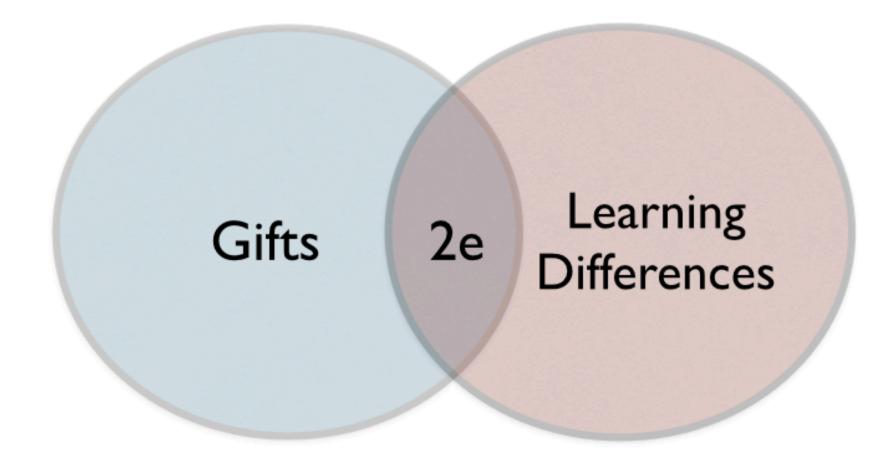


Understanding Twice Exceptional Children through a Social Lens: A Preliminary Case Study

Introduction

Background

Children with autism spectrum disorders (ASD), attention-deficit/hyperactivity **Child A:** 10-year-old male diagnosed with ADHD disorder (ADHD), specific learning disability (SLD), and co-morbid anxiety, have been shown to have difficulty with social functioning (Caillies et al., 2014; Verduin & **Child B**: 9-year-old male diagnosed with ADHD, social pragmatic communication Kendall, 2008). Research indicates that social functioning is positively correlated with disorder, SLD with an impairment in spelling and reading decoding, fluency, and social cognition, suggesting that difficulty with social functioning is related to social comprehension cognitive impairment (Bishop-Fitzpatrick et al., 2017). Social cognition refers to the cognitive abilities needed to process and interpret social-emotional information in Procedure oneself and in others (Penn et al., 1997). Children who are gifted and have a diagnosis or disability are considered to be twice exceptional. These gifted children Participants completed two social cognition tasks: a novel picture sequencing task and the child version of the RMET. The picture sequencing task is comprised of six also have the same impairments as children with disorders who are not gifted (Foley-Nicpon & Assouline, 2015). Therefore, twice-exceptional children who have total sequences, three of which are paired where one excludes social information diagnoses that often display social functioning difficulties may have impaired social and the other includes social information. The picture sequences are also created cognition. The presentation of twice-exceptional children is heterogenous; strengths to assess three different types of understanding: mechanical, behavioral and may mask disabilities and disabilities may mask strengths (Reis et al., 2014). There is intentional. There are two sets of the sequencing task (Set A and Set B). little research available for this twice exceptional population.



Baron-Cohen and Frith's (1986) study examined social cognition through a picture sequencing task. Within this study, there was a focus of completion and narration of three different types of understanding: mechanical, behavioral, and intentional. They found that children with ASD performed better on sequences with mechanical understanding, but experience a deficit in understanding the intentional states of others, which is indicative of social skill deficits (Baron-Cohen & Frith, 1986).

Aims

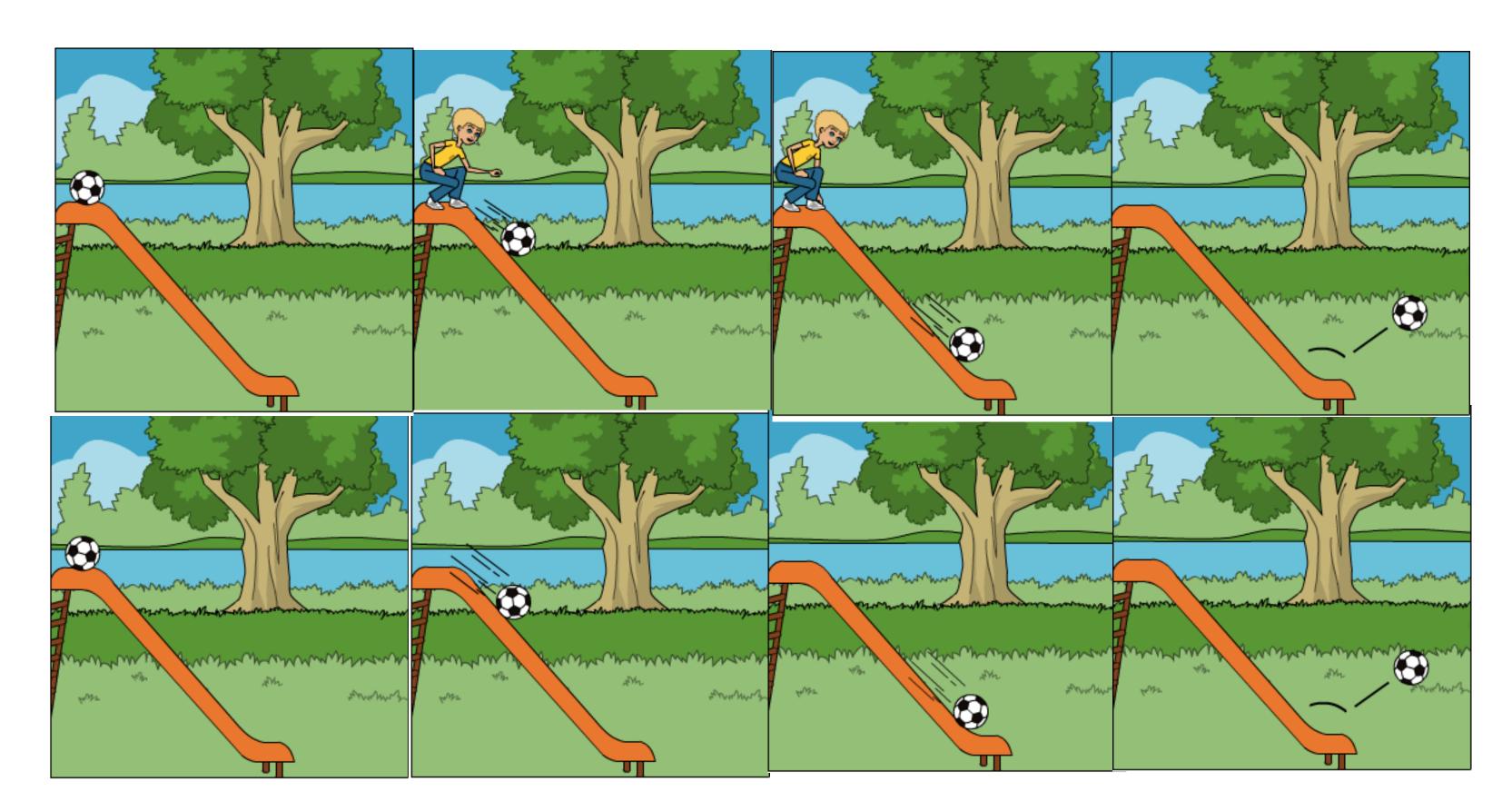
The focus of this preliminary presentation is a case study of two school-age twice exceptional students. As literature suggests, children with ASD, ADHD, and SLD may all experience social cognitive deficits. Performance on two tasks aimed to examine social cognition are highlighted. Participants completed a novel picture sequencing task based on Baron-Cohen & Frith's (1986) study and the child version of the "Reading the Mind in the Eyes" Test (RMET).

Hypotheses

- Expected performance on the picture sequencing task is incorrect placement of sequences that include social information, and correct placement on sequences that are non-social for the behavioral and intentional pairs and correct placement on the mechanical sequences.
- For the Eyes Test, scoring 9 or more is considered to be above chance. The original study of the child version of the RMET showed that males with ASD answered correctly on an average of 12 out of 28 times and typically developing males between 8-10 years old answered correctly 18 out of 28 times (Baron-Cohen et al., 2001). In respect to the present study, since children with ADHD, SLD, and comorbid anxiety are also shown to have impairments in social functioning, it is thought that this will impact responses on the RMET.

Methods

Participants



Example of mechanical picture sequence, social and non-social sequences

- One parent and teacher of each child were asked to complete two online measures (Child Behavior Checklist and Autism Treatment Evaluation)
- The RMET includes 28 pictures of Eyes with four emotion words placed randomly around the image.
- Order of the tasks were randomly assigned, set of sequencing task was randomly assigned, and picture order was randomized.

Results

Child A

Picture sequencing task: Correct completion on all three sequences Eyes Test: 15/28 correct

Child B

Picture sequencing task: Correct completion on all three sequences Eyes Test: 20/28 correct

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- sequencing task
- exceptional profile

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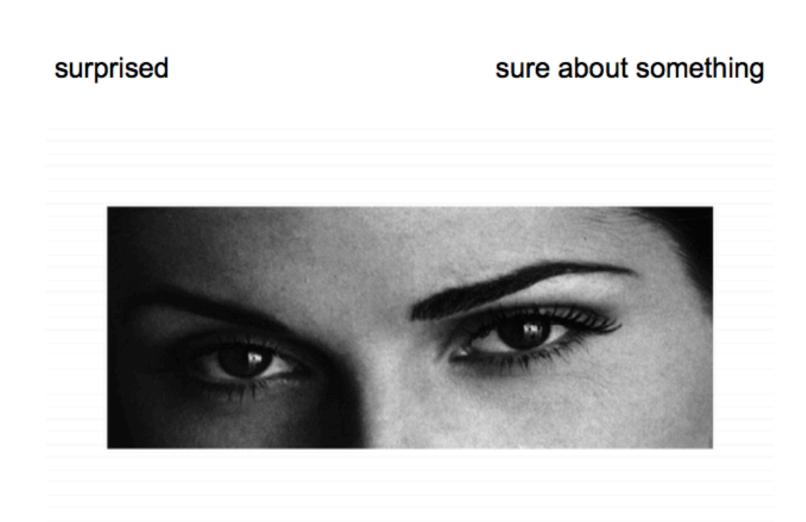


Discussion

• No evidence for social cognitive deficits based on performance on the picture

• Results could possibly be attributed to simplicity of novel task or twice-

On the Eyes Test, both Child A and B responded correctly on more items than the average of the original ASD group. Child A responded incorrectly more frequently compared to the average of the original TD group. Child B responded correctly more than the average of the TD group.



joking

happy

Example of RMET item

Limitations

Preliminary case study, only two participants are examined Both participants are twice-exceptional with a diagnosis of ADHD, helpful to examine individual differences with others with other diagnoses

Future Directions

Run the study with a TD group and compare findings This study has possible implications for furthering the understanding of how twice-exceptional gifts and disabilities present

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