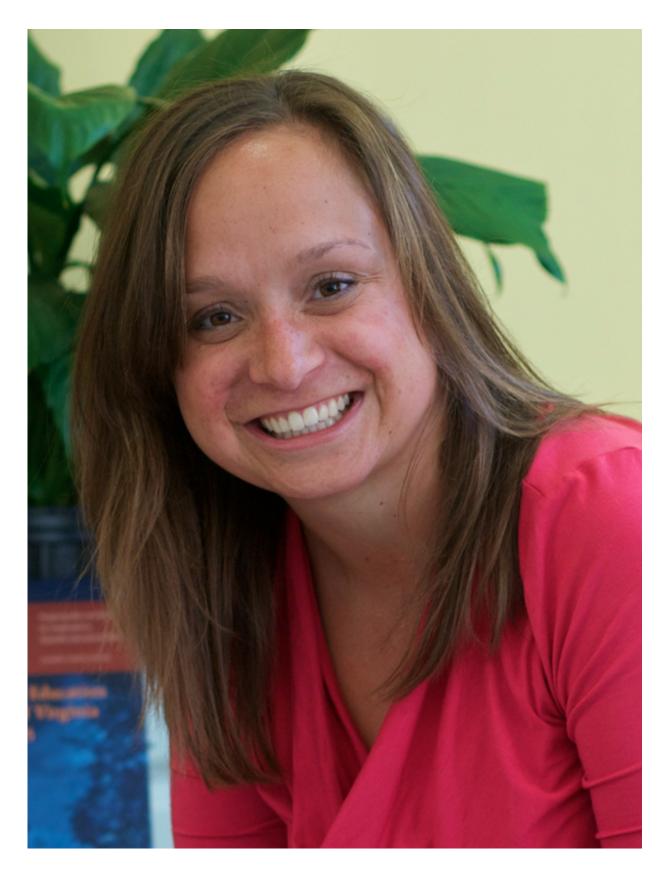


Improving child-teacher interactions can reduce preschoolers' stress levels

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Bridget Hatfield of Oregon State University. Credit: Oregon State University

A school-based intervention that promotes warm and caring interactions between a teacher and child can reduce the child's stress in the classroom, a new study has found.

The intervention was designed for teachers of preschool-aged children and focused on fostering close teacher-<u>child</u> relationships through oneon-one play. Children who participated in the intervention showed reduced levels of the hormone cortisol, an indicator of stress, said Bridget Hatfield, an assistant professor in Oregon State University's College of Public Health and Human Sciences and lead author of the study.

Researchers believe it is the first time a study has examined the relationship between a teacher-child intervention and a child's <u>cortisol</u> <u>levels</u> in an <u>early childhood</u> education setting.

The findings highlight the importance of the relationship between child and teacher, and underscore the value of warm and caring interactions, including one-on-one play time between a child and his or her teacher, Hatfield said.

"The big message here is that positive relationships between teachers and students matter," she said. "What a teacher does in the classroom, the way they behave, their positivity and supportiveness, has an enormous impact on the children and their health."

The findings were published recently in the journal *Prevention Science*. The co-author of the paper is Amanda Williford of the University of Virginia. The research was supported in part by grants from the U.S.



Department of Education's Institute of Education Sciences and the American Psychological Association.

About 61 percent of children under the age of five spend time in formal childcare and education settings such as preschool. Past research has shown that this setting may increase children's stress, which in turn can lead to disruptive classroom behavior.

Children who have frustrating or difficult relationships with their teachers also have shown decreased academic success in kindergarten and their challenging behaviors may increase in intensity as they get older.

"If a child can't develop a healthy stress response system in early childhood, it limits their ability to develop strong school-readiness skills," Hatfield said. "That's why these early teacher-child relationships are so important."

Hatfield and Williford wanted to see if an intervention designed to improve child-teacher interactions could reduce stress levels in children with challenging behaviors.

In all, 70 teachers and 113 children participated in the study. They were divided into three groups: one group was designated as "business as usual" and the children did not participate in any special activities; one group participated in a "child time" intervention; and one group participated in an intervention called "Banking Time."

In the child time intervention, the child and teacher spent time playing one-on-one but the teacher was not given any specific guidance or instructions from a consultant for the play period.

Banking Time is a much more formal intervention, designed to foster



sensitive, responsive interactions between a teacher and a child, creating a relationship the child and teacher can use as a resource during times of challenge in the classroom.

"When you 'bank time' with a child and that relationship, you're building equity," Hatfield said. "Then if a conflict arises, you can make a withdrawal."

To build that relationship, the teachers and children participating in the study had one-on-one play sessions. Consultants directed the teachers in key elements of the program: allowing the child to lead the play sessions, carefully observing and narrating the child's behavior, describing the child's positive and negative emotions, and being available as an emotional resource.

Using saliva samples that were assayed for cortisol, researchers found that <u>children</u> whose teachers participated in the Banking Time intervention showed declines in cortisol levels during the school day compared to those in the business as usual group.

Children in the child time intervention also showed some benefits from the one-on-one time, but they were not as significant. Hatfield said additional research is needed to better understand the effects of the Banking Time intervention and what, in particular, is having the positive impact on the teacher-child relationship.

"Is it one thing, or a combination?" she asked. "We know there is something meaningful about that one-on-one time within Banking Time and we want to know more about how we may be able to incorporate that into classrooms every day."

It may difficult for preschool teachers and early childhood educators to spend 15 minutes a week in one-on-one play with each child in their



class, Hatfield said, but even small, positive, one-on-one interactions could have a valuable impact over time.

"Spending even five minutes, once a week in a one-on-one with a child can help you get to know them, what they think and what they might be interested in," she said. "That investment could pay off during a challenging time later on. It's the quality of the time that matters."

More information: Bridget E. Hatfield et al, Cortisol Patterns for Young Children Displaying Disruptive Behavior: Links to a Teacher-Child, Relationship-Focused Intervention, *Prevention Science* (2016). DOI: 10.1007/s11121-016-0693-9

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