

# Technical-tactical preparedness of the team “Helios” of Kharkov in the 25th football championship of Ukraine in the first league

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**Purpose:** to define model characteristics of technical-tactical preparedness of the team, that participated in the championship of Ukraine of the first league for the purpose of the further improvement and correction of the educational-training process.

**Material & Methods:** the researches were carried out by means of the method of expert estimates.

**Results:** average values of the registered sizes for 16 games are analyzed. Various technical-tactical actions and their differences for the first and second times, and also separate indicators of a game of players and the team “Helios” of Kharkov are analyzed.

**Conclusions:** quantitative and qualitative indicators (defect coefficient) as on team technical-tactical actions, and separately on each technical-tactical technique for every period of a game are received.

**Keywords:** technical-tactical actions, total of actions, defect coefficient, indicators for the first and second times attacking and defensive actions of the team.

## Introduction

The priority of native experts in creation of model characteristics of competitive activity in football does not raise doubts [5; 7; 10]. Technical-tactical preparedness from young football players [1; 4; 6] to veterans of football are analyzed by experts [9]. Some experts investigate separate indicators which, in their opinion, lead to the positive result of the game. Among them are: passes in one touch in different zones of the football pitch [11], transit of the ball to the penalty area of the rival [8] and another. There are single researches of the competitive activity of highly skilled football players (Premier league of the Ukrainian football) which were conducted with the same team [14] for a long time. However, longitudinal researches of technical-tactical preparedness of teams of the first league of the Ukrainian football are almost absent [2; 3; 13].

Presently during the development of quantitative indicators what characteristic of the set level of sports skill, it is possible to allocate different approaches [12]. We used approach, which is connected with studying of considerable set of sportsmen of different qualification, dependence establishment, between the level of sports skill and dynamics of changes of this or that indicator.

## 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 MES of Ukraine on the 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 Kharkiv state academy of

physical culture for 2016–2021. Psycho-sensory regulation of motive activity of sportsmen of situational sports”.

## The purpose of the research

The main objective was to define model characteristics and their changes in command technical-tactical preparedness of the team which participated in the 25th 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 the method of expert estimation. 5 specialists were involved as football experts. Among them are: one – the master of sports of football, one – the candidate of the master of sports, others were players of professional teams of football. All experts in the past worked with professional and amateur football teams as coaches. Among experts are: two professors; one candidate of pedagogical sciences, associate professor; two candidates of science on physical education, associate professors of football and hockey of Kharkiv state academy of physical culture. If the debatable questions occur during registration of competitive activity of the team “Helios” of Kharkiv, they were solved by the majority of votes. The technique allowed mutual control of indicators of competitive activity during pedagogical observations that allowed obtaining more objective data. So, one of experts counted total of passes, and another, in the same time, recorded on Dictaphone what specifically players (number of the player) and which by the direction and distance pass was performed.

16 home matches were registered by the scientifically-methodical group at the team “Helios” of Kharkiv. Players of “He-

lios" have scored 30 balls into gate of the rivals in matches of last championship of Ukraine in the first league; they have received three more goals for absence in Kharkiv of Ternopil "Nyva". 33 scored balls are the eighth indicator of effectiveness on the league.

## Results of the research and their discussion

Indicators of technical-tactical activity of the team "Helios" of Kharkiv for 16 home matches for the 25th championship of Ukraine on football are provided in table 1. Indicators for the first and second times of the game and total of technical-

tactical techniques were separately counted.

Analyzing indicators for the first and second half, some tendencies are shown. 1. The number of short passes forward in the second half increases, but the number of short passes across and back decreases. 2. The quantity of outplay of rivals in the second half increases. 3. The number of performance of corner increases in the second half. However all these changes are not reliable and indicate only tendencies which need to consider during correction of the educational-training process. It is necessary to specify among reliable changes that the number of rebounds of the team "Helios" of Kharkiv in

Table 1

Indicators of TTA of the team "Helios" of Kharkiv for the 25th championship of Ukraine on football (n=16)

№	Technical-tactical actions	1 half	2 half	t	p	1+2
		$\bar{X} \pm m$				
1.	Shoot for goal	48,75±1,7	45,75±2,47	1,0	p>0,05	94,5±3,62
	Coef. of def., %	19,59±1,04	17,26±1,58	1,23	p>0,05	18,26±0,81
2.	Passes by foot forward (short)	98,75±3,51	106,62±4,93	1,3	p>0,05	205,37±7,33
	Coef. of def., %	35,46±2,91	33,25±1,67	0,65	p>0,05	34,22±2,07
3.	Passes by foot back and across (short)	69,5±6,18	63,0±5,39	0,79	p>0,05	132,81±10,67
	Coef. of def., %	12,1±1,47	10,56±1,92	0,63	p>0,05	11,28±1,24
4.	Passes by foot forward (long)	26,87±1,04	26,0±1,78	0,42	p>0,05	52,62±2,12
	Coef. of def., %	69,73±2,15	73,33±2,33	1,13	p>0,05	71,37±1,65
5.	Passes by foot back and across (long)	3,46±0,46	4,06±0,62	0,77	p>0,05	7,31±0,76
	Coef. of def., %	66,06±8,05	62,11±8,25	0,34	p>0,05	65,8±5,78
6.	Heading the ball (fight above)	25,18±1,65	24,06±1,39	0,52	p>0,05	48,68±2,24
	Coef. of def., %	43,51±2,6	47,05±2,81	0,92	p>0,05	45,61±1,7
7.	Outplay	11,62±1,15	14,5±1,32	1,65	p>0,05	26,25±1,88
	Coef. of def., %	45,89±3,37	44,76±2,43	0,27	p>0,05	45,68±2,02
8.	Rebounds	16,81±1,36	11,5±1,22	2,91	<b>p&lt;0,01</b>	28,31±2,29
	Coef. of def., %	27,61±3,21	29,07±2,73	0,34	p>0,05	28,62±1,78
9.	Tackles	22,56±1,81	20,75±1,78	0,71	p>0,05	44,06±3,09
	Coef. of def., %	58,96±2,27	49,5±3,37	2,33	<b>p&lt;0,05</b>	54,3±1,84
10.	Shoot for goal by foot	4,0±0,58	5,31±0,64	1,52	p>0,05	9,31±0,81
	Coef. of def., %	48,32±6,75	51,42±4,99	0,37	p>0,05	50,16±4,2
11.	Shoot for goal by head	1,6±0,26	1,69±0,34	0,22	p>0,05	2,53±0,35
	Coef. of def., %	64,99±13,25	46,91±12,15	1,0	p>0,05	61,65±8,36
12.	Penalty kicks	–	1	–	–	1
	Coef. of def., %	–	100	–	–	100
13.	Free kicks in the attacking zone	1,75±0,25	2,3±0,3	1,44	p>0,05	3,18±0,43
	Coef. of def., %	76,38±10,55	51,9±11,0	1,6	p>0,05	63,0±8,71
14.	Corner	3,68±0,48	4,66±1,23	0,74	p>0,05	6,93±0,82
	Coef. of def., %	65,55±7,98	74,14±8,57	0,73	p>0,05	67,72±6,01
15.	Ball throw in from the sideline	16,06±1,19	16,56±1,09	0,31	p>0,05	32,62±1,85
	Coef. of def., %	20,25±3,95	21,4±2,97	0,23	p>0,05	20,58±2,86
16.	Total TTA for the half (game)	349,37±9,18	345,62±12,09	0,24	p>0,05	695,0±19,07
17.	Efficiency factor, %	66,58±1,32	67,12±1,24	0,29	p>0,05	66,9±1,09
18.	Coefficient of defect, %	33,41±1,32	32,87±1,24	0,29	p>0,05	33,1±1,09

the second half decreases ( $t=2,91$ ;  $p<0,01$ ). The defect coefficient at performance by players of tackle of the ball at rivals decreases (improves) ( $t=2,33$ ;  $p<0,05$ ) in the second half.

It is necessary to consider in more detail separate characteristics of passes by players of the team "Helios" of Kharkiv. The total of passes for two halves averaged for the game was –  $398,37\pm 17,44$  (tab. 2).

The defect coefficient, when performing passes for two halves, has made  $32,26\pm 1,89\%$ . The players of the team "Helios" performed on average  $198,37\pm 9,07$  passes for first half, at the same time the coefficient of defect was  $32,58\pm 2,38\%$ . Football players performed  $200,0\pm 9,9$  passes in the second half, with the defect coefficient when performing  $32,22\pm 1,83\%$ .

The defect coefficient when performing short and half-way passes forward –  $34,22\pm 2,07\%$ , and when performing long balls forward, the defect made  $71,15\pm 1,68\%$ . The number of passes (short, half-way and long) forward on average for game –  $258,25\pm 7,48$ , with the defect coefficient when performing  $41,64\pm 1,82\%$ .

The number of passes (short, half-way and long) back and across –  $140,75\pm 11,13$ , with the defect coefficient –  $14,63\pm 1,29\%$ .

The percentage ratio of number of passes in total of techni-

cal-tactical actions makes  $56,91\pm 1,11\%$ .

The most active (who had the maximum number of technical-tactical actions) team players of the team "Helios" of Kharkiv were defined by the results of each game. The greatest individual indicators of average number of technical-tactical actions for the game by certain team players of the team "Helios" of Kharkiv –  $90,0\pm 4,14$ , at the same time the coefficient of defect made –  $30,34\pm 1,51\%$ .

Indicators of attacking and defensive actions of the team "Helios" are displayed for the 25th championship of Ukraine on football in table 3.

The attacking actions were divided into fast and position attacks during registration of (tab. 4).

The indicators of the interrupted attacks of the team "Helios" (tab. 5) were also registered by experts.

Average values of efficiency of the attacking actions of the team "Helios" were defined (tab. 6).

## Conclusions

1. The number of short passes forward, outplays of rivals and corner increases in the second half, but the number of short passes across and back decreases. The defect coefficient

**Table 2**  
Indicator of total of passes for the first and second halves of team players the team "Helios" of Kharkiv (n=16)

No	Passes	1 half	2 half	t	p	1+2
				$\bar{X}\pm m$		
1.	Total of passes	$198,37\pm 9,07$	$200,0\pm 9,9$	0,12	$p>0,05$	$398,37\pm 17,44$
	Coef. of defect, %	$32,58\pm 2,38$	$32,22\pm 1,83$	0,12	$p>0,05$	$32,26\pm 1,89$

**Table 3**  
Attacking and defensive technical-tactical actions of the team "Helios" of Kharkiv for the 25th championship of Ukraine on football in the first league on average for the game (n=16)

No	Indicators of technical-tactical activity	$\bar{X}\pm m$
1.	Number of attacks of the team	Successful $22,0\pm 1,61$
		Broken $131,62\pm 4,55$
		Total $153,62\pm 5,04$
2.	Efficiency of attacking actions, %	$14,5\pm 1,01$
3.	Efficiency of defensive actions, %	$90,31\pm 0,69$
4.	Number of attacks of the team of the rival	Successful $13,68\pm 1,11$
		Broken $125,68\pm 3,68$
		Total $139,37\pm 4,08$
5.	Efficiency of attacking actions, %	$9,9\pm 0,64$
6.	Efficiency of defensive actions, %	$85,91\pm 1,06$
7.	The number of the getting attacks of the whole team	Successful $22,0\pm 1,61$
		Broken $63,12\pm 3,12$
		Total $85,12\pm 4,02$
8.	Efficiency of attacking actions, %	$25,83\pm 1,42$
9.	Efficiency of defensive actions, %	$80,39\pm 1,63$
10.	The number of the getting attacks of team of the rival	Successful $13,68\pm 1,11$
		Broken $58,43\pm 5,25$
		Total $72,12\pm 5,57$
11.	Efficiency of attacking actions, %	$19,81\pm 1,56$
12.	Efficiency of defensive actions, %	$74,37\pm 1,45$

Table 4

Indicator of the fast and position attacks of the team “Helios” and their efficiency for the 25th championship of Ukraine on football in the first league in 2015 (n=16),  $\bar{X} \pm m$

Total	Fast attacks			Position attacks		
	Number	% among all attacks	Effectiveness, %	Number	% among all attacks	Effectiveness, %
153,62±5,04	115,56±5,73	75,22±2,86	13,15±1,04	33,68±3,51	21,61±2,17	20,57±3,21

Table 5

Indicators of the interrupted attacks of the team “Helios” in different zones of the football pitch of % (n=16)

Zones of football pitch	Defenses	Half-way $\bar{X} \pm m$	Attacks
The percentage breakdown of attacks	5,8±0,63	43,01±2,05	43,1±2,15

Table 6

Indicators of efficiency of the attacking actions of the football team “Helios” (n=16),  $\bar{X} \pm m$

Quantity of attacking actions	Number of shoots for goal of the rival	The attitude of number of shoots for goal towards the number of the attacking actions, %	Number of scored balls	The attitude of quantity of the scored goals towards the number of the attacking actions, %
153,62±5,04	11,68±0,79	15,82±8,24	1,25±0,25	1,09±0,3

at rebounds decreases in the second half. However all these changes are not reliable and indicate only tendencies which need to consider during correction of the educational-training process.

2. The number of rebounds of the team “Helios” of Kharkiv decreases in the second half ( $t=2,91$ ;  $p<0,01$ ). The defect coefficient at performance by players of tackle of the ball at rivals decreases (improves) in the second half ( $t=2,33$ ;  $p<0,05$ ).

3. The greatest individual indicators of average number of technical-tactical actions for the game by certain team players of the team “Helios” of Kharkiv –  $90,0 \pm 4,14$ , at the same time the coefficient of defect made –  $30,34 \pm 1,51\%$ .

4. The result of indicators on football for the 25th championship of Ukraine will allow receiving more reliable conclusions for the correction of the educational-training process of the team of the first league of the Ukrainian football.

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