

# Study: Shakespeare play helps children with autism communicate

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Shakespeare takes center stage in a novel intervention for children with autism. A new study from the Nisonger Center at The Ohio State University Wexner Medical Center shows children with autism had improved communication and language skills after 10 weeks of Shakespeare classes. Credit: Big Ten Network

A new study showed improvement in the social and communication skills of children with autism spectrum disorder (ASD) using a signature approach pairing the recitation of Shakespeare's rhythmic language with

physical gesture.

Children with ASD often have trouble understanding non-verbal behavior in social interactions and struggle to communicate. Many avoid [eye contact](#) and miss visual cues, making it difficult to maintain peer relationships and share enjoyment of mutual interests.

Results, published recently in the journal *Research and Practice in Intellectual and Developmental Disabilities*, showed better language skills and recognition of facial expressions in [children](#) with ASD.

"At the end of the study, which incorporated Shakespeare's play *The Tempest*, children with autism showed significant improvement in their social skills and their ability to engage in social relationships," said Marc J. Tassé, professor of psychology and psychiatry and director of the Nisonger Center at The Ohio State University Wexner Medical Center.

Fourteen children with ASD were enrolled for the only systematic implementation of a drama-based social skills intervention known as the "Hunter Heartbeat Method," created by Kelly Hunter, an actress in the Royal Shakespeare Company in London. The novel therapeutic approach was designed to improve social interaction, pragmatic language and facial-emotion recognition skills of individuals with ASD.

"These children are taught these core skills in a very relaxed and playful environment, where it's almost like they're not aware they're being taught," said Tassé, also coauthor of the study.

Each session of the "Hunter Heartbeat Method" begins with the children quietly seated in a circle on the floor making a "Hello Heartbeat" by tapping their hand on their chest. This allows them time to adapt to the environment and signifies transition into the session. Facilitators then lead the children through a series of games based on the plot of *The*

Tempest, which focus on skills such as facial emotion recognition, eye contact, gross motor imitation, affective imitation, pragmatics of dialogue exchange, personal space, turn taking, affective expression, humor, and social improvisation.

Initially, two facilitators model the game in the center of the circle? subsequently, facilitators and children break into twosomes for one to one repeated practice and retroactive feedback of the game. Facilitators and children then return to the circle where they take turns "performing" for the other participants. After a number of games, which ultimately reflect the plot progression of The Tempest, the "Hunter Heartbeat Method" intervention concludes with a "Goodbye Heartbeat."

"You interact with someone, you enjoy yourself and you get that intrinsic reinforcement of socializing children with autism don't always get to experience that," said Maggie Mehling, coauthor and psychology graduate assistant at Ohio State.



A study finds that children with autism developed better communication and language skills after 10 weeks of Shakespeare acting classes. Credit: Big Ten Network

Pretest assessments were conducted to obtain baseline information for each child. The children participated in the intervention one hour per week after school for 10 weeks. At the conclusion of the study period, posttest assessments were completed, and parents and participants completed questionnaires regarding their impression of the intervention.

"It just blows me away every time I see how the kids are able to exceed all expectations with their ability to get engaged," Mehling said.

Provided by Ohio State University Medical Center

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