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THE DISTINCTION BETWEEN TEAMS RANKED THIRD AND FOURTH IN THE SUPER LEAGUE VOLLYEBALL OF KOSOVO

Introduction

Unlike other complex kinesiologycal activities, sports discipline volleyball is interesting, complex, dynamic, motivating and very attractive to all generations. In volleyball game, the actions are manifested with rapid motor reactions, both in the phase of defense as well as attack, where teams attempt to score more points with more successful attacks.

To be more successful in all phases of a game it requires players to possess such anthropometric parameters that correspond to the volleyball game, to have the reaction speed in different situations, to have a good perception of time and space, as well as to have basic motor skills especially with high explosive strength of the legs and perfect technical execution elements.

Given that the basic elements of volleyball include a variety of motor actions so that their execution can be straight, and also efficient, is completely understandable and reasonable to expect that work to improve with the training of these elements and affect the development of motor skills (Nesic, Sikimić, Ilic and Stojanovic, 2011). Contemporary volleyball game requires all players a high level of general motor skills, as well as specific - typical of a volleyball game and for certain particular positions of players (Martinovic et al, 2011). Players should be well prepared to perform perfectly all the technical and tactical elements.

Methods

For the realization of this research there have been included 12 volleyball players from the team of KV "Granit com" ranked in third place in the Super League of Kosovo in Volleyball and 12 volleyball players from the team of KV "Te Luzha", ranked in fourth place in Super League of Kosovo in volleyball. There have been applied 4 anthropometric variables which are: body weight (APESHA), body height (ALARTE), arm length (AGJKR), forearm length (AGJPK); 5 basic motor variables: the long jump from place (MKVGJ), jump high from place (MKVL), taping hand (MTD), taping feet (MTK), running 20 meters from a fast start (MV20M); and 7 situational tests: pass the ball with the fingers on vertical target (SPTGR), pass the ball to the forearm ("hammer") in target vertical (SPTGQ), pass the ball with fingers on the horizontal target (SPTK), pass the ball with the forearm ("hammer") in horizontal target (SPTCR), tennis service in horizontal target (SPSHT) service to jump in the horizontal target (SPSHK).

For each applied variable were calculated these values: 1. Basic central and dispersion, 2. Asymmetry coefficient ("skjunis") and height distribution ("kurtosis"), 3. The verification of arithmetic difference in averages between the two teams in anthropometric and motor parameters, as well as situational precision through applying the discriminatory analysis of t-test for independent variables.

Results

We start the analysis of Table 1 by observing the column of the standardized coefficients of distribution asymmetry (skewness), which provides the verification of the compliance of empirical data with theoretical ideal Gauss distribution. The values of the asymmetry coefficients for each anthropometric and motor variable, and situational precision are far away from the critical values and very close to the optimum value that represents discrimination test. The earned distributions show that the applied anthropometric variables did not show any pronounced asymmetry, and the motor and situational precision tests did not present complicated tasks and are selected in full compliance with the age, gender and profession. Further analysis of the same coefficients indicates a negative asymmetry - dominated hypo kurtosis in most motor and situational precision tests.

Table 1. Basic indicators of statistical anthropometric, motor and situational precision variables to volleyball players of KV "Granit com"

	N	Minimum	Maximum	Mean	Std. Deviation	Skewness	Kurtosis
AWEIGHT	12	66.48	97.68	80.9133	9.95073	002	-1.207
AHIGH	12	177.75	198.80	186.4667	8.79071	.068	-2.209
AGJKR	12	34.35	41.20	36.1292	2.15295	1.133	1.315
AGJPK	12	24.10	31.60	27.2250	2.04412	.599	.406
MKVGJ	12	204.70	291.32	269.6267	27.23156	-1.498	1.813
MKVL	12	39.30	49.40	43.0083	3.11316	.611	249
MTD	12	22.00	37.00	29.2500	5.61046	340	-1.642
MTK	12	20.00	28.00	22.8333	2.62274	.834	.040
MV20M	12	3.40	4.10	3.6500	.23160	.843	370
SPTGR	12	33.00	78.00	56.5833	13.20095	091	625
SPTGQ	12	26.00	43.00	35.5000	5.23103	226	629
SPTK	12	10.00	36.00	22.6667	8.57410	126	-1.258
SPTÇM	12	10.00	28.00	19.4167	5.61586	446	246
SPTÇR	12	11.00	32.00	21.9167	6.40253	525	194
SPSHT	12	5.00	12.00	7.8333	2.28963	.517	718
SPSHK	12	5.00	9.00	7.6667	1.37069	800	512

Basic central and fundamental parameters, the dispersive asymmetry coefficients ("skjunis") and the distribution of height ("kurtosis") (Table 2.) provide a result almost the same as in Table 1. In this table the values of the coefficients of asymmetry for each anthropometric and motor variable, and situational precision are away from the critical values and very close to the optimum value that represents discrimination test. Distributions earned show that the applied anthropometric variables did not show any pronounced asymmetry and motor and situational precision tests not present complicated tasks and are selected in full compliance with the age, gender and profession. Further analysis of the same coefficients indicates a domination of negative asymmetry – hypo kurtosis in most motor and situational precision tests, which means that the values of these tests tend to go the direction of the lower ones. The biased results of the motor tests, and the situational precision toward the lower ones shows a low motivation of the volleyball players in performing these motor and situational tests.

Table 2. Basic statistical indicators of anthropometric, motor and situational variables, to volleyball playes of KV "The Luzha"

	variables, to voite yout playes of Kv The Luzha									
	N	Minimum	Maximum	Mean	Std. Deviation	Skewness	Kurtosis			
AWEIGHT	12	67.50	92.68	80.7433	8.85671	162	-1.790			
AHIGH	12	173.70	194.20	185.7458	8.73086	097	-2.242			
AGJKR	12	31.80	40.40	35.8500	2.29931	.221	.151			
AGJPK	12	23.10	32.90	27.1083	2.59105	.655	1.179			
MKVGJ	12	201.54	281.50	236.2017	28.47705	.471	.637			
MKVL	12	39.10	48.20	42.0917	2.91531	.782	258			
MTD	12	20.00	37.00	28.9167	5.72805	411	-1.430			
MTK	12	19.00	27.00	22.5833	2.42930	.358	480			
MV20M	12	3.20	4.30	3.9917	.29064	-1.981	5.005			
SPTGR	12	16.00	72.00	53.0000	16.58586	973	.880			
SPTGQ	12	13.00	41.00	32.8333	7.64952	-1.686	3.610			
SPTK	12	9.00	33.00	21.5000	8.38288	145	-1.283			
SPTÇM	12	7.00	29.00	18.4167	6.11196	215	.285			
SPTÇR	12	3.00	28.00	20.9167	7.46456	-1.490	2.027			
SPSHT	12	4.00	11.00	7.5833	2.15146	005	865			
SPSHK	12	3.00	10.00	5.0000	1.85864	1.835	4.708			

To prove that there is a statistically significant difference between the KV volleyball players of KV "Granit com" ranked in third place in the Super League of Kosovo in volleyball and the volleyball players of KV " Te Luzha" ranked on the fourth place in the Super League of Kosovo in volleyball, in some anthropometric,

motor and situational precision variables has been applied the T - test to two groups of the independent variables.

The difference between the 12 volleyball players of KV "Granit com", and the volleyball players of KV "Te Luzha" is confirmed in only two motor tests and one situational precision, and in the tests: long jump from place (MKVGJ) Mean Diff. = 25278, t = 2.308, df - 22, sig. = 0.031), running 20 meters from a fast start (MV20M) (Mean Diff. = -.34125, t = -3.185, df - 22, sig. = 0.004) service with the jump in the horizontal target (SPSHK) (Mean Diff. = 2.666; t = 4.000; df - 22, sig. = 0.001)

Discriminative analysis results show that differences in arithmetic averages have been in favor of the players of KV "Granit com", (except for the test of run at 20 meters from a fast start (MV20M) where the results of t - test are presented in Table 3.

Table 3. The difference in anthropometric, motor and situational variables between players in the KV "Granit com" and KV "Te Luzha

	Levene's t-test for Equality of Mean						ne	95% Confidence		
		t for	t-test for Equality of Means					Interval of the		
	Equality of							Diff.		
	Variances							D 111.		
	F	Sig.	t	df	Sig. (2-	Mean	Std. Error	Lower	Upper	
		0			tailed)	Difference	Difference		11	
AWEIGHT	.188	.669	.044	22	.965	.170	3.845	-7.805	8.145	
AHIGH	.006	.940	.202	22	.842	.720	3.576	-6.696	8.138	
AGJKR	.105	.749	.307	22	.762	.279	.909	-1.606	2.164	
AGJPK	.422	.523	.122	22	.904	.116	.952	-1.859	2.092	
MKVGJ	.012	.915	2.308	22	.031	25.278	10.952	2.564	47.992	
MKVL	.042	.840	.745	22	.464	.916	1.231	-1.636	3.470	
MTD	.003	.956	.144	22	.887	.333	2.314	-4.466	5.133	
MTK	.019	.892	.242	22	.811	.250	1.032	-1.890	2.390	
MV20M	.002	.968	-3.185	22	.004	341	.107	564	119	
SPTGR	.240	.629	.586	22	.564	3.583	6.119	-9.107	16.274	
SPTGQ	.360	.555	.997	22	.330	2.666	2.675	-2.881	8.214	
SPTK	.063	.804	.337	22	.739	1.166	3.461	-6.012	8.345	
SPTÇM	.023	.880	.417	22	.680	1.000	2.396	-3.969	5.969	
SPTÇR	.084	.775	.352	22	.728	1.000	2.838	-4.887	6.887	
SPSHT	.029	.866	.276	22	.785	.250	.906	-1.630	2.130	
SPSHK	.015	.904	4.000	22	.001	2.666	.666	1.284	4.049	

Discussion

The results obtained show that the players of the two teams of volleyball of Kosovo Super League ranked in third and fourth place, which were involved in research do not differ among themselves in anthropometric characteristics (p > 0.05). KV "Granit Com" has had better results on tests of explosive force in the long jump from place (MKVGJ), (P < 0.05), while volleyball team of KV "Te Luzha" has had

better results in jogging 20 meters start from the top (MV20M), (p < 0:01). Situational test does not show statistically significant difference observed between the two teams apart in the service test jump in the horizontal target (SPSHK) (p < 0:01) where KV "Granit com" had better results.

Discriminative analysis of t - test by which it is estimated the difference between the arithmetic averages of KV volleyball players "Granit Com" and the V volleyball players "Te Luzha" in some motor tests and situational precision shows that of volleyball kinesiologycal treatment of the two teams in terms of quality has been approximately the same.

Results of this study shows for a qualitative selection on the level of Super League of Kosovo both teams are ranked in third and fourth position, as well as in terms of conditional preparation. By comparing the mean of heights and some other longitudinal variables, and Situational accuracy in a sample to be tested from Kosovo Super League volleyball players, obtained results are very similar with some reported results so far achieved in the game of volleyball samples (Marelič et al. 2008, Strahonja, 1978).

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Aknowledgement

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THE DISTINCTION BETWEEN TEAMS RANKED THIRD AND FOURTH IN THE SUPER LEAGUE VOLLEYBALL OF KOSOVO.

Introduction: When it is about elite male volleyball players, it is always meant about players that possess such anthropometric parameters which correspond with volleyball game. In this research we are deal with two teams of the super league of Kosovo in volleyball. The goal of this study is to verify the differences between the two teams in volleyball in some anthropometric characteristics, basic motor skills and situational tests. Methods: For the realization of this research, there were included 12 volleyball player from the team KV "Granit com" and 12 from the team KV "Te Luzha". There are applied 4 anthropometric variables (body weight, body height, arm length, forearm length), 5 basic motor variables (long jump from place, high jump from the place taping hand, taping feet, jogging with 20 meters with a fast start), and 7 situational tests (pass the ball with the fingers on target vertical expulsion of the ball with the forearm ("hammer") in vertical target, passing the ball with the fingers in a horizontal target, the expulsion of the ball with the forearm ("hammer") in horizontal target, pass the ball with fingers to jump in the horizontal target, tennis service in horizontal target, the target service with the horizontal jump. For processing the obtained results from the measurements and proving the difference between the teams in anthrop motored parameters, was used the discriminatory analysis using the t-test for independent variables. Results: The results obtained show that the players of the two volleyball teams of the Super League in of Kosova, involved in the research do not distinguish between them in anthropometric characteristics (p > 0.05). The team KV "Granit Com" has had better results in some motor variables of the explosive force and the one of long jump from the place (P < 0.05) and running 20 meters from a fast start (p <0:01). Situational tests are not a statistically significant difference observed between the two teams. Discussion: In order to verify the statistical significance through the t-test, the value of t-test should be established, which for significant level p<0.05 is T>1.97 above 20 entities. The results show that statistically valid changes with valid significant tests are present in anthropometric and movement space. Table nr.15 presents the results of two teams "Graniti Com" and "Te Luzha". In this case, the statistical valid changes are presented in three tests: high jump, 20 meters speed run and accuracy of the service in jumping. References: Liba MR, Stauff MR (1963). Research Quarterly, 35, 59-63. Strahova A (1972). Kineziologija, 1, 19-72. Nikqi V. (2008). Differences of some anthopmetric and motor characteristics as well as several situatinal testes among Kosovo Superlague Volleyball players, 35-64. Strahonja A, Jankovic V, Shnajder V (1982), Kineziologija, 11, 46-51.