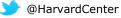


Connecting the Science of Adversity and Resilience to Early Childhood Development and Lifelong Health

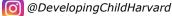
JACK P. SHONKOFF, M.D.

Director, Center on the Developing Child at Harvard University. Julius B. Richmond FAMRI Professor of Child Health and Development, Harvard T.H. Chan School of Public Health and Harvard Graduate School of Education. Professor of Pediatrics, Harvard Medical School & Boston Children's Hospital. Research Staff, Massachusetts General Hospital.

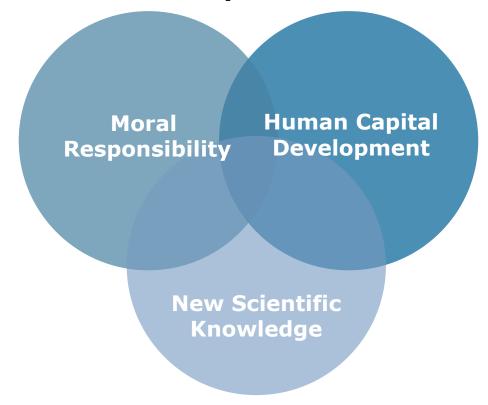
Alyce Spotted Bear and Walter Soboleff Commission on Native Children January 28, 2022





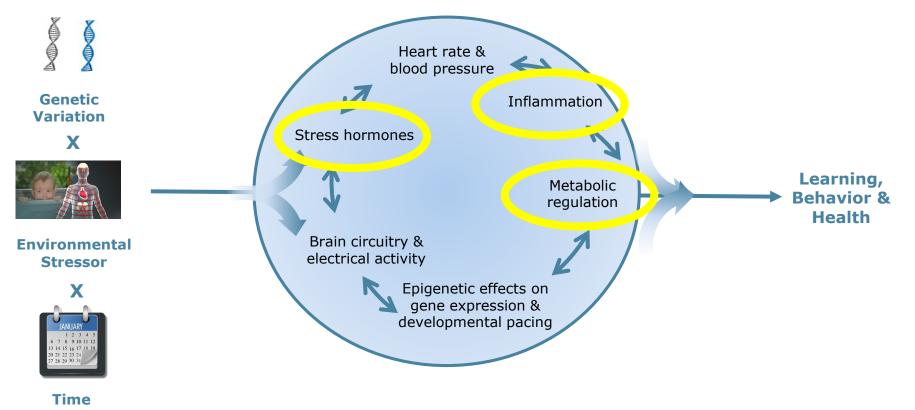


Three Converging Lenses for Thinking About Adversity in the Prenatal and Early Childhood Periods



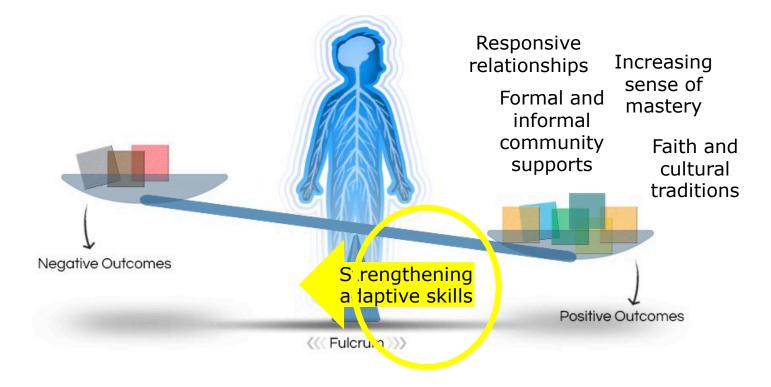
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The Biology of Adversity and Resilience Explains How Excessive Stress Can Undermine the Foundations of Health and Development



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Resilience in the Face of Adversity Can Be Strengthened by Supportive Relationships and Focused Skill-Building



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Understanding the Distinctions Among Three Different Conceptual Frameworks

Toxic stress refers to the physiological disruptions produced by excessive stress system activation. [A *science-based concept that focuses on causal mechanisms that link adversity to later impairment*].

An ACE score is a 10-item rating scale of exposure to child maltreatment and household dysfunction.[*A quantitative measure of a restricted set of risk factors, not a diagnostic tool*].

Trauma-informed care is an approach to treating individuals who have had significant, personal exposure to violence, loss, or other emotionally harmful experiences [*A framework for specialized treatment with an evolving evidence base*].

Need for a New Mindset for Science-Informed Investment in the Prenatal Period and First 2-3 Years After Birth

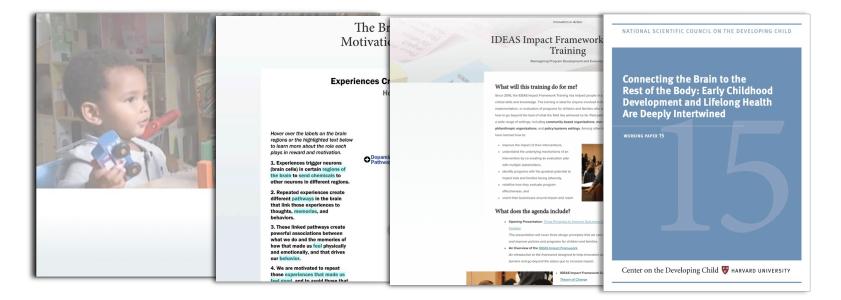
It's about the developing brain **and** it's also about immune and metabolic systems.

It's about readiness to succeed in school **and** it's also about lifelong health.

It's about the hardships of poverty **and** it's also about the threats and burdens of racism.

It's about nurturing relationships **and** it's also about building a health-promoting society.





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