# The First 1,000 Days: Vulnerability and Opportunity in Early Child Education

#### **ISPPR: Early Education for At-Risk**

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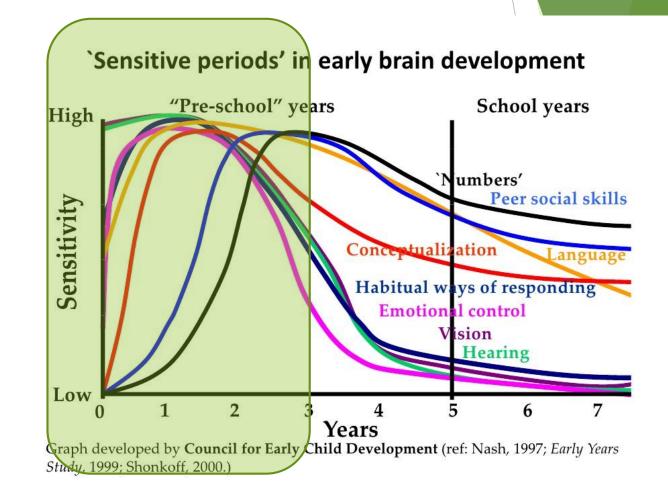
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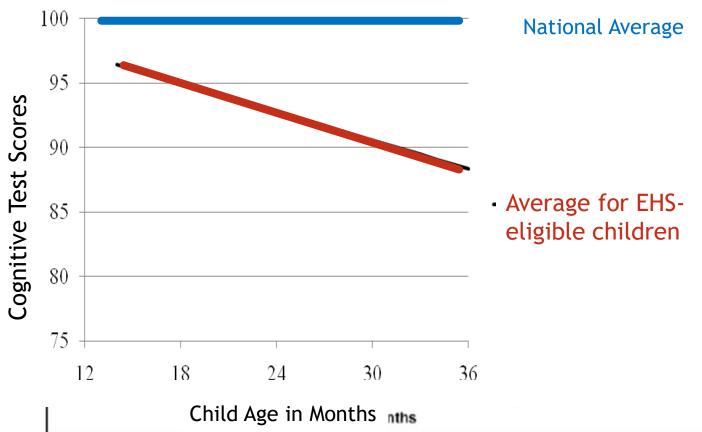
#### **Greatest Opportunity**

- Fastest brain development
- Peak sensitivity for learning:
  - Sensory skills
  - Emotion control
  - Habits
  - Conceptualization
  - Language
  - Peer skills
  - Numbers
- Foundational skills > school readiness > long-term outcomes



#### Greatest Vulnerability

- Trauma and toxic stress
  - 27% maltreatment victims < 3 years</p>
- Disparate learning environments
  - Language environment
  - Home learning environment
  - Family conflict
  - Quality of early care & education
- Economic disparities in:
  - Language skills
  - Social-emotional skills
  - Cognitive skills

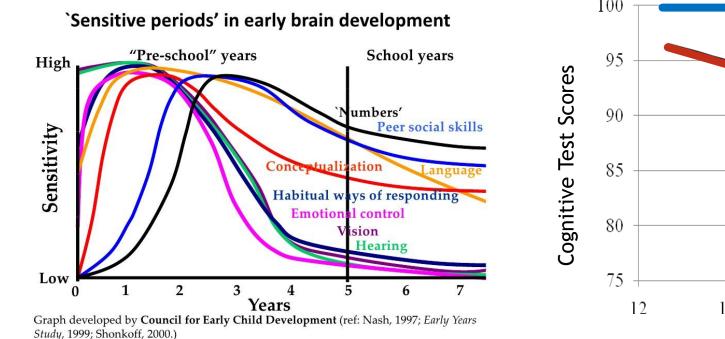


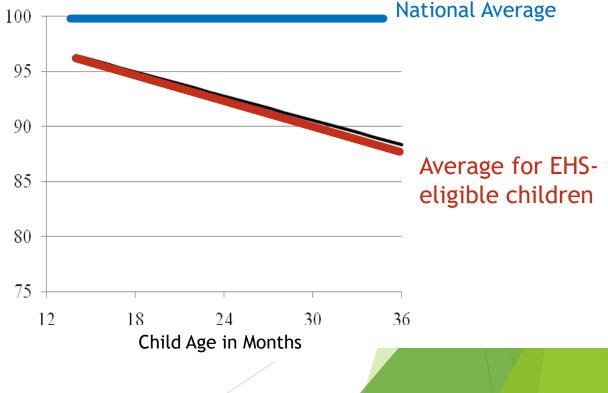
Hart & Risley (1995) via: http://www.babyispeech.com/30-million-word-gap.html

Ayoub et al (2009). Cognitive Skill Performance among Young Children Living in Poverty: Risk, Change, and the Promotive Effects of Early Head Start

**Greatest Opportunity** 

#### Greatest Vulnerability





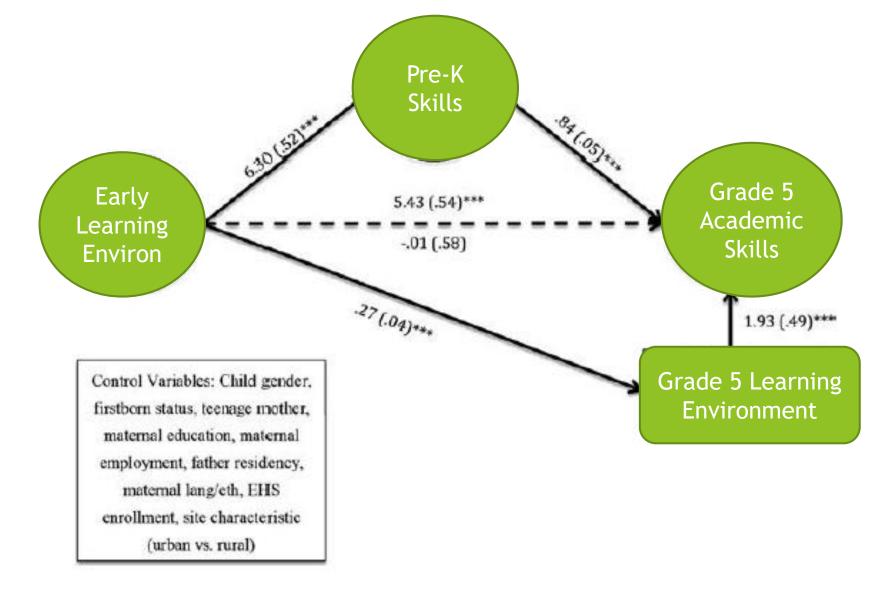
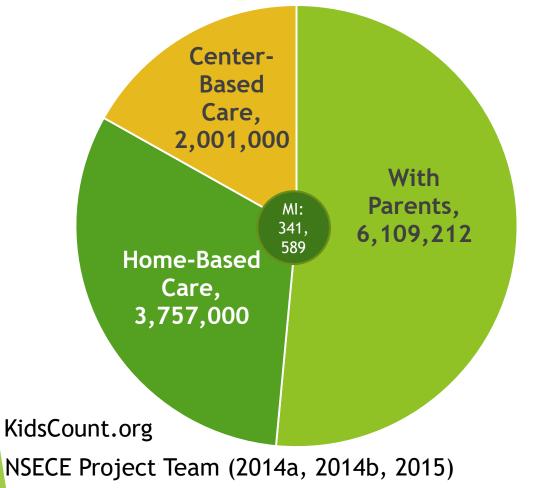


Figure 2. Simplified structural equation model: PreK skills and 5th grade learning environment fully mediated the longitudinal association between early learning environment and 5th grade academic skills. p < .05. p < .01. p < .001. p < .10.

Tamis-LeMonda, C. S., Luo, R., Bandel, E. T., McFadden, K. E., & Vallotton, C. D. (2017 online). The early home learning environment predicts children's 5<sup>th</sup> grade academic skills. *Applied Developmental Science*.

### Greatest Opportunity to Intervene: Early Care & Education Birth to Age 3

US Babies in Child Care & Education 2013



▶ 49% of US babies in ECE

Estimated 167,379 Michigan babies currently in ECE

Each educator works with 4-12 babies/ year

> Ideally reaching families, too

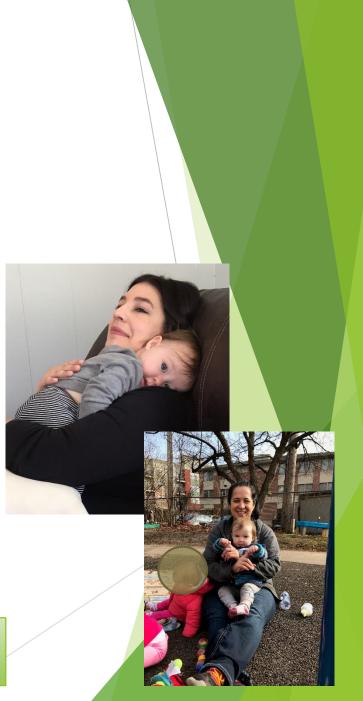
## The Birth to 3 Workforce

Educators support children best when they are...

- Knowledgeable
- Skilled
- Patient
- Intentional
- Responsive
- Joyful

Working with infants & toddlers is....

- Joyful
- Rewarding
- Cognitively Complex
- Emotionally Demanding
- Physically Exhausting
- Stressful
- Undervalued

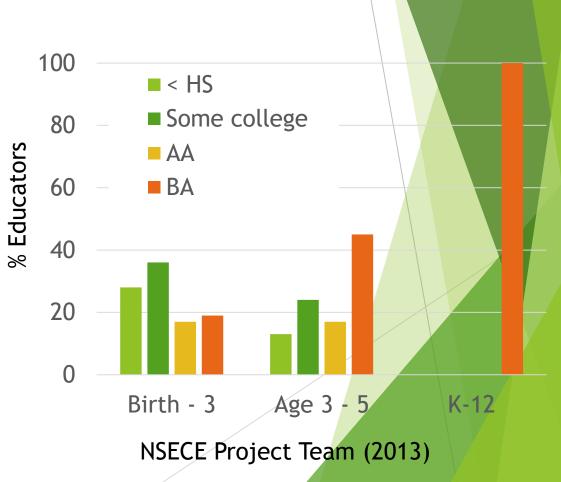


The infant/ toddler workforce performs some of the most challenging and important - and *undervalued* - work in our society.

### Greatest Vulnerability: Under-Supported Birth-Age 3 Workforce

- Low Education
- No professional standards
- Few professional development opportunities
- No system for career development
- High turnover (> 28%)

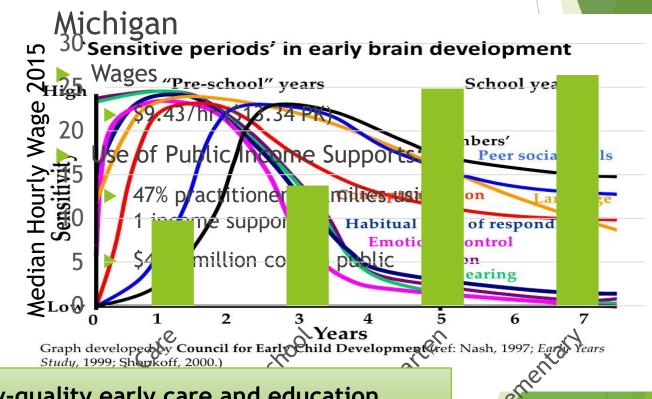




### Greatest Vulnerability: Under-Supported Birth-Age 3 Workforce

#### **United States**

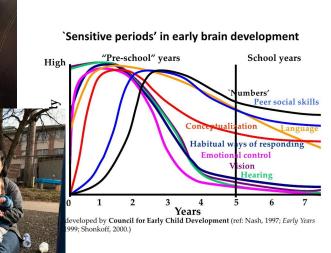
- Wages
  - > \$9.77/hr (\$13.74 PK)
- Use of Public Income Supports:
  - 46% practitioners' families using 2
    1 income supports
  - \$1.5 billion cost to public



We are **paying the price** for low-quality early care and education, rather than **paying the cost** of high-quality care and education.

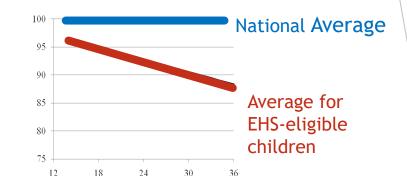
#### **Greatest Opportunity**

Birth - 3 Workforce

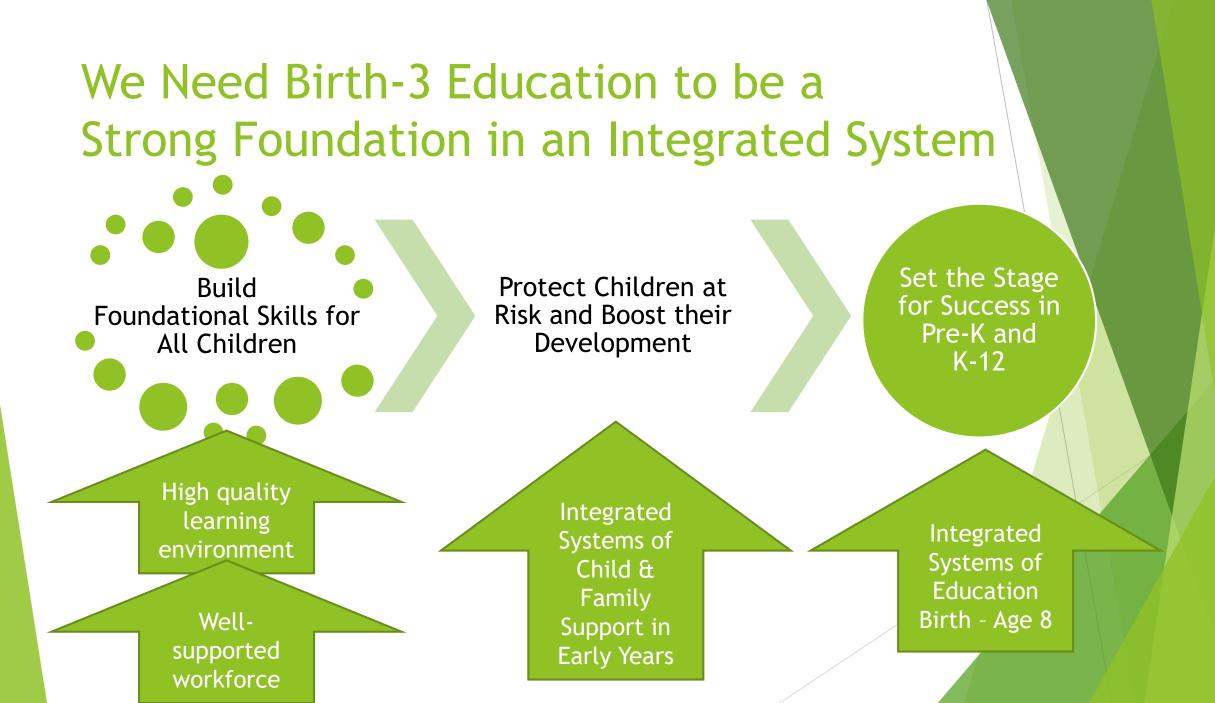


### **Greatest Vulnerability**

Poor supports







#### Michigan Status

### What Can We Do? A lot!

- Michigan leads in initiatives to support babies in family context
  - Infant Mental Health
  - Birth Mandate
  - Trauma-informed care
- Current efforts for Birth-3 Workforce:
  - Infant/toddler Career Pathways Workgroup
  - T.E.A.C.H. fellowships for early child educators in higher education
- Lots more to do!

**Early Childhood Workforce Policies** 

Qualifications	BA for all pre-K teachers?	Yes
	At least CDA or vocational training for licensed providers?	No
QRIS and work environment	Paid time in professional development?	No
	Paid planning and/or preparation time?	No
	Salary schedule/benefits?	Yes
	Same for home providers?	Yes
Compensation strategies	Salary parity for pre-K teachers?	No
	Wage supplement?	No
Financial resources	State reported extra CCDBG spending?	No
	State applied for federal grant?	Yes
	Ratio of pre-K to K-12 spending over 50%?	No
Workforce data	Formal data collection mechanism?	No
	Includes compensation?	No
	Reports data publicly?	No
	Comprehensive?	No

Early Childhood Workforce Index 2016 - MICHIGAN, Center for the Study of Child-Care Employment

### What Can We Do? Families are part of the equation

Michigan Status

- Educator-family partnerships are necessary in Birth -3
- Family-support policies make ECE more affordable

Family & Income Support Policies			
Income supports and child care assistance	Refundable Earned Income Tax Credit?	Yes	
	Higher than federal minimum wage, indexed for inflation?	Yes	
	Child care assistance income eligibility set at 85% of state median income or above?	No	
	Refundable child care tax credit?	No	
Supports for health and well-being	Paid sick days law?	No	
	Paid family leave law?	No	
	Expanded Medicaid eligibility?	Yes	

Early Childhood Workforce Index 2016 - MICHIGAN, Center for the Study of Child-Care Employment

### Infant-Toddler Workforce Policy Resources

- The Heckman Equation: <u>https://heckmanequation.org/</u>
- The Early Childhood Workforce Index: <u>http://cscce.berkeley.edu/early-childhood-workforce-index/</u>
- The Early Childhood Workforce Index 2016 Michigan: <u>http://cscce.berkeley.edu/files/2016/Index-2016-Michigan.pdf</u>
- Infants and Toddlers in the Policy Picture: Self-Assessment Tool-Kit for States: <u>https://www.zerotothree.org/resources/359-infants-and-toddlers-in-the-policy-picture-a-self-assessment-toolkit-for-states</u>
- Building a Strong Infant-Toddler Workforce: <u>file:///C:/Users/vallotto/Downloads/How%20to%20Build%20a%20Strong%20Infant-Toddler%20Workforce.pdf</u>
- Transforming the Workforce for Children Birth Through Age 8: A Unifying Foundation (2015): <u>https://www.nap.edu/catalog/19401/transforming-the-workforce-for-children-birth-through-age-8-a?gclid=EAIaIQobChMIldmX-sud1gIVBAhpCh1jrQGHEAAYASAAEgKII\_D\_BwE</u>

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