

LATENT STRUCTURE OF GENERAL, PSYCHOLOGICAL AND SPECIFIC MOTOR ABILITY INDICATORS WITH TOP SITTING VOLLEYBALL PLAYERS

Abstract

In this survey, the sample of 68 examinees being registered as the top representatives of sitting volleyball players in Bosnia and Herzegovina was measured with 26 variables from the subscope of general status, cognitive dimensions, conative dimensions, attitudes towards sport, motive for sport results and situational volleyball tests. In the first phase of data processing, they were rescaled into image metrics in order to get the maximum of common information. The data prepared in that way were analyzed by factor analysis, that is from the component model to orthoblique solution. The result was that six recognizable latent dimensions were produced by 86.45% of the integrative variable of the system of image variables. It resulted in one dimension of general status, three dimensions of psychological status (conative, cognitive, motivational) and two dimensions of specific volleyball actions (ball possession, scoring a point). These results undoubtedly showed that the examinees had been very well integrated into volleyball game and also that they had performed the expected total latent system of selected indicators without some bigger disproportions. Some smaller deviations from this model were recorded, for example in the case of activity which was negatively orientated in this case according to cognitive dimensions. The precision in tactic serving, which was negatively orientated according to character features, and convergence of attitudes on sport according to motivation features were recorded, too. The whole set of information were explained by a good and balanced system of personality in which specific tendencies were showed by the examinees in accordance with their status and experience in sport activity.

Key words: image metrics, factors, personalities, status