THE PRESENCE AND CHARACTERISTIC OF LOGICAL-SEMANTIC, HEURISTIC, TACTICAL AND TECHNICAL ACTIONS AND OPERATIONS IN RESOLVING THE PROBLEMATIC PLAYING SITUATIONS OF HANDBALL PLAYERS DURING THE OFFENSE

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Abstract

Scope and objective of this research is the presence and characteristics of heuristic, tactical and technical actions and operations of handball players in resolving the problematic playing situations during the offence at the B&H Handball Premier League official matches. Presence and analysis of the characteristics of heuristic, tactical and technical actions and the operations of handball players in resolving problematic playing situations was conducted based on four videotaped games of the regular Premier League and four handball teams. The study included 71 handball player of the B&H Premier League. The values derived variables defined problematic playing situations, tactical and technical actions and operations of handball players during the offense (positive and negative impact) at the match. B&H Premier League have produced ratings of their importance for success in the game (valued curve gradual scale based on expert ratings) and tracked the incidence of actual handball players' play during four of the matches. The first part of research focused on determining the general structure of motor composition variables which defined aspects of resolving the problematic situations, tactical-technical actions and operations of handball players during the offense, it is important for the effectiveness of individual and cooperative playing to resolve the problematic situations. With multiple analysis of variance of variables defined aspects of handball players problematic playing situations, confirmed the appropriateness of their choices, which may introduce taxonomic alignment statistical significance for handball players by the type of cluster groups, team affiliation and position in the team.

Key words: men, phenomenological insight, playing tactical and technical experience.

INTRODUCTION

Quality of team sports games (handball) is playing freedom of the players in order to achieve selfrealization, and an amazing spontaneous intuitive creative expression of individuality, and finding of the the most effective playing solutions.

Another aspect of team sports games is a tactical organizational surrendering of individual style to fit the set tactical-strategic concept of operations in the game. The team is treated as derived hierarchical level of team's creative activity in reaching the result which sometimes comes at the cost of limiting expressive creative player's game. But as a rational goal, calculation and tactics are the main characteristics of team play, and these two aspects of handball game team sports complementary and, their interrelations are a measure of team effectiveness. Essential step to deepen individuality of player is to win games as a semantic space of reflexive thinking and cooperative semantic closeness with his team mates in the form of active intersubjective playing dialogue (Dementriev, 1990:57).

Tactical-technical actions and operations are processes subjected to the intentional goals. They are carried out through sensibly-sensory, project-meaningful and emotionally -evaluating components in finding solutions for problematic playing situations and motor- effectors mechanism of structuring their composition. Tactical-technical actions, and operations as playing operations in handball has its intentional aspect (what should be

achieved) and its operational aspect (which way it should be achieved), which are not determined by the order, but the objective conditions of the subject of his reach. Playing actions and operations have a different project, different dynamics and Tactical-technical different flow phenomena. actions are processes which subjects the cognitive goals. In the end, these are operations that directly depend on the conditions to achieve a particular goal (Mikic, 2006). Investigation of the presence and personality logic - semantic heuristic tactical and technical action and operations of handball players during the offense, in this paper implies a clear conceptual definition of their handball operations during the offense which in this paper, clearly implies their concept defining the underlying activities that reflect the situational aspect of intentional activities and motivation of the subject. The basic components of the underlying activities are movement actions and operations.

Movement actions are cognitive processes subjected to the goals. Along with the motor effectors mechanism involving cognitive, meaningful project-and emotional-appraisal components aimed at achieving value effects (Ponomarev, 1990). Operations are ways of achieving effects of motion; Movement action refers to a submitted task and operation conditions to achieve the effect. In doing so, the goal remains the same and the conditions in which it was given are changing. With that it consequently changes the composition of the operational activities. (Leonti, 1977). On the basis of structuring tactical and technical actions and operations for resolving the problematic playing situations perceived as individual features: Reflexive semantic structure prediction meaningful tactical and technical operations in rival handball team in order to develop tactical and technical and operational solutions and neutralizing their effects. Semantic reflexivity cooperative operations with its handball team. Phenomenological insight, via taped games, tactical and technical actions and operations of handball players in solving the defined forms in problematic playing situations during official matches, the focus is on individual logical-semantic heuristic playing and their actions to resolve the problematic situations of handball players on the basis of relationship to the development of creative individuality of their play. Deductive approach evaluated the degree and the accompanying emotional expression of problematic playing by overcoming critical situations and building on the performance characteristics achieved via creative playing experience.

With mechanisms of reflexive self-organizational, semantic-logic and semantic spontaneous creative solutions in problematic situations it is assumed that the field subliminally encoded elements of heuristic solution (thesaurus) for the new encoding and trans-coding of tactical and technical actions

and operations in handball players with resolving the problematic situation. From this point an attempt to achieve notion in relation to the handball players, playing experience, as a result of realized creative, intuitive solution type of playing.

The main goal of this research is determining the presence and personality logic – semantic, heuristic, tactical and technical actions and operations in handball players in resolving problematic playing situations during the offense at the regular competitions of BiH Handball Premier League.

METHODS

Presence and analysis of the characteristics heuristic tactical and technical actions and operations in order to resolve the handball players problematic playing situations was conducted on the basis of tapes of the four regular games BiH Premier League, four club teams of players. This research included 71 handball players of the BiH Premier League. The sample derived variables defined aspects of problematic playing situations, tactical and technical actions and operations of handball players during the offense (positive and negative effects) during the B&H Premier League matches was performed and presented on the basis of expert assessment of their importance for success to include:

- Positive effects

SUGORGOD	Shot goal against an organized defense	5.0
SUTGO6M	Shot-goal in motion from a distance of 6 meters	4.5
SUTGOL6M	Shot goal from a distance of 6 meters	4.8
SUGOLSB7	Shot goal from a distance of 7 meters, the free-throw	3.8
SUGOL9M	Shot goal from a distance of 9 meters	5.0
PARAVAS	Cover during the successful attack / for cover	2.2
PREULDU	Ball take-over in a duel / take-over	2.2
ODVPROIG	Removal of the player in the opposing team	2.2
VARKAS	Faking striker player	1.5
PADOVAS	Falls of a striker player	1.5
KRETANAS	Movement of the player during the offense	1.5
DODAVAS	Passing ball between players during the offense	.5

- Negative effects

SUBGOIL	Shot at goal, the goalkeeper did not catch the ball, ball remains in possession of the team	1.5
SUBGOZL	Shot at goal without scoring, the opposing team takes the ball	2.2
SUBGO6-8	Shot at goal without a goal from 6 to 8 meters, without interference by the opponent during the offence movement	4.8
NERSEDM	Unrealized penalty	5.0
IZGLOPTA	Error, lost ball due to players fault	4.2

Processing data in this research was conducted with the application of:

- Descriptive statistical methods of determining the central and dispersion parameters of the variables defined by variable types of problematic playing situations, tactical-technical actions and operations handball in attack.
- Multiple variance analysis for determining the significance of differences among groups classified by handball match criteria based on defined variables of problematic aspects of playing situations, and for determining their taxonomic significance.

- Hierarchical cluster analysis for determining the presence of typical group of handball players according to relatedness of the defined problematic playing aspects of playing situations.
- Individual and group profiles of the phenomenological features into the insight of logical-semantic heuristic tactical and technical actions and operations of handball players during the offense, in resolving the defined variables problematic aspects of playing situations.

RESULTS AND DISCUSSION

Hierarchy cluster analysis, method by Ward, handball players were divided into four taxonomic groups according to the values of variables defined aspects of the problematic playing situations, tactical-technical actions and operations of handball players during the offense. The first divided taxonomic group consisted of 10 handball players, the second taxonomic group consisted of 26 players, the third taxonomic group consisted of 28 players and fourth taxonomic group of seven players. The first and the second taxonomic group of handball players has a kindred form of structure variables of defined problematic situations and opposed to the third and fourth taxonomic group with reversal structure.

Descriptive statistical parameters with environment and variance derived summary variables defined aspects of the problematic playing situations, tactical-technical actions and operations of handball players and its positive and negative effects during the offense are shown in table 1.

Table 1.

Descriptive statistical parameters with environment and variance derived summary variables defined aspects of the problematic playing situations, tactical-technical actions and operations of handball players and its positive and negative effects during the offense

Variable	Mean	Std Dev	Minimum	Maximum	N
NAPADPLU	27.62	22.88	.00	79.40	71
NAPADMIN	7.23	7.12	.00	33.35	71

Average ratio values define the variables of problematic playing situations according to the tactical - technical actions and operations of handball players during the offense with positive effects (NAPADPLU) the average value of defined variable to resolve the problematic playing situations according to the tactical-technical actions and the operations of handball player during the offense, with negative effects (NAPADMIN) is proportional 79.26% to 20.75%.

By applying the method of multiple variance analysis determined significant difference by defined types of variables to solve the problematic playing situations tactical-technical actions and the operations of positive and negative effects of the attacking handball players grouped by affiliation to their isolated taxonomic groups. The results of multivariate and univariate analysis are shown in table 2.

Tabela 2.

The results of multiple and univariate analysis of variable defined types of problematic playing situations according to the tactical - technical actions and operations of positive and negative effects of handball players during the offence which were grouped according to their membership in separate taxonomic groups

EFFECTS .. GROUPED ACCORDING TO THEIR MEMBERSHIP IN SEPARATE TAXONOMIC GROUPS / 4 TAXONOMIC GROUPS / I klaster N = 10, II klaster N = 26, III klaster N = 28, IV klaster N = 7

Multivariate Tests of Significance (S = 3, M = 10 ", N = 20 ")

Test Name	Value Approx.	F Hypoth.	DF	Error DF	Sig. Of F
Pillais	2.73424	18.51939	75.00	135.00	.000
Hotellings	56.23703	31.24279	75.00	125.00	.000
Wilks	.00033	23.41413	75.00	129.41	.000
Roys	.97612				

Univariate F-tests with (3,67) D. F.

OFFENSE - positive effects:

OTTENSE POSITIVE	circus.					
Variable	Hypoth. SS	Error SS	Hypoth. MS	Error MS	${f F}$	Sig. Of F
SUTGORGOD	174.65149	964.08090	58.21716	14.38927	4.04587	.011
PARAVAS	5491.87853	263.78322	1830.62618	3.93706	464.97254	.000
SUGOL9M	456.10304	1963.61527	152.03435	29.30769	5.18752	.003
PREULDU	1702.31434	945.79742	567.43811	14.11638	40.19714	.000
ODVPRIIR	3312.08868	2837.82602	1104.02956	42.35561	26.06572	.000
VARKAS	120.48571	107.40058	40.16190	1.60299	25.05431	.000
DODAVAS	447.03319	296.61438	149.01106	4.42708	33.65899	.000

OFFENSE – negative effects:

Variable	Hypoth. SS	Error SS	Hypoth. MS	Error MS	\mathbf{F}	Sig. Of F
SUBGOIL	98.42255	243.69406	32.80752	3.63722	9.01993	.000
SUBGOZL	15.95739	61.31585	5.31913	.91516	5.81223	.001
SUBGO68	286.92610	382.60176	95.64203	5.71047	16.74853	.000
IZGLOPTA	367.27059	787.01420	122.42353	11.74648	10.42215	.000

Multiple variance analysis was applied for determining the significance of the difference variables defined aspects of resolving the problematic playing situations according to the tactical-technical actions and the operations of

positive and negative effects of handball players during the offense based on their team affiliation. Results of univariate and multivariate analysis are shown in Table 3.

Table 3

Results of univariate and multivariate analysis Multiple variance analysis for determining the significance of the difference variables defined aspects of resolving the problematic playing situations according to the tactical-technical actions and the operations of positive and negative effects of handball players during the offense based on their team affiliation

EFFEKT .. KLASSIFICATION ABY TEAM AFFILIATION / 4 TEAM/

I TEAM N=23, II TEAM N=17, III TEAM N=19, IV TEAM N=12Multivariate Tests of Significance (S=3, $\underline{M}=10$ 1/2, N=20 1/2)

Test Name	Value Approx.	F Hypoth.	DF	Error DF	Sig. of F
Pillais	1.74141	2.49052	75.00	135.00	.000
Hotellings	4.66673	2.59263	75.00	125.00	.000
Wilks	.06671	2.54270	75.00	129.41	.000
Roys	.71420				

Univariate F-tests with (3,67) D. F.

OFFENSE - positive effects:

Variable	Hypoth. SS	Error SS	Hypoth. MS	Error MS	\mathbf{F}	Sig. of F
PREULDU	1377.54835	1270.56341	459.18278	18.96363	24.21386	.000
ODVPRIIR	2228.86276	3921.05194	742.95425	58.52316	12.69505	.000
VARKAS	41.46758	186.41871	13.82253	2.78237	4.96790	.004
PADOVAS	.44003	3.34407	.14668	.04991	2.93871	.039
DODAVAS	217.75812	525.88945	72.58604	7.84910	9.24769	.000

OFFENSE – negative effects:

Variable	Hypoth. SS	Error SS	Hypoth. MS	Error MS	F	Sig. of F
SUBGOIL	14.21680	63.05644	4.73893	.94114	5.03531	.003
IZGLOPTA	72.04682	270.06979	24.01561	4.03089	5.95789	.001

The method of multivariate analysis of variance was applied for determining the significance of the difference derived variable aspects of resolving the problematic playing situations, tactical-technical actions and the operations of positive and negative

effects of handball player during the offense and according to the handball players position in the team. Results of the multivariate and univariate analysis are shown in Table 4.

Table 4

The results of multiple and univariate analysis of variable defined aspects of resolving the problematic playing situations, tactical-technical actions and the operations of positive and negative effects of the handball players during the offense according to their position in the team

EFFECTS .. BELONGING TO APLACE IN THE TEAM

I Pozicija N = 11	II Pozicija N = 12	III Pozicija N = 11
IV Pozicija N = 11	V Pozicija N = 13	VI Pozicija = 11

Multivariate Tests of Significance (S = 5, M = 9 1/2, N = 18 1/2)

Test Name	Value Approx.	F Hypoth.	\mathbf{DF}	Error DF	Sig. of F
Pillais	2.59477	1.85554	125.00	215.00	.000
Hotellings	8.20436	2.45474	125.00	187.00	.000
Wilks	.01459	2.14331	125.00	196.87	.000
Roys	.80067				

Univariate F-tests with (5,63) D. F.

OFFENSE - positive effects:

Variable	Hypoth. SS	Error SS	Hypoth. MS	Error MS	\mathbf{F}	Sig. of F
PARAVAS	3418.82427	2314.90189	683.76485	36.74447	18.60864	.000
SUGOL9M	712.54497	1681.65793	142.50899	26.69298	5.33882	.000
VARKAS	89.65683	134.36923	17.93137	2.13284	8.40725	.000
DODAVAS	250.31546	476.96958	50.06309	7.57095	6.61253	.000

OFFENSE - negative effects:

Variable	Hypoth. SS	Error SS	Hypoth. MS	Error MS	\mathbf{F}	Sig. of F
IZGLOPTQ	157.07360	980.33800	31.41472	15.56092	2.01882	.088

With the method of multiple variance analysis of variables defined aspects of handball players problematic playing situations, confirmed the appropriateness of their choices and their taxonomic classification statistical significance for classification of the handball players by their cluster groups, the team affiliation and their position in the team.

The practical value of presenting the profiles of individual and team handball players success rate, the frequency and types of failures, of the solutions defined through problematic playing situations, the team affiliation and the position in the team is of particular importance. It represent an objective starting point for a comparative analysis of the frequency profile of success and failures and of the solutions defined aspects of the problematic playing solutions in the domestic players and the team as a whole, with profiles of success and failure frequency, solutions defined

aspects of handball players problematic playing specific situation of the opposing team and the position of the player on the team in order to achieve tactical and strategic effects. The methodology of presenting individual profiles of handball players to the values of variables in the defined aspects of handball players problematic playing situations, as the unit of analysis of the effectiveness of implemented operational structure of tactical and technical actions and operations of handball player, is accepted as an objective basis for the phenomenological observation (via videogames tapes) of the characteristics of logicalsemantic heuristic tactical technical actions and operations of handball player achieved during the offense. The attempt to use parallel deductive approach to obtain more complete insight into: playing experience, degree of the achieved individuality, heuristic and creative finding of solutions for the problematic playing situations during the extreme conditions of competitive fight.

Table 5

Individual and team profile defined types of variables of handball players problematic playing situations of the first taxonomic group - phenomenological insight into the characteristics of logical-semantic heuristic tactical and technical actions and operations

OFFENSE - positive effects:

BROJ		MJESTO	SUTGORGO	SUTGOLS7	PARAVAS	SUGOL9	PREULDU	ODVPRIG	VARKAS	PADOVAS	DODAVAS
1	1	1	10.0	.0	.0	.0	.0	.0	.0	.0	.4
2	1	2	5.0	.0	.0	.0	.0	.0	.0	.0	.0
3	1	3	5.0	.0	.0	.0	.0	.0	.0	.0	5.3
4	1	4	.0	7.6	.0	20.0	.0	.0	1.8	.0	1.8
5	1	5	15.0	3.8	.0	5.0	.0	.0	1.3	.0	.9
6	1	6	10.0	.0	1.9	.0	.0	.0	.0	.0	.0
26	2	3	.0	.0	.0	10.0	.0	.0	1.8	.0	1.8
28	2	5	.0	.0	.0	.0	.0	.0	3.1	.0	1.8
29	2	6	5.0	.0	.0	.0	.0	.0	.4	.8	.4

OFFENSE – negative effects:

BROJ	TIM	MJESTO	SUBGOIL	SUBGOZL	SUBGO68	NERSEDM	IZGLOPTA
1	1	1	3.2	.0	.0	.0	.0
2	1	2	2.1	.0	15.2	.0	5.7
3	1	3	.0	.0	.0	.0	7.6
4	1	4	2.1	.0	11.4	.0	5.7
5	1	5	3.2	.0	7.6	.0	9.5
6	1	6	.0	.0	3.8	.0	11.4
26	2	3	1.1	.0	15.2	.0	17.1
28	2	5	2.1	.0	3.8	.0	3.8
29	2	6	.0	.0	.0	.0	3.8

Phenomenological insight gives the preconditions for a case study of players and teams on the achieved quality of their playing movement intelligence and heuristic intuitive solutions for problematic situations with regard to the level of reflexive self organizations and other important indicators of heuristics (visual-movement opinion, the semantics of body movements, the degree of emotional experiencing). The purpose is to recognize what is woven from the knowledge, personally experienced, which contain playing heuristic subconscious experience, which are the questions that need finding of their own answers. The general conclusion is that the deduction of their own cognitive-transforming activity, phenomenological insights generated solutions for the problematic playing situations, handball players' emotionally experience visually successful and unsuccessful solutions for the problematic situations and through reflection can evaluate implemented solutions as expressed level of freedom through playing creativity. For the development playing movement creativity pure introspection and self-analysis are not sufficient. It is important to understanding the mechanisms of individual characteristics psycho-semantics of motion control actions through phenomenological insight of semantics interrelations and formal components of finding a solution for problematic situations (Dimitrijev, 2005:48). counts for one handball player, does not apply to the other, with a different psychological structure, tactical-technical and operating knowledge and experience of finding playing solutions for the problematic playing situations.

CONCLUSION

In addressing the problematic solutions handball players meet with the internal knowledge for transforming experiential performances. Particular importance has development of their semantic perceptual knowledge about the nature of mental processes and characteristics of logical-semantic heuristic tactical and technical actions, and operations. The results show differences in the dynamics of the relationship logic (algorithmic) and heuristic (creative) component in solving the handball players problematic playing situations.

With phenomenological insight it has been observed that the solution of the same handball players problematic playing situations and same types of situations (the unit of analysis) is expressed in varied successful solutions, fullness of detail and expressiveness of operations activities. It can be said that when shown types of problematic playing situations " it questions" and "provokes heuristic response," and that the characteristic of creative games are indecisions and the absence of rules. Particular importance is the expansion of theoretical knowledge about psychic mental processes and characteristics of logical-semantic heuristic tactical and technical actions and operations in order to resolve the problematic playing situations. The practical value of presenting the profiles of individual and team handball players according to the frequency of success and failures of the solutions defined in problematic aspects of playing situations, the affiliation team and the position in the team is of the particular importance. It represent an objective starting point for a comparative analysis of the frequency by profiling success and failures of the solutions defined through aspects of the problematic playing situations in domestic players and the team as a whole, with profiles of success and failure frequency solutions defining aspects problematic playing situations of handball players dependant on specific rival teams and place the player on the team in order to achieve tactical and strategic effects.

Ability to have complete insight into the essential elements of the problematic situation is formed fast and it is reliable when handball players use individual elaborated on the new basis of perceptual and conceptual semantic shaped signal construct. With content-heuristic aspect perception of the problematic situation semantics includes psychosomatic sensory impressions, opinions and visually movement spontaneous subconscious complex solutions. Phenomenological i insight into resolving the problematic playing solutions tacticaltechnical actions, operations and realized the logic and routing though perceptive-heuristic players' intuition. Their relationship conforms to the selforganizing factor in perceiving individual and team creativity in handball games competition, a kind of

method of "semantic experiment logical-semantic aspects of the decision heuristic problematic playing situations" that meet the requirements of performance and knowledge of handball players in

line with the individual characteristics of operational tactical - technical actions and operations to in order to overcome problematic playing situations.

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PRISUTNOST I OSOBENOST LOGIČKO - SEMANTIČKE EURISTIČNOSTI TAKTIČKO-TEHNIČKIH DEJSTAVA I OPERACIJA PRI RJEŠAVANJU IGROVNIH PROBLEMNIH SITUACIJA RUKOMETAŠA U TOKU NAPADU

Orginalni naučni rad

Sažetak

Predmet i cilj istraživanja u ovom radu je prisutnost i osobenosti eurističnosti taktičko-tehničkih dejstava i operacija rukometaša pri rješavanju igrovnih problemnih situacija u napadu na oficijelnim utakmicama Premijer rukometne lige B i H. Prisutnost i analiza osobenosti eurističnosti taktičko-tehničkih dejstava i operacija rukometaša u rješavanju igrovnih problemnim situacijama provedena je na osnovu videozapisa četiri regularne utakmice Premijer lige, četiri klupske ekipe rukometaša. Istraživanjem je obuhvačen 71 rukometaš Prmijer lige B i H. Vrijednosti izvedenih varijabli definisanih igrovnih problemskih situacija taktičo-tehničkih djestava i operacija rukometaša u napadu (pozitivni i negativni efekti) na utakmicama Premijer lige BiH su proizvodi ocjene njihovog značenja za uspijeh u igri (vrijednovani krivom petostepene skale na osnovu ekspertne ocjene) i evidentirane učestalosti ostvarenih igrom rukometaša u toku četiri analizirane utakmice. Prvi dio istraživanja usmjeren je na utvrđivanje opšte struktuiranosti motoričkog sastava varijabli definisanih vidova rješavanja problemnih situacija taktičko-tehničkim dejstavima i operacijama rukometaša u toku napada, od značaja za efikasnost individualnih i kooperativnih rješavanja igrovnih problemnih situacija. Metodom višestruke analize varijance varijabli definisanih vidova igrovnih problemnih situacija rukometaša, potvrđena je prikladnost njihovog izbora i njihova taksonomska statistička značajnost za svrstavanja rukometaša po tipskim klaster skupinama, prema pripadnosti timu i mjestu u timu. Praktična vrijednost prezentovanja individualnih i timskih profila rukometaša prema učestalosti uspješnosti i neuspešnosti rješenja definisanim vidova igrovnih problemnih situacija, prema pripadnosti timu i mjesta u timu od posebnog je značaja. Predstavljaju objektivno polazište za uporednu analizu profila učestalosti uspješnosti i neuspešnosti rješenja definisanim vidova igrovnih problemnih situacija domaćih igrača i tima u cjelini, sa profilima učestalosti uspješnosti i neuspešnosti rješenja definisanim vidova igrovnih problemnih situacija rukometaša konkretnog protivničkog tima i mjestima igrača u timu u svrhu ostvarivanja taktičkih i strateških efekata. Fenomenološkim uvidom u taktičko-tehnička dejstva i operacije rukometaša pri rješavanju igrovnih problemnih situacija ostvarena je predstava o prirodnom putu prilazu svojoj individualnosti.

Ključne riječi:, muškarci, fenomenološki uvid, igrovno taktičko-tehničko iskusto.

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