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ZHURID S., REBAZ SLEMAN

Kharkiv State Academy of Physical Culture

Technique-tactical preparedness of the team «Gelios» (Kharkov) by the results of the 24th Ukrainian football championship in the first league (2014–2015)

Abstract. Purpose: to define model characteristics of technique-tactical preparedness of the Ukrainian First League football championship with the aim of further improvement and correction of the training process. **Material and Methods:** the research was conducted using the method of expert evaluation. **Results:** average meanings of the registered values for 13 games were determined. Different technique-tactical actions and their percentage proportions in the total structure of the team game, statistics for 30 games as well as separate indices of the team play of «Gelios» Kharkov were analyzed. **Conclusions:** quantitative and qualitative indices (coefficient of defect) both for team technique-tactical actions and separately for each technique-tactical action.

Keywords: technique-tactical actions, total number of actions, defect coefficient, percentage proportion of the different technique-tactical actions in the total structure of the team game.

Introduction. The priority of domestic experts in the creation of model characteristics of the competitive activity doesn't raise doubts in football [3; 4; 8; 9]. Presently during the development of quantitative indices, what characteristic for the set level of sports skill, it is possible to allocate different approaches [5; 6]. We used the approach which is connected with studying of the considerable set of sportsmen of different qualification, dependence establishment between the level of sports skill and the dynamics of changes of this or that indicator.

Characteristic features of technical skill of the strongest football players is: an ability to carry out any pass at a restriction of time and space exactly and timely, a high precision of kicks on a goal, an excellent game by a head, a high precision of a reception of a ball with any part of a body in difficult situations at a high speed and with obligatory advance, a possession of a wide arsenal of means of enclosing a rival, selections and interceptions of a ball [1; 2; 7].

Thus, an obvious need of the subsequent studying of a problem of features of technical and tactical preparedness of the qualified football players.

Communication of the research with scientific programs, plans, subjects. The research is executed according to the Built plan of the RW in the sphere of physical culture and sport for 2011-2015 by MES of Ukraine by a subject 2.3 "Scientifically-methodical bases of improvement of the system of training of sportsmen in football taking into account features of the competitive activity", and also according to the initiative subject of the RW of the chair of football and hockey of Kharkov state academy of physical culture for 2011-2015 "Optimization of the educational-training process of football players of different qualification".

The objective of the research: to define model characteristics and their changes in team technical and tactical preparedness of a team what took part in the championship of Ukraine of the first league for the subsequent improvement and correction of the educational-training process.

Material and methods of the research. The researches were conducted by means of a method of an expert estimation. 5 experts of football were involved as specialists. Among them: one is the master of sports in football, one – the candidate of the master of sports, others were players of professional teams of football. All experts worked with professional and amateur teams of football as coaches in the past. Among experts: one professor; one candidate of pedagogical sciences, an associate professor; two candidates of science on physical education, an associate professors of football and hockey; one graduate student of the chair of football and hockey of Kharkov state academy of physical culture. If during a registration of the competitive activity of the team "Helios" of Kharkov the debatable questions appeared, they were solved by a majority vote. During the pedagogical supervision the technique assumed a mutual control of indicators of the competitive activity that allowed obtaining more objective data. So, one of the experts counted total of passes, and another talked on a dictophone at the same time, what specifically players (N^o of players.) and which pass was executed by a direction and a distance.

The team "Helios" of Kharkov played 30 matches in the championship of Ukraine for 2014/2015 in the first league. The scientifically-methodical group registered only 13 home matches, from them 7 – the first circle and 6 games of the second circle. The 44th points were gathered and the team took the 7th place from 16 teams. The team "Helios" of Kharkov received 12 victories, 8 draws, 10 defeats. The team "Helios" of Kharkov scored 30 goals and passed 25.

Results of the research and their discussion. Indicators of the technical and tactical activity of the team "Helios" of Kharkov and 13 home games in the 24th football championship of Ukraine are presented in table 1.

The percentage ratio of different technical and tactical actions in the general structure of a play of the team is presented in pic. 1. The greatest contribution to the general structure of a play of the team "Helios" of Kharkov was made by short and average passes forward – 28,6%, short and average passes forward and back – 16,9%, reception of a ball – 14,4%. Actions which define the end result of a game, – kicks on a goal by a foot and by a head – make respectively – 0,9% and 0,5%.

The comparative analysis of positive and negative indicators (tab. 2) and the coefficient of defect (tab. 3) of a performance of technical and tactical actions of the team "Helios" for 23 and 24 football championships of Ukraine were carried out.

So, ($p < 0,01$) a number of negative receptions of a ball (stops) increased in comparison with the previous 23rd championship. Considerably ($p < 0,001$) a number of negative long passes forward increased. The quantity of positive ($p < 0,01$) and negative ($p < 0,05$) interceptions of a ball at the rival decreased. The team players of the "Helios" made fewer ($p < 0,05$) mistakes at a throw-in of a ball from behind a sideline.

Table 1

Indicators of technical and tactical preparedness of the team “Helios” of Kharkov at the 24th football championship of Ukraine in the first league (for 13 games)

Nº	Technique-tactical actions	Quantity of positive on average for a game, $\bar{X} \pm m$	Quantity of negative on average for a game, $\bar{X} \pm m$	Coefficient of defect (%), $\bar{X} \pm m$	Percent of a usage, %
1.	Reception of a ball	89,53±13,37	17,61±1,67	19,6±2,11	14,4
2.	Short and average passes forward	135,92±9,53	76,38±2,14	36,83±1,92	28,6
3.	Short and average passes back and across	110,53±11,48	15±1,18	13,78±2,09	16,9
4.	Long passes forward	22,15±2,12	44,38±3,05	68±1,86	8,9
5.	Long passes back and across	4,18±1,0	5,72±0,81	59,96±4,6	1,3
6.	Single combats at the top	34,38±2,61	28,61±3,15	44,71±3,27	8,4
7.	Enclosing of a rival	17,69±2,09	15,0±1,88	45,27±2,56	4,4
8.	Interceptions of a ball	17,69±1,1	7,07±0,76	28,45±2,61	3,3
9.	Selections of a ball	21,46±1,78	28,76±1,94	57,36±1,67	6,7
10.	Kicks on a goal by a foot	3,84±0,4	3,3±0,51	45,11±4,95	0,9
11.	Kicks on a goal by a head	2,0±0,51	1,87±0,51	40,14±10,52	0,5
12.	Penalty kicks for the 11th	1,0	1	50	0,2
13.	Penalty kicks in an attack zone	2,25±0,25	2,25±0,35	67,2±8,85	0,6
14.	Corner kicks	2,5±0,37	4,08±0,65	62,9±6,63	0,8
15.	Throw-in of a ball from behind a sideline	26,92±2,37	3,54±0,77	9,9±2,18	4,1
16.	Positive and negative TTA	490,76±25,8	251,07±5,59	34,34±1,53	–
17.	In total	741,84±24,46		34,34±1,53	100
18.	Effectiveness ratio	65,63±1,52		34,36±1,52	–

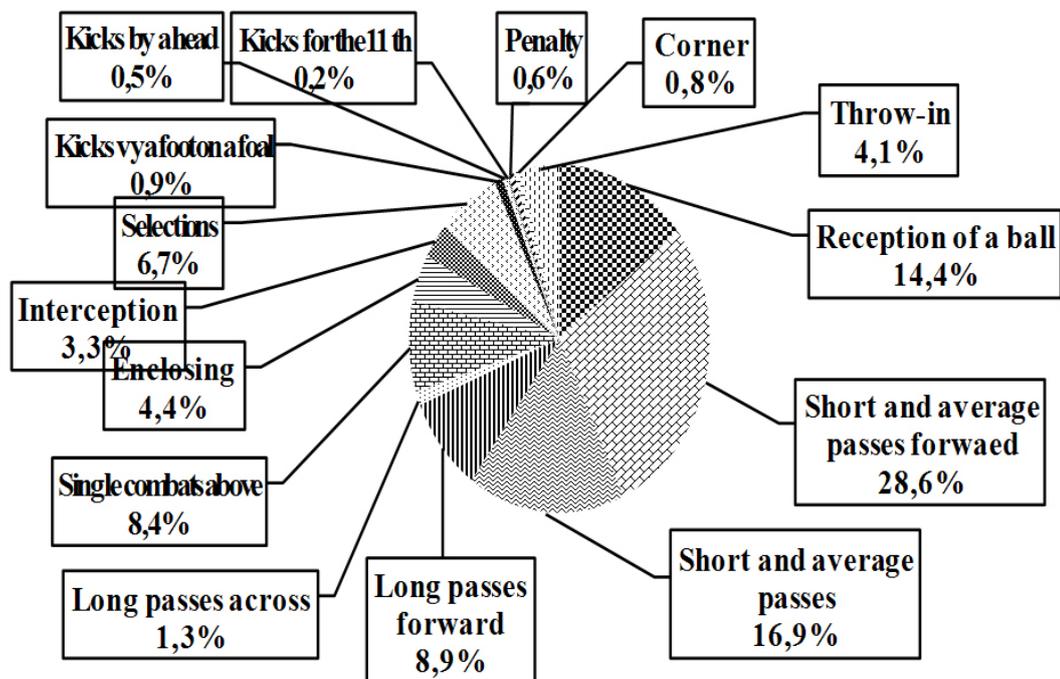


Fig. 1. A percentage ratio of different technical and tactical actions in the general structure of a play of the team “Helios” of Kharkov in the 24th football championship of Ukraine in the first league, %

Table 2

Indicators of the technical and tactical activity of the team "Helios" of Kharkov for 23 and 24th football championships of Ukraine in the first league (on average for a game), $\bar{X} \pm m$

№	Technique-tactical actions	23 championship (n=10)	24 championship (n=13)	p	23 championship (n=10)	24 championship (n=13)	p
		Quantity of positive			Quantity of negative		
1.	Reception of a ball	77,1±3,37	89,53±13,37	>0,05	19,4±1,46	17,61±1,67	>0,05
2.	Short and average passes forward	156,4±16,23	135,92±9,53	>0,05	64,4±2,43	76,38±2,14	<0,01
3.	Short and average passes back and across	132,8±11,21	110,53±11,48	>0,05	17,2±1,7	15±1,18	>0,05
4.	Long passes forward	17,2±1,7	22,15±2,12	>0,05	20,6±1,55	44,38±3,05	<0,001
5.	Long passes back and across	4,0±0,95	4,18±1,0	>0,05	6,4±0,74	5,72±0,81	>0,05
6.	Single combats at the top	33,7±1,52	34,38±2,61	>0,05	23,8±1,5	28,61±3,15	>0,05
7.	Enclosing of a rival	16,2±2,3	17,69±2,09	>0,05	12,7±1,8	15,0±1,88	>0,05
8.	Interception of a ball	26,2±2,24	17,69±1,1	<0,01	10,7±1,28	7,07±0,76	<0,05
9.	Selections of a ball	26,7±2,3	21,46±1,78	>0,05	27,8±1,54	28,76±1,94	>0,05
10.	Shoots for goal foot	3,1±0,45	3,84±0,4	>0,05	4,8±0,62	3,3±0,51	>0,05
11.	Kicks on a goal by a head	1,22±0,36	2,0±0,51	>0,05	2,0±0,5	1,87±0,51	>0,05
12.	Penalty kicks for the 11th	-	1,0	-	1,5±0,5	1	-
13.	Penalty kicks in an attack zone	1,75±0,36	2,25±0,25	>0,05	2,28±0,35	2,25±0,35	>0,05
14.	Corner kicks	3±0,61	2,5±0,37	>0,05	3,8±0,75	4,08±0,65	>0,05
15.	Throw-in of a ball from behind a sideline	23,2±2,01	26,92±2,37	>0,05	5,7±0,53	3,54±0,77	<0,05
16.	Positive and negative TTA	525±24,26	490,76±25,8	>0,05	244,9±6,07	251,07±5,59	>0,05

Table 3

Comparative indicators of the coefficient of defect of a performance of technical and tactical actions of the team "Helios" of Kharkov for 23 and 24th football championships of Ukraine in the first league, $\bar{X} \pm m$

№	Technique-tactical actions	Coefficient of wedlock (%) for 23 championship (n=10)	Coefficient of wedlock (%) for 24 championship (n=13)	p
1.	Reception of a ball	20,2±1,5	19,6±2,11	>0,05
2.	Short and average passes forward	30,67±2,69	36,83±1,92	>0,05
3.	Short and average passes back and across	12,48±1,94	13,78±2,09	>0,05
4.	Long passes forward	68,5±1,75	68±1,86	>0,05
5.	Long passes back and across	64,16±4,61	59,96±4,6	>0,05
6.	Single combats at the top	41,3±1,86	44,71±3,27	>0,05
7.	Enclosing of a rival	43,9±2,57	45,27±2,56	>0,05
8.	Interception of a ball	29,2±2,71	28,45±2,61	>0,05
9.	Selections of a ball	51,4±2,71	57,36±1,67	>0,05
10.	Kicks on a goal by a foot	60,39±4,33	45,11±4,95	<0,05
11.	Kicks on a goal by a head	61,5±10,77	40,14±10,52	>0,05
12.	Penalty kicks for the 11th	100	50	-
13.	Penalty kicks in an attack zone	51,11±11,07	67,2±8,85	>0,05
14.	Corner kicks	55,27±5,3	62,9±6,63	>0,05
15.	Throw-in of a ball	20,24±2,25	9,9±2,18	<0,01
16.	Total:	32,06±1,43	34,34±1,53	>0,05

A tendency to the reduction (improvement) of a defect coefficient in comparison with the 23rd championship is noticed in indicators of technical and tactical actions of the team "Helios" of Kharkov for the 24th football championship of Ukraine. Such actions are: reception of a ball, kicks on a goal by a foot ($p < 0,05$), kicks on a goal by a head. Considerably only a

defect coefficient decreased ($p < 0,01$) when performing a throw-in of a ball from behind a sideline.

During the supervision over home games one penalty kick of the penalty area was realized and one isn't realized, unlike 23 championships when all penalty kicks which were appointed to the gate of the rival didn't come to the end with a capture of the gate.

Indicators of different types of attack and defensive actions and their efficiency were registered among team indicators (tab. 4).

Table 4

Attack and defensive technical and tactical actions of the team "Helios" of Kharkov in 23 and 24 football championships of Ukraine in the first league (on average for a game), $\bar{X} \pm m$

Nº	Technique-tactical actions of activity	23 championship (n=10)	24 championship (n=13)	p	
1.	Number of attacks of the team	Successful	21,5±2,29	20,91±2,07	>0,05
		Failed	103,9±7,1	130,83±5,97	<0,01
		Total	125,4±8,8	151,66±7,08	<0,05
2.	Efficiency of attack actions of %	16,95±1,19	13,64±1,12	>0,05	
3.	Efficiency of defensive actions of %	84,8±1,1	89,24±1,04	<0,01	
4.	Number of attacks of the team of the rival	Successful	17,2±1,55	14,33±1,61	>0,05
		Failed	97,1±7,0	119,0±5,84	<0,05
		Total	114,3±7,9	133,33±6,29	>0,05
5.	Efficiency of attack actions of %	15,01±1,07	10,62±1,06	<0,01	
6.	Efficiency of defensive actions of %	82,97±20,3	86,33±1,11	>0,05	
7.	Number of the getting attacks of the own team	Successful	20,3±2,2	20,91±2,07	>0,05
		Failed	63,0±4,15	71,16±3,34	>0,05
		Total	83,3±5,2	92,08±4,96	>0,05
8.	Efficiency of attack actions of %	24,2±1,88	22,18±1,44	>0,05	
9.	Efficiency of defensive actions of %	78,86±1,34	80,05±2,11	>0,05	
10.	Number of the getting attacks of the rival team	Successful	16,3±1,12	14,33±1,61	>0,05
		Failed	61,2±2,97	60,25±6,59	>0,05
		Total	77,5±3,36	74,58±6,69	>0,05
11.	Efficiency of attack actions of %	21,05±1,34	19,89±2,09	>0,05	
12.	Efficiency of defensive actions of %	75,7±1,88	77,73±1,45	>0,05	

In the 24th championship the team "Helios" of Kharkov carried out more ($p < 0,01$) attacks which were broken by the rival in comparison with the previous season of 2014/2013. Not so, the team carried out more ($p < 0,05$) attack actions. Considerably ($p < 0,01$) the efficiency of defensive actions of the team grew. ($p < 0,05$) The number of the broken attacks of the rival rose. However the efficiency of attack actions considerably decreased ($p < 0,01$). During the registration of the attack action were divided into fast and position attacks (tab. 5).

Table 5

Average values of fast and position attacks of the Helios team and their efficiency in 23 and 24 football championships of Ukraine in the first league, $\bar{X} \pm m$

Seasons	Total quantity	Fast attacks			Position attacks		
		Quantity	% among all attacks	Efficiency, %	Quantity	% among all attacks	Efficiency, %
23 championship (n=10)	119,7±6,67	84,0±4,95	70,27±2,09	17,09±1,26	35,7±3,43	29,73±2,09	17,84±2,5
24 championship (n=13)	151,66±7,08	117,16±8,14	76,44±1,99	12,48±1,56	33,83±2,98	22,7±2,24	19,59±1,52
p	<0,01	<0,01	<0,05	<0,05	>0,05	<0,05	>0,05

The total number of fast and position attacks increased ($p < 0,01$). However it happened due to a bigger number of fast attacks ($p < 0,01$) which percent among all attacks increased ($p < 0,05$), and also their efficiency improved ($p < 0,05$), and the percent of position attacks decreased ($p < 0,05$) in comparison with the previous season.

Conclusions:

1. The model team characteristics of technical and tactical preparedness are defined which are possible for comparing to indicators of the previous championships where the team "Helios" of Kharkov, and also with the experts specified in references took part.

2. The number of negative receptions of a ball (stops) and negative long passes forward increased.
3. The number of positive and negative interceptions of a ball at the rival decreased. Team players of the team "Helios" began to make fewer mistakes at a ball throw from behind a sideline.
4. The defect coefficient in reception of a ball, in kicks on a goal by a foot, kicks on a goal by a head decreased (improved). Considerably the defect coefficient decreased when performing a throw-in of a ball from behind a sideline.
5. The team "Helios" of Kharkov carried out more attacks which were broken by the rival. Not paying attention on it, the team carried out more attack actions. Considerably the efficiency of defensive actions of the team grew. The number of the broken attacks of the rival rose. However the efficiency of the attack actions considerably decreased.
6. The total number of fast and position attacks increased. However it happened due to a bigger number of fast attacks which percent among all attacks increased, and also their efficiency improved, and the percent of position attacks decreased in comparison with the previous season.

Prospects of the subsequent researches. Pedagogical supervisions over a game activity of this team for correction of the educational-training process and successful performances will be continued in the subsequent.

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Sergey Zhurid: PhD (Physical Education and sport); Kharkiv State Academy of Physical Culture: Klochkivska 99, Kharkiv, 61058, Ukraine.

ORCID.ORG/0000-0002-8943-1418

E-mail: Zhurid_47@mail.ru

Rebaz Sleman: Kharkiv State Academy of Physical Culture: Klochkovskaya 99, Kharkiv, 61058, Ukraine.

ORCID.ORG/0000-0001-9288-7208

E-mail: Rebaz.kurd@mail.ru