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Analysis of tactics factors predominant towards the success of teams in pro Kabaddi season-seven

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Abstract

The purpose of the study was to determine the Analysis of Tactics skills factors predominant towards the success of team in Pro Kabaddi season seven. The teams were selected from Pro Kabaddi season- seven. Twelve city teams play the game at home and away basis selecting players from twelve countries. Each team played on double league 22 matches. Based on the league points first six teams qualify for playoffs. The playoffs, semifinals and final matches are played on knock out basis. It is played in the month of July to September. The pro Kabaddi league season- seven tournament was taken into consideration for the present study. The winner, runner, third place and fourth place teams were selected for the study as independent variables. It includes the winner Bengal Warriors, runner Dabang Delhi, third place U Mumbai and fourth place Bengaluru Bulls. The dependent variables selected for the study the six variables namely successful raid with bonus, unsuccessful raid with bonus, successful raid with pursuit, unsuccessful raid with pursuit, successful anti with super tackle and unsuccessful anti with super tackle were under the head tactical overview. Recorded video tapes were used to analyze the variables. Three expert coaches along with the investigator sat in front of the television and analyzed the variables one by one by using hand coded sheet with slow motion replay whenever necessary. Data were collected for defensive skill for bonus, pursuit and super tackle similar procedures were used for all the 137 matches in order to collect data. The data collected from the 137 matches were analyzed by using Chi-Square analysis technique to assess the team performance in the pro Kabaddi league season seven tournaments. The level of significance was fixed at 0.05 level of confidence. The results of the study have shown that the successful raid with bonus and successful anti with super tackle showed significant difference among the top four teams. An analysis to tactical overview reveals that the selected variables such as bonus and pursuit are significantly associated with team success.

Keywords: Successful, unsuccessful, bonus, pursuit, super tackle, inter cities, pro-Kabaddi

Introduction

Tactics means exploiting a given situation to one's advantage or creating a situation to suit one's purpose. In Kabaddi, the raider is the principal performer who can change the tempo of the game. Depending on the game situation, the raider may increase or decrease the tempo of the game. In order to do this he may adopt a passive raid or an aggressive raid by creating a situation for a struggle. Sometimes the raider may pass time in the last few minutes of the game, especially when his team is leading and the opponents are playing an aggressive game. All these are the tactics adopted by the raider keeping in view the game situation. Tactics and techniques go hand in hand for any successful raid.

The causes for success in sports games are from high interest for practitioners as well as for scientists. In order to improve the efficiency of training and competition, performance indicators have to be evaluated to assess individual and team performance [Hughes and Bartlett (2002)]^[4]. Besides the development of physical skills like strength, endurance or agility, the technical and especially the tactical abilities are of prime importance. Therefore, the analysis of tactics in team sports is an essential factor for success. In a review, Jonsson *et al.*, (2010)^[7], summarized the successful approaches in different types of sport where t-patterns were used. Such models of tactical behavior advanced the insight into sports games by including the interaction of players of a team. Team general tactics imply a constant interaction between attack and defense patterns [Maneiro and Amatria, (2018)]^[12].

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Although each style of play is relatively stable during different games or tactical situations, it has been shown how contextual variables as venue, quality of opposition and match status influence the use of styles of play in soccer match play [Fernandez-Navarro *et al.*, (2018)]^[12]. Therefore, a rational occupation of the strategic space is important, as well as knowing the rival's tactical behavior. Whenever there is an offensive transition, there is an antagonistic response from the opposing team, in the form of a defensive transition [Winter and Pfeiffer, (2015)]^[17].

In the analysis of sports performance, the application of computers for notational analysis enables the processing of a large amount of game elements [Hughes and Franks (2008)]^[5]. An early approach was to count specific actions, which can give a general overview about differences between players or teams and can reveal valuable information about the strengths and weaknesses [Shortridge *et al.*, (2014)]^[15]. However, the analysis of single actions can only give a superficial insight into the tactical behavior of teams. Therefore, the analysis of actions sequences, i.e. chains of sequential single actions which are fundamental in sports games, has been suggested by [Carling *et al.*, (2008)]^[11].

Team performance can be defined as “it is the objective or subjective judgment of team that how effectively a team can meet its valued objectives” (De Church & Mesmer - Magnus, 2010)^[9]. In order to ensure successful team performance, every individual of team must complete team goals assigned to them through their specialized expertise and skills while navigating team processes (Kozlowski & Bell, 2007)^[16]. According to De Matteo *et al.* (1998)^[6], empirical research on compensation methods in a team environment demonstrates that a compensation strategy helps in enhance men top team performance.

Methodology

The purpose of the study was to determine the Analysis of tactics factors predominant towards the success of team in pro Kabaddi leagues season seven. The teams were selected from pro Kabaddi leagues season- seven. It is one of the best tournaments for indigenous sports of Kabaddi. It attracted a large number of people and thereby reached a new level of professionalism. Twelve city team's they are Gujarat Fortunegiants, U Mumbai, Dabang Delhi, Puneri Paltan, Jaipur Pink Panthers and Haryana Steelers, Bengaluru Bulls, Bengal Warriors, UP Yoddhas, Patna Pirates, Telugu Titans and Tamil Thalaivas play game at home and away basis selecting

players from twelve countries.

The investigators referred various literatures, consulted with experts in the field of Kabaddi to identify ideal variables. Twelve teams participated in the pro Kabaddi leagues season-seven tournament. Each teams played 22 matches with other teams. Based on the league points first six teams were selected. Then these teams played playoffs, semifinals and final matches knock out basis. The zonal format has been done away with the play offs the top six team from the league overall based on their points which has already made the battle for qualification tougher than ever. The top two teams will now automatically make the semifinals, while the remaining four team battle it out in eliminators. Eliminators-1 round league rank-3 v/s league rank- 6. Eliminators-2 round league rank-4 v/s league rank- 5. Semifinal-1 league rank-1 v/s Winner of eliminators-1. Semifinal-2 league rank-2 v/s Winner of eliminators-2. Final match winner of semifinal-1 v/s winner of semifinal-2. The winner, runner, third and fourth place teams were selected for the study as independent variables. It includes winner Bengal Warriors, runner Dabang Delhi, third place U Mumbai and fourth place Bengaluru Bulls. The dependent variables selected for the study the six variables namely successful raid with bonus, unsuccessful raid with bonus, successful raid with pursuit, unsuccessful raid with pursuit, successful anti with super tackle and unsuccessful anti with super tackle were under the head tactical overview

Data were collected from the six teams which secured position in the pro Kabaddi league season seven matches in the month and year July to September 2019. All the each team 26 matches include 22 double league matches, playoffs, semifinals and final matches were recorded by the organizing committee. It was collected from them by the investigator for analysis. Recorded video tapes were used to analyze the variables. Three expert coaches along with the investigator sat in front of the television and analyzed the variables one by one by using hand coded sheet with slow motion replay whenever necessary. Data were collected for tactical skills overview. Similar procedures were used for all the 137 matches in order to collect data. The data collected from the 137 matches were analyzed by using Chi-Square analysis technique to assess the team performance in the pro Kabaddi league season – seven tournaments. The level of significance was fixed at 0.05 level of confidence.

Result of Study

Table 1: Chi - square analysis on successful raid and unsuccessful raid of Tactice skills in the matches of pro Kabaddi season seven tournament

Teams		Bengal Warriors	Dabang Delhi	U Mumbai	Bengaluru Bulls	Chi-square
Successful raid with bonus	Scores	64	58	42	40	8.23*
	%	31.37	28.43	20.43	19.60	
Unsuccessful raid with bonus	Scores	10	13	14	16	1.41
	%	18.86	24.52	26.41	30.18	
Successful anti with super tackle	Scores	18	15	8	6	8.23*
	%	38.29	31.91	17.02	12.76	
Unsuccessful anti with super tackle	Scores	8	7	5	7	0.70
	%	29.62	25.92	18.51	25.92	
Successful raid with pursuit	Scores	9	8	11	6	1.52
	%	26.47	23.52	32.35	17.64	
Unsuccessful raid with pursuit	Scores	5	5	7	6	0.47
	%	21.73	21.73	30.43	26.08	

*Significant at 0.05 level. Table value required for df 3, at 0.05 = 7.82

Show the total number of successful raid with bonus secured by the winner team Bengal Warriors, runner up team Dabang

Delhi, third place team U Mumbai and fourth place team Bengaluru Bulls were 64, 58, 42 and 40 respectively. It has

resulted with a Chisquare of 7.98. the total number of successful anti of super tackle secured by the winner team Bengal Warriors, runner up team Dabang Delhi, third place team U Mumbai and fourth place team Bengaluru Bulls were 18, 15, 8 and 6 respectively. It has resulted with a Chi-square of 8.23 and it was found to be statistically significant at .05 levels, since the table value required for significance for df 3 at .05 levels was 7.82.

Show the total number of successful raid with pursuit secured by the winner team Bengal Warriors, runner up team Dabang Delhi, third place team U Mumbai and fourth place team Bengaluru Bulls were 9, 8, 11 and 6 respectively. It has resulted with a Chi-square of 1.52 and it was found to be statistically significant at .05 levels, since the table value required for significance for 3 at .05 levels was 7.82.

The total number of unsuccessful raid with bonus secured by the winner team Bengal Warriors, runner up team Dabang Delhi, third place team U Mumbai and fourth place team Bengaluru Bulls were 10, 13, 14 and 16 respectively. It has resulted with a Chi-square of 1.41. The total number of unsuccessful raid with pursuit secured by the winner team Bengal Warriors, runner up team Dabang Delhi, third place team U Mumbai and fourth place team Bengaluru Bulls were 5, 5, 7 and 6 respectively. It has resulted with a Chi-square of 0.47. The total number of unsuccessful anti of super tackle secured by the winner team Bengal Warriors, runner up team Dabang Delhi, third place team U Mumbai and fourth place team Bengaluru Bulls were 8, 7, 5 and 7 respectively. It has resulted with a Chi-square of 0.70 and it was found to be statistically no significant at .05 levels, since the table value required for significance for 3 at .05 levels was 7.82.

Discussion of study

The tactics to be adopted must be in line with the abilities of the team and those of the opponents and should be possible to take the opponents by surprise. It is absolutely incorrect to adopt tactics which exceed the technical capacity of the players. A thorough knowledge of the advantage rule and can also be used in matches. Analyses of tactics adopted by the pro Kabaddi champion season four reveals that Patna Pirates player's performance appears generally exceptional. Successful and unsuccessful raid with bonus and successful and unsuccessful anti super tackle analysis has revealed that the champion team Patna Pirates recorded more percentage in successful raid with bonus and successful anti with super tackle and also less percentage in unsuccessful raid with bonus and unsuccessful anti with super tackle than the other three teams. It shows the better skill level, teamwork and team combination of players of the Patna Pirates. Among the only two significant variables of tactical overview, the winner team Patna Pirates was the best than the other three teams in two variables namely bonus and super tackle.

Lupo *et al.* (2010) ^[11] have shown that the competition level has a relevant impact on the occurrence of technical and tactical indicators. It has been found by the finding of Luhtanen p, *et al.* (2001) ^[10] that the average number of tackles was 134 per team in a match. The percentage of successful tackles was 47%. FIFA technical study has revealed that the average number of tackles made during the tournament was 30 per team per match. Higham *et al.* (2014) ^[3] note, reference values can assist in understanding variability in team performance, can aid coaches in establishing quantifiable objectives for training and performance, and can help when evaluating the efficacy of training interventions and tactical changes. However,

according to our knowledge, no study up to date has specifically analyzed the effectiveness of playing tactics to achieve offensive performance in this competition. Furthermore, contextual variables such as match location, match status and quality of opposition have been shown to influence the tactical performance and success of teams during competition [Fernandez-Navarro *et al.*, (2018)] ^[2]. Analysis (Passos *et al.*, 2011) ^[13] that can offer a more complex approach in the understanding of offensive effectiveness. Secondly, our study only included the analysis of four tactical dimensions. A previous investigation analyzing the tactical demand of tournament and seasonal games demonstrated 16% fewer fast break actions during tournament games and a longer mean duration of ball possessions [Klusemann, *et al.*, 2013] ^[8]. On the other hand, the study of Sarmiento *et al.* (2018) ^[14] found that fast attacks increased the success of an offensive sequence by 40% compared with combinative attacks in top European teams. These tactical findings suggest that both in a positional or a transitional scenario, building quick sequences with the intention of breaking opponent lines achieves higher degree of offensive success than an excessive passing combination or contrarily, excessive verticality by using long and direct balls.

Conclusion

The result of the study was that there would be a significant functional association between the team's success and the factors related to tactical overview. The results of the study indicated that two variables in tactical overview showed functional association between team success and failure. However, all the remaining variables did not contribute for the team success.

The results of the study have shown that the successful raid with bonus and successful anti with super tackle showed significant difference among the top four teams. Hence the investigator hypothesis was held true for these two variables. The result also have shown that the unsuccessful raid with bonus, successful raid with pursuit, unsuccessful raid with pursuit and unsuccessful anti with super tackle did not have significant difference was true for these variables. An analysis to tactical overview reveals that the selected variables such as bonus and pursuit are significantly associated with team success.

Pro-Kabaddi season six 2018 will see the teams compete in a caravan format, with teams divided into two zones of six teams each. Zone - A comprises of Gujarat Fortune giants, U Mumbai, Dabang Delhi, Puneri Paltan, Jaipur Pink Panthers and Haryana Steelers while Zone- B comprises of Bengaluru Bulls, Bengal Warriors, UP Yoddhas, Patna Pirates, Telugu Titans and Tamil Thalaivas. Top three teams from each zone will qualify for the playoffs. Qualifier-1 match for winner of A- zone team vs winner of B zone team, Eliminator- 1 match for second place of A-zone team v/s third Place of B-zone team, Eliminator- 2 match for third place of A-zone team v/s second Place of B-zone team, Eliminator-3 match for winner of eliminator-1 team v/s winner of eliminator- 2 team, Qualifier-2 match for loser of qualifier-1team v/s winner of eliminator-3 team, Final match for winner of qualifier-1team v/s winner of qualifier-2 team.

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