METRIC CHARACTERISTICS OF TESTS FOR COORDINATION ESTIMATION

Abstract

Practice and science confirms every day that the coordination is one of the most important psychomotor abilities. Just for that fact, the coordination is in all formulas and equations of specification of success in sport. There are several definitions of coordination in professional and scientific literature. As a rule, the mentioned definitions are incomplete of partly good. In essence, the coordination is the ability of the central nervous system to manage the musculoskeletal system. This research is dedicated to the metric characteristics of tests for the estimation of coordination with special emphasis on the reliability and validity of these tests. Namely that the any test would be useful and applicable, it must possess the following metric characteristics: reliabiltiy, validity, objectivity and discriminativity. The research has been conducted on a sample of 112 students of high schools, where they have used the three tests for the estimation of coordination. 1. handed dribble between stands (klop), 2 squeezing through and skipping (kpps), 3 polygon backward (kpnt). After completion of exploration, it can be concluded that above mentioned tests have shown high and statistically significant reliability and validity. Crombah's alpha coefficient of reliability has been (.90, .93, .94) and matrix intercorelation of item, or test-retest shows the statistics significant values where the correlation coefficient is ranging from .71 to. 88. In all tests, based on the item of retest has been obtain by a one characteristic root $\Lambda_1 = 2.66$, extracted variace is .89. For test-kpps $\Lambda_1 = 2.70$, and extracted variance is .85. For test-kpnt $\Lambda_1 = 2.70$ and extracted variance is 90. Based on above mentioned values, it can be concluded that mentioned tests have satisfactory factor of validity in addition of high and statistically significant realibility. Objectivity and discriminativity as important metric attributes have been on high level, that are confirmed by th values shown in Tables.

***Key words**: coordination, metrics, validity, reliability, estimates*