

Abstract

Name: The relationship between physical somatotype and psychomotor age applied on the football players of U12 category in the Czech Republic

Objectives: The aim of this work is to determine the relationship between the component of a body somatotype "ectomorph" and the level of psychomotor development of football players at the age of 12.

Methods: To obtain the data the testing method was used. For data processing the method of statistical analysis was applied, the most important element of the analysis was the analysis of correlation. For the partial results the method of comparison was chosen.

Results: The most important finding in this study was a positive but weak dependence ($r = 0.15$) between ectomorphic component level and psychomotor development. There were no factually or statistically significant differences among the teams in sub-monitored parameters such as the average body weight and height, BMI, age, ectomorph and the level of psychomotor development. Only on the level of psychomotor age a moderate effect from the perspective of substantive significance (Cohen's $d = 0.582$) was found.

Keywords: football, youth, comparison, motor skills, ectomorph