UC Davis

Psychiatry and Behavioral Sciences

Title

The Uses of the BOT-2 for Children with Autism Spectrum Disorder

Permalink

https://escholarship.org/uc/item/14z0d1bv

Authors

Booker, Michaela Acosta, Axie

Publication Date

2021

Data Availability

The data associated with this publication are not available for this reason: N/A

Second Edition (BOT-2) SHORT AND LONG FORMS

Main Finding: The BOT-2 is a valid and reliable tool to measure motor function in children with ASD for initial diagnostic evaluation and for therapeutic interventions.

The Bruininks-Oseretsky Test of Motor Proficiency,

IS THIS USEFUL FOR EVALUATING CHILDREN WITH **AUTISM SPECTRUM DISORDER?**



The Uses of the BOT-2 for Children with **Autism Spectrum Disorder**

Michaela Booker, MS2 and Axie Acosta

University of California, Davis, School of Medicine

INTRODUCTION

- and unusual sensory sensitivity
- before social and communicative deficits
- timely evaluation in ASD.
- coordination, and strength and agility.

RESULTS

- 2 in children with ASD
- motor function
- therapeutic interventions and treatment

DISCUSSION

- clinical context and on an individual basis

Limitations

• Autism Spectrum Disorder (ASD) is a common diagnosis in children and is characterized as a neurodevelopmental disorder defined by core deficits of social communication, the presence of restricted and repetitive behaviors,

• Motor impairments are not a core feature of ASD but are often present and can serve as early markers in the evolution of symptoms as they often appear

• Valid and reliable motor assessment tools are necessary for accurate and

• The BOT-2 is a questionnaire-based motor assessment that analyzes 4 different areas of movement: fine motor control, manual coordination, body

• The BOT-2 has a Complete Form and an abbreviated Short Form

• AIM: To explore the best uses of BOT-2 in children with ASD

• The BOT-2 was found to be reliable and valid for use in typically developing children from the ages of 4-21 but research is limited on the accuracy of BOT-

• BOT-2 is commonly used in children with ASD during initial evaluation of

• BOT-2 is also often used as a pre and post-test motor evaluation tool during

• The Short Form is commonly used for children who may struggle with the length of the Complete Form due to testing fatigue or shorter attention spans

• BOT-2 is appropriate for use in children with ASD but must be evaluated within a

• A total composite score within the normal range cannot rule out abnormal motor function within specific sub-tests for fine or gross motor

• Although BOT-2 provides a global understanding of motor function, it should not be used solely to determine medical intervention or primary diagnosis

• A handful of studies demonstrated a ceiling effect, • BOT-2 may be confounded by intellectual disabilities