



Cohort Study

Validity and reliability of the movement assessment battery second edition test in children with and without motor impairment: A prospective cohort study

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ABSTRACT

Background: Examining the reliability and validity of the second edition movement assessment battery test (MABC-2) in children with and without motor impairment.

Materials and methods: In this prospective cohort study, the MABC-2 test and developmental coordination disorder questionnaire (DCDQ) were completed by children and their parents. By using 95% confidence intervals, minimal detectable change (MDC95) was calculated, and concurrent validity was investigated. By applying the MABC-2 test as a reference standard (cut-off fifth percentile), sensitivity and specificity were examined. **Results:** 273 children (mean age: 6.3 ± 2.3 years; 70% male) with and without motor impairment completed the investigation. For test-retest reliability, intra-class correlation coefficients (ICC0) was >0.89 for the MABC-2 test. The MDCC95 value for the motor skill test was 5.76. There was a significant correlation between the MABC-2 test and DCDQ (r = 0.40, $P < 0.001$) and the Go/No-Go test (r = 0.50, $P < 0.001$). Overall, the sensitivity was very high (90%), the specificity was low (46%), and positive and negative predictive values were high (66% and 81%, respectively).

Conclusion: The MABC-2 test can be considered a valid and reliable motor skill assessment tool for children with and without motor impairment.

1. Introduction

A developmental coordination disorder (DCD) is a distinct motor disorder determined by marked impairment in age-associated motor coordination and learning [1]. Children with DCD have poor physical and cognition function [2], daily living tasks [3], affecting out-of-school activities [4], and social interactions [5]. Motor control difficulties, attention deficit, speech/articulation difficulties, and non-verbal learning disabilities are all commonplace in children with DCD [6]. They are at higher risk of developing secondary deficits including

reduced strength, lack of fitness, and low self-esteem have been reported previously [6–8]. Without any treatment or intervention, these disabilities may continue and worsen in adulthood [6].

To identify effective treatment options, the development of valid and reliable tools is required. Movement deficiency in children with and without DCD has been previously detected through the movement assessment battery for children (MABC). This battery has been validated in several countries [9–13]. The MABC-2 test is an updated version of MABC [14] which includes a lower age inclusion and the scoring system has been updated [15]. Several studies have demonstrated the reliability

Abbreviations: DCD, Developmental coordination disorder; ICC0, Intra-class correlation coefficients; MDCC, Minimal detectable change; MABC, Movement assessment battery for children; SEM, Standard error mean; TTS, Total test score.

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The Battery Second Edition

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The Handbook of Lithium-Ion Battery Pack Design John T. Warner, 2024-05-14

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Handbook of

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Federal Register ,2013-08 [Assessment of Autism Spectrum Disorder](#)

Anna P. Kroncke,Marcy Willard,Helena Huckabee,2016-02-09 This book offers clear best practice guidelines for the assessment of Autism Spectrum Disorder It discusses both the rising rates of autism and the growing need for appropriate effective treatments and services The book examines measures and methods used in assessing for core symptoms of ASD as well as memory attention visual and spatial skills and other areas relevant to autism assessment In depth material on differential diagnosis and a range of comorbid conditions depict the complexities of the assessment process and the necessity of accurate identification The book s case vignettes and sample recommendations add practical and personal dimensions to issues and challenges surrounding diagnosis Topics featured include ul A practical guide to the comprehensive assessment process Discussion of the assessment process from referral to recommendation Diagnostic framework for ASD and other disorders School based ASD eligibility evaluation Assessment across the lifespan divAssessment of Autism Spectrum Disorder is an important tool for clinicians practitioners researchers and graduate students in the fields of child and school psychology behavioral therapy and social work as well as the related areas of psychiatry pediatrics forensic psychology and educational and healthcare policy

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Engineering Weekly, 1905 **The Chemical News : and Journal of Physical Science**, 1909 **Engineering**, 1880
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