## Study Fact Sheet Sleep and Social-Emotional Development in Infants and Toddlers

## **STUDY BACKGROUND & METHODOLOGY:**

Sleep is an integral component of healthy development in early childhood, affecting multiple developmental outcomes; there have already been recorded associations between these, seen in psychological functioning, cognitive performance, and overall developmental status.<sup>1</sup> Over a period of 12 to 18 months, **117 pairs of mothers** with their children (3 to 18 months old) participated in this study. The mothers completed the **Brief Infant Sleep Questionnaire at 6, 12, and 18 months**, as well as the Infant Toddler Social Emotional Assessment at 12 and 18 months.



The aim of this study was to examine the **relationships between variables related to sleep patterns,** and both social-emotional problems including internalizing, externalizing, and dysregulation of emotions, and healthy social development like social competence (a person's ability to get along with other people).

## **RESULTS:**

There are significant relationships between sleep patterns and problem areas in social-emotional development across infancy and toddlerhood.<sup>2</sup>

Later bedtimes and **less total sleep** across the 24 hour period predicted more **frequent occurrences of internalizing issues**, including separation distress, general anxiety, depression/withdrawal, and inhibition.<sup>3</sup>



Later bedtimes, longer sleep onset latency (how long it takes to fall asleep), and less total sleep were associated with **more social-emotional problems**. Sleep fragmentation was minimally associated with decreased social competence, but not with any negative social-emotional problems.<sup>4</sup>

## WHY IS THIS IMPORTANT FOR PARENTS AND HEALTHCARE PROVIDERS?

This study is one of the few that has assessed children 18 months and younger with a focus primarily on:

- Social-emotional development
- Examining problem behaviors
- Examining healthy, competent trajectories

The results of this study indicate that sleep patterns, primarily later bedtimes and less total sleep, seem to be correlated with and predictive of social-emotional wellness in infants and toddlers.



Clinically, these results may suggest that implementing intervention or secondary prevention strategies to support healthy sleep habits in infancy may also affect the developmental trajectory of parent-perceived internalizing problems, such as shyness, inhibition, depression, and separation anxiety.

The findings of this **study contradict the common perception that an "overtired" child is overactive** and noncompliant, but rather the "overtired" toddler will more likely be socially withdrawn and anxious.





This study provides important findings for healthcare professionals and parents by contributing to the **growing literature on the role of sleep** in early social-emotional development, thus improving knowledge of beneficial childrearing practices.

Study Title: Mindell J, Lee C, Goh D, Leichman E, Rotella K (2017). Sleep and Social-Emotional Development in Infants and Toddlers. Journal of Clinical Child & Adolescent Psychology 46:2, 236-246, DOI: 10.1080/15374416.2016.1188701

<sup>1</sup> Boekamp JR, Williamson, L, Martin S, Hunter H, Anders T (2015). Sleep Onset and Night Waking Insomnias in Preschoolers with Psychiatric Disorders. Child Psychiatry & Human Development, 46, 622–631. doi:10.1007/s10578-014-0505-z <sup>2</sup> Mindell J, DuMond C, Sadeh A, Leichman E (2017). Sleep and Social-Emotional Development in Infants and Toddlers. Journal of Clinical Child & Adolescent Psychology, 46:2, 236-246, DOI: 10.1080/15374416.2016.1188701 <sup>3</sup> Ibid <sup>4</sup> Ibid.

