

*Accelerating Innovation:
Telling the Brain Story to Inspire Action*

The Science of Neglect

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The National Scientific Council
on the Developing Child

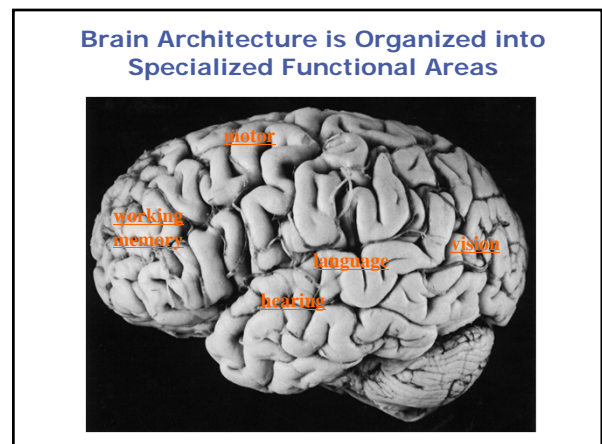
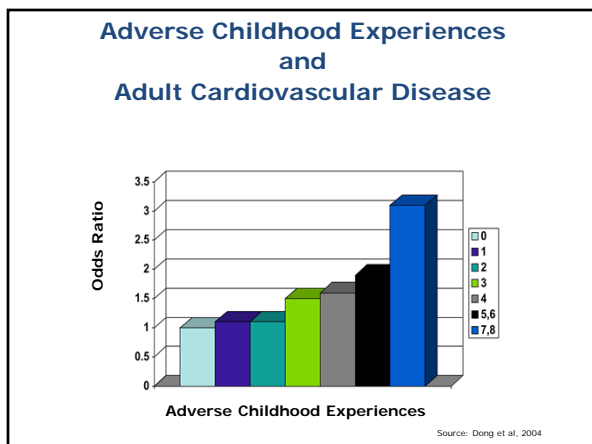
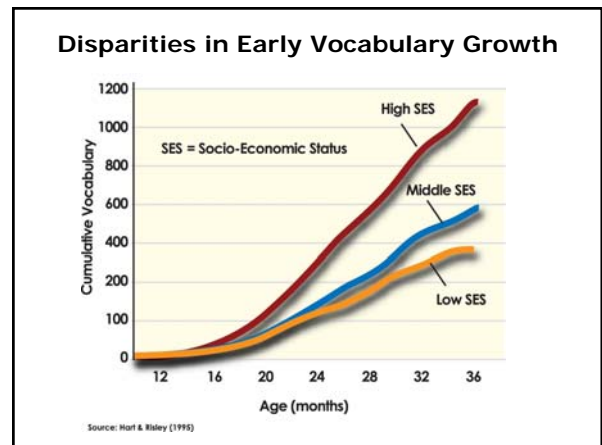


The Foundations of Lifelong Health are Built in Early Childhood

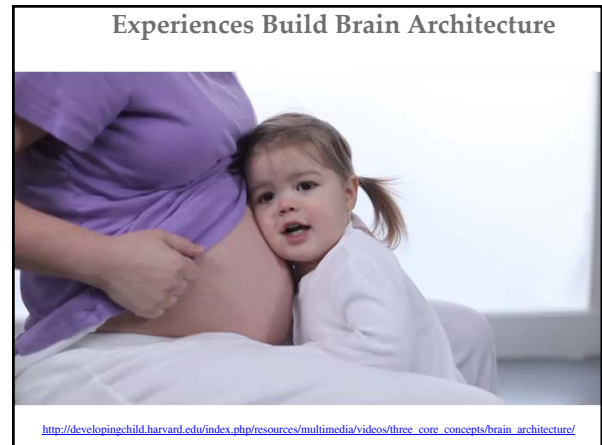
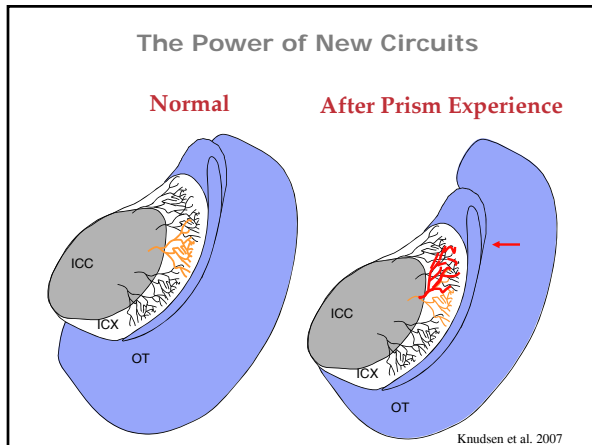
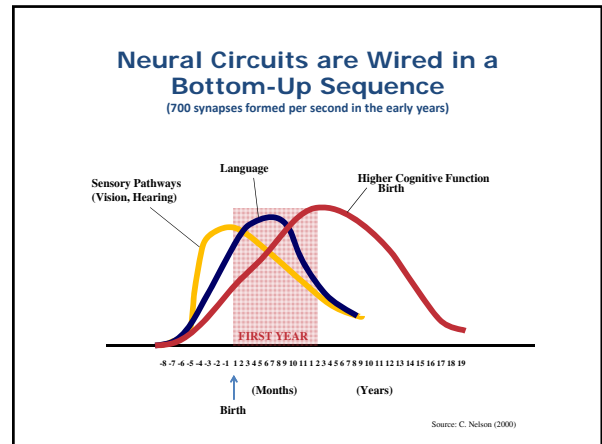
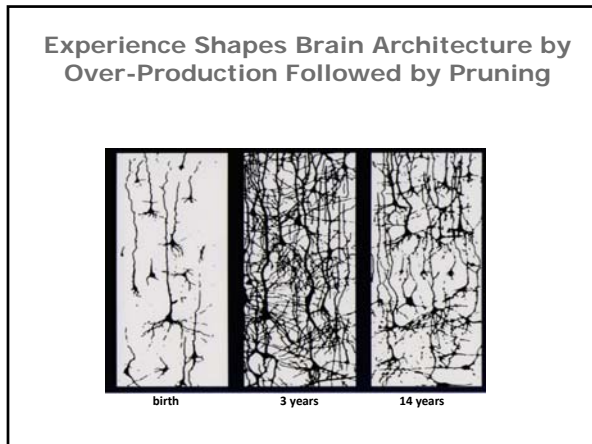


Three Core Concepts of Development

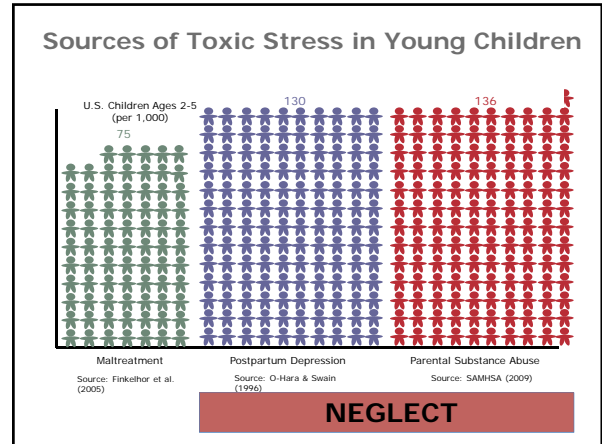
- 1** Brain Architecture Is Established Early in Life and Supports Lifelong Learning, Behavior, and Health
- 2** Stable, Caring Relationships and “Serve and Return” Interaction Shape Brain Architecture
- 3** Toxic Stress in the Early Years of Life Can Derail Healthy Development

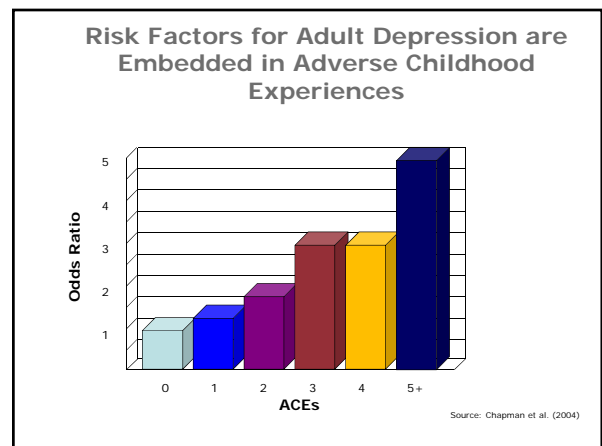
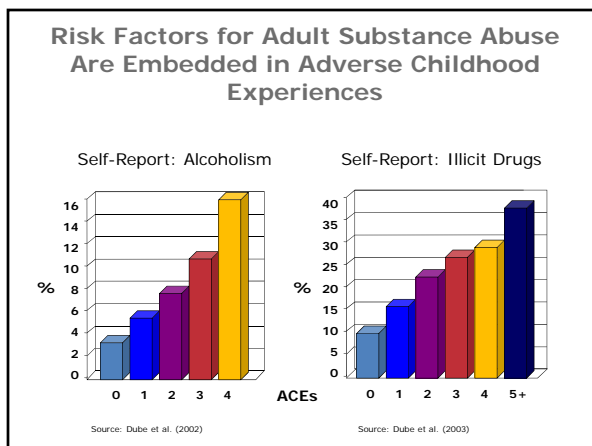
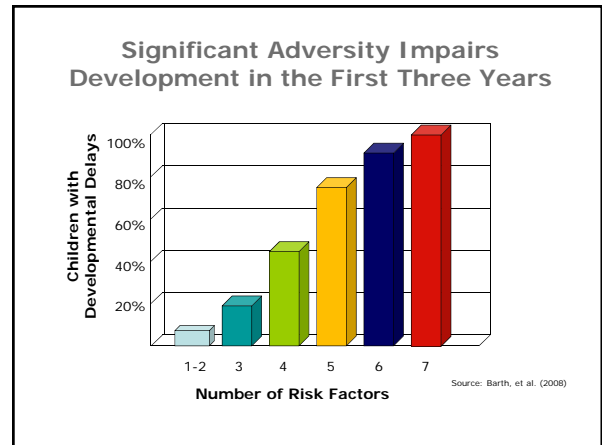
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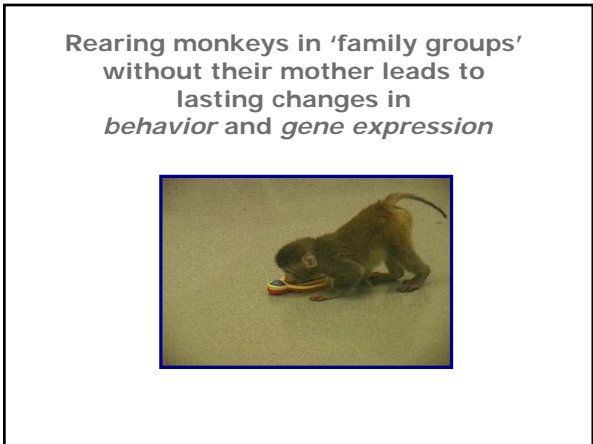
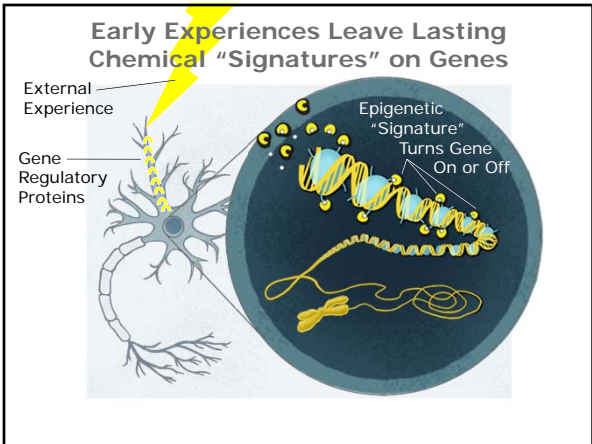
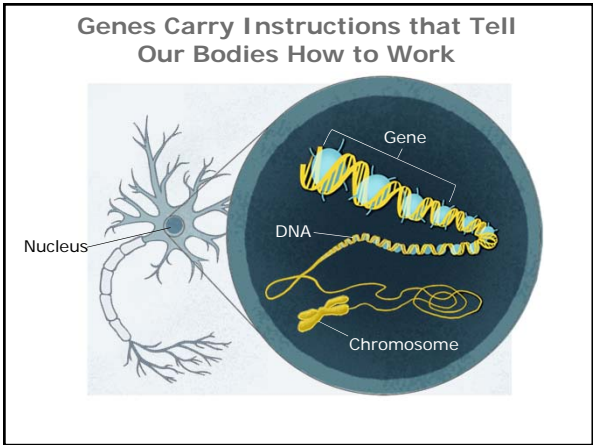
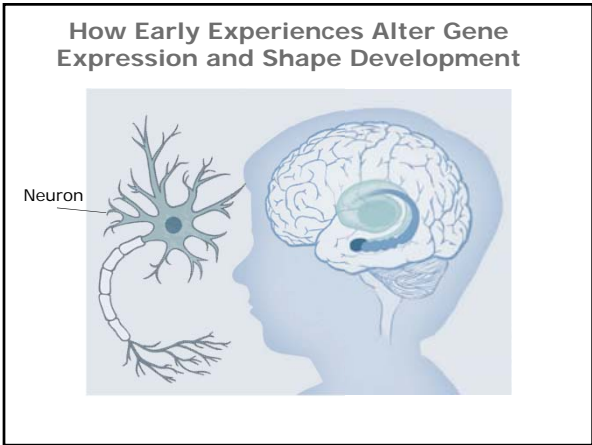
What are the Long-term Impacts of Toxic Stress in Early Life?

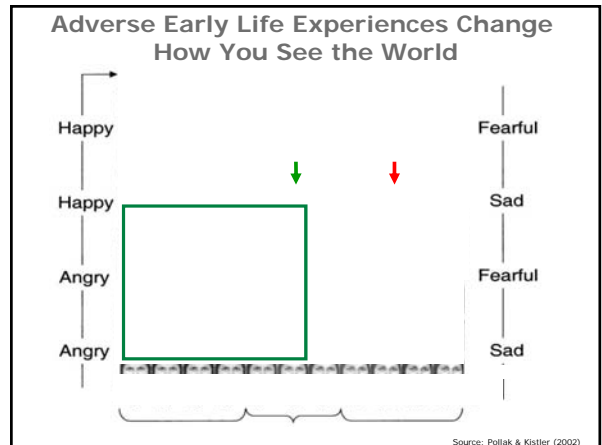
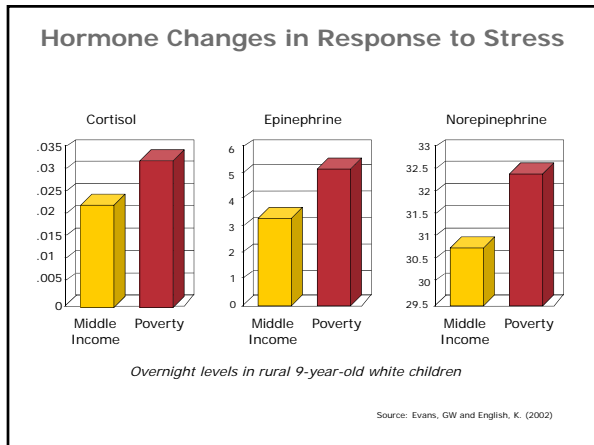
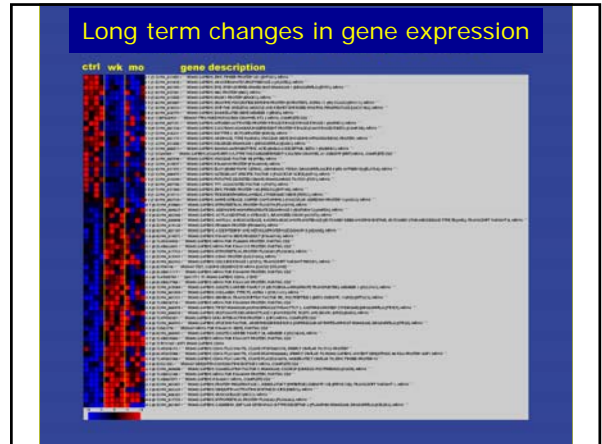


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How Does Neglect Impact the Brain?

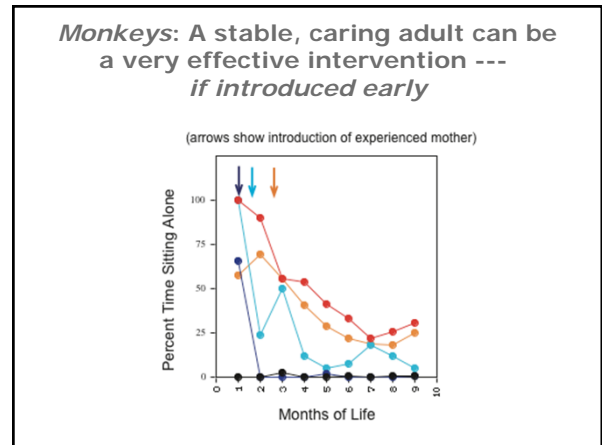
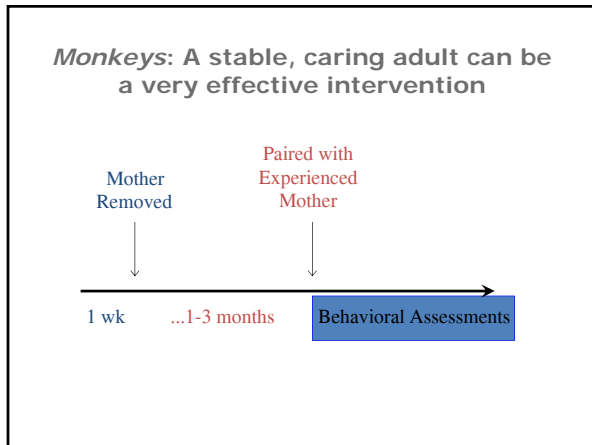
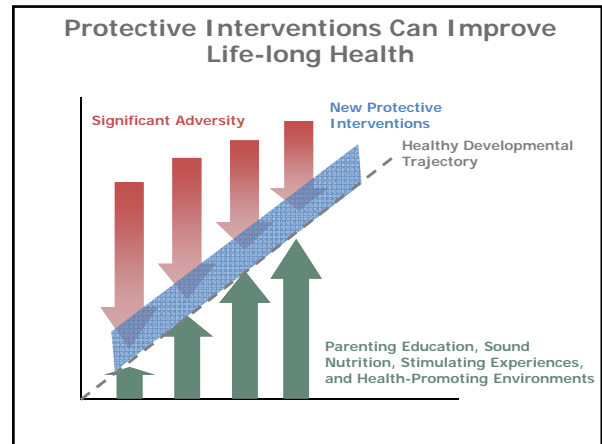
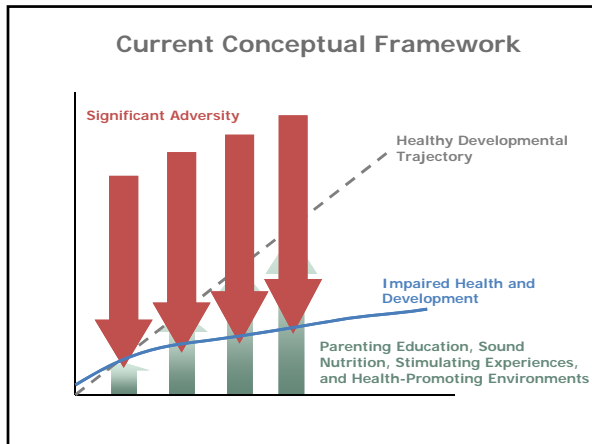
- ### How does neglect impact the brain?
- 1 **Brain Architecture** Is Shaped by Early Life Stresses
 - 2 **Gene Expression in the Brain** Changes in Response to Stress Exposure
 - 3 **Hormone Secretion** Changes in Response to Stress Exposure
 - 4 Early Stresses Change the *Way You See the World*





Can We Prevent Long-term Health Impacts of Early Life Neglect?

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- How can communities provide children with stable, caring relationships?
 - Strengthening family relationships
 - Providing other relationships
- How can interventions be provided early?
- How to get the community involved?

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