectedness is a better predictor of your health than your history of adversity. Be with each other. Celebrate diversity. Listen and learn from others. Share time, food, work. The 'super-power' of humankind is our capacity to connect; it is regulating, rewarding and the major "route" by which we can teach, coach, parent, heal and learn. NEUROSEQUENTIAL NETWORK

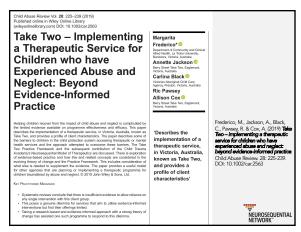


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Neurosequential Model Core Slides "Best Hits" Package







Resourcing the System and Enhancing Relationships: Pathways to Positive Outcomes for Children Impacted by Abuse and Neglect

This paper demonstrates bringing together clinical services, research and training in a loop of evidence-informed and evidence generating practic utilizing the Neurosequential Model of Therapeutics (NMT) to improve assessment and intervention for children impacted by abuse and neglect. Take Iwo client data (n = 677) between 2010 and 2017 were analyzed. Repeat measure analysis found children demonstrated statistically significant improvement, benefitting from a relational model of intervention prioritizing building a system of therapeutic relationships to promote resilience and positive sense of self.

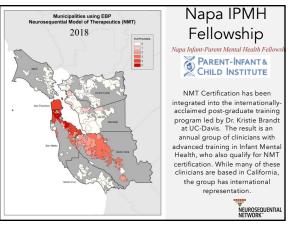
Child Wellare

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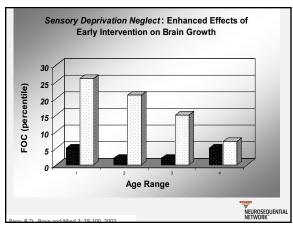


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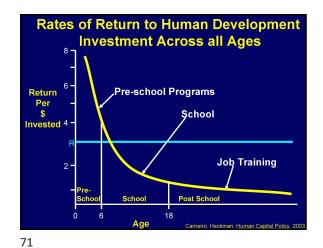


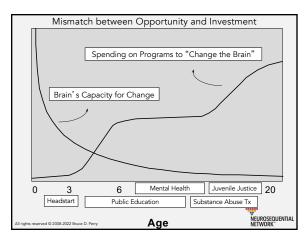
Routledge Taylor & Francis Green Including Neuroscience in Social Work Education: Introducing Graduate Students to the Neurosequential Model of Therapeutics Christie Mason, Brian L. Kelly, and Virginia McConchie NEUROSEQUENTIAL NETWORK



Creating Policy and Practice that Capitalize on Biological Gifts Democracy, public education, suffrage, civil rights - and, ultimately, early childhood investment and communities rich in relational health

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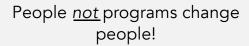


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NEUROSEQUENTIAL NETWORK

NEUROSEQUENTIAL





The effective agents of change in any successful program, project or system are human beings.

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Yet successful programs provide the people, process and "program" elements that put the "right" people together in "right" ways at the "right" time.

The effective agents of change in any successful program, project or system are human beings.

NEUROSEQUENTIAL NETWORK

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NIMH Research Domain Criteria

RDoC

- Focus on genetic, epigenetic, neural network and related biomarkers along with "symptoms"
- The major RDoC research domains:
 - Negative Valence Systems
 - Positive Valence Systems
 - Cognitive Systems
 - Systems for Social ProcessesArousal/Modulatory Systems

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DSM

- "a diagnostic system limited to clinical presentation could confer reliability and consistency but not validity"
- Minimal focus on mechanism – fundamentally "descriptive" and symptom focused

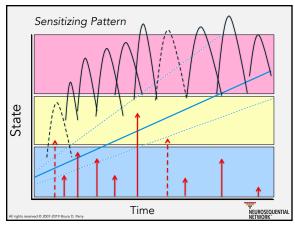
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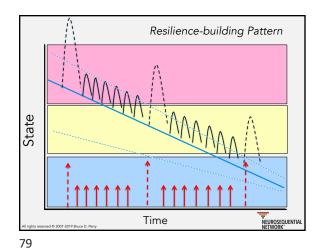
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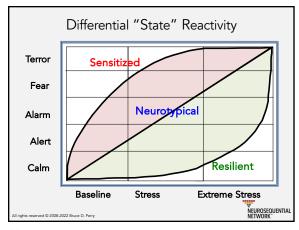
The Challenge of "Diagnosis" in Mental Health Brain Heart 86 billion unique neurons
 2 billion heart cells – 5 times as many glia - each neuron 5000 - 20.000 • Dozens of major sub-systems synaptic connections - Nerve, muscle, vessels - 100s of neurotransmitters • A handful of major "main" Hundreds of major neural networks functions Thousands of functions · Hundreds of distinct cardiac 90 % of children/youth in public MH Clinics have 1 of 8 "diseases" 'diseases" – often "comorbid" NEUROSEQUENTIAL

Stress
Unpredictable
Severe
Prolonged
Controlled
Vulnerability
Resilience

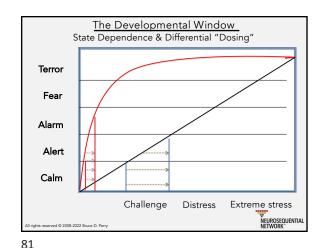


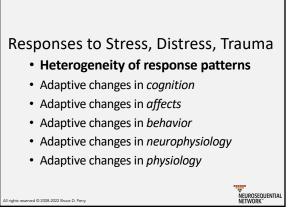




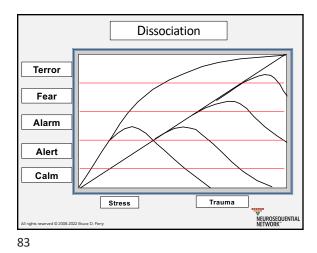


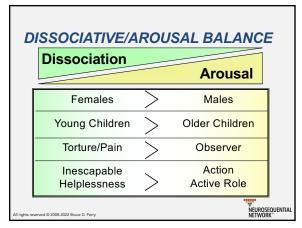
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Neurosequential Model Core Slides "Best Hits" Package

All Brain Functioning is "State" Dependent

The brain is a rhythmic, dynamic organ.

All functioning of the brain will vary depending upon the "state."

Asleep or wakeful the brain will have varying activation in cognitive, social, emotional, motor and all other brain mediated functions.

Both sleep and wakefulness also have various states which involve shifts in the activity of key neural networks.

Novelty, transition and threat will all shift internal state.

e D Perry, MD, PhD © 2010-2016

| | | | 1 | | |
|-------------------------------------|---|---------------------|--------------------|-----------------------|-----------------------------|
| Sense of Time | Extended Future | Days Hours | Hours Minutes | Minutes Seconds | Loss of Sense of Time |
| Primary secondary Brain Areas | NEOCORTEX Subcortex | SUBCORTEX Limbic | LIMBIC Midbrain | MIDBRAIN Brainstem | BRAINSTEM Autonomic |
| Cognition | Abstract | Concrete | Emotional | Reactive | Reflexive |
| Mental State | CALM | ALERT | ALARM | FEAR | TERROR |
| All rights reserved © 2007-201 | All rights reserved 0: 2007-2019 Block D. Plerry NEUROSEQUENTIAL NETWORK | | | | |

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| Organizational Pressures | Resource-surplus Predictable Stable/Safe | Resource-limited Unpredictable Novel | Resource-poor Threatening Inconsistent |
|-------------------------------------|--|---|--|
| Prevailing Cognitive Capacity | Abstract Creative (IQ = 120) | Concrete Superstitious/Defensive (IQ = 100) | Reactive Regressive (IQ = 80) |
| Prevailing Affective 'Tone' | CALM | ANXIETY | FEAR |
| Systemic Solutions | Reflective INNOVATIVE | Concrete SIMPLISTIC | Fear-based REACTIONARY |
| Focus of Solution | FUTURE Intentional Inflection | SHORT-TERM Serendipitous Inflection | PRESENT Forced Inflection |
| Policies and Practices | Abstract Conceptual | Concrete Superstitious Intrusive | Restrictive Punitive |
| Staff & Supervisory Practices | Nurturing Flexible Enriching | Ambivalent Obsessive Controlling | Apathetic Oppressive Harsh |
| ts reserved © 2008-2022 Bruce D. | Perry | | NEUROSEQUEN NETWORK |

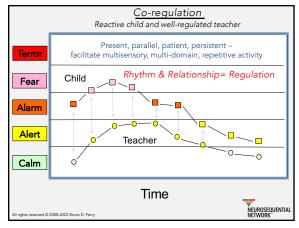
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| Primary NE | Reflect EOCORTEX Subcortex | Flock SUBCORTEX Limbic | Freeze LIMBIC Midbrain | Flight MIDBRAIN Brainstem | Fight BRAINSTEM |
|--------------|----------------------------------|-------------------------|--------------------------|----------------------------|-----------------|
| secondary St | | | | | |
| | | | | D.G.IIJEIII | Autonomic |
| Cognition A | Abstract | Concrete | Emotional | Reactive | Reflexive |
| Mental State | CALM | ALERT | ALARM | FEAR | TERROR |
| | | | | | |

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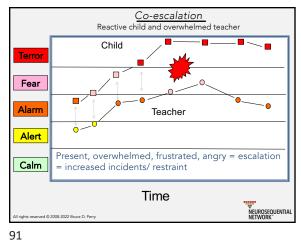
| Predictable De-escalating Behavior (behaviors of the teacher | Calm sounds Personal space | Quiet voices Eye contact Confidence | Comforting and predictable voice; invited therapeutic | Calm, quiet, presence | Calm affect |
|--|---|--|---|---|---|
| when the child or classroom is in various states of arousal) | Predictable touch Predictable routine | Confidence Rhythmic movement Clear directions Somatosensory activities | touch Singing, humming, music Reflective listening Reassurance | Disengage Turn off lights, white noise Reduce sensory input | Disengage but don't disappear Adult support Individual attention |
| Behavior . | Loud Noises Close uninvited proximity Unpredictable touch Changes in daily routine or schedule | Frustration or anxiety Communication from a distance (like yelling) Complex directions Ultimatums | Raised voices Raising hands/point finger, sudden movement Threatening tone Chaos in classroom, disorganization of materials | Frustration of teacher Yelling, chaos Collective dysregulation of peers | Physical restraint grabbing, shakin Screaming Intimidating stance |
| "Mediating" Brain Region | NEOCORTEX Cortex | CORTEX Limbic | LIMBIC Midbrain | MIDBRAIN Brainstern | |
| Cognition | ABSTRACT | CONCRETE | EMOTIONAL | REACTIVE | |
| CLASSROOM "STATE" | CALM | ALERT | ALARM | FEAR | TERROR |
| CLASSROOM info | effection and ensolidation of new formation is actively king place; or while sting, efficient retrieval of entent is possible. | Active teaching can take place; students are internalizing new content and, 'mind wandering' to efficiently store new content. | Learning new content is difficult; students are either disengaging or acting out. Increases in individual self- regulatory behavior seen. | Learning is impossible. Engaging students difficult. Many demonstrate 'freeze' responses that appear oppositional/defiant. Increased acting out. | |

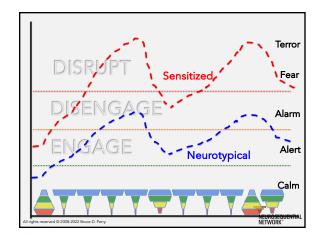
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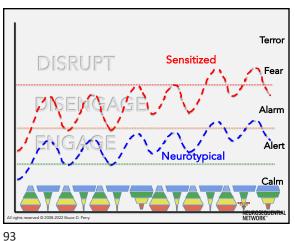


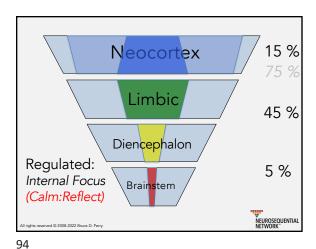


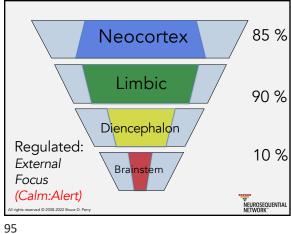


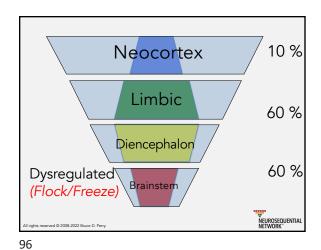






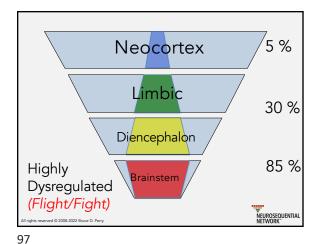


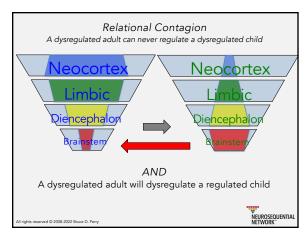




NEUROSEQUENTIAL NETWORK™







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Semi-structured, quantitative assessment process: NMT Clinical Practice Tools (Metrics) ■ Developmental History ■ Current Functioning ☐ Genetic ■ Individual CNS ■ Epigenetic ■ Adverse Experiences
■ Developmental Timing ■ Diencephalon/CBL □ Limbic
□ Cortex/F TCTX Nature, Severity, Pattern ■ Relational Relational Health
Developmental Timing
Bonding and
attachment
Family supports □ Family ■ Community ■ Community support: NEUROSEQUENTIAL

NMT Brain Mapping Process

- The key indicator of brain organization and neurophysiological status is function
- By creating a simplified construct the brain map – assessment of key brain-mediated functions can help "localize" neurodevelopmental vulnerabilities and strengths
- This "localization" helps direct developmentally-sensitive interventions

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Neurodevelopmental Risk

- The NMT process involves assessing the timing, nature and intensity of adverse events
- The timing, nature and quality of "buffering" relational health is assessed as well
- An estimate of "developmental risk" is obtained at various times during development by combining the AE and RH scores

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Current Relational Health

- A major factor in healing appears to be the nature, quality, intensity and stability of a person's relationships
- The NMT assessment process includes a simple metric that looks at current relational health
- The score on this metric is a key indicator of outcome – good relational stability predicts positive outcome – and poor relational health predicts poor outcomes

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NEUROSEQUENTIAL NETWORK

NEUROSEQUENTIAL

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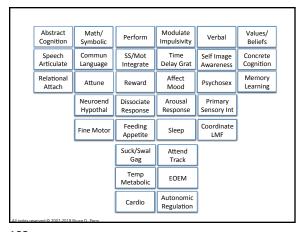
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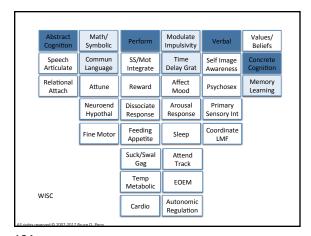
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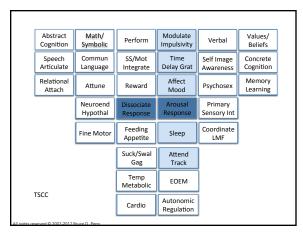


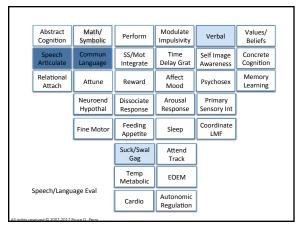




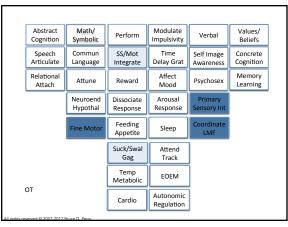


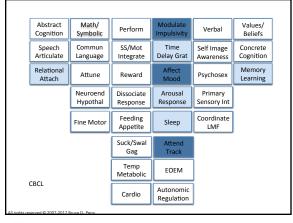
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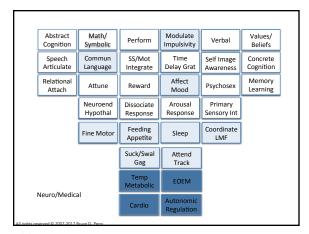


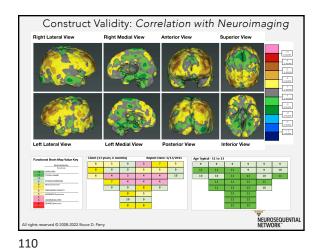
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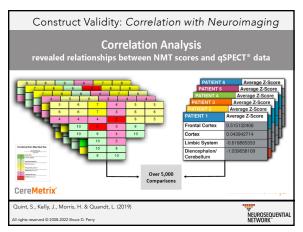


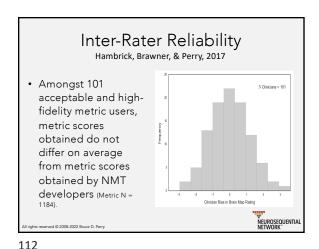




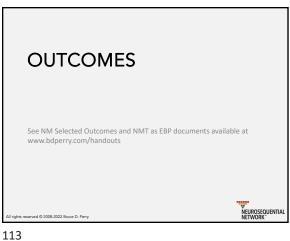


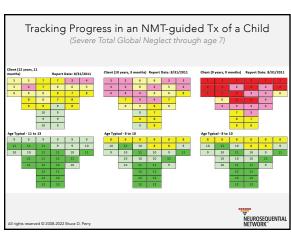
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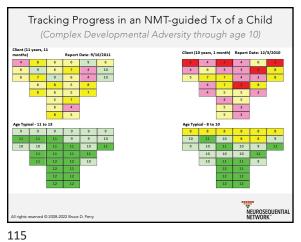
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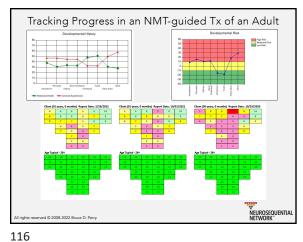


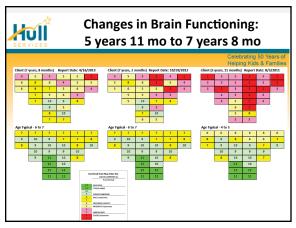


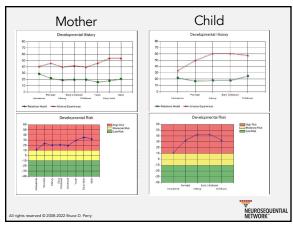
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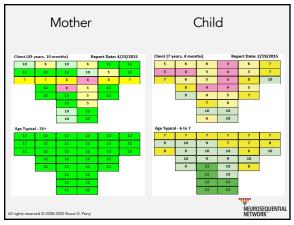


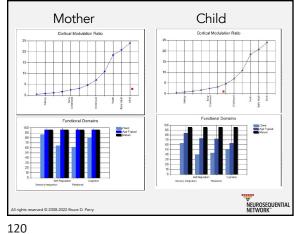






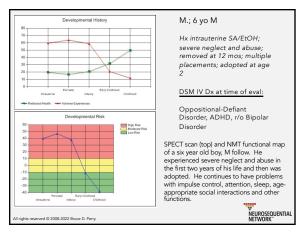
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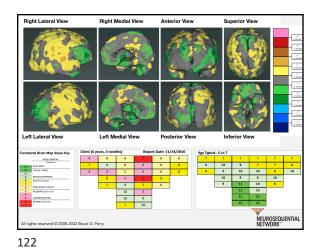






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Article

Clinical improvements in adopted children with fetal alcohol spectrum disorders through neurodevelopmentally informed clinical intervention:

A pilot study

Zohreh Zarnegar¹¹². Erin P Hambrick³,
Bruce D Perry⁴⁵, Stanley P Azen⁴ and Cassandra Peterson²

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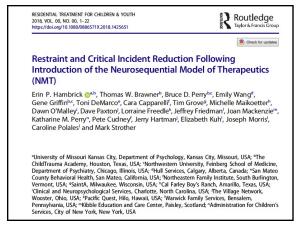
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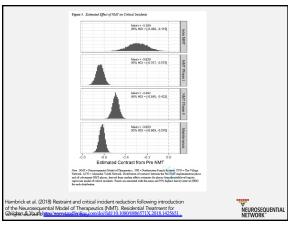
**Northwestern University, USA

**Texare Corporation, UJA

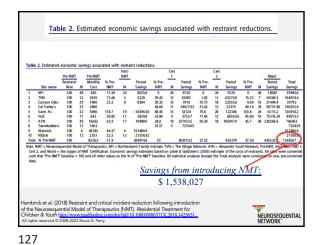
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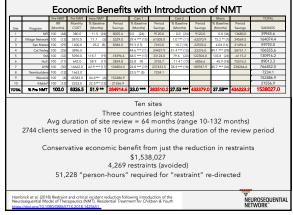
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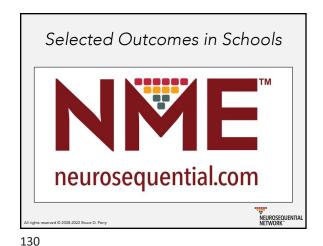


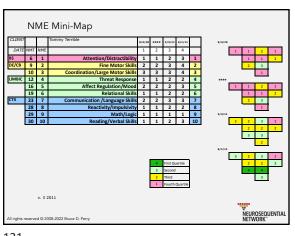


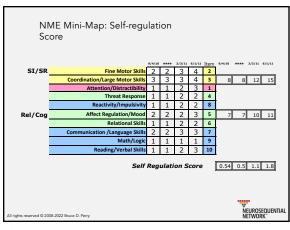


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| <u>Columbus Publ</u> | ic Schools | (2014-20 | 15) |
|---|------------|-----------------------|--|
| District | Year | # Office Referrals | # Detention, Suspension or Expulsion |
| | 2013-14 | 917 | 129 |
| Columbus City— Ohio Ave. ES | 2014-15 | 750 | 83 |
| | 2013-14 | 2719 | 1043 |
| Columbus CityLivingston ES | 2014-15 | 1017 | 811 |
| Graham School | 2013-14 | Not available | 88 |
| Granam School | 2014-15 | Not available | 38 |
| 44.000 | 2013-14 | Not available | 97 (3 expulsion |
| The Charles School | 2014-15 | Not available | 90 (0 expulsion |
| nts reserved © 2008-2022 Bruce D. Perry | | | NEUROSEQUE! |

Introduction of NME

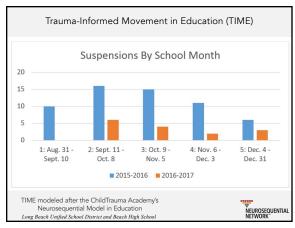
Columbus Public Schools (2014-2015)

Elementary Principal in Columbus City Schools:

"We have decreased our discipline referrals by almost 50% in one year. This means kids are in the classroom more and are developing self-regulation strategies that will help them be successful not only in school but in life."

"I, as the principal, am able to have more time to be in classrooms observing and providing feedback to teachers because my staff is equipped to deal with behaviors in the classroom instead of referring kids to the office for me to deal with."

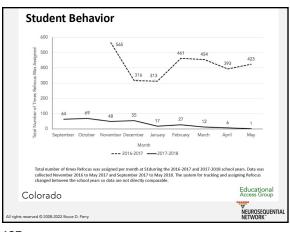
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Trauma-Informed Movement in Education (TIME) Attendance by School Month School Goal: 78% 95% 90% 85% 80% 75% 70% 65% 1: Aug. 31 -2: Sept. 11 -3: Oct. 9 -4: Nov. 6 -5: Dec. 4 -Oct. 8 Nov. 5 Dec. 3 Dec. 31 Sept. 10 TIME modeled after the ChildTrauma Academy's Neurosequential Model in Education

Long Beach Unified School District and Beach High School NEUROSEQUENTIAL NETWORK

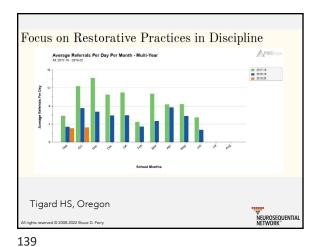
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Post Pilot

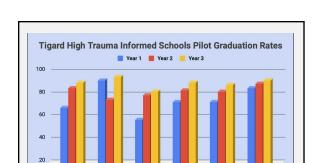
Tigard High has two new teachers being NME trained Special Education
Teacher Christy Goodell and Biology Teacher Geoff Jarman and two new
psychologists being NMT trained Tigard School Psychologist Lynelle Benit and
District TOSA Alyssa Anderson.

Tigard High ARTIC (Attitudes Related to Trauma Informed Care) Survey
Data demonstrated an overwhelming positive gain for NME trained staff
when compared to non NME trained staff. The mean for all staff improved
over the length of the pilot however.

Tigard HS, Oregon

Tigard HS, Oregon

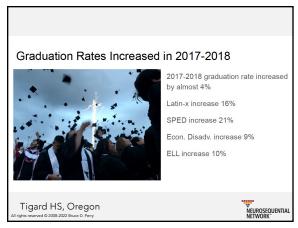
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Students with

Trauma Informed Schools Pilot Graduation Rates

English Economically Learners Disadvantaged



Walnut Creek ECP

Austin, TX (AISD)

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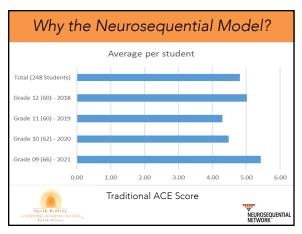
Westerville South HS Since NME started in 2017 – 35% increase in attendance Graduation rates up from 89.5 to 93.5 Suspensions decreased by 50% Ohio All rights reserved 0.2008-2022 Blace D. Pery

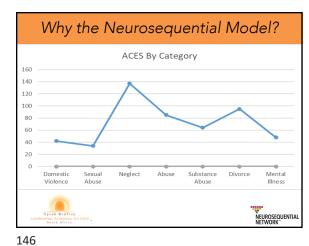
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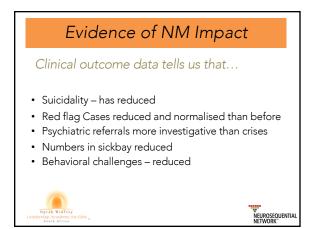






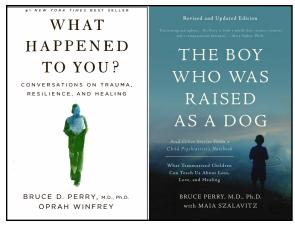


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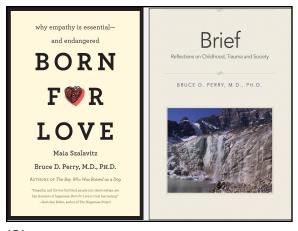


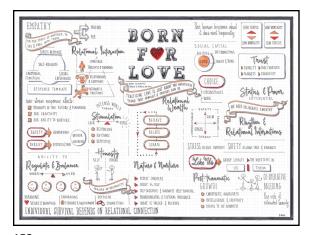
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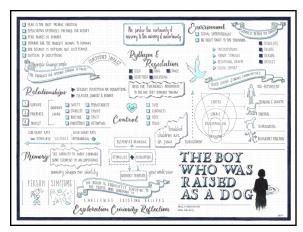








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