

Autistic traits, behavioral problems in 7-yearolds linked with gender nonconforming play

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Gender nonconformity in 7-year-olds may be associated with autistic traits and behavioral difficulties in girls, and with peer relationship problems in boys, according to a new study. Credit: cottonbro studio, Pexels, CC0 (https://creativecommons.org/publicdomain/zero/1.0/)

Gender nonconformity in 7-year-olds-as measured by levels of gender-



conforming play—may be associated with autistic traits and behavioral difficulties in girls, and with peer relationship problems in boys, according to a new study published August 28, 2024 in the open-access journal *PLOS ONE* by Marlene Stratmann of Karlstad University, Sweden, and colleagues.

Gender nonconformity (GNC) refers to variations in <u>gender expression</u> from societal and cultural gender norms. In childhood, GNC can manifest itself in several ways, including play behavior, <u>peer</u> <u>relationships</u>, clothing, and body language. Childhood GNC does not directly indicate developing <u>gender dysphoria</u> (GD) later in life, although the phenomena are linked.

Recently, studies have begun to establish a high co-occurrence of GNC, GD and autism spectrum disorder. However, most of this work has been carried out in clinical populations with existing diagnoses, which may lead to an overestimation of the associations between GNC and <u>autistic</u> traits and behavioral difficulties in a non-clinical population.

In the new study, researchers analyzed data on 718 children enrolled in the Swedish Environmental Longitudinal, Mother and Child, Asthma and Allergy (SELMA) study for which there were data on play behavior and behavioral outcomes. GNC play behavior was determined using the Preschool Activities Inventory, which includes 12 "feminine" and 12 "masculine" toys, play activities and child characteristics.

In both sexes, higher levels of gender nonconforming play was associated with increased behavioral difficulties. Higher masculine play behavior scores were associated with hyperactivity and inattention in both sexes.

Higher feminine play scores in boys were associated with peer relationship problems, while higher masculine play scores in girls were



associated with increased likelihood of autistic traits and behavioral difficulties.

The study involves a sample of children of only one age in a single country, and cannot be used to draw any conclusions as to causation. However, the authors conclude that gender nonconformity may be associated with behavioral challenges and difficulties in both sexes, even in children without any diagnoses.

The authors add, "The results showed that children who played more with toys traditionally considered for the opposite gender had more autistic traits and <u>behavioral problems</u>. At the same time, it is very important to keep in mind that just because a girl decides to play rougher or a boy plays with dolls, it does not mean that there will be a link to behavioral difficulties or autistic traits in this child."

More information: Gender-specific play behavior in relation to autistic traits and behavioral difficulties at the age of seven in the SELMA study, *PLoS ONE* (2024). DOI: 10.1371/journal.pone.0308605

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