



METRIC CHARACTERISTICS OF THE TEST OF GROSS MOTOR DEVELOPMENT (TGMD 3)

METRIJSKE KARAKTERISTIKE TESTA ZA PROCJENU GRUBIH MOTORIČKIH SPOSOBNOSTI (TGMD 3)

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ABSTRACT

The aim of this study was to determine metric characteristics of the Test of Gross Motor Development (TGMD 3). The study included 146 children from Bosnia and Herzegovina, aged 3-10,4 ($6,80 \pm 2,23$ years; 46,6% male; 53,4% females). Based on the obtained research results it can be concluded that Test of Gross Motor Development (TGMD-3) has satisfactory reliability and internal consistency for children aged 3 to 10 years. Mutual correlations confirm the homogeneity of the scale. Based on results of Kolmogorov-Smirnov test, Test of Gross Motor Development is not sensitive for subjects included in this study. The obtained results of the confirmatory factor analysis of this model show a partial agreement of the assumed model with the data ($h^2 = 108.17$, $df = 64$, $h^2 / df = 1.69$, $TLI = 0.86$, $CFI = 0.72$, $NFI = 0.72$, $RMSEA = 0.07$ $CI = 0.04-0.09$). The data was analyzed with the SPSS 20 software (with the AMOS package). The limitations in the research are the respondents, because due to the epidemiological situation caused by COVID 19, a convenience sample of respondents was selected.

Key words: Motor development, TGMD 3, childhood, reliability, confirmatory factor analysis.

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SAŽETAK

Cilj istraživanja je bio utvrditi metrijske karakteristike testa za procjenu grubih motoričkih sposobnosti (TGMD 3). Istraživanjem je obuhvaćeno 146 djece iz Bosne i Hercegovine, uzrasta od 3-10,4 godina ($6,80 \pm 2,23$ godina; 46,6% dječaci; 53,4% djevojčice). Na osnovu dobijenih rezultata istraživanja može se zaključiti da Test za procjenu grubih motoričkih sposobnosti (TGMD 3) ima zadovoljavajuću pouzdanost i unutrašnju saglasnost. Međusobne korelacije potvrđuju homogenost skale. Na osnovu rezultata Kolmogorov-Smirnovljeve testa, Test za procjenu grubih motoričkih sposobnosti nije osjetljiv za ispitanike koji su obuhvaćenim ovim istraživanjem. Rezultati konfirmatorne faktorske analize ovog modela pokazuju djelimično slaganje pretpostavljenog modela s podacima ($h^2 = 108.17$, $df = 64$, $h^2 / df = 1.69$, $TLI = 0.86$, $CFI = 0.72$, $NFI = 0.72$., $RMSEA = 0.07$ $CI = 0.04-0.09$). Rezultati istraživanja obrađeni su u statističkom paketu SPSS 20 (sa paketom AMOS).

Ograničenje u istraživanju su ispitanici, jer je zbog epidemiološke situacije izazvane COVID-om 19 odabran prigodan uzorak ispitanika.

Ključne riječi: Motorički razvoj, TGMD 3, djetinjstvo, pouzdanost, konfirmatorna faktorska analiza.