How Early Childhood Development Can Inform P-12 Education

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In collaboration with

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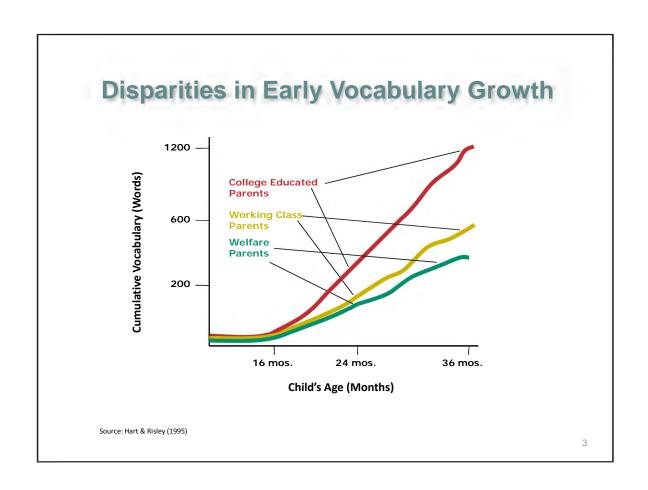
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Background

- Dramatic changes in development occur between the ages of 0 and 5.
- Research shows that targeted supports for at-risk children can help them thrive.
- Public investments for at-risk children 0-5 should be evidence-based.
- To date, most research has looked at disparities at kindergarten entry and beyond.



Research Questions

- Are there disparities for cognitive development, general health, and social-emotional development at 9 and 24 months based on:
 - · Family income
 - Race/ethnicity
 - Home language
 - Maternal educational attainment
- If disparities exist, what is the magnitude of the developmental gap?
- What proportion of infants and toddlers have multiple risk factors, taking into consideration low family income, racial/ethnic minority status, non-English home language, and low maternal education?
- What effect does cumulative risk have on cognitive, health, and socio-emotional outcomes?

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Overview of the Study

- Nationally-representative sample of approximately 11,000 children born in 2001
 - Data collected at 9 months, 24 months, 48 months, and in Kindergarten
- Current analyses focus on 9 and 24 months
 - Analyses of the 9-month sample were limited to children aged 8-11 months (N = 7,400)
 - Analyses of the 24-month sample were limited to children aged 22-25 months (N = 7,200)
- Analyzed widely used measures of cognitive development, general health, and social-emotional development

Key Findings

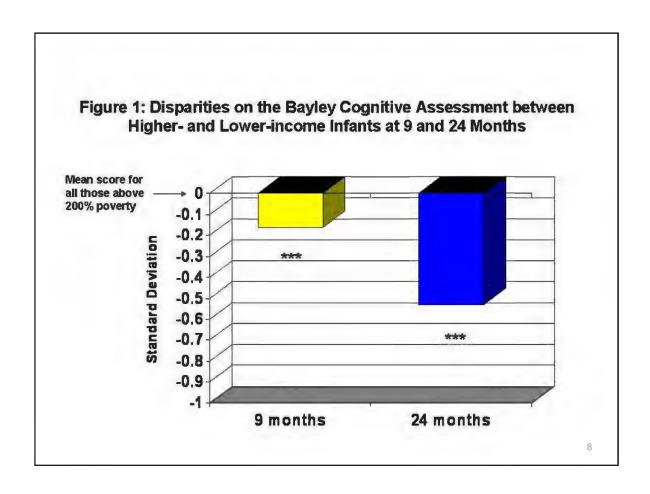
- Disparities in child outcomes are evident at 9 months and grow larger by 24 months of age.
- These disparities exist across cognitive, social, behavioral and health outcomes.
- The most consistent and prominent risk factors are low income and low maternal education.
- The more risk factors a child has, the wider the disparities.

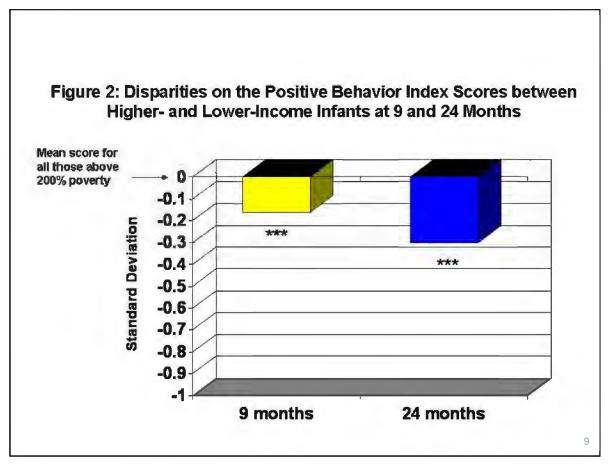
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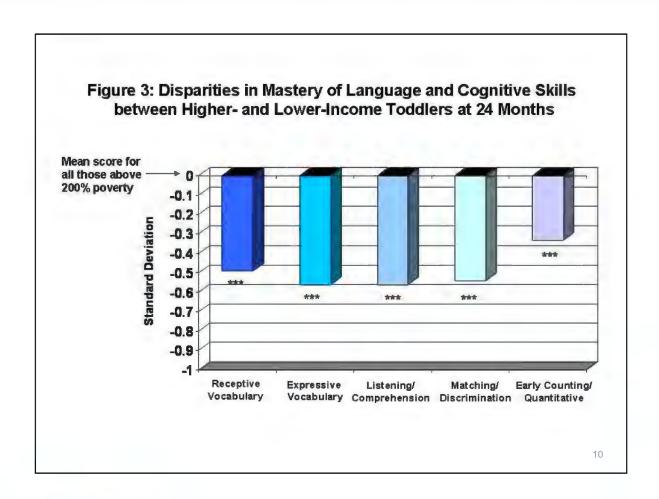
Disparities by Family Income

- Infants and toddlers from low-income families¹...
 - Score lower on cognitive assessment than infants and toddlers from higher-income families at 9 and 24 months (Figure 1).
 - Are less likely than children in higher-income families to be in excellent or very good health at both 9 and 24 months.
 - Are less likely to receive positive behavior ratings at 9 and 24 months than children from higher-income families (Figure 2).

¹ Low-income families are those whose income is at or below 200% of the poverty threshold.

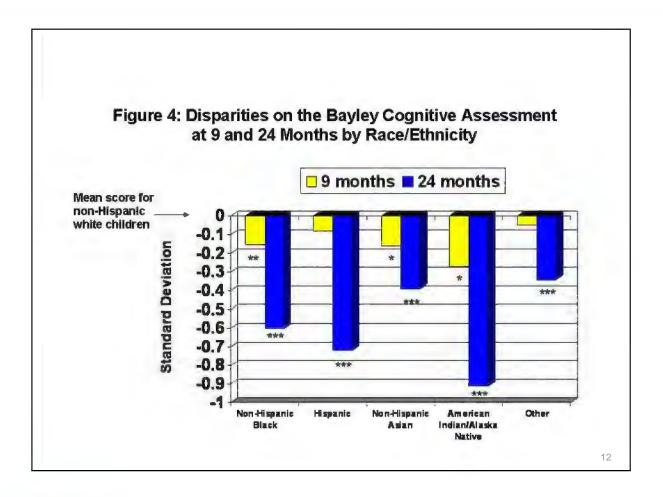






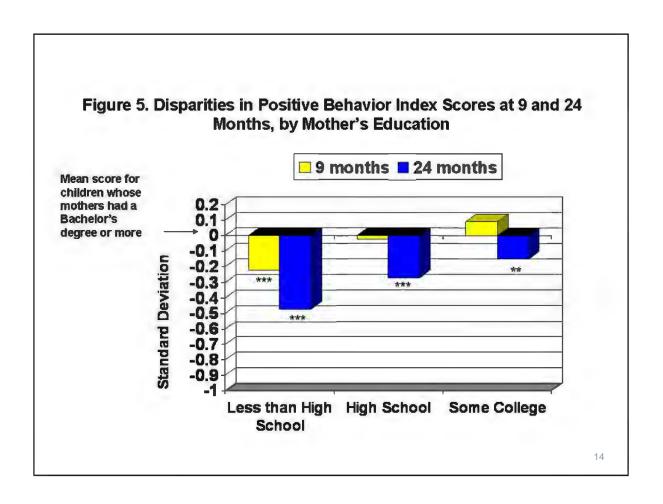
Disparities by Race/Ethnicity

- Though the effects are small to moderate among 9-month-olds, white infants score higher on measures of cognitive development than non-Hispanic black, Asian, and American Indian/Alaskan Native infants at 9 months
- Disparities by race/ethnicity are more pronounced among 24-month-olds, with toddlers from racial/ethnic minority backgrounds scoring lower than their white peers on the cognitive assessment



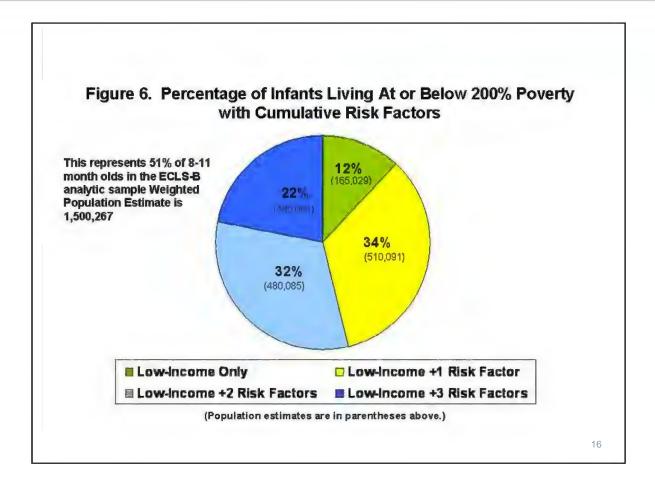
Disparities by Maternal Education

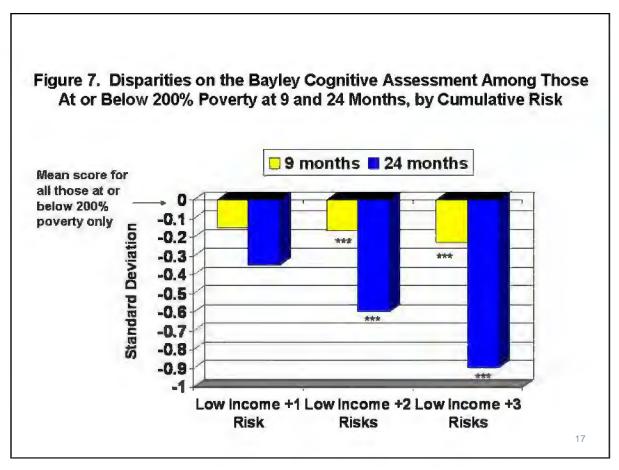
- Infants and toddlers whose mothers have less than a high school degree:
 - Score lower on the cognitive assessment than infants and toddlers whose mothers have a Bachelor's degree or higher
 - Score lower on the positive behavior index than infants whose mothers have a Bachelor's degree or higher. This disparity becomes more pronounced at 24 months
 - Are less likely to be in excellent or very good health compared to infants and toddlers whose mothers have a Bachelor's degree or higher
- Toddlers whose mothers have a Bachelor's degree or higher are more likely to have a secure attachment to their primary caregiver compared to toddlers whose mothers have less education



Multiple Risk Factors

- The most prominent risk factors are <u>low-income</u> and <u>low maternal education</u> at both 9 and 24 months
- The more risk factors a child has, the more profound the disparities





Key Findings

- Disparities in child outcomes are evident at 9 months and grow larger by 24 months of age.
- These disparities exist across cognitive, social, behavioral and health outcomes.
- The most consistent and prominent risk factors are low income and low maternal education.
- The more risk factors a child has, the wider the disparities.

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Implications

Start Early

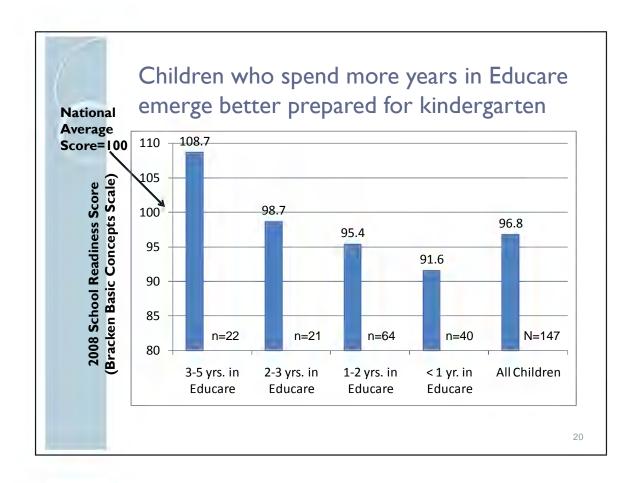
 Interventions should be high-quality, comprehensive and continuous for children ages 0 to 3 as well as ages 3 to 5.

Target Low-income Children

 As income is the most prevalent risk factor at 9 and 24 months, children in low-income households should be the main targets of early interventions aimed at improving children's health and well-being.

Promising Approaches:

- Early Head Start/Head Start
- Educare



Implications (cont'd)

Engage and Support Parents

 Promotion of parent education is suggested, especially around issues of early childhood development for parents of infants and toddlers. Interventions that support parents in their own educational attainment and/or income selfsufficiency are also pertinent.

Improve the Quality of Early Care Settings

- Research indicates that:
 - most infants and toddlers, especially those who are from low-income households, are cared for in home-based settings.
 - high-quality early care and education has the potential to moderate the effects of demographic risk factors for young children.

Promising Approaches:

- Curriculum development and professional development within both home-based and center-based settings that serve infants and toddlers.
- Quality Rating Systems such as Indiana's Paths to QUALITY Indiana Family Impact Seminars November 2009



- A set of quality standards that apply to homebased and center-based child care
- A process of objectively assessing child care quality and maintaining accountability
- A system of training and technical assistance to help child care providers improve quality
- Incentives to encourage providers to reach higher levels of quality
- Public information to inform parents about what PTQ is and how to use it when they make child care decisions

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This presentation is based on a research brief by researchers at Child Trends for Thomas Schultz, Council of Chief State School Officers. Please contact Tamara Halle for more information.

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