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University of Education Pädagogische Hochschule karlsruhe

Re-Validation of the MoMo-test profile (Test-Retest-Reliability)

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Background

- Monitoring motor performance (MP) during childhood and adolescence is crucial because MP is a key indicator of health (1-2). Consequently, the assessment of MP is integrated into various health monitoring programs.
- Since 2003, the MoMo study has been monitoring MP, body composition, and physical activity among children and adolescents in Germany (3), regularly reporting population-based trends (4).
- The data are assessed by means of the 'MoMo test profile' (5), which was validated before the baseline measurement began (6). Since 2022, the study has continued as the 'MoMo 2.0 study'. Due to technological advancements and new scientific insights, the 'MoMo test profile' has undergone scrutiny, updating, and revalidation.
- Aim of this work: introduce the revised test items and present their reliability

Methods

- ten test items from previous measurement waves were retained and <u>one new item was introduced</u>
- validation sample (n=105, 4-17 yrs, no^{*}=55, ^Q=50).
- reliability determined with the test-retest method (7)
- 2 measurements with intervals ranging from 14-19 days
- Statistically, reliability was analysed by combining correlations and comparing mean values in order to analyse learning effects (7)



Results

- very good or good test-retest reliability for all test items (r ranging from .765-.959)
- very good retest reliability (r≥.7 and no difference of the mean values) for 8 tests, good test-retest reliability (r≥.7 and difference of the means) for 'reaction time', 'jumping sideways', 'push-ups'
- newly added 'handgrip' test shows a very high test-retest reliability (r=.951 and no difference).

Conclusions

 The updated version of the 'MoMo test profile' is reliable for evaluating the motor performance of children and adolescents.





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