

EVALUATION OF BOXER'S COGNITIVE STATUS CONTRIBUTION TO SUCCESS IN PERFORMING SPECIFIC MOVEMENT STRUCTURE

Abstract

The system of 11 variables, among which 8 variables of specific movement abilities (as a criterion) and 3 cognitive variables (as predictory) were applied to the sample consisted of 92 boxers coming from Croatian boxing clubs with different weight categories in order to determine the influence by the system of cognitive abilities on individual criterion variables of specific movement abilities with top boxers. While using factor analysis (direct oblimin), two latent dimensions were isolated and the first of them was interpreted as an integrated latent dimension with specific movement abilities and the other as a general latent dimension with cognitive abilities. There is statistically important correlation amounting 0.37 between the isolated latent dimensions. As a result of regression analysis used, there appeared the results showing that the test AL.4, which is used to evaluate efficacy of serial processor, had statistically important influence on all the criterion variables at the level .00 - .05, whereas the test IT-1, which was constructed with intention to measure perceptive ability (synthesis of perceptive analysis ability, perceptive structuring and perceptive identification), had statistically important influence on criterion variables: speed of performing combined hits at boxing punching sack ($p=.01$), leg jumps of duration of 10 seconds and performing left-right uppercut ($p=.03$) and the series consisting of 100 combined hits onto the coach's hands ($p=.00$).

Key words: *evaluation, cognitive status, specific movement, boxers*