



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 2007 (DCDQ/07) 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 centile), 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 (ICCs) was >0.89 for the MABC-2 test. The MDC95 value for the motor skill test was 5.76. There was a significant correlation between the MABC-2 test and DCDQ/07 ($r = 0.60$, $P < 0.001$) 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 (69% and 82%, 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 [9–12]. The MABC-2 test is an updated version of MABC [14] which includes a lower age inclusion and the scoring system has been updated [6]. Several studies have demonstrated the reliability

Abbreviations: DCD, Developmental coordination disorder; ICCs, Intra-class correlation coefficients; MDC, 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

Christian Drosten



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The Handbook of Lithium-Ion Battery Pack Design John T. Warner, 2024-05-14 The Handbook of Lithium Ion Battery Pack Design Chemistry Components Types and Terminology Second Edition provides a clear and concise explanation of EV and Li ion batteries for readers that are new to the field The second edition expands and updates all topics covered in the original book adding more details to all existing chapters and including major updates to align with all of the rapid changes the industry has experienced over the past few years This handbook offers a layman s explanation of the history of vehicle electrification and battery technology describing the various terminology and acronyms and explaining how to do simple calculations that can be used in determining basic battery sizing capacity voltage and energy By the end of this book the reader will have a solid understanding of the terminology around Li ion batteries and be able to undertake simple battery calculations The book is immensely useful to beginning and experienced engineers alike who are moving into the battery field Li ion batteries are one of the most unique systems in automobiles today in that they combine multiple engineering disciplines yet most engineering programs focus on only a single engineering field This book provides the reader with a reference to the history terminology and design criteria needed to understand the Li ion battery and to successfully lay out a new battery concept Whether you are an electrical engineer a mechanical engineer or a chemist this book will help you better appreciate the inter relationships between the various battery engineering fields that are required to understand the battery as an Energy Storage System It gives great insights for readers ranging from engineers to sales marketing management leadership investors and government officials Adds a brief history of battery technology and its evolution to current technologies Expands and updates the chemistry to include the latest types Discusses thermal runaway and cascading failure mitigation technologies Expands and updates the descriptions of the battery module and pack components and systems Adds description of the manufacturing processes for cells modules and packs Introduces and discusses new topics such as battery as a service cell to pack and cell to chassis designs and wireless BMS

Handbook of

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with other parts in a portable device under a wide variety of conditions This knowledge can be used to improve the design of a BMS even before a prototype of the portable device has been built The battery is the central part of a BMS and good simulation models that can be used to improve the BMS design were previously unavailable Therefore a large part of the book is devoted to the construction of simulation models for rechargeable batteries With the aid of several illustrations it is shown that design improvements can indeed be realized with the presented battery models Examples include an improved charging algorithm that was elaborated in simulations and verified in practice and a new SoC indication system that was developed showing promising results The contents of Battery Management Systems Design by Modelling is based on years of research performed at the Philips Research Laboratories The combination of basic and detailed descriptions of battery behaviour both in chemical and electrical terms makes this book truly multidisciplinary It can therefore be read both by people with an electro chemical and an electrical engineering background

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