Abstract

The aim of this study was focused on the quantitative evaluation of movement distance of elite female volleyball players in match, and the comparison between the values of selected players. For the evaluation in the study was used 3D kinematic motion analysis. The observed homogeneous group consisted of elite female volleyball players at CEV Champions League match (n = 14, age = 25 ± 6 years, height = 182.3 ± 6.2 cm, weight = 72.1 ± 5.8 kg). Overal were processed four sets, a total of 167 rallies. The average movement distance of one player evaluated from 167 rallies was 1259.89 meters, the equivalent of one rally was 8.8 m. The average movement distance of Libero in one rally was bigger than the other players' (9.6 m). Results of this study has shown an interindividual differences in final volume of movement distance between group of players that was participating in every rally (spikers, setter, opposite player) and players that were not participating in every rally (libero, blockers). Comparison of average movement distance of players in one rally has shown no significant difference.