DIFFERENCE IN MOTOR ABILITIES BETWEEN SWIMMERS AND NONPROFESSIONAL ATHLETES

Abstract
Most important factors for achieving top results in sport are selection of children, as sportmen in future, who have in start anthropological characteristics which can be developed to wanted maximum, and training as a specific process of transforming those characteristics. Anthropological characteristics along with morphological and functional characteristics are formed also by motor abilities. On the sample from 80 respondents, males, age 12-14 from which 40 professional swimmers and 40 nonprofessional athletes(NPA), who never did and are not currently do sports, test for evaluation basic-motor abilities were applied. Variables for evaluation of segmentary speed, repetitive and explosive strength, and also variables for flexibility evaluation. For determining differences between motor abilities swimmers and NPA we use besides general statistic parameters also Students T test, and for determination of global quantitative differences in motor space we use canonical discriminant analysis. Based on these results we can conclude that there are significant differences in motor space between swimmers and NPA.

Key words: motor abilities, swimmers, NPA, difference