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Correlations of Motor Abilities and Physical Self-Concept in Primary School Children



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In this study, the relationship between motor abilities and physical self-concept in 32 primary school children (14 boys, 18 girls, average age 8.66 years) before and after five-week twice-weekly psychomotor exercise sessions is examined. German Motor Skills Test for Children and Adolescents from 6 to 18 years DMT 6-18 (Bös et al., 2009) and Questionnaire for the Measurement of Physical Self-Concept in Childhood PSK-K (Dreiskämper et al., 2015) are used. The control class receives no treatment. Means and standard deviations and Pearson correlations of Z-scores of the DMT 6-18 and the raw scores of the PSK-K. z according to Eid et al. (2011, p. 547f) for differences between the correlations. SPSS version 29. significance level p<.05. Results: Experimental class pretest: strength ($r=.61^{**}$) and speed ($r=.58^{*}$) significant, posttest: all except coordination (r=.46), highest for flexibility ($r=.78^{***}$) and speed ($r=.74^{***}$). Control class pretest: Flexibility significant ($r=.68^{**}$), posttest: Flexibility ($r=.63^{*}$), speed ($r=.65^{**}$), endurance ($r=.56^{*}$) and overall ($r=.52^{*}$). Significant group differences in pretest for strength. Discussion: The correlations between motor abilities and physical self-concept are higher than expected (Dreiskämper et al., 2015). This could not only be due to the intervention, but also to a test effect (the test phases were only seven weeks apart). The control class may therefore also have been able to assess themselves better. Conclusion: After five weeks of psychomotor exercise sessions twice a week, the children were able to assess themselves better. The study should be repeated with more children over 12 weeks to eliminate the test effect.

References

- 1. Bös, K., Schlenker, L., Büsch, D. et al. (2009). Deutscher Motorik-Test 6-18 (DMT 6-18). Hamburg: Czwalina.
- Dreiskämper, D., Tietjens, M., Honemann, S., et al. (2015). PSK-Kinder Ein Fragebogen zur Erfassung des physischen Selbstkonzepts von Kindern im Grundschulalter. Zeitschrift für Sportpsychologie, (3), 97-111. https:// doi.org/10.1026/1612-5010/a000141.
- 3. Eid, M., Gollwitzer, M., & Schmitt, M. (2011). Statistik und Forschungsmethoden Lehrbuch. Weinheim: Beltz.

Biography:

Dr Andrea Dincher is a sports scientist and lecturer for special tasks at Saarland University and the RPTU Kaiserslautern-Landau. Her research focuses on children's motor development, test development and exercise therapy. She is honorary President of the German Association of Sports Teachers in Saarland and has been a trainer in sports clubs for children's gymnastics, apparatus gymnastics, long-distance running, senior citizens, obesity, cardiac and orthopaedic rehabilitation for over 25 years.