MORPHOLOGICAL CHARACTERISTICS AND PHYSIOLOGICAL PROFILE
OF THE CROATIAN MALE TENNIS PLAYERS

Abstract
The sample of twenty adult (senior) male tennis players (ten ranked on the ATP ranking list and ten ranked among the first 25 players on Croatian national ranking list), where measured by 23 morphology anthropometric measures and 11 measures assessing work capacities (functional abilities) of the tennis players. The collected data were processed by the software package SPSS for Windows, ver 18.0. Body height of the subjects ranged between 173.60 and 199.50 cm with the average of 184.42±7.14 cm, whereas their body mass ranged between 64.90 and 89.00 kg, with the average of 77.60±7.26 kg. The percentage of fat tissue varied between 6.65 and 21.77 % with the average value of 9.20±3.91%. In comparison with results of top-level tennis players (top 100 ATP), who are tall on average 183.5 cm and heavy 80.5 kilograms on average, reveals that the current study subjects are, on average, somewhat taller, but also a little bit lighter than the top professional players. In the research observed tennis players had a somewhat lower values of aerobic capacity in comparison to the professional tennis players. For the desired transition into a higher rank of competition the better physical condition is recommended since it would enable a higher rate of more quality regeneration between points, matches and tournaments, resulting in higher performance consistency in professional tennis.

Key words: morphology, physiology, tennis, profile