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ІННОВАЦІЙНІ ТЕХНОЛОГІЇ В СИСТЕМІ ПІДВИЩЕННЯ КВАЛІФІКАЦІЇ ФАХІВЦІВ ФІЗИЧНОГО ВИХОВАННЯ І СПОРТУ

ТЕЗИ ДОПОВІДЕЙ І МІЖНАРОДНОЇ НАУКОВО-МЕТОДИЧНОЇ КОНФЕРЕНЦІЇ (Україна, Суми, 17–18 квітня 2014 року)

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COMPARISON OF ANTHROPOMETRIC BODY FEATURES OF HIGHCLASS VOLLEYBALL PLAYERS

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Introduction . One of the factors determining skills of athletes in certain sport is body build features[2]. Sport result depends a lot on morphologic features of the sportsman, that is one of the selective factors determining the sportsman's perspective [4]. Purpose of research is studying of peculiarities anthropomentric and somatometric indices of super league, premier league and first league teams. Object and methods of research were 18 sportsmen (19-26 years old), 6 in each group, masters of sport, candidates for masters of sport in volleyball. 1st group consisted of super league team, 2nd – premier league team, 3rd – first league team that take part in the Ukrainian Championship 2012–2013. Anthropometric study was made according to V. V. Bunak schemes [1]. Statistical mathematics methods were applied [3].

Results of research and their discussion. As it follows from the results of research data, the sportsmen body length of the 1^{st} group in relation to the 2^{nd} group is larger at 0,99% (p<0,05), in relation to the 3^{rd} group- at 2,56% (p>0,05), and indices of the 2^{nd} group in relation to the 3^{rd} – at 1,43% (p<0,05). Body weight of the 1^{st} group in relation to the 2^{nd} group is larger at 1,68% (p<0,05), to the 3^{rd} – at 2,73% (p>0,05), 2^{nd} group in relation to the 3^{rd} – at 1,80% (p<0,05). Breadth of shoulder in the 1^{st} group in relation to the 2^{nd} and 3rd group is larger at 1,12% (p<0,05) and 1,69% (p<0,05), 2^{nd} group in relation to the 3^{rd} is larger at 0,89% (p<0,05).

Length of wrist in the 2^{nd} group in relation to the 1^{st} group is larger at 0,82% (p<0,05), in relation to the 3^{rd} - at 0,86 (p<0,05), 1^{st} group in relation to the 3^{rd} - at 0,21 (p<0,05). Total length of foot in the 1^{st} group in relation to the 2^{nd} and 3rd group is larger at 1,52% (p<0,05) and 1,72% (p<0,05) respectively, 2^{nd} group in relation to

the 3^{rd} – at 0,49% (p<0,05). Transverse diameter of chest and antero-posterior diameter of chest of the 1^{st} group in relation to the 2^{nd} group is larger at 0,89% (p<0,05) and 0,33% (p<0,05) respectively, in relation to the 3^{rd} – at 3,83% (p>0,05) and 0,35% (p<0,05), 2^{nd} group in relation to the 3^{rd} – at 2,75% (p>0,05) and 0,39% (p<0,05) respectively. Shoulder distal epiphysis in the 2^{nd} group in relation to the 1^{st} group is larger at 0,34% (p<0,05), to the 3^{rd} – at 1,08% (p<0,05), 1^{st} group in relation to the 3^{rd} – at 0,66% (p<0,05). Diameter of the hip and shin distal epiphysis in the 2^{nd} group in relation to the 1^{st} group is larger at 0,04% (p<0,05) and 0,04%(p<0,05) respectively ,in relation to the 3^{rd} – at 1,58% (p<0,05), and 0,94%(p<0,05), 1^{st} group in relation to the 3^{rd} – at 1,58% (p<0,05) and 0,94% (p<0,05) and 0,94% (p<0,05) respectively.

Conclusions. There is no significant difference in most medium, minimum and maximum indices between the super league team and premier league team because of increased physical activity and selection in the master teams. Comparing to the first league team these indices are much higher. Therefore knowing the specific characteristic features of volleyball players we can not only determine the movement capabilities of sportsmen, but also recommend some type of physical exercises that will correspond motor activity regime in each group, as well as roles (attacker, lybero).

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