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Nexus between manifest motor indicators and fluid intelligence in prepubertal boys

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Abstract

The purpose of this study was to investigate the correlation between manifest motor indicators and the fluid intelligence of boys. The sample comprised 550 boys aged 10 to 14. A battery of 26 tests was used for measuring motor performance. Intelligence testing was implemented with the test TN-20. A multiple regression analysis indicated that association between motor variables and fluid intelligence exists. The closest connection was the one between fluid intelligence and motor tasks which demand the coordination of movement in rhythm and the speed of movement. The associations between motor performance and fluid intelligence were age dependent: in 12 year old boys the connection between motor variables and fluid intelligence is the highest, followed by 14 year old boys, where it is a little lower; the connection is the lowest in 10 year old boys. The results suggest that developmental changes have a significant influence on the relations between motor performance and fluid intelligence.

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