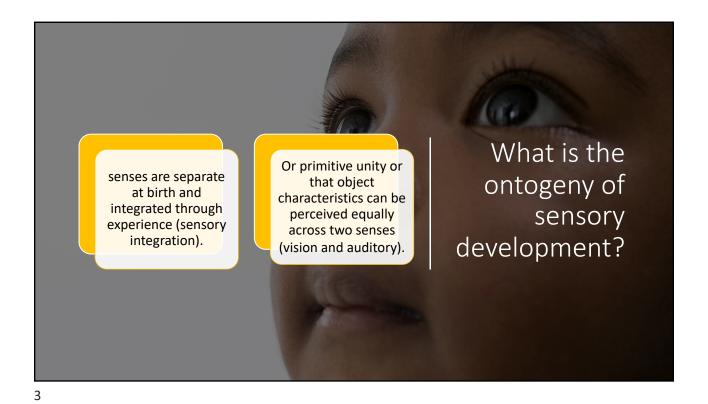


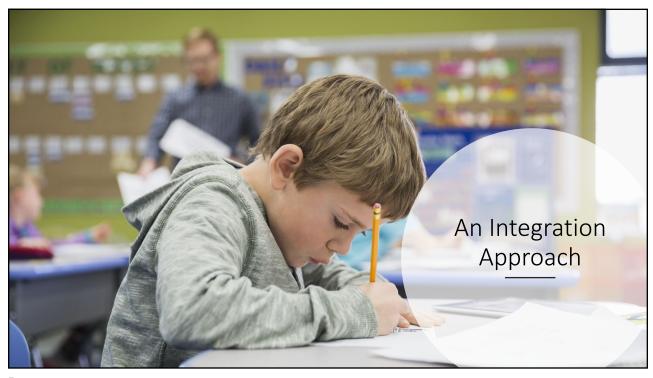
At the end of this webinar, participants will be able to:

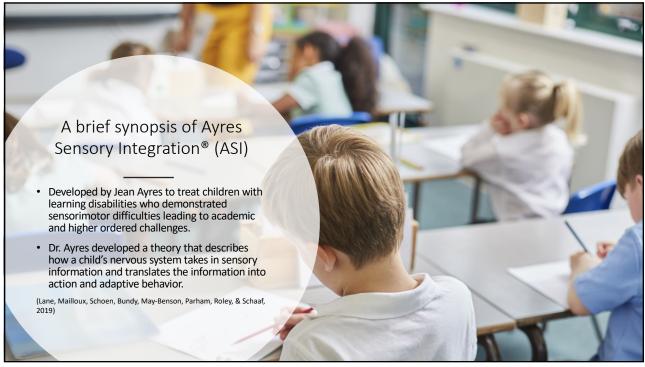
- 1. differentiate between intersensory perception and sensory integration concepts.
- 2. integrate principles from intersensory redundancy hypothesis into clinical reasoning when serving families of infants.
- 3. recognize the role that intersensory perception and sensory integration play when evaluating and treating co-occupational engagement in pediatric practice during early childhood.
- 4. apply concepts learned to pediatric practice.

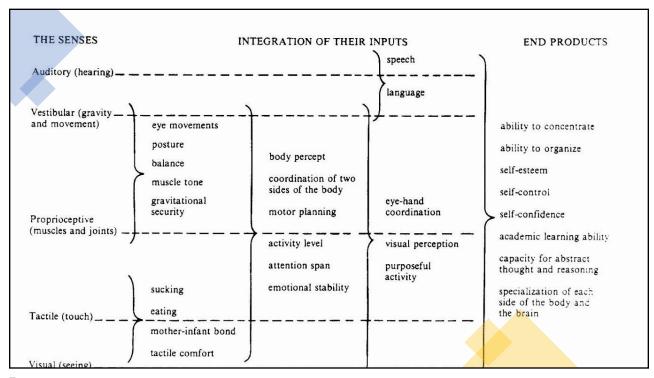


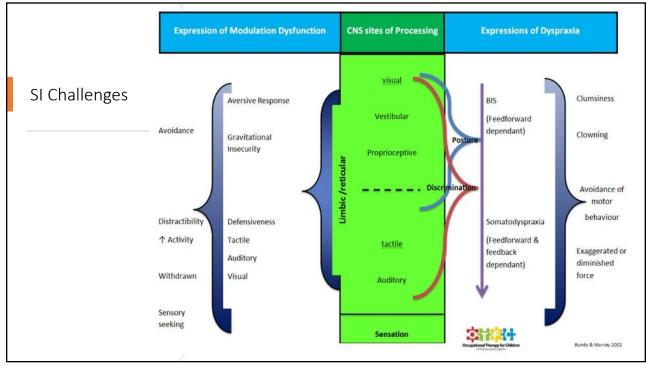
The development of sensory perception is....

A bit of both.....Bushnell, 1981









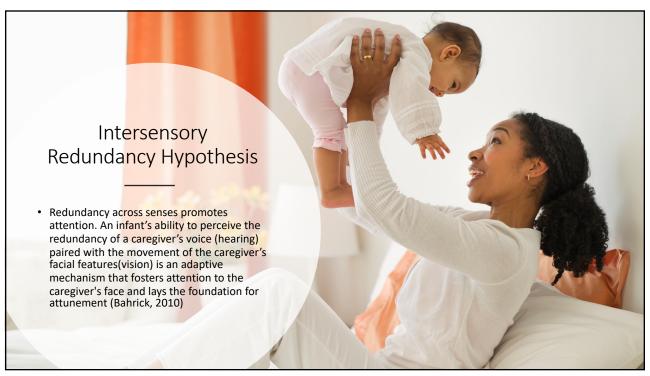


A Differentiation Approach

- Senses form unity in early development and with experience the perception becomes differentiated.
- Infants perceive amodal information information that can be perceived across multiple senses.
 - Temporal aspects synchrony, rhythm, tempo unite visual and auditory senses.
 - Selective attention becomes biased towards sensory stimuli that are redundant across sensory modalities.

(Curtindale, Bahrick, Lickliter, Colombo, 2019)

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Early Attachment and Sensory Perception

- Psychobiological Attachment Theory (Kraemer, 1992)
- ➤ Infants are born with adaptive mechanisms encoded at the level of the genome that foster attunement with a caregiver (Barnekow, Kraemer & Winters, 2008; Beebe, 2020; Kraemer, 1992).

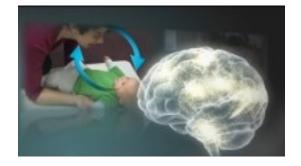


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What are adaptive mechanisms that foster attunement during infancy?

- Primitive unity that object characteristics can be perceived equally across two senses (vision and auditory).
- Amodal characteristics or temporal synchrony including face/voice redundancy foster attunement.



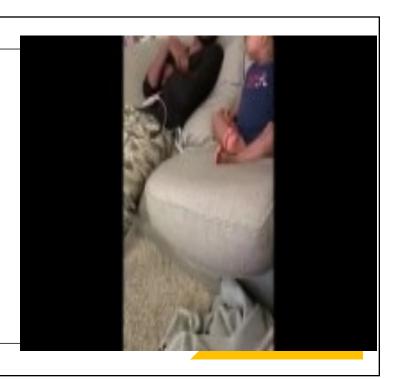


Once you have the baby's attention????

Serve and Return – promotes sensory integration and adaptive responses.

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Serve and Return occurs within cooccupational engagement

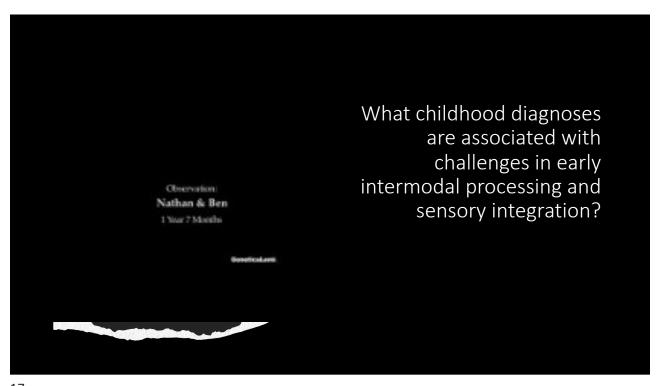




Who is the unit of assessment and intervention when considering intersensory perception and sensory integration from an early childhood mental health perspective?



What parental/caregiver concerns should we consider during assessment?



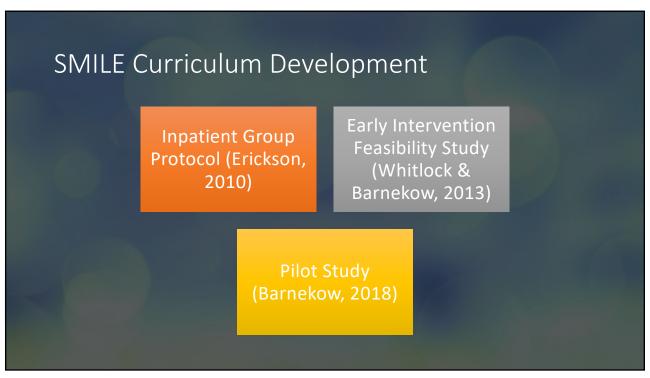
What interventions and approaches support co-occupational engagement?

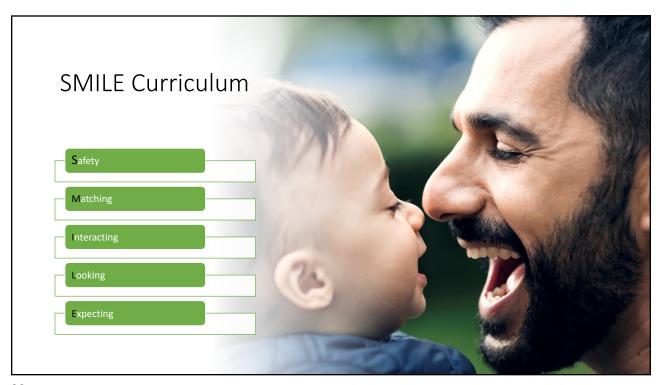
The PAUSE Approach (Tomlin & Viewheg, 2016)

- P perceiving (what we see may not be the entire story; we need to observe, listen and reflect)
- A- asking ask questions (how are you feeling? What do you think the baby is feeling?)
- U understanding understanding what is happening from the parents' perspective.
- S strategizing plan strategies together
- E evaluating did the plan work or do you need to readjust the plan?

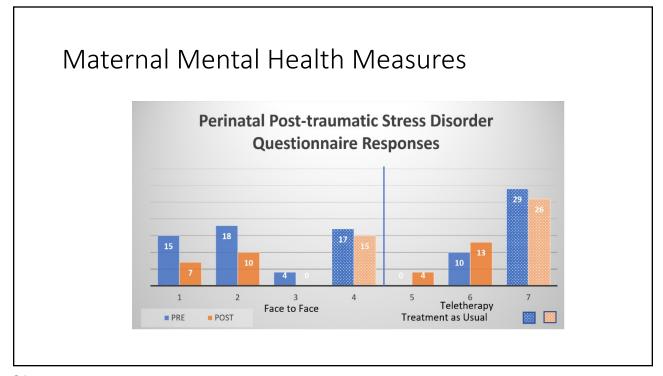
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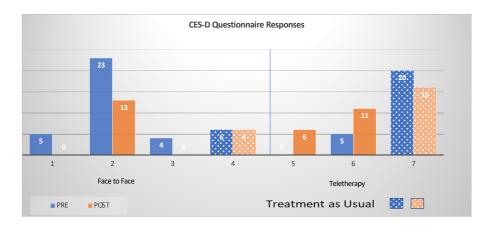




Pilot Study	Baseline Characteristics	Face to Face Phase (Control)	Teletherapy Phase (Control)
		n	n
	Role		
	Mother	3 (1)	2 (1)
	Infant	4	4
	Previous maternal birth-related trauma	3	1
	Degree of prematurity (gestation)		
	Extremely Preterm (< 28 weeks)	3	1
	Very Preterm (28-32 weeks)	1	2
	Moderate to Late Preterm (32-37 weeks)		1
	Race/ethnicity		
	Black	1	1
	Latinx	0	0
	White	2	1
	Bi-racial	1	1
	Highest Level of Maternal Education		
	High School/some college	3	2
	Associates Degree		1
	Bachelor's Degree	1	

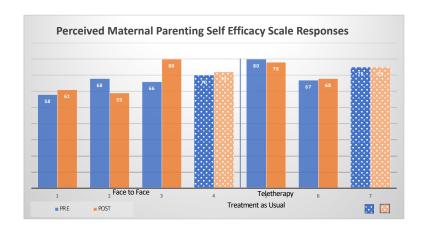


Maternal Mental Health Measures



25

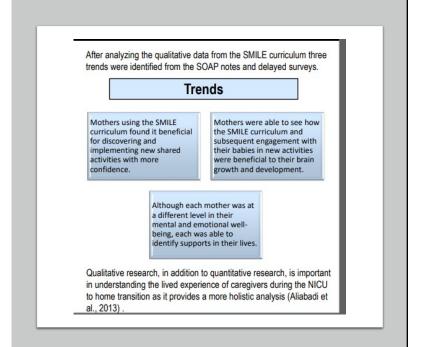
Maternal Mental Health Meaures



Qualitative Comments

Post-implementation interviews were conducted with 6 of the 7 participants between 5-7 weeks after completion of the curriculum.

The questions reflected content from the curriculum (i.e., what is a shared activity?) and perceptions about the curriculum (i.e., what were the benefits of the curriculum and how can the curriculum be improved?).



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Relationship of SMILE curriculum to intersensory perception, sensory integration and co-occupation

- Early intervention providers are well suited to identify strengths and risks in children and caregivers that may influence intersensory perception and (focus attention to a caregiver) and sensory integration development (difficulty with serve and return).
- Assess caregiver and child health (including social-emotional health).
- Use the SMILE curriculum as a co-occupational intervention that addresses caregiver social-emotional health in dyads at risk due to prematurity or first-time young parents.



