

# POLICY BRIEF

**RECOMMENDATIONS  
 FOR THE NEW  
 ADMINISTRATION**

## Improving the Future of America's Children

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There are approximately 74 million children in the United States, and 21% of them live in families with incomes below the federal poverty threshold. Poverty puts children at risk for poorer health and reduced educational achievement. The vitality of a nation depends, in part, on the well-being of future generations. Yet unlike other developed countries, the U.S. has not prioritized the welfare of children; it ranks near the bottom on standard measures of child health and well-being among Organisation for Economic Co-operation and Development (OECD) nations. For instance, the overall health of American children ranks second to last, and educational achievement in math, reading, and science is ranked 21st out of 25, with 25 being the worst. Poor health and educational outcomes could be related to inadequate brain development during childhood.

Advances in neuroscience and developmental biology demonstrate that a child's health and ability to learn is determined by how well the brain develops during the first few years of life. The brain controls the biological effects of all other organ systems and influences intelligence, learning, health, and behavior. Because the brain controls these different aspects of human life, impaired brain development as a child can lead to low educational outcomes and suboptimal physical, mental, and behavioral health, which together cause decreased functioning in society when these children reach adulthood. Therefore, investments in early childhood to support healthy brain development can improve children's health and learning, thus reducing societal costs in remediation, health care, mental health services, and incarceration.

### CAUSES OF POOR BRAIN DEVELOPMENT

There is a critical window from birth to age 4 when the brain development of a child is most affected. During this period, new neuronal connections are formed at the rate of 700 new connections per second. Neurons that remain inactive or are rarely stimulated are eliminated, and those that are stimulated by experience are strengthened and maintained. The caregiver's response to the child's verbal or nonverbal communication, often called "serve and return," shapes which neuronal connections remain and which are eliminated, making caregiver-child relationship the most significant influence on brain development. Negative caregiver-child interactions, such as insecure parental attachments, can create irreversible changes in the brain that impede the child's intelligence, learning, behavior, and mental health. Many external factors influence the caregiver-child relationship (Table 1), and families living in poverty are most at-risk for experiencing negative influences.



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### FACTORS THAT INFLUENCE EARLY CHILDHOOD BRAIN DEVELOPMENT

Positive Influences		Negative Influences	
Parent	Child	Parent	Child
Supportive relationships	Loving relationships	Domestic violence	Poor housing
Economic security	Adequate prenatal and child care	Maternal stress/ depression	Adverse childhood experiences
Adequate health care	Adequate nutrition	Poverty	Insecure parent attachments
Adequate nutrition	Safe and stimulating environments	Lack of social support	Lack of stimulation

**This policy brief is part of a series of recommendations from the Baker Institute for the incoming president's administration.**

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## POLICY RECOMMENDATIONS

Current federal policies can have a greater positive impact on reducing deficits and strengthening the economy if there is a focus on supporting the optimal brain development of the next generation. There is strong evidence that investments in early childhood yield 7 to 10 percent per year return on investment, measured by increased school and career achievement and reduced expenditures for remedial education, health, and the criminal justice system. Therefore, we recommend revisions to the following current policies:

### 1. Expansion of the Early Head Start Program (EHS)

Head Start (HS) programs have demonstrated greater parental involvement and higher earnings for participating children when they reach their 20s. Several evaluations of the Early Head Start program have demonstrated improved parent-child relationships and higher cognitive, language, and social-emotional development in children who participated in EHS compared to those who did not. However, there often are not enough spots in HS and EHS to enroll all children from low-income working families that need child care. We recommend increasing funding for HS and EHS to increase access to these evidence-based programs for all children who need it.

### 2. Increase licensure requirements and wages for child care workers

Licensing requirements for child care workers vary by state and often do not require more than a high school diploma. Additionally, wages are very low and, therefore, retaining skilled providers is difficult. Because low-income children in working families spend a lot of time with child care providers, we recommend policies that support additional training and increased wages for child care workers.

### 3. Provide federal funding for mandatory parenting classes for those enrolled in Women, Infants, Children (WIC) and Supplemental Nutrition Assistance Program (SNAP)

Evidence-based parenting programs have been consistently identified as one of the most cost-effective evidence-based public policy solutions for child welfare. We recommend a requirement and additional funding for states that receive federal funds for WIC and SNAP to provide free parenting classes to families receiving benefits.

Raising healthy children results in healthy adults. In order to increase the capacity of American children to become productive citizens and compete in a global economy, it is vital that future federal policies include a focus on improving children's brain development.

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