EI/ECSE Standard 1 Component 1.3

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)
- 2. 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 1.3:

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

- Describe the influence of biological factors on a child's development and learning
- Describe the influence of environmental factors on a child's development and learning
- Describe how biological and environmental factors influence the planning and delivery of early intervention and instruction for a child

Outline of Session Activities

Topic	Slides	Activity
Introduction/Objectives	1-4	
Development & Learning	5-7	
Adverse Childhood Experiences (ACES)	8-9	
Protective Factors: Resilience	10	Video
Genetic Factors	11-	
Genetic Foundations	12-13	
Genetic Traits	14	
Temperament	15-16	Video (slide 16)
Genetic Foundations	17-19	
Genetic Disorders	20-22	
Environmental Factors	23-32	
Preterm Birth & low Birthweight	24	
Risk Factors for Prematurity & LBW	25	
Maternal Health & Pregnancy Problems	26	
Maternal Diet	27	
Infectious Agents	28	
Environmental Toxins	29	
Substance Use During Pregnancy	30	
Substance Use During Pregnancy: Alcohol	31	
Stress & Depression	32	
Social Determinants of Health (SDOH)	33-34	
SDOH: 5 Domains	35-40	
Bringing it All Together to Support Healthy Development	41-42	Activity (41) Video (42)
Group Activity	43	
References & Resources	44-51	

Speaker Notes with Slides

Slide 1		
	Child Development and Early Learning:	
	Early Learning & Development Theory & Philosophy	
	Initial Practice Based Professional Standards for Early	
	Interventionists/Early Childhood Special Educators (EI/ECSE)	
	1.3	
	ECPC	
Clida 2	farly Cilificant Personnel Center wew.aspitu.org	
Slide 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.	
Clida 2	Early Different Personal Carter www.opcts.org	
Slide 3		Read the text aloud to the group
	Component: 1.3	
	Candidates demonstrate an understanding of	
	 Candidates demonstrate an understanding of characteristics, etiologies, and individual differences within 	
	 Candidates demonstrate an understanding of characteristics, etiologies, and individual differences within and across the range of abilities, including developmental 	
	characteristics, etiologies, and individual differences within	
	characteristics, etiologies, and individual differences within and across the range of abilities, including developmental	
	characteristics, etiologies, and individual differences within and across the range of abilities, including developmental delays and disabilities, their potential impact on children's	
	characteristics, etiologies, and individual differences within and across the range of abilities, including developmental delays and disabilities, their potential impact on children's early development and learning, and implications for	
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Slide 4	characteristics, etiologies, and individual differences within and across the range of abilities, including developmental delays and disabilities, their potential impact on children's early development and learning, and implications for	
Slide 4	characteristics, etiologies, and individual differences within and across the range of abilities, including developmental delays and disabilities, their potential impact on children's early development and learning, and implications for assessment, curriculum, instruction, and intervention.	
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Slide 5		Berk, L.E., (2019). Child Development, 10 th
	Development and Learning	Edition. Pearson.
	Biological and environmental factors synergistically	
	influence child development	
	 Genetic characteristics interact with the 	
	environment continually over time	
	 Brain development is most active during the first 	
	three years after birth	
	ECPC	
Slide 6	www.apcr.nd	
	Brain Development	
	An ongoing interaction between:	
	• Genetics	
	• Environment	
	• Experience	
	ECPC tarly Colleged Second Cets was reported to the recognition of t	
Slide 7		
	Development and Learning	
	December to the second of the	
	 Research shows environmental factors in children's younger years play the largest role in negative 	
	outcomes (Nelson et al., 2020)	
	Healthy development in the early years provides	
	the building blocks for later years	
	ECPC	
Slide 8	Early Collected Pressured Center wave angula any	Adverse childhood experiences, or ACEs, are
Jilue 0	Adverse Childhood Experiences (ACES)	described by the CDC as potentially traumatic
		events that occur in childhood (0-17 years). For
	 Experience of violence, abuse, neglect Witnessing violence at home or in the community 	example: (read bullets)
	· ·	
	Loss of primary caregiver	See:
	 Caregiver lives with addiction/unaddressed mental health challenges 	https://www.cdc.gov/violenceprevention/aces/f
	Instability (e.g., caregiver hospitalized,	astfact.html?CDC_AA_refVal=https%3A%2F%2F
	incarcerated)	www.cdc.gov%2Fviolenceprevention%2Facestud
	E C P C	y%2Ffastfact.html
	wexapplusg	

Slide 9 From the CDC: **Consequences of ACES** ACEs can have lasting effects on health and • Chronic health problems wellbeing. · Mental health problems ACEs and associated environmental • Negative impact on school success, job conditions, such as living in under-resourced opportunities, relationships or racially segregated neighborhoods, frequently moving, and experiencing food insecurity, can cause toxic stress (extended or prolonged stress). Toxic stress from ACEs can change brain development and affect such things as attention, decision-making, learning, and response to stress. Children growing up with toxic stress may have difficulty forming healthy and stable relationships. They may also have unstable work histories as adults and struggle with finances, jobs, and depression throughout life. These effects can also be passed on to their own children. Some children may face further exposure to toxic stress from historical and ongoing traumas due to systemic racism or the impacts of poverty resulting from limited educational and economic opportunities. Slide 10 https://youtu.be/HJvDrT6N-mw **Protective Factors: Resilience** https://vimeo.com/245310333 Watch this video and discuss how safe, predictable and responsive relationships protect young children – especially those with disabilities/delays – from the negative effects of ACES. ECPC

Slide 11 Every individual carries his or her own set of **Genetic Factors Inform the Effects of** genetic characteristics. These characteristics **Environment and Experience** inform how we interact with the world, and in • Traits turn how we perceive the way the world interacts with us. Temperament · Health-related traits For example, if we are temperamentally very Neurodiversity outgoing, we may have many more social · Inherited conditions/disorders interactions in the course of one day than a person who is shy. This may prove to be beneficial in the presence of a nurturing and responsive environment and caregivers, or could be dangerous in an unstable environment if interactions with unsafe strangers happened frequently. If we are very shy, we may appreciate when others include us in one-on-one interactions when we need to be included but also need others to understand when we need some time to be on our own. We may need help getting enough interactions to help us grow. When we have a physical or intellectual disability, we need our environment and interactions to be intentionally considered to make sure that we can consistently access positive interactions and participate in everyday social routines. Slide 12 Let's start with the foundations of our own **Genetic Foundations** genetics: • People are made up of trillions of units called cells • Every cell has a control center called the nucleus that contains rod-like structures · The rod-like structures are called chromosomes · Chromosomes store and transmit genetic information

Clist - 42	-	
Slide 13		
	Genetic Foundations	
	Genes are a unit of heredity which is transferred	
	from a parent to offspring:	
	Determine some characteristic of the offspring	
	ECPG	
	fanly Oldbood Procured Center were stojich any	
Slide 14		
	Genetic Traits	
	Colombias antiques that 20 to 60 manuals of	
	Scientists estimate that 20 to 60 percent of tomporament is determined by genetics.	
	temperament is determined by genetics	
	Common characteristics:	
	• Sociability	
	• Emotionally	
	Activity level Descriptions	
	• Persistence	
	Early Childread Procured Center www.capth.cap	
Slide 15		https://www.zerotothree.org/espanol/temp
	Video: Temperament	erament
	Watch this video on the next slide before discussing	
	Why is it important to remember that young children with	Discussion: why is it important to remember
	disabilities/delays also have inborn temperamental	that families, caregivers, and teachers
	characteristics?	
	How do you think this knowledge might inform effective early	remember that young children with
	intervention and instructional practices?	disabilities/delays also have inborn
		temperamental characteristics?
	E C P C	
	Enly Octional Procured Center www.copth.cop	How do you think this knowledge might
		inform effective early intervention and
		instructional practices?
		Support discussion that inhorn
		Support discussion that inborn
		temperament exists for all of us, and that
		children with disabilities also have their
		unique traits.
		EI/ECSE practitioners must always
		remember to prioritize the unique attributes
		of the child, making sure to recognize the
		reality the temperaments can always
		represent a strength, no matter what kind of
		temperament we have, and we must

		leverage the value of a child's temperament to support positive outcomes.
		Children with disabilities are too often required to be more compliant than typically-developing children as a whole – important to make space for who they are and value their unique personality traits.
Slide 16	Video: Temperament	https://vimeo.com/103169734
	ECPC	
	Enty Collinson Pressured Centre www.eapce.org	
Slide 17	Genetic Foundations	Let's take some time to think about the foundations of genetic inheritance
	 Two forms of each gene occur at the same place on the chromosomes One from the female and one from the male Each gene is called an allele Alleles from both parents are called a homozygous Alleles that differ are called heterozygous 	
	E C P C	
Slide 18	Genetic Foundations	Genetic interaction: contain conflicting information; one tall parent, one short parent – child average height
	Heterozygous pairings, dominant-recessive	
	inheritance occurs when one allele affects the child's characteristics	Gene-environment interactions: environment
	Referred to as dominant	the child is exposed to (in utero) and throughout
	The second allele, which has no effect, is called	life can impact genes
	recessive	
	EGPG	
	Early Chillhood Personnell Center www.capits.cap	

Slide 19		
	Genetic Foundations	
	Genetic Foundations	
	Human characteristics and disorders follow the	
	rules of dominant-recessive inheritance	
	 Gene expression: depends on genetic interaction 	
	and gene-environmental interactions	
	Et C D C	
Slide 20	savvler til	
Shac 20	Constin Discorders	
	Genetic Disorders	
	 Autosomal Dominant Diseases 	
	Huntington disease	
	Marfan syndrome	
	Ety Coldens Proceed Cons	
Slide 21	ww.upti.up	
Silue 21		
	Genetic Disorders	
	Recessive Diseases	
	Cooley's anemia	
	Cystic fibrosis	
	Phenylketonuria (PKU)	
	Sickle cell anemia	
	Tay-Sachs disease	
	Duchenne muscular dystrophy	
	Diabetes insipidus	
	ECPC	
Slide 22	werderd	
Silue 22		
	Genetic Disorders	
	Characteristics (197	
	Chromosomal abnormalities can be a cause of	
	developmental delays	
	• Examples	
	• Fragile X	
	Down Syndrome	
	E C P C	
1	AMAYDIQUE VALUE COMMUNICATION	

Slide 23 **Environmental Factors: Prenatal and Perinatal Influences on Development** · Preterm birth/Low birthweight · Maternal health/pregnancy complications · Infectious agents · Environmental Toxins · Maternal substance use Maternal depression Slide 24 **Preterm Birth and Low Birthweight** • Premature birth: Before 37 weeks gestation - 10.23% of all . Low birthweight: less than 2500 grams - 8.31% of all births · Rates rising in the US · Associated with increased mortality and developmental • Early intervention important to scaffold developmentally appropriate planning using adjusted-age milestones

There are wide varieties of influences that can affect prenatal and perinatal development, and have negative lifelong consequences for the baby. The most common indicators of a negative prenatal influence are low birthweight and/or prematurity

A developing baby goes through important growth throughout pregnancy, all the way up to the final months and weeks. Premature birth is when a baby is born too early, before 37 weeks of pregnancy. Despite national efforts to prevent premature births, roughly 1 in 10 babies are born too early. The earlier a baby is born, the higher the risk of death or serious disability. Low birthweight accounts for close to 20% of all infant deaths. Babies who survive can have breathing issues, intestinal problems, and bleeding in their brains. Longterm problems may include developmental delay and problems in school. (Facilitator can open "premature birth" to show the group the resources that can be found on the March of Dimes website) https://www.marchofdimes.org/mission/pr

There are important ways we can support the needs of premature babies and their families when they come home from the hospital! (Facilitator can access "early intervention" link to create activity around how EI providers can support premature babies and their families)

https://www.marchofdimes.org/complications/getting-services-for-your-baby-after-the-nicu.aspx

ematurity-campaign.aspx

Slide 25 **Risk Factors for Prematurity and LBW** · Maternal Health Diet · Environmental toxins · Substance use during pregnancy · Infectious agents · Stress and depression · Racial disparities Slide 26 Early prenatal care can make the difference Maternal health and pregnancy between a good birth outcome or a tragic complications one, It is important for all EI/ECSE providers Some health problems that occur before a woman is to promote access to affordable maternal pregnant, or those that occur while she is pregnant, can have a negative effect on outcomes for both the health care as early as possible - even mother and her baby. These include: **Anemia** before she is pregnant! (Facilitator may **Diabetes** choose to create breakout groups to explore Hypertension each topic separately, and report back about <u>Infections</u> Obesity and weight gain what they learned about the negative impact of the health condition they learned about) https://www.womenshealth.gov/a-ztopics/iron-deficiency-anemia https://www.cdc.gov/reproductivehealth/m aternalinfanthealth/diabetes-duringpregnancy.htm https://www.cdc.gov/bloodpressure/about. htm https://www.womenshealth.gov/pregnancy /youre-pregnant-now-what/pregnancy-

complications#4

https://www.cdc.gov/obesity/index.html

Slide 27 Adequate nutrition during pregnancy is **Maternal Diet** important to the healthy development of the growing fetus and to the health of the • Adequate nutrition during pregnancy is important to the healthy development of the growing fetus and to the health of the mother https://health.gov/myhealthfinder/topics/pr Some nutrients are particularly important during egnancy/nutrition-and-physical-activity/eatpregnancy, and are best provided in a prenatal healthy-during-pregnancy-quick-tips supplement in addition to a healthy diet, including folic acid, calcium, and iron Important to take in adequate nutrients, especially iron, calcium and folic acid, to support the growth of the fetus while maintaining a healthy weight Low levels of folic acid have been associated with fetal neural tube defects Low levels of iron are associated with low birth weight and premature birth, and increased risk of maternal complications Maternal obesity is associated with high blood pressure, preeclampsia, preterm birth, and gestational diabetes (Facilitator may access link to provide additional information to the group about nutrition during pregnancy). https://www.cdc.gov/ncbddd/folicacid/abo ut.html https://www.cdc.gov/nutrition/infantandto ddlernutrition/vitamins-minerals/iron.html Slide 28 Infectious agents can cause serious birth **Infectious Agents** abnormalities during pregnancy, especially when a mother is exposed to the infection HIV, CMV, Toxoplasmosis, Listeria, Rubella, and Zika are all known to pose serious threats to agent in the first trimester. Birth defects like these can be avoided when pregnant the healthy development of the fetus women are aware of the presence of these pathogens, and take steps to avoid infection: **Group activity:** Assign groups to one of the 6 links above and ask them to share 1. One surprising fact about the infections agent they read about 2) what the impact on the developing fetus is and 3) what steps could be taken to avoid exposure

https://www.cdc.gov/hiv/group/gender/pregnantwomen/index.html

https://www.cdc.gov/cmv/

https://www.cdc.gov/listeria/risk-groups/pregnant-women.html

https://www.cdc.gov/parasites/toxoplasmosis/gen_info/pregnant.html

https://www.cdc.gov/rubella/pregnancy.html

Slide 29

Environmental Toxins

- Environmental toxins in the air, water, and soil pass through the placenta and accumulate in the fetus
- · Prenatal exposure linked to adverse outcomes
- In the US, minority populations are more likely to live in the counties with higher levels of outdoor air pollution, as well as indoor pollutants such as lead and pesticides
- Prevention starts when we <u>increase awareness about toxic</u> <u>environmental agents</u>



https://www.cdc.gov/zika/about/index.html

Environmental toxins in the air, water and soil can pose risks to the developing fetus in ways that we don't fully understand.

Prenatal exposure linked to adverse outcomes for the developing fetus Toxins include: Methyl mercury, lead, pesticides, endocrine disruptors (found in a variety of industrial products, fuels and plastics)

In the US, minority populations are more likely to live in the counties with higher levels of outdoor air pollution, as well as indoor pollutants such as lead and pesticides

(Facilitator may access link to facilitate discussion about the impact of pollution on minority populations. Invite participants to access the toolkit at the link and produce at least one way that they/their agency/state can increase awareness about toxic environmental agents' effect on health:

Pediatric Environmental Health - the Toolkit (ucsf.edu)).

https://peht.ucsf.edu/

Slide 30

Substance Use During Pregnancy

Opioid use during pregnancy

- · Increased exponentially over the past decade
- Infants chronically exposed to opioids in utero are often born with <u>Neonatal Abstinence Syndrome</u> (NAS)
- Long-term opioid use has also been linked to preterm birth, stillbirth, and specific birth defects



https://www.cdc.gov/pregnancy/opioids/index.html

Depending on the state, infants born with NAS qualify for early intervention services. In addition, infants with NAS are at increased risk of developmental delay.

When Part C interventionists are able to connect with families at the very start, they are in a privileged position to meet mothers where they are without judgement - to support their capacity to connect with their baby. This is especially important for babies with lingering symptoms of NAS who may continue to be disorganized and fussy for the first few months at home. (Facilitator may access links for additional information about opioid use during

https://pediatrics.aappublications.org/content/pediatrics/146/5/e2020029074.full.pdf

https://www.cdc.gov/ncbddd/fasd/facts.html

pregnancy and NAS)

Fetal Alcohol Spectrum Disorders (FASD) is a term used for a variety of disorders that can occur when a pregnant woman drinks alcohol. Symptoms range from mild to severe.

Fetal Alcohol Syndrome (FAS): Most severe end of the FASD spectrum and can include: CNS problems, facial differences, and growth problems. People with FAS can have problems with learning, memory, attention span, communication, vision, or hearing.

Alcohol-Related Neurodevelopmental Disorder (**ARND**): Children with ARND can have intellectual disabilities and problems with behavior, learning, impulse control

Alcohol-Related Birth Defects (ARBD): Children with ARBD can have problems with the heart, kidneys, or bones or with hearing

Slide 31

Substance Use During Pregnancy: Alcohol

- Fetal Alcohol Spectrum Disorders (FASD): variety of disorders that can occur when a pregnant woman drinks alcohol.
- Fetal Alcohol Syndrome (FAS)
- Alcohol-Related Neurodevelopmental Disorder (ARND)
- Alcohol-Related Birth Defects (ARBD)



Slide 32	Stress and Depression Depression occurs at around double the rate for a woman of childbearing age during pregnancy The effect of depression shares overlap with the impact of high levels of maternal stress. Associated with higher rates of prematurity	Depression occurs at around double the rate during pregnancy than for the female population of childbearing age at large Early evidence suggests that clinical depression during pregnancy may produce epigenetic changes in the developing fetus The effect of depression shares overlap with the impact of high levels of maternal stress, which are independently associated with both epigenetic changes and higher rates of premature births and low birthweights
Slide 33	• Conditions in the environments where people are born, live, learn, work, play, worship, and age affect a wide range of health, functioning, and quality-of-life outcomes and risks.	EI/ECSE practitioners and teachers who work with children with disabilities/delays and their families will always need to consider how environmental systems are active to promote – or constrain – the health and development of the children they work with.
	E C P C ten to the ten travel care were capital	We know well that conditions on the environments where children and their families are born, live, work, play, and worship directly influence physical health and well-being. Healthy People 2030, U.S. Department of Health and Human Services, Office of Disease Prevention and Health Promotion. Retrieved [date graphic was accessed], from https://health.gov/healthypeople/objectives
Slide 34	Examples: Social Determinants of Health Safe housing, transportation, and neighborhoods Racism, discrimination, and violence Education, job opportunities, and income Access to nutritious foods and physical activity	-and-data/social-determinants-health https://46y5eh11fhgw3ve3ytpwxt9r- wpengine.netdna-ssl.com/wp- content/uploads/2020/11/RacismInfographi c 2020.pdf SDOH also contribute to wide health disparities and inequities. For example,
	Polluted air and water Language and literacy skills Company	people who don't have access to grocery stores with healthy foods are less likely to have good nutrition. That raises their risk of health conditions like heart disease, diabetes, and obesity — and even lowers life

expectancy relative to people who do have access to healthy foods. (If desired, the facilitator may access the linked pdf on the slide from the Harvard Center on the Developing Child to facilitate a discussion about how racism can affect child development) Healthy People 2030, U.S. Department of Health and Human Services. Office of Disease Prevention and Health Promotion. Retrieved [date graphic was accessed], from https://health.gov/healthypeople/objectives -and-data/social-determinants-health Slide 35 Many people face challenges and dangers **Social Determinants of Health:** they can't control — like unsafe 5 Domains neighborhoods, discrimination, or trouble 1. Economic stability affording the things they need. This can 2. Education access and quality have a negative impact on health and 3. Health care access and quality safety throughout life. 4. Neighborhood and built environment (read bullets) 5. Social and community context Healthy People 2030, U.S. Department of Health and Human Services, Office of Disease Prevention and Health Promotion. Retrieved [date graphic was accessed], from https://health.gov/healthypeople/objectives -and-data/social-determinants-health Slide 36 In the United States, 1 in 10 people live in lowresourced communities, and many people can't 1. Economic Stability afford things like healthy foods, health care, and · Child health and development outcomes are housing. People with disabilities, injuries, or directly impacted by conditions of economic conditions like arthritis may be especially limited instability in their ability to work. In addition, many people with steady work still don't earn enough to · Unemployment, underemployment afford the things they need to stay healthy. · Low income despite multiple jobs Research shows up that when children grow up · Limited access to food, healthcare, housing in conditions of economic instability, they face a much higher likelihood of academic, physical and mental health problems over the lifespan. Healthy People 2030, U.S. Department of

		Health and Human Services, Office of Disease Prevention and Health Promotion. Retrieved [date graphic was accessed], from https://health.gov/healthypeople/objectives- and-data/social-determinants-health
Slide 37	2. Education Access and Quality 1. Limited access to good schools 2. Racial and disability bias in the educational environment 3. Inadequate educational supports and accommodation for children with disabilities 4. Vulnerability to social discrimination like bullying and exclusion	Children from low-income families, children with disabilities, and children who routinely experience forms of social discrimination — like bullying — are more likely to struggle in school. They're also less likely to graduate from high school or go to college. This means they're less likely to get safe, high-paying jobs and more likely to have health problems like heart disease, diabetes, and depression.
	Enf Weben Prome Care was rapin as g	Healthy People 2030, U.S. Department of Health and Human Services, Office of Disease Prevention and Health Promotion. Retrieved [date graphic was accessed], from https://health.gov/healthypeople/objectives-and-data/social-determinants-health
Slide 38	3. Health Care Access and Quality 1 in 10 people in US do not have health insurance Parents and caregivers lack access to care The rate of uninsured children has increased rapidly since 2017 Developmental trajectories are impacted when children do not have access to health care	About 1 in 10 people in the United States don't have health insurance. People without insurance are less likely to have a primary care provider, and they may not be able to afford the health care services and medications they need for themselves and for their children.
	E C P C this Olderst Honoral Case wee regin as g	https://ccf.georgetown.edu/2020/10/08/childre ns-uninsured-rate-rises-by-largest-annual-jump- in-more-than-a-decade-2/ Healthy People 2030, U.S. Department of Health and Human Services, Office of Disease Prevention and Health Promotion. Retrieved [date graphic was accessed], from
		https://health.gov/healthypeople/objectives- and-data/social-determinants-health

Slide 39 Many families in the United States live in 4. Neighborhood/Built Environment neighborhoods with high rates of violence, unsafe air or water, and other health and safety • High rates of violence risks. Racial/ethnic minorities and people with · Unsafe air and water low incomes are more likely to live in places with · High levels of noise pollution these risks. In addition, some people are • Limited transportation to access health, exposed to things at work that can harm their food, education resources health, like secondhand smoke or loud noises. Slide 40 Many parents and caregivers face challenges and dangers they can't control — like unsafe 5. Social and Community Context neighborhoods, discrimination, or trouble · Unsafe neighborhoods affording the things they need. In addition, Discrimination children of color may be seen as "bad" · Low access to community support based on ongoing societal biases. This can · Positive relationships increase family have a negative ongoing impact on health capacity to care for their children throughout life. Positive relationships at home, at work, and in the community can help reduce these negative **impacts**. But some children whose parents are in jail and adolescents who are bullied — may be on their own without the protection they need to be safe, and to develop in a healthy way. Healthy People 2030, U.S. Department of Health and Human Services, Office of Disease Prevention and Health Promotion. Retrieved [date graphic was accessed], from https://health.gov/healthypeople/objectivesand-data/social-determinants-health Slide 41 https://www.zerotothree.org/resources/156-**Bringing It All Together To Support** brain-wonders-nurturing-healthy-brain-**Healthy Development** development-from-birth • Brain Wonders: Nurturing Healthy Brain **Development from Birth** https://vimeo.com/103169425 · How do the concepts in this video inform the How do the concepts in this video inform the essential components of intervention for children essential components of intervention for with delays and disabilities as well as for typicallychildren with delays and disabilities as well as developing children? for typically-developing children?

Slide 42 https://vimeo.com/103169425 **Brain Wonders: Nurturing Healthy Brain Development from Birth** Slide 43 https://ecpcta.org/wp-**Group Activity** content/uploads/sites/2810/2021/02/Case-Study-Maria-Professionalism.pdf • Read Maria's Story · Identify the genetic, prenatal, environmental, and How do the concepts in this video inform experiential influences you see as important this the essential components of intervention for case children with delays and disabilities as well · What social determinants of health may be active as for typically-developing children? for this family? What strengths do you see? Needs? Facilitator can use the discussion and resources text on the right side of the document to support discussion about the social determinants of health, the barriers that exist for this family to access safe housing, physical and mental health care services. Discuss the high likelihood that their family is exposed to higher than average environmental toxins due to the fact that they live in an under-resourced community. Family is likely very worried about their undocumented immigration status and may not trust the school and EI providers, at least at first. Language is a significant barrier as well. Strengths – this family works hard not only to provide for their family, but to be present for them for protection and learning while they are together. They want the best for

their children.

Slide 44		https://www.cdc.gov/violenceprevention/ac
	References and Resources	es/fastfact.html
	Berk, L.E., (2019). Child Development, 10 th Edition. Pearson.	https://www.bmj.com/content/371/bmj.m3048
	Centers for Disease Control and Prevention: Preventing	
	Adverse Childhood Experiences Violence Prevention Injury	
	Center CDC	
	• Nelson, C.A., Bhutta, Z.A., Harris, N.B, Danese, A., & Samara,	
	M., (2020). Adversity in childhood is linked to mental and	
	physical health throughout life. <i>British Medical Journal</i> , 371:m3048; http://dx.doi.org/10.1136/bmj.m3048	
	571.1113048, 11(D)// (0.11130/0111).1113048	
•	Early Oldhood Personal Center	
Slide 45		
	References and Resources	https://pediatrics.aappublications.org/content/
		pediatrics/146/5/e2020029074.full.pdf
	• Patrick, S.W., Barfield, W.D., & Poindexter, B.B.,	
	(2020). Neonatal Opioid Withdrawal Syndrome,	
	Pediatrics; Vol. 146(5)	
	e2020029074; DOI: 10.1542/peds.2020-029074	
	E C P C	
Slide 46	- Company	https://www.marchofdimes.org/complications/
	References and Resources	getting-services-for-your-baby-after-the-
	March of Dimes: Getting services for your baby	nicu.aspx
	after the NICU (marchofdimes.org)	
	• Zero to Three: Temperament	https://www.zerotothree.org/espanol/tempera
	https://www.zerotothree.org/espanol/temperament	ment
	Office on Women's Health: Iron-deficiency anemia	
	Office on Women's Health (womenshealth.gov)	https://www.womenshealth.gov/a-z-
		topics/iron-deficiency-anemia
	E C P C	
Slide 47	was picture was	https://www.cdc.gov/reproductivehealth/mater
Jilde 47	References and Resources	nalinfanthealth/diabetes-during-pregnancy.htm
	neierences and nesources	naminationally address during pregnancy.htm
	Diabetes During Pregnancy Maternal Infant Health	https://www.cdc.gov/bloodpressure/about.htm
	Reproductive Health CDC	
	High Blood Pressure Symptoms and Causes cdc.gov	https://www.womenshealth.gov/pregnancy/you
	Pregnancy complications Office on Women's Health	re-pregnant-now-what/pregnancy-
	(womenshealth.gov)	complications#4
	Overweight & Obesity CDC E C P C	https://www.cdc.gov/obesity/index.html
	Early Childhood Personnell Center www.eapch.com	

Slide 48		https://www.cdc.gov/hiv/group/gender/pregna
	References and Resources	ntwomen/index.html
	Pregnant Women, Infants, and Children Gender HIV by Group HIV/AIDS CDC	
	Cytomegalovirus (CMV) and Congenital CMV Infection CDC	https://www.cdc.gov/cmv/
	People at Risk - Pregnant Women and Newborns Listeria CDC	
	CDC - Toxoplasmosis - General Information - Pregnant Women	https://www.cdc.gov/parasites/toxoplasmosis/g
	Pregnancy and Rubella CDC	en_info/pregnant.html
	About Zika Virus Disease Zika virus CDC	https://www.cdc.gov/listeria/risk-
	FIGRIC	groups/pregnant-women.html
	Enty Ordinal Proximal Center was assigned and	<u> </u>
		https://www.cdc.gov/rubella/pregnancy.html
		https://www.cdc.gov/zika/about/index.html
Slide 49		https://health.gov/myhealthfinder/topics/pregn
	References and Resources	ancy/nutrition-and-physical-activity/eat-healthy-
	Office of Disease Prevention and Health Promotion:Eat	during-pregnancy-quick-tips
	Healthy During Pregnancy: Quick tips - MyHealthfinder	
	<u> health.gov</u>	https://www.cdc.gov/pregnancy/opioids/index.
	University of California San Francisco, Pediatric	html
	Environment Health Toolkit: Pediatric Environmental	https://peht.ucsf.edu/
	Health - the Toolkit (ucsf.edu)	https://pent.ucsr.edu/
	Opioid Use During Pregnancy CDC E C P C	
	Early Collect Present Cests we applican	-
Slide 50		https://www.cdc.gov/ncbddd/fasd/facts.html
	References and Resources	
	Basics about FASDs CDC	https://health.gov/healthypeople/objectives-
	Healthy People 2030, U.S. Department of Health	and-data/social-determinants-health
	and Human Services, Office of Disease Prevention	
	and Health Promotion. Retrieved [date graphic was	
	accessed], from	
	https://health.gov/healthypeople/objectives -and-	
	data/social-determinants-health	
.	E C P C	_
Slide 51	weaphurg	https://www.zerotothree.org/resources/156-
	References and Resources	brain-wonders-nurturing-healthy-brain-
		development-from-birth
	Brain Wonders: Nurturing Healthy Brain	
	Development from Birth • ZERO TO THREE	https://ecpcta.org/wp-
	• Early Childhood Personnel Center Website: Cross	content/uploads/sites/2810/2021/02/Case-
	disciplinary case studies, Maria's story Case-Study-	Study-Maria-Professionalism.pdf
	Maria-Professionalism.pdf (ecpcta.org)	
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