EI/ECSE Standard 1 Component 1.1

Overview & Speaker Notes

Intended Audience:

Overview for Facilitators:

ECPC has developed an anchor presentation for each of the Initial Practice-Based Professional Preparation Standards for Early Interventionists/Early Childhood Special Educators (EI/ECSE). The components under each standard are presented separately. The materials are designed for an in-service professional development (PD) program but can be used in a pre-service teacher preparation course. This resource will increase professionals' ability to address each of the EI/ECSE standard and components. Additional materials for each standard can be found on the ECPC Website: Curriculum Module | The Early Childhood Personnel Center (ecpcta.org)

Speaker Notes

The speaker notes provide a narrative and activities for each slide. You will see speaker notes for most of the slides within the slide deck. The notes provide additional details about the information on a particular slide, including the context for the information and key points. The notes are a guide, and speakers should feel free to modify these as needed. Please note the following:

 The narrative is a sample script for the presenter. Although you may read it verbatim, speaker notes are intended as a guide for the presenter, and you may modify them as needed.

Materials Required for face to face

- 1. Share the outline with timelines for the training (build in breaks)
- Conduct an opening activity (introductions/ice breaker)
- 3. Computers or tablets with internet access for participants (if possible)
- 4. Handouts
- 5. Projector with audio capable for playing video with speakers
- 6. Presentation slides with speaker notes
- 7. Develop an evaluation tool for all attendees (e.g., continuous improvement activity)

Materials Required for virtual

- 1. Distribute the link to the online platform in advance
- 2. Share the outline with timelines for the training (build in breaks)
- 3. Conduct an opening activity (introductions/ice breaker)
- 4. Determine how participants will receive handouts and materials, on the cloud, using a storage platform (e.g., dropbox, google, etc.)
- 5. Platform to share presentation (e.g., zoom, teams, etc.) with polling questions prepared in advance and breakout room capability
- 6. Upload or send handouts in advance or through platform (insert through chat)
- 7. Download videos ahead of time to prepare for low bandwidth from slide deck

- 8. Share screen capability (be sure to enable sound for videos)
- 9. Develop an evaluation tool for all attendees (e.g., continuous improvement activity)

Objectives for Standard 1, Component 1.1:

After participating in this professional learning opportunity, participants will be able to:

- Describe key theorists and their theories on early development and learning that influence EI/ECSE
- Describe the influence of theories on early development and learning on assessment, curriculum, intervention, and instructional decisions

Outline of Session Activities

Topic	Slides	Activity
Introduction/Objectives	1-4	
Theory	5	
Nature vs Nurture	6-7	
Behavioral & Developmental	8	
Systems	9	
Foundations of Behavioral Theory	10	
B.F. Skinner	11	
Applied Behavior Analysis (ABA)	12-13	
Assessment and interventions	14	Activity
Behavioralism	15	Video
The Developmental Perspective	16	
3 Developmentally Based Theories	17	
Piaget	18-23	Video (slide 22)
		Activity (slide 23)
Vygotsky	24-29	Video (slide 28)
		Activity (slide 29)
Attachment	30-34	Video (slide 34)
Transactional/Ecological	35	
Sameroff	36	
Brofenbrenner	37	
Bioecological Model	38-43	
Neuroscience	44-52	Videos (slide 47, 49, 51)
		Activity (slide 52)
Framing Individual Theories	53	
References and Resources	54-56	

Speaker Notes with Slides

Slide 1		
	Child Development and Early Learning	
	Initial Practice-Based Professional Preparation Standards Early Interventionists/Early Childhood Special Educators	
	1.1	
	E C P C	
Slide 2	www.tdqtrad	
Siluc 2	Standard 1	
	Candidates understand the impact of different theories and philosophies of early learning and development on assessment, curriculum, instruction, and	
	intervention decisions. Candidates apply knowledge of normative developmental sequences and variations, individual differences within and	
	across the range of abilities, including developmental delays and disabilities, and other direct and indirect contextual features that support or constrain	
	children's development and learning. These contextual factors as well as social, cultural, and linguistic diversity are considered when facilitating	
	meaningful learning experiences and individualizing intervention and instruction across contexts.	
	E C P C	
Slide 3	windowa	
	Component 1.1	
	1.1 Candidates demonstrate an understanding of	
	the impact that different theories and philosophies	
	of early learning and development have on	
	assessment, curriculum, intervention, and instruction decisions	
	instruction decisions	
	feely Clifford Processed Corter www.appellumg	
Slide 4		Facilitator: remind participants to take notes
	Objectives	throughout the review of developmental
	. Described and head the second of the secon	theories as they will need this information for
	Describe key theorists and their theories on early development and learning that influence EVECCE	the planned activity at the end of the
	development and learning that influence EI/ECSE	presentation.
	Describe the influence of theories on early	
	development and learning on assessment,	
	curriculum, intervention, and instructional	
	decisions	
	Int (Ukha Hrand Curu venaptung	

Slide 5		(Berk, 2019)
	Theory	, , , , , , , , , , , , , , , , , , , ,
	 Defined as an orderly, integrated set of statements that describes, explains, and predicts behavior 	
	Influenced by cultural values and belief systems	
	Continued existence depends on scientific verification:	
	Set of research procedures agreed by the scientific	
	community	
	Endure or replicated over time	
	ECPC	
Slide 6	Asserbgroid and remains a Lyones runs	Example – practice of phrenology – where the
Silue 6	Nature vs. Nurture	shape of an individual's head was thought to
	Child Development Theories	dictate all other characteristics.
	Nature	dictate an other characteristics.
	All genes and hereditary factors influence who we are	
	and are not likely to vary much across a lifetime	
	Physical traits, personality characteristics, intellectual or	
	creative traits	
	Heredity is most important	
	ECPC	
	Endy Oklabod Prosect Curber was apprissing	
Slide 7		Many more theories that have evolved and
	Nature vs. Nurture continued	been supported by evidence over time believe
		that our development is shaped – to varying
	Nurture	degrees – by environmental variables – for
	Environmental variables impact who we are	instance, early experiences, cultural influences, relational variables.
	How we are raised	relational variables.
	Social relationships	
	Surrounding culture	
	ECPC	
Clists C	To by Okhou France Grow we capelling	Command FI/FCCF paratises in Figure 1, and a standard 1
Slide 8	Rehavioral and Developmental Theory	Current EI/ECSE practice is firmly rooted in the
Slide 8	Behavioral and Developmental Theory	evidence base that has unfolded over decades
Slide 8	Behavioral and Developmental Theory • Behavioral theory: the core of special education	evidence base that has unfolded over decades of research and revision of theories of child
Slide 8		evidence base that has unfolded over decades of research and revision of theories of child development that include elements of both
Slide 8	Behavioral theory : the core of special education	evidence base that has unfolded over decades of research and revision of theories of child development that include elements of both nature and nurture, although each of these
Slide 8	Behavioral theory : the core of special education research and practice	evidence base that has unfolded over decades of research and revision of theories of child development that include elements of both nature and nurture, although each of these theories holds different positions about the
Slide 8	 Behavioral theory: the core of special education research and practice Developmental theory: informs application of 	evidence base that has unfolded over decades of research and revision of theories of child development that include elements of both nature and nurture, although each of these theories holds different positions about the degree of impact each holds for human
Slide 8	 Behavioral theory: the core of special education research and practice Developmental theory: informs application of practices to young children and early learners 	evidence base that has unfolded over decades of research and revision of theories of child development that include elements of both nature and nurture, although each of these theories holds different positions about the degree of impact each holds for human development.
Slide 8	 Behavioral theory: the core of special education research and practice Developmental theory: informs application of practices to young children and early learners Piagetian Theory 	evidence base that has unfolded over decades of research and revision of theories of child development that include elements of both nature and nurture, although each of these theories holds different positions about the degree of impact each holds for human development. The major theories that we use today carry
Slide 8	 Behavioral theory: the core of special education research and practice Developmental theory: informs application of practices to young children and early learners Piagetian Theory Vygotskian Theory 	evidence base that has unfolded over decades of research and revision of theories of child development that include elements of both nature and nurture, although each of these theories holds different positions about the degree of impact each holds for human development. The major theories that we use today carry with them a long history of scientific inquiry,
Slide 8	 Behavioral theory: the core of special education research and practice Developmental theory: informs application of practices to young children and early learners Piagetian Theory Vygotskian Theory 	evidence base that has unfolded over decades of research and revision of theories of child development that include elements of both nature and nurture, although each of these theories holds different positions about the degree of impact each holds for human development. The major theories that we use today carry with them a long history of scientific inquiry, which have evolved over time to inform both
Slide 8	 Behavioral theory: the core of special education research and practice Developmental theory: informs application of practices to young children and early learners Piagetian Theory Vygotskian Theory 	evidence base that has unfolded over decades of research and revision of theories of child development that include elements of both nature and nurture, although each of these theories holds different positions about the degree of impact each holds for human development. The major theories that we use today carry with them a long history of scientific inquiry,

		impact behavior, the central thrust of
		I hehavioral theory as we will see
Cl: d = O		behavioral theory as we will see.
Slide 9	Systems Theories	Ecological and transactional models also
	Systems meories	describe how external influences – not just at
	Ecological and Transactional Models	the child and family level – work in systems
	Sameroff: Transactional Model	over time and place to impact the trajectory of
	Bronfenbrenner/Ecological Systems of Theory	human development.
	Neuroscience of Early Childhood	Each of these models holds vital information
	near oscience of Early of Marioco	that relate to the work we do with children and families.
	E C P C	Over time, our work with young children has
	veraptus	evolved to include the active ingredients of a
		number of major theories, which now serves as
		a primary or unified set of practices for the field
		of EI/ECSE (e.g., Odom & Wolery, 2003)
		Let's take some time to examine 3 types of
		theories that lie at the core of EI/ECSE practice:
Slide 10		Let's begin with the behavioral perspective.
	Foundations of Behavioral Theory	Behavioral theory states that only directly
	•	observable events are appropriate targets of
	Directly observable events are only appropriate	the study of child learning and behavior
	targets of the study of child learning and	These events are simple: measurable stimuli
	behavior	and behavioral responses to stimuli
	 Measurable stimuli and behavioral responses 	Originated with Pavlovian experiments with
	Originated with Pavlovian experiments with dogs	classical conditioning
	to demonstrate classical conditioning	Dog studies
	ECPC	John Watson (1878-1958)
-	Enly Childhood Preserved Center www.xxp/Chilang	Baby Albert
		Believed that behavior can be molded
		by carefully developed stimulus-
		response associations over time in a
		continuous process
		B.F. Skinner (1904-1990)
		Operant conditioning – reinforcers and
		punishers can be developed to individualize
		and modify response behaviors.
		Skinner Box
Clide 11		B.F. Skinner (1904-1990)
Slide 11	D.F. Chinner	
	B.F. Skinner	Operant conditioning – reinforcers and
	• Developed Operant Conditioning – reinforcers and	punishers can be developed to individualize
	punishers can be developed to individualize and	and modify response behaviors.
	modify response behaviors	Skinner Box
	• Led to broader use of behavior modification	
	interventions, primarily tested in clinical settings on	
	older children and adults with cognitive impairments	
-	farty (Ballout Prosent Centr ver. aug/Lang	1

Slide 12	Applied Behavior Analysis (ABA): Key Concepts Three-part contingency (antecedent-response-consequence) Systematic use of behavioral strategies - modeling, prompting, shaping, chaining, and differential reinforcement to support positive outcomes Fidelity use of functional behavior assessments and development of appropriate behavior intervention plans	 Three-part contingency (antecedent-response-consequence). The systematic use of behavioral strategies such as modeling, prompting, shaping, chaining and differential reinforcement to support positive behavioral outcomes. Fidelity use of functional behavior assessments and development of appropriate behavior intervention plans.
Slide 13	ABA – Key Concepts Data collection guides assessment, planning, intervention, and evaluation. Supports appropriate behavior by teaching new skills Modifies the environment to prevent challenging behavior Puts prevention strategies in place before new behaviors occur	 Data collection guides assessment, planning, intervention, and evaluation. Supports appropriate behavior by teaching new skills. Modifies the environment to prevent challenging behavior. Puts prevention strategies in place before new behaviors occur.
Slide 14		
	• After watching the video on the next slide, discuss the assessments and interventions used in EI/ECSE that are based in behavioral theory	
	E C P C	
Slide 15	Video: A Look at Behaviorism	https://youtu.be/eLaa8cgljKk
	ECPC	

Slide 16 Behavioral and developmental research are rooted in fairly distinct perspectives, theories, The Developmental Perspective and methodologies, with different implications • Behavioral practices for individuals with disabilities for clinical practice. originally developed for older children and adults in highly controlled circumstances Behavioral scientists over the decades have not • Increased focus on early learning and intervention for integrated the rich body of information on young children in the context of caregiving required a blending of theories typical child development when formulating Modern EI/ECSE practice grounded in multiple theories behavioral interventions - focused on discrete skills rather than on developmentally appropriate learning targets (Schreibman, 2015). As the ability to identify developmental problems early in life progressed, researchers and practitioners began to integrate developmental theories into their practice to ensure that teaching and interventions were relevant to the very young child, with the caregiving context. Rooted in multiple disciplines, including psychology, cognitive science, and neuroscience. Let's review 3 of these foundational theories: Slide 17 We will now take a look at 3 theories often used today in EI/ECSE practice that use a 3 Developmentally -Based Theories developmental lens: · Piaget: Cognitive developmental theory Vygotsky: Sociocultural theory Attachment Theory Slide 18 One of the most influential theorists of modern Jean Piaget: child developmental theory **Cognitive-Behavioral Framework** Did not believe that child learning required the • One of the most influential theorists of modern child use of reinforcers such as praise or rewards developmental theory from adults. • Did not believe that child learning required the use of Piaget was the first to closely study the way reinforcers such as praise or rewards from adults children engaged with and understood the • First to closely study the way children actively engaged physical world, and their reasoning about the with the physical world to learn social world. His contribution to the study of child development promoted the development of specific curriculums designed to promote

child-led discovery learning and a hands-on approach to early education. Slide 19 Piaget called the schema the basic building Schemas: Frameworks for Understanding block of intelligent behavior – a way of organizing knowledge. Indeed, it is useful · "Building blocks" of knowledge to think of schemas as "units" of · Helps children organize and make gradually more knowledge, each relating to one aspect of complex meaning of the world the world, including objects, actions, and · Children gradually transition from simpler ways of abstract concepts. understanding to more complicated ones, using a For example, a child is pushing a doll string of organizing experiences over time around in a stroller, which is one simple schema. He then decides to feed her a plastic carrot while he is pushing her, which layers a second schema into his play. If he would then tell his mother, "we are going to go to walk to the park now" he is combining schemas to engage in early pretend play – a first step towards representational thought. Piaget believed that children develop a scheme Slide 20 Piaget: for any given element of learning and use that **3 Basic Concepts** schema to build new information to build new • Schema: a mental structure we use to organize our skills. In a cyclical manner, the child then perceptions and memories accommodates to the new level of • Assimilation: use of existing schemas to build on understanding and competence as he or she is our stores of knowledge and skills again ready to learn something new and more · Accommodation: "building" or creating new complex. schemas (involves deeper change) Schema: a mental structure we use to organize our perceptions and memories Assimilation: use of existing schemas to build on our stores of knowledge and skills Accommodation: "building" or creating new schemas (involves deeper change) Slide 21 Although scientific work done since the time **Piaget: 4 Stages of Development** when these 4 stages was first developed STAGE PERIOD OF DEVELOPMENT suggests that children develop the ability to Explores with all senses, hands, mouth. Works out making things happen (cau and effect), finding hidden objects, filling and emptying think abstractly and to understand the mind of another much earlier than Piaget thought, Begins to use symbols, language, pretending, st telling these stages are still useful for understanding ogic and reasoning b more organized: intere classifying objects into hierarchies the basic sequences of how cognition unfolds: Abstract and systematic thinking requiring higher cognitive processes Formal Operational ECPC

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Slide 22	A Look At Piaget	https://youtu.be/IhcgYgx7aAA
	ECPC	
Cl: 4 - 22	Enty Obbins Francial Circu www.npctu.mg	https://woutu.bo/lbogVgv7aAA
Slide 23	Activity	https://youtu.be/IhcgYgx7aAA
	Activity	
	As a group, discuss assessments you have used that	
	incorporate Piaget's stages as a means of describing	
	a child's cognitive development.	
	How can knowledge about each of these stages	
	provide useful information for IFSP/IEP planning?	
	Fely Clithout Present Curve www.spcturg	
Slide 24	Sociocultural Theory: Vygotsky	While Vygotsky agreed with Piaget that
	Sociocultural meory. Vygotsky	children were active learners and acquired knowledge through experiences, he believed
	Believed that knowledge takes place in the	that knowledge assembled through <i>social</i>
	context of social interactions	interaction rather than acquired independently
	Through interactions with others, children	by the child in a biologically programmed set of
	acquire the capacities and skills they need in the	stages.
	context of their own culture	Through interactions with adults and older
		children, children acquire the capacities and skills they need to function in their unique
	E C P C Set O Man A reserved Constructions vers replicating	environment, in the context of their own
		culture.
Slide 25	// // I	Vygotsky hypothesized that Adults, older
	"More Knowledgeable Other"	siblings, cousins, and peers serve as "more
	Adults, older siblings, cousins, and peers serve as	knowledgeable others" as they involve young
	"more knowledgeable others"	children in daily interactions and experiences – and provide a rich variety of expressions,
	They provide a rich variety of expressions,	gestures, sounds and language to communicate
	gestures, sounds and language to communicate	about how to survive and thrive in that
	about how to survive and thrive	particular culture.
	ECPC	
	inty (state of house clear wax applicant	

Slide 26	"Proximal Zone of Development" • He believed that adults naturally scaffold child learning through interactions that are appropriate to the child's readiness	For example, when a baby makes a sound, adults of most cultures often imitate the sound, smile at the baby, and then attribute meaning to the child's sound with simple words like "Oh is that right? Are you telling me you're hungry?" Adults and older children often provide simple words in the context of simple interactions with babies, and they quickly learn to associate words with experiences.
Slide 27	Vygotsky: Sequential stages 1. Face to face interaction 2. Joint attention 3. Acquire the use of symbols (gestures, sounds, language) 4. After language acquisition, increased interactions with adults/peers develop higher order capacities	Vygotsky also believed that children develop in a staged sequence: first joining interactions in the context of face-to-face and joint attention interactions, and gradually acquiring the use of communicative symbols in the form of sounds, gestures, and language When children acquire language, they are then able to engage in many more social dialogs with adults and peers as they begin to think about what the world in a more analytic way, make decisions, and solve problems. The skills and competencies that children learn are based on the structure of their culture, which prioritize mastery of different tasks depending on the needs of the community.
Slide 28	Video: A look at Vygotsky VYGOTSKY'S THEORY E C P C In (Mahan haudfar	https://youtu.be/8I2hrSRbmHE

Slide 29		
Silde 23	Activity	
	•	
	As a group, discuss how the concept of "proximal	
	zone of development" can be used to inform	
	IFSP/IEP planning	
	ECPC	
	Endy Children of Contra www.mpcb.mg	
Slide 30		
	Attack and There	
	Attachment Theory	
	En C P C	
Slide 31		
	Harlow's Experiments	
	Series of studies in the mid1900's	
	Young primates sought connection and comfort over food	
	sources	
	Described the concept of early bonding in other animal species	
	E C P C	
Slide 32	werderal	According to attachment theory, pioneered by
3	Attachment and Regulation From an	Mary Ainsworth, Anna Freud, Melanie Klein,
	Adult Are Primary Needs	and other - babies are born hard-wired to seek
	Babies are hard-wired to seek proximity to their	proximity to their mothers, and immediately
	mothers at birth	after birth use an array of behaviors (gazing,
	 Through touch, rocking, singing, and caregiving, 	crying, rooting, grasping) to ensure that they
	adults in virtually all cultures respond to the	are held, fed, and protected.
	distress of infants and toddlers to restore them	
	to a regulated state	
1		ı
	E C P C	

Slide 33

Mary Ainsworth: Patterns of Attachment

- Used the "Strange Situation" Paradigm
- Recorded and validated attachment styles:
 - Secure
 - Insecure: Avoidant
 - Insecure: Resistant/Ambivalent
 - Insecure: Disorganized/Disoriented



Mary Ainsworth, a pioneer in attachment theory, developed and validated specific patterns of attachment

Secure

- Distressed when mother leaves; "happy reunion" when she returns
- Caregiver perceived as reliable and loving; relationships tend to be mutual & caring

Insecure: Avoidant

- Little distress when mother leaves; little reaction upon her return, doesn't seek proximity
- Caregiver perceived as unreliable, rejecting; relationships distant, preserving autonomy

Insecure: Resistant/Ambivalent

- Intense distress when mother leaves; mixed reaction upon her return
- Caregiver perceived as unreliable; relationships characterized by anxiety, approach-rejection

Insecure: Disorganized/Disoriented

 May seem oblivious to other's presence/absence, accept researcher as substitute, and/or engage in stereotyped, even bizarre behaviors

Ainsworth's attachment work has been largely validated over the decades, that have since then been demonstrated to be relatively consistent across generations of parents and children.

Ongoing data supports our understanding of how insecure attachment styles can influence the course of development over time Including Developmental delays Mental health disorders.

Slide 34

Video: A Look at Attachment Theory



E C P C

Attachment theory shares a lot of overlap with Vygotskian theory and, as we will find out, with the Neuroscience of Early Childhood theoretical model, which we will explore next:

https://youtu.be/WjOowWxOXCg

Slide 35		
Slide 35		
	Transactional/Ecological Theories Merging behavioral, developmental and systems theory into a unified theory of child development	
	ECPC	
Slide 36	Transactional Model: Sameroff • Nature and nurture both influence development through a	Arnold Sameroff proposed the Transactional Model in the 1970's. He believed that both nature and nurture are constantly being changed by their interaction with one another
	constant interactive process Inborn and environmental forces shape development in a bidirectional and transactional manner	 and development is affected by both inborn and environmental forces that constantly shape the other. These forces occur at the family level and include effects of parental wellbeing
	Development — • C D C	or lack of wellbeing – access to safety and basic resources - and also across environmental systems which include political forces, resources, community influences, including supports and threats to health and wellbeing at
		a climate and global level.
Slide 37	Bronfenbrenner: Ecological Systems Theory • Importance of emotionally connected caregiving relationships – the need for safety and stability within families support emerging development • A dynamic system involving both the child's biological makeup and the collective forces of environment to shape development	Urie Bronfenbrenner (1917-2005) developed the Ecological Systems Theory The Ecological systems theory shares many of the same ideas that Sameroff expressed. Both view the child as existing within an intricate system of variables, all of which could have an effect on their development. Bronfenbrenner's model uses a series of concentric circles to describe different systems
	In (tilded freed law weapting	that concurrently influence child development. This model has provided us with one of the most comprehensive models of child development, offering a broad view of the complex variables and contexts active in the dynamic processes of human development. Bronfenbrenner build his theory upon previous theories, acknowledging the central role of social interactions, the importance of emotionally connected caregiving relationships and the need for safety and stability within families to support emerging development.

		Described a <i>dynamic system</i> involving both the
		child's biological makeup and the collective
		forces of environment to shape development.
		He called this the bio ecological model.
Slide 38	Bioecological Model	This model states that influences from a unified and related set of nested systems converge to shape the development of a child. What you see are concentric circles around a circle in the middle that represents the child.
	ECPC taty Clabou Prevent Corre was expected or	
Slide 39		The first circle around the child is represents
	The Microsystem	the microsystem
	The which osystem	Within the microsystem experiences and
	Experiences and	relationships at the level of the family
	relationships at the level of the family environment,	environment, including home, neighborhood
	including home,	play areas, and childcare settings.
	neighborhood play areas,	Interactions within all relationships are
	and childcare settings.	bidirectional.
	Bidirectional	
	E C P C tely Glidbood Processed Contra	
Slide 40	werderni	The circle that surrounds the child and the
		microsystem represents the mesosystem
	The Mesosystem	Contains connections between elements of the
	Contains connections	microsystems – home, neighborhood, childcare
	between elements of the microsystems – home,	and recognizes the impact of each of these
	neighborhood, childcare	upon the other.
	and recognizes the impact	For example, if a parent at home is coping with
	of each of these upon the other	depression, positive interactions with the
		childcare staff may be reduced. Staff may in
	ECPC	turn feel that the parent is not interested in the
	Serly Children Promond Carter were applicang	child's well-being at school. The child,
		responding to the reality of having a parent
		who is coping with depression at home, may
		display disruptive behaviors at school as way of
		gaining adult connection, which may lead staff
		to blame the parent for the behavior of the
		child - and interact with the child in less
		positive ways.
		Another example of influence at the level of
		l ·
		mesosystem: if a child lives in a neighborhood
		l ·

		connections to enriching interactions with
		others, and reduced access to other forms of
		information (books, cultural knowledge).
Slide 41		The next circle around these first 3 systems
	The Exosystem	represents the exosystem Social settings that
	Social settings outside of the	exist outside of the child's family structures but
	child's family structures but	nevertheless impact his experiences.
	impact experiences	Formal support systems like religious
	Formal support systems: religious, health care access,	institutions, health care access, work-related benefits.
	work-related benefits	Informal support systems like friends and
	• Informal support systems:	extended family who provide emotional
	friends and extended family	support, connection, and assistance when
	lay (Uldard Francel Curv	needed.
		Families who are isolated from these systems
		have fewer opportunities to empower
		themselves for self-protection and self-
		advocacy.
		More likely to be exposed to adversity and
		powerlessness.
Slide 42		The next circle around each of the other circles
	The Macrosystem	represents the Macrosystem Consists of the
	Larger constellation of culture,	larger constellation of culture, world views,
	world views, laws, customs and	laws, customs, and collective resources How leaders and systems prioritize the needs
	collective resources	of children in any given culture determine the
	How leaders and systems Prioritize the people of children Output Description the people of children D	experiences of children within the family
	prioritize the needs of children determine the experiences of	For example, some countries provide ample
	children within the family	support and resources for childcare and
	ECPC	parental leave for all, while others, including
	Early Clifforum Prosented Conne version Light Conne	the US, do not routinely protect the needs of
		the child in the context of family.
		Another example: children and families of
		immigrant families often do not have access to
		services that are typically provided at the
		national level.
Slide 43	The	Finally, the widest circle around each of the
	Chronosystem	inner circles represents the Chronosystem
	Description of the second of t	Environmental influences that shape the experience of an individual across the life span.
	Environmental	experience of all individual across the life spall.
	influences that shape the experience of an	
	individual across the	
	life span	
	ECPC	
	Enly Childhood Personnel Canter verse. applicating	

Slide 44		Emerged over the past several decades, the
Silue 44	Neuroscience of Early Childhood	science of early brain development has gained momentum in current practice and policy.
	Grounded in Sameroff's Transactional Model and Ecological Systems theory, the neuroscience of early childhood model is situated in the context of multiple theoretical models	Grounded in both sociocultural interactive theory and ecological systems theory, the neuroscience of early childhood model is situated in many concepts you will recognize from previous child development theories — including attachment, social learning, and behavioral theories. What makes it unique is that the theoretical basis for development lies in the process of developing brain architecture.
Slide 45	Key Concepts: Neural Exuberance Brains begin to develop from birth and develop at an astronomical pace in the first months of life Over 1 million new connections per second First years of life are when the foundations of brain architecture are formed	Through a lush proliferation of synaptic development in the first years – over 1 million new connections every second during this time – during a period of "neural exuberance".
Slide 46	Key Concepts: Serve and Return • Early experiences support or constrain brain architecture • Lay the foundation for all subsequent development • Early and consistent serve and return interactions optimize development for children of all abilities	https://developingchild.harvard.edu/resources /serve-return-interaction-shapes-brain- circuitry/
Slide 47	ECPC In Oldson Proceed Core Vocation of Core Video:	https://developingchild.harvard.edu/resources
	Serve & Return Interaction Shapes Brain Circuitry E C P C In Oldstan Foundation	/serve-return-interaction-shapes-brain-circuitry/ https://www.youtube.com/watch?v=m_5u8-QSh6A

Slide 48	Key Concepts: Toxic Stress	Facilitator can show the group this short video and discuss implications for children's development.
	Early and continuing adversity and/or trauma	https://developingchild.harvard.edu/science/k
		ey-concepts/
	can <u>derail developing brain architecture</u>	<u>ey-conceptsy</u>
	E C P C	
Slide 49	Video: Toxic Stress Derails Healthy Development	https://www.youtube.com/watch?v=rVwFkcOZ HJw
		harman data and a state of the
		https://developingchild.harvard.edu/science/key-concepts/
	E C P C	
Slide 50	weakered	Resilience is a complicated capacity – informed
	Key Concepts: Resilience	by the unique biological capacities of the child
		in tandem with the protective (or harmful)
	• Why do some children do well in the face of	impact of that child's environment and primary
	adversity, and others do not?	relationships.
	• What determines how <u>resilient</u> a child is when	Over the past decade or so, science has
	faced with difficult circumstances?	demonstrated that predictable and responsive
		relationships are a powerful buffer against the negative effects of trauma.
	ECPC	
	in by Gibbour Processed Grave was applicating	Facilitator asks the group the questions on the slide. Click on the link: https://youtu.be/cq07YoMsccU and then
		support discussion about how the theoretical underpinnings of resilience can be found in
		within the work of Sameroff, Bronfenbrenner
		and more recently, the Neuroscience of Early Childhood Development.
		Note that behavioral theory is not at odds with the concepts of neuroscience and systems
		theory – behaviorists consider how extended
		experiences with reinforcing (positive and safe
		interactions with caregiving adults) and
		punishment contingencies set up ongoing
		antecedent conditions for behavior that may or

		may not serve the child well across settings. EI/ECSE providers must always be interested in the meaning of behavior as communication and can support safety and developing resilience at home and at school within the context of best practices with young children.
Slide 51	Video InBrief: What is Resilience?	https://youtu.be/cqO7YoMsccU
Slide 52	Group Activity I: Antonia and her family https://ecpcta.org/wp- content/uploads/sites/2810/2021/01/Case-Study- Antonia-Family.Centered.Practice-1.pdf	Use the Antonia case history and the theoretical framework of your assigned theory, discuss the questions on the following slide (slide 53): https://ecpcta.org/wp-content/uploads/sites/2810/2021/01/Case-Study-Antonia-Family.Centered.Practice-1.pdf .
	E C P C By Glide II have four WW 99/9/98	
Slide 53	Framing Individual Theories • Using your assigned theoretical perspective, what would be the focus of your concerns for Antonia and her family? • What would your team want to explore about this case if you were all practitioners grounded in this theory?	Facilitators will divide groups up between the behavioral, developmental, and transactional/ecological perspectives. Use the discussion guide below to support the groups when they reconvene. Behavioral Lens Primary focus: Observable behaviors across settings – identifying specific goals for motor and communication skills. Interested in observing Antonia's behaviors across routines - and planning for learning environments and instructional strategies that support social interaction, cognitive skills, and mobility. Observing and taking data for how Antonia's family is supporting and reinforcing Antonia's communication attempts both physically (positioning, adaptive supports) and socially (responding immediately and contingently to sounds, expressions, eye gaze). Finding out from the family what they need to increase

family capacity to provide effective instructional and therapeutic support for Antonia across routines and settings.

Developmental Lens

Piaget

Primary focus: How is Antonia exploring her world through play? Is Antonia using her hands and mouth to explore toys that are placed in her hands? Is she currently reaching and grabbing toys to look at explore visually and with her hands? Is she using schemas like banging toys together, shaking them? Others? What sounds or gestures is she making as communication about her wants and needs? How is she playing in the presence of others – does she enjoy it when others join her in what she is attending to? Does she engage in causeand effect actions like dropping toys while she is in her highchair? Does she imitate the expressions, sounds, or actions of others? Attachment/Neuroscience of Early Childhood Primary focus: Antonia's primary relationships and what impacts them across generations, and the influence of early adversity. What were her early experiences when the family was experiencing ongoing housing difficulties, and when her father was living with active substance use? Was her mother, who had no other family support during that time, also preoccupied with the needs of keeping her family safe? Was she herself dealing with mental health challenges like depression? How might that have impacted the needs of a baby who may have learned that when she is quiet in her crib, her mother is calmer? How might the combination of minimal interactions and her developmental challenges combine to constrain her development? How might her need for safe, predictable and positive interactions have gone unmet during the time when there was a lot of change going on across 12 moves? What has changed since the family found more secure housing? Why is Antonia so often in her crib, and what will help this family engage her more often in positive interactions? Vvgotskv

Primary focus: Antonia's interactions with family, and how her family teaches her about

the world. How does this child interact with others, especially her family? Who talks to her, and who brings her out of her crib to engage and interact with others so that she can learn from her family? How does she interact with people outside the family, and how often? How will the Team engage this family to serve more fully as the more knowledgeable others? How will the team use the concept of Proximal Zone of Development to identify appropriate goals for Antonia?

<u>Systems theory: Bronfenbrenner and Sameroff</u> Lens

Primary focus: How is Antonia's' development influenced by reciprocal actions across all systems from family to the broader society? How does reality of the lack of stable housing and the father's substance use impact Antonia's well-being, including the need for a diagnosis and subsequent support for her developmental concerns? How might the fact that family housing is unstable in turn impact how the family is able to engage in services for Antonia? How would the team want to work to make sure housing, physical and mental health care, and appropriate therapeutic services are accessible so that in turn, the family is empowered to help Antonia be fully included in family interactions – and be supported to practice new targeted skills as she grows?

Slide 54

References and Resources

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