

Participant Guide: Child Development: Understanding How Genes and Environment Interact

Objectives

<p>Session 1</p> <ul style="list-style-type: none"> Identify genetic predisposition and define interplay between genes and environment. 	<p>Session 2</p> <ul style="list-style-type: none"> Understand the stages of prenatal brain development and environmental risk factors during this period.
<p>Session 3</p> <ul style="list-style-type: none"> Identify critical periods of the postnatal brain development and impact of early risk factors. Define the concepts of adverse experiences and toxic stress in early development and their impact on brain development. Utilize the understanding of brain development to build successful programs for children. 	<p>Session 4</p> <ul style="list-style-type: none"> Plan ways that child-care settings can partner with families to prevent the impact of the toxic stress on child development.

Know	Want to Know/Learn	Learned

Session 1

Mn Department of Health website – Diseases and Conditions Identified in Children

<http://www.health.state.mn.us/divs/cfh/topic/diseasesconds/index.cfm>

Assignment for Session 2: Practice your new knowledge from this session in your place of work between sessions. Write a few reminders between sessions about your work experiences and to be prepared to share what you practiced and learned at the beginning of the next session.

Notes:

Session 2

Additional Information about Fetal Alcohol Syndrome Disorder

National Organization on Fetal Alcohol Syndrome <https://www.nofas.org/>

American Academy of Pediatrics Fetal Alcohol Spectrum Disorders Program <https://www.aap.org/en-us/advocacy-and-policy/aap-health-initiatives/fetal-alcohol-spectrum-disorders-toolkit/Pages/default.aspx>

Assignment for Session 3: Practice your new knowledge from this session in your place of work between sessions. Write a few reminders between sessions about your work experiences and to be prepared to share what you practiced and learned at the beginning of the next session.

Notes:

Session 3

Adverse Childhood Experiences Study (ACES) and prevalence and impact among MN's children

Excellent summary information can be found at <http://www.health.state.mn.us/divs/cfh/program/ace/>

Assignment for Session 3:

- Pick a child in their child care setting and observe what activities support language development in the brain.
- Think and list five more activities that will support brain development in this area.
- Use the Zero to Three website on brain development as a resource for your assignment.
Zero to Three at <https://www.zerotothree.org/>

Notes:

Session 4

Notes: