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, and unusual sensory sensitivity.

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 before social and communicative deficits.

Valid and reliable motor assessment tools are necessary for accurate and timely evaluation in ASD.

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

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.

INTRODUCTION

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-2 in children with ASD.

BOT-2 is commonly used in children with ASD during initial evaluation of motor function.

BOT-2 is also often used as a pre and post-test motor evaluation tool during therapeutic interventions and treatment.

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.

DISCUSSION

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

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.

Limitations

BOT-2 is appropriate for use in children with ASD but must be evaluated within a clinical context and on an individual basis.

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.

The Bruininks-Oseretsky Test of Motor Proficiency, Second Edition (BOT-2)
SHORT AND LONG FORMS

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

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IS THIS USEFUL FOR EVALUATING CHILDREN WITH AUTISM SPECTRUM DISORDER?

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