Welcome! "

We'll get started soon. If you'd like, type in the chat:

- From where are you joining the Zoom?
- . What's your current EI role?
- . Dream vacation spot?

1



2







5

Social-Emotional Development in Infants

- Engage in co-regulation when distressed
- Return to a regulated state
- Engage, observe, and take joy from the world
- Participate in back-and-forth interactions

Greenspan, 2011, ICDL 202



At-tune-ment

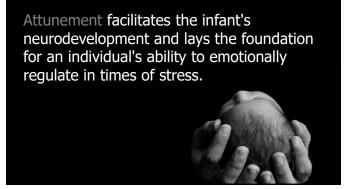
Parental ability to be responsive to child signals, understand them, and respond appropriately, while adjusting to the child's needs.

We may see:

- Mutual gaze
- Mirroring
- Mentalizing
- Following and joining in with the child's natural rhythms



8



I see you. You are a being to be seen. Baby begins to recognize self Builds capacity to regulate emotions Supports development of Medial Prefrontal Cortex

10

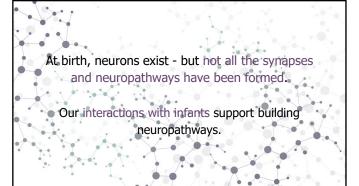


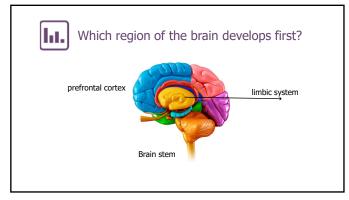
When have you experienced attunement?

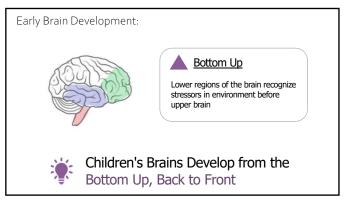
What did you:

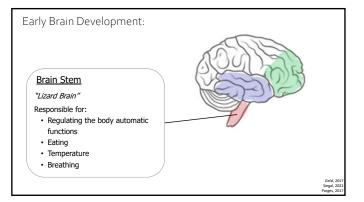
- see
- hear
- feel
- emotionally experience

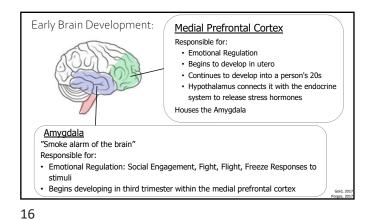
11





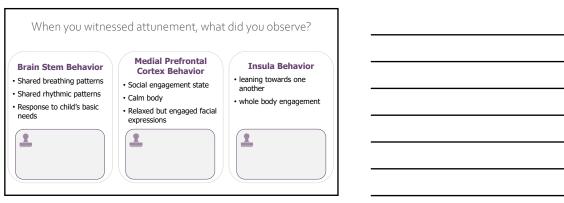






Early Brain Development: Insula Connects visceral organs (heart, intestines, skin) Provides us with physical sensations of empathy Supports regulation of our emotional state

17





Research in Rats

High-Licking Environment

- \bullet grew up to be calm adults
- led to turning on a gene involved in cortisol release
 rat pups can achieve a baseline calm more quickly.

Low-Licking Environment

- Rats remain in a prolonged anxious state after stressful experiences



20

Supporting Caregivers in Providing Attunement

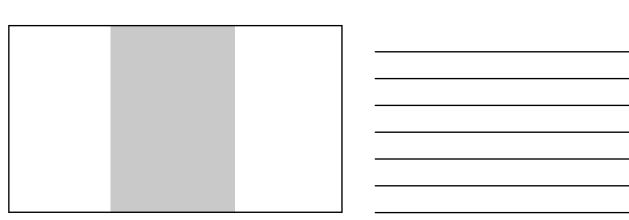
- Help "see the child" in front of them
- Recognize the story they may tell themselves about the child that prevents them from connection
- Reframe the baby's behavior
- Understand the importance of interacting with baby and the brain





What do you do to help families connect and attune with their children?





Serve and Return Supports

- Fundamental to the early wiring of the brain
- Repetition improves neural circuits - frequent interactions are important
- Supports building a healthy stress response



25

"Neuroimaging revealed a neural mechanism by which language experience may influence brain development; namely, children who experienced more conversational turns exhibited greater activation in left inferior frontal regions (Broca's area) during language processing, which explained nearly half the relationship between children's language exposure and verbal abilities."

- Romeo, et al, 2018

26

Serve and Return Supports

- Identify of self
- Understanding of where the self stops and others begin
- Co-regulation (foundation of self-regulation)



Serve and Return Research

- Mean CTC in children between 18 and 24 months predicted IQ, verbal comprehension, and expressive language skills at 9 to 13 years old.
- Remained significant after adjustments for SES or child language development



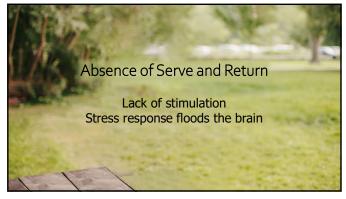
28



How do you help families understand the importance of serve and return?

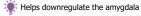
29





Peekaboo

- Mutual engagement with the smile and surprise - brains receive extra glucose and oxygen
- Triggers neuro-anatomical growth for a sense of joy
- Parent's brain reflects a deepening of attachment and well-being
- Increase pleasurable moments of endorphin receptors on the baby's amygdala





Tippy, G., 2018, Wagenhals, D. 2020

32



Anticipation Games

- Engages the prefrontal medial cortex
- · Releases dopamine
- Anticipation is an intrinsic brain response present by 4 months.



Mento, et al (2022

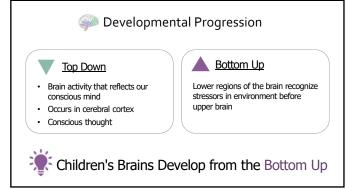
34

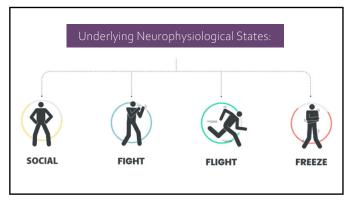


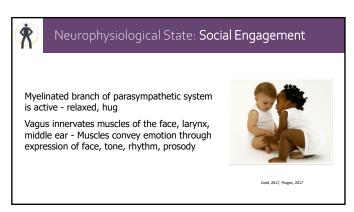
What are your favorite peekaboo and anticipation games?

35









Darwin wrote it was the evolution of capacity for meaningful connections in this set of muscles that allows humans to survive and thrive



Porges, 2017

40



Neurophysiological State: Fear

Sympathetic system is activated - releases adrenaline

Heart rate and blood pressure increase



Gold, 2017, Porges, 2017

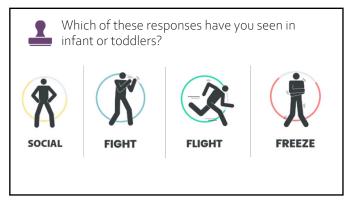
41

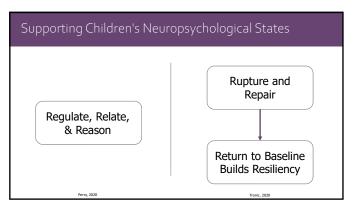


Neurophysiological State: Freeze

- Overwhelming threat
- "Plays dead"
- · Ear loses its ability to
- Dissociation







Caregiver interactions from birth onward support the neurodevelopment Interactive games, back and forth communication, and nurturing environments support the developing architecture of the young child's brain Understanding and helping caregivers understand neuropsychological states supports the child's neurodevelopment



Stay tuned for next month, when we ask:

How do we support families when factors interfere with typical development?

46

Thank you! Ann-Bailey Lipsett, M.Ed. Author & Consultant annbailey@lipsettlearningconnection.com

47





Think of a child on your caseload - how do you know they are in fight or flight?

How do you support them and their family during this time?