Is Parental Encouragement (As Measured by PICCOLO) During Toddlerhood Correlated with High-Risk Behaviors in 5th Grade? Are these correlations different for first-born children versus children with older siblings?

Introduction

Children need support through healthy, positive relationships with adults, but they also need room to grow, learn, and slowly gain independence. Parents can use encouragement during interactions with their young children to actively "support of exploration, effort, skills, initiative, curiosity, creativity, and play" (Roggman et.al., 2013, scoring sheet). Parental support and encouragement of autonomy leads to better development of self-regulation and brain development, and can even influence executive functioning and parent-child relationships (Bernier et al., 2010). Maternal intrusiveness, or lack of encouragement and autonomy, has negative effects on young children and the relationship between the mother and the child, which predicts a child's level of negativity later in life (Ispa et al., 2004). Highly supportive relationships between both parents and peers during adolescence is correlated with lower levels of internalized and externalized problem behaviors, and the lack of such support is related to increased reports of depressive moods, conflict, and antisocial behavior (Sentse & Laird, 2010).

Purpose

The purpose of this study is to look at the relationship between the level of encouragement at 14, 24, and 36 months of age with high-risk, anti-social, and big behaviors (aggression and anger) in 5th grade, and to determine whether these correlations are different for first born children and children who have older siblings.

Sample

Extant data on a sample of 3,001 low-income families and their infants from the Early Head Start Research and Evaluation Project (EHSREP), a nationwide longitudinal study, were used for this project.

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Characteristic	Percent of Sample
Male	51.0%
Female	49.0%
Child is First-born	62.6%
Child is Later-born (has older siblings)	37.4%
Race	
White	37.2%
Black	34.7%
Hispanic	23.6%
Other	4.6%

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Methods/Measures

Parental Encouragement - 14, The Parenting Interactions with Observations Linked to Outcome 2013), measures the prevalence parenting behaviors across four observation of 10 minute record parents playing together. For the the Encouragement domain wh exploration, effort, skills, initiati play. Each item is scored on a set behavior was not seen at all, or clearly observable multiple time Encouragement domain, an indi- and 14. Seven specific behaviors encouragement domain, namely Wait for the child's response after making a suggestion.	Children: Checklist of es (PICCOLO; Roggman et al., e of 28 different positive domains, through direct dings of children and their e purpose of this study, we use ich measures active support of ive, curiosity, creativity, and cale of 0 to 2, 0 meaning the 2 meaning the behavior was es. For the entire ividual may score between a 0 s are measured within the y;	Statisti CE Br Ra SC Di SC Di SC
Encourage child to handle toys.	Offers suggestions to help child.	
Supports child in doing things on his/her own. Supports child in making choices.	Shows enthusiasm about what the child is doing.	Fir
Child Parent-Report Behavior The Achenbach System of Empi (ASEBA), Child Behavior Checkli Rescorla, 2000), measured pare behaviors. The questions include of aggression, level of activity of and other internal and external	irically-Based Assessment ist (CBCL; Achenbach & ent-report of their child's ed criteria such as child's level or hyperactivity, temperament,	ental Encouragement

behaviors. The questions included criteria such as child's level of aggression, level of activity or hyperactivity, temperament, and other internal and external behaviors and emotional displays. Items were scored on a scale of 1 to 3. 1 meaning `not true', 2 meaning 'sometimes or somewhat true', and 3 meaning 'very or often true'. Measured behaviors include;

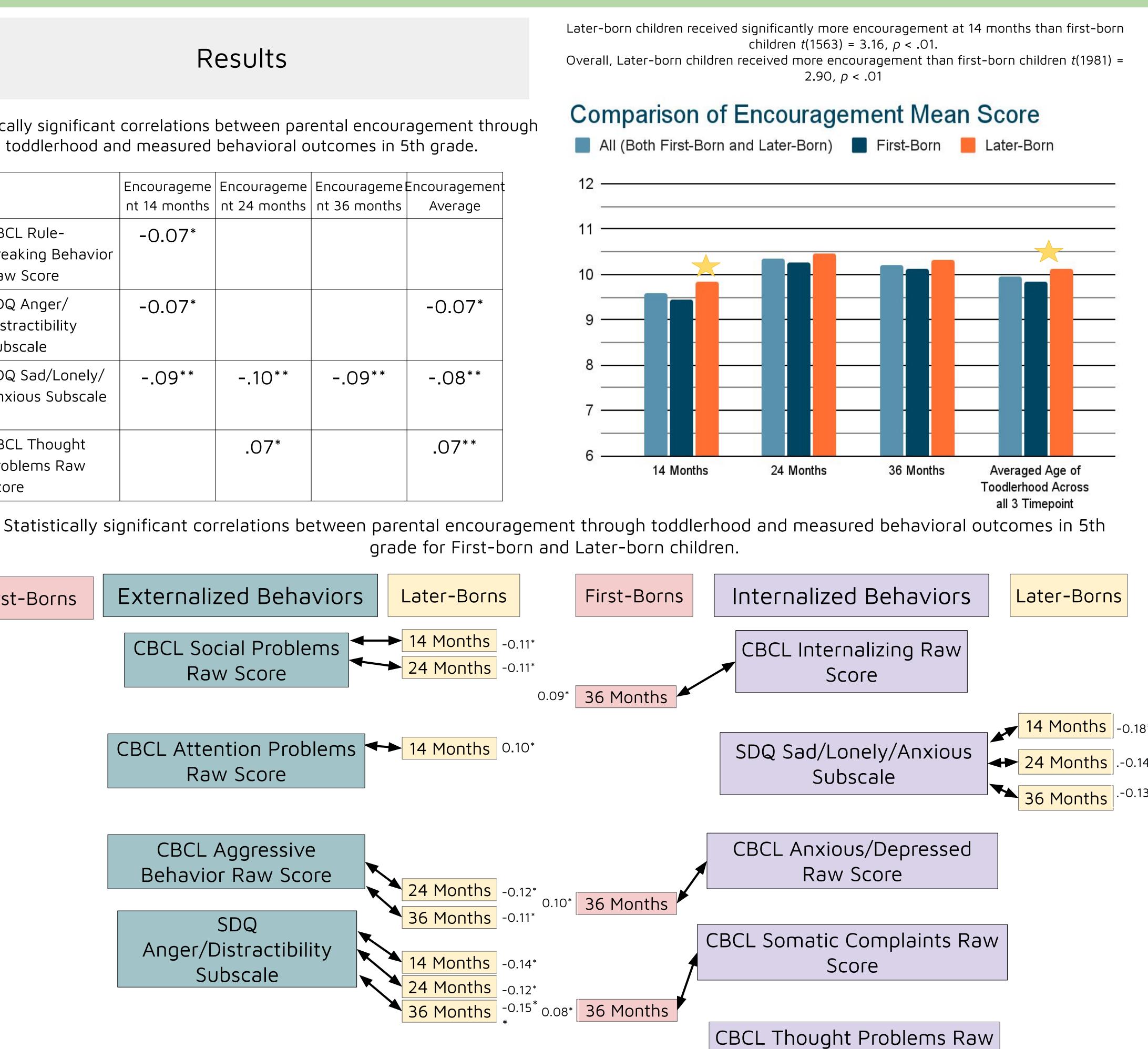
Aggressive behavior	Social problems
Anxious/Depressed behaviors	Somatic Complaints
Attention Problems	Thought Problems
Rule-breaking Behavior	Withdrawn/Depressed Behaviors
Externalizing Behavior (Which includes Rule-breaking behavior and Aggressive behavior)	Internalizing Behavior (Which includes Anxious/Depressed behaviors, Withdrawn/Depressed behaviors, and somatic complaints)

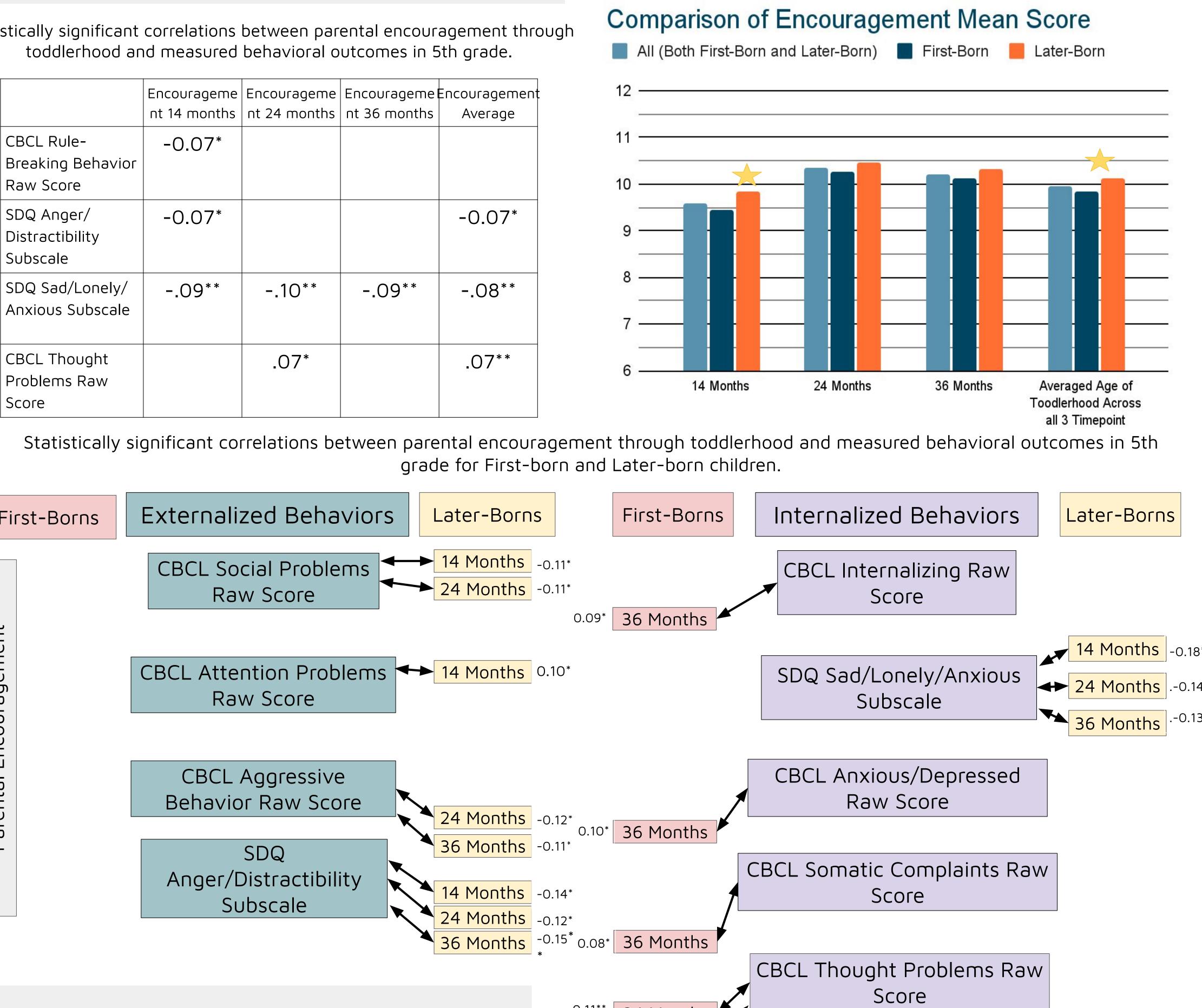
Child Self-Report Behavior - 5th Grade

The Self-Description Questionnaire I (SDQ; Marsh, 1990; Klein, et al., 2016) measured children's self-report of their own perceptions of their behavior, specifically problem behaviors, and their relationship with their parents. The questionnaire included 28 items and each item was scored on a scale of 1 to 4.1 meaning `not at all true', 2 meaning `a little bit true', 3 meaning 'mostly true', and 4 meaning 'very true'. Measured behaviors include;

Anger/Distractibility	Child Reported Relationship with Dad
Sad/Lonely/Anxious	Child Reported Relationship with Mom
Peer Relations	







Conclusion

24 Months 0.08* 36 Mont

• Later-borns: At any time point, an increase in parental encouragement scores was correlated to a decrease in social problems, attention problems, aggressive behavior, anger and distractibility, and sad, lonely, and anxious feelings. • First-borns: At all time points, an increase in internalized behaviors overall (Sad/Ionely/anxious subscale, anxious/depressed subscale, somatic complaints, and thought problems) as well as an increase in anxious and depressed behaviors, somatic complaints, and thought problems as parental encouragement increase. • For all children, regardless of birth order: At 14 months an increased parental encouragement score resulted in a decrease in Rule-Breaking Behavior and Anger/Distractibility. At 24 months, an increase in thought problems. At all time points as well as when averaged across all time points, and a decrease in Sad/Lonely/Anxious scores.

Recognizing these relationships between parental involvement in the early years of a child's life and the later consequences it appears that parental encouragement in the first years of a child's life can influence children's behavior. Later-born children appeared to be influenced internally and externally while first-borns only showed significant correlations internally. These findings support the importance of positive encouragement in early development.



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