

# IMPACT OF INTELLIGENCE AND ANTHROPOLOGICAL CHARACTERISTICS IN GYMNASTICS PERFORMANCE

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## Abstract

**BACKGROUND:** The aim of the study was to analyze the impact of intelligence, motor skills, and morphologic characteristics on performance of gymnastic elements, and to define interrelationships between applicable tests.

**METHODS:** Intelligence test used was the Figure Reasoning Test, there were 16 anthropometric variables, 25 motoric tests and 12 gymnastics elements, in a sample of 200 male students from University of Prishtina, Faculty of Physical Education and Sport.

**RESULTS AND CONCLUSIONS:** From the results of the study, it is proved that students who were shorter in length and less subcutaneous adipose tissue had better performance in gymnastic elements as opposed to those that were longer and more subcutaneous adipose tissue. Furthermore, this study shows a strong correlation between succes in gymnastics, with all motor tests on the probability level  $p [?] 0:01$ , and that motor skills were important predictors of success in performance in gymnastics. In this study the multiple analysis of linear regression results, that Intelligence did not appear to be a significant predictor of success in gymnastics.

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