



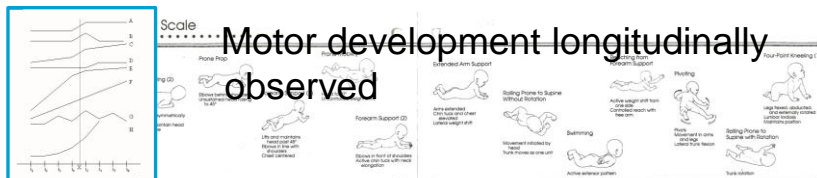
Equivalence of the AIMS using a home video made by parents and live observation by a pediatric physical therapist, a validation study

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Alberta Infant Motor Scale 0-19 months



Application of home video recordings

Purpose: Concurrent validity of the AIMS using a home video made by parents and simultaneous observation on site by a PPT

Methods



Tutorial video and checklist for parents



12 trained testers

Simultaneous live observation
and video recording



Questionnaire on experiences of parents (100%)
10 semi-structured interviews



Results (1)



Infants	5-78 wks	0-22 wks	23-37 wks	>37 wks
N included	52	17	14	21
N excluded (procedural faults)	4	1	2	1
Analysed	48	16	12	20

Mean difference AIMS _{video-live}: 0.46 item ($\pm 1,978$)

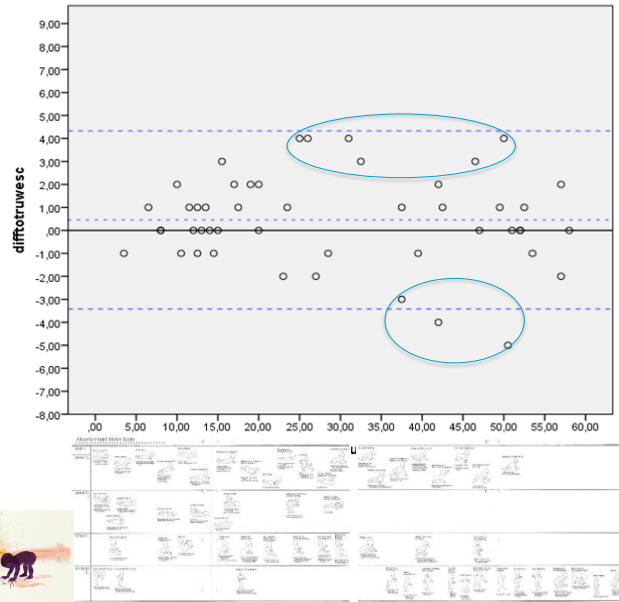
Intraclass Correlation Coefficient _{agreement}: .99

Standard Error of Measurement (SEM) : 1.41 item

Smallest Detectable Change (SDC): 3.88 item



Results (2)



Results (3)



Parents: 75% higher education

- 94% recording their infants movement repertoire was easy.
- 92% enjoyed and felt safe about it

All: being able to choose their own time and staying at home for the assessment was reported as being comfortable

Providing feedback on development was the main reason to participate



Conclusion & Discussion

Key Message



AIMS_{video} was fairly comparable to AIMS-live.

- Heterogeneous group → generalizability ↑
- Differences between the two methods could also be allocated to moderate reliability caused by the involvement of a large number of testers
- Is AIMS-live gold standard?

AIMS_{video} is a promising application to be used in longitudinal research, follow-up clinics and teleconsultation.

- Pro's* Independent of time and distance.
Objective evidence, which could be retested.
- Con's* Depending on the understanding of parents about what to film (Tutorial)
Need of technical support with a user-friendly interface for parents (IT)



Thanks to



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Consortium GODIVA: Gross mOtor Development of Infants using home-Video registration with the AIMS

Testers

Parents and infants



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