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Closing the Achievement Gap Through Parent Education and Quantitative Linguistic Feedback: The Use of LENA Start[™] to Improve the Home Linguistic Environment and Parental Knowledge of Child Development

Introduction

- Young children acquire language and literacy from their caregivers
 - Shared-book reading and other literacy activities (Payne, Whitehurst, & Angell, 1994)
 - Quality and quantity of child-directed speech (Hart & Risley, 1995; Cartmill, et al., 2013)
 - Maternal knowledge of child development (Rowe, 2008; Suskind, et al., 2015)
- Socioeconomic status influences these in many ways
 - Lack of education or resources/access to resources (Hoff, 2013)
 - Different stressors/responses to stress (Bradley & Corwyn, 2002)
- Achievement and Word Gaps
 - Gap between children of low and high SES families when entering school (Duncan & Magnuson, 2013; Carter et al., 2009)
 - Differences in vocabulary, reading ability, etc. (Bleses, et al., 2016; Fernald, Marchman, & Weisleder, 2013; Rodriguez, et al., 2009)
- Interventions to close the achievement gap
 - Shared-book reading or conversational foci (Leffel & Suskind, 2013; Reese, Sparks, & Leyva, 2010)
 - Quantitative linguistic feedback (Suskind, et al., 2015)

Research Questions

1. Can completion of the LENA Start[™] program result in increases in the quantity of words used and conversational turns participants have with their child?

2. How is parents' knowledge of child development related to the number of words and conversational turns with their child, and can the LENA Start[™] program increase their overall knowledge of child development?

3. Does the LENA Start[™] program have a differential impact on higher risk families versus lower risk families, as determined by receiving public assistance?

4. Does the LENA Start[™] program result in greater growth of a child's language ability than is expected over the course of the program as measured by the LENA Snapshot?



