



Gross motor Development of Infants using home-Video registration with the Alberta infant motor scale

Validation of test results on the Alberta Infant Motor Scale (AIMS) based on a video made by parents of the gross motor abilities of infants

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INTRODUCTION

Assessing motor development determined by a one-time observation involves a risk of under- or overestimation of any developmental disorder. ¹⁻⁴ Therefore, regular observation in time is needed to define the motor developmental profile of an infant with more accuracy. Frequent visits to an outpatient clinic could be burdensome for parents or infants. Assessing gross motor development based on a video made by the parents could be an addition to the regular methods.

This fits today's society in which digital facilities are available and used more and more.

OBJECTIVE

To determine the validity in test results on the Alberta Infant Motor Scale (AIMS) ⁵ conducted by a homemade video created by parents, compared to observation of the pediatric physical therapist on site.

METHOD

Design

Validation study comparing a new method to the regular method by two blinded testers. Fourteen trained testers from different physical therapy settings are participating in this study.

Observation 1 > Live assessment of the AIMS (while parents are making video recordings of their infant)
Observation 2 > Video assessment of the AIMS (based on the video recordings made by the parents).

To standardize homemade videos, parents are guided by tutorial material adjusted to the expected motor abilities of their infant.

Participants

N = 60 Age from 2 weeks to 19 months

Including: All families interested in participating in the study
Parents may have a question/concern about the motor development of their infant
Parents have good understanding of the Dutch language
Both parents give informed consent

Excluding: Infants with atypical motor development
Parents with a professional background as a physical therapist

Measuring instrument

Alberta Infant Motor Scale (AIMS) ⁵

Data analyses:

The Intraclass correlation coefficient (ICC) and the Standard Error of the Measurement (SEM) of total raw scores will be used to define the equivalence of the two methods.

PRELIMINARY RESULTS

N = 13 (♂6, ♀7; mean age 34,6 wks [SD 19,6], range 8 wks – 18 mo)

ICC = 0,99

SEM = 0,81

DISCUSSION

These findings are based on a limited number of measurements and may therefore differ from the final results.



Zoom in (Ctrl+Plus)

GODIVA-studie

Wilt u het motorische ontwikkelingsniveau van uw kind weten?
Wij doen onderzoek naar de motoriek van kinderen tussen de 0 en 18 maanden via home-video.

Wilt u meedoen?
Kijk voor meer informatie en aanmelding op www.godiva.hu.nl

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