

A comparative study using an analytical program for the level of effectiveness of the attacking volleyball skill

A Descriptive Study On the Arab Mashreq Volleyball Championship in 2011

¹Asst. Lect. MOHANAD MUTHANNA JABER

Abstract

In light of the statistical treatments of the results that were conducted on the research sample, and after presenting, analyzing and discussing the results, the researcher reached The emergence of moral differences in the level of effectiveness of the skill performance of the attack skill in favor of the teams (Iraq - Lebanon - Syria) and the absence of moral differences in the level of effectiveness of the performance of the attack skill of the Palestinian team.

Keywords: *analytical, program, effectiveness, volleyball, skill*

Introduction

The increase in the development and excitement of the game of volleyball and the offensive skills that the global teams play raise the level of scientific and sports development and the excitement increases with what the attack skill plays in excitement and excitement for the masses and the beauty it gives to the game. Therefore, clubs and teams are mainly concerned with the level of effectiveness of this skill through the use of An analytical program with a calculator that reveals errors moment by moment and identifies all the events of the match and evaluates the performance of the competing teams in all skills, so the researcher decided to conduct a comparative study of the level of effectiveness of the performance of the attacking skill of the Arab volleyball teams using an analytical program for the purpose of revealing the strengths and weaknesses (Muhammad , 1986) .

The research problem :that the supremacy of sports teams, especially the world in the field of volleyball, relied on many reasons and factors that worked on the superiority of these teams, and through the researcher's follow-up of the matches of the Arab teams in the Arab League, he found that there is a weakness in the level of effectiveness of some offensive skills, including the attack There is a discrepancy between one team and another in this skill.

Research aims:

1. Identifying the level of effectiveness of the attacking skill of the Arab teams participating in the Arab Levant Championship, Syria 2011
2. A comparison of the level of effectiveness of the performance of the attacking skill of the Arab teams participating in the Arab Levant Championship, Syria 2011.

¹ Al-Iraqia University/College of Administration and Economics

Research areas:

1. The human field: the Arab teams participating in the 2011 Arab Mashreq Championship
2. The temporal domain: - The period from 7/13/2011 until 9/1/2011
3. Spatial domain: - Tishreen hall closed for sports - Syria - Damascus

Theoretical studies

Basic skills in volleyball Each of the sports has its own basic skills. Therefore, every player who plays any sports game must know its basic skills and master them to a large and high degree in order to facilitate the task of knowing the playing plans, whether offensive or defensive. ” (Said, 1985 The writer Aqeel defines basic skills as “making movements in a purposeful and economic manner to reach a high athletic level, while observing the law of the game” (Aqeel, 1979) . Basic volleyball skills mean “the movements that the player must perform in all situations required by the game to reach the best results with effort economy” (Muhammad, 1986).

Offensive skills in volleyball are divided into:

Attacking skill : It is one of the offensive skills that play a role in achieving victory, as it is considered the main skill through which the team gains the majority of its points and is the first weapon in achieving a point for its team, and it is one of the skills that need strength, speed and accuracy in its performance, which makes it difficult for the opposing team Executing his defensive plans, "as this skill takes a short time from the moment the ball is hit to its fall to the ground, which makes the defenders' chances weak to face it " (Akram , 1997), " All skills and plans become useless, suspense and enthusiastic if the attack does not end. The attack strengthens the players' self-confidence, proves the spirit of enthusiasm in them, and prompts the players to make a great effort and cooperate with colleagues to achieve victory ” (Saad, 1997).

Therefore, attack is one of the offensive skills that have a great impact on arousing the enthusiasm of the viewers, because it is the critical skill in gaining guaranteed points, if their performance is correct and puts the team in a good psychological position.

Statistical analysis by (computer) (Ali, 1999): This method is used in tournaments for the purpose of extracting the results of the team and in calculating the percentage of error for each player in addition to knowing the errors of the rotation, as well as in calculating the points and conducting the analysis by re-displaying the movement slowly and conducting the analysis for each type Of the types of skills.

Ali Mustafa Taha also mentions that this method depends on the use of the systems and information program for volleyball, and during the course of the match, the coach's assistant or the team's statistical analyst enters all the information and data that occurred directly on the field, and the coach can benefit from the data and results extracted at any time as he wishes between The half-time, time-out, or after the match.

Similar studies

An analytical comparative study of the performance of the Iraqi volleyball teams in light of selected international performance systems , the study aimed to:

- Comparison of the performance of the front teams in Iraq in light of the performance systems (Brazil, America, Japan).
- Developing the level of the game in Iraq by developing a proposed model for an Iraqi performance system commensurate with the capabilities of Iraqi players.

Research hypotheses: There are statistically significant differences between the teams of the research sample in the achievement of some components of the game, as well as the Iraqi teams not using modern methods of performance as is prevalent globally.

Research sample :club players (Al-Sinaa, Al-Karkh, Al-Bahri, Al-Jaish, Al-Salam, Al-Jawiya). The observation system was used by videotaping and then analyzing your performance.

From the results obtained, the researcher concluded the following:

Less use of attack vehicles and their distribution along the network to ensure their effectiveness as well
 Poor organization between the ability of the prepared player and the attackers on the one hand, and the attacking method
 on the other side.

Discussing similar studies: Based on the aforementioned, the similarity in goals is the comparison in the performance of the participating teams, and the same is the case for the hypotheses that there is a statistically significant relationship between the research sample teams. In addition, the descriptive method was used in the survey method.

As for the differences, they are that some of the goals took into account defensive skills and likewise with regard to the hypotheses. The sample of the research was one of the players of the clubs participating in the Premier League, matched by a sample of the Levantine Arab Championship teams in volleyball, as well as the difference in the use of means Statistical in addition to a difference in the temporal and spatial domain.

Research methodology: The researcher used the descriptive approach in the manner of comparative and analytical study for its relevance to the research problem

The research sample: The researcher chose the research sample from the teams participating in the Arab Mashreq championship in volleyball in the deliberate manner, since these teams represent the teams of the Arab Mashreq region, in addition to the availability of sufficient information about these teams and the skill of the attack, as the number of teams reached (4) which are (Iraq, Jordan) Syria, Lebanon), and with this, the percentage of the research sample reached (100%).

And means of gathering information and obscurity and equipment :

1. Camera type (Sony 8 m) Japanese origin.
2. Tablet cd Type Imation Of Chinese origin.
3. Manual calculator of Chinese origin.
4. Arab and foreign sources
5. World Wide Web

Statistical means:

- 1- Statistical Program (spss)

Presentation and analysis of the results of the level of effectiveness of the attacking skill of the four Arab teams

The source of the contrast	sum					
Squares	Degree					
Freedom	Average of squares	summit f				
Calculated	Semantic value	indication				
The differences						
Between groups	781.82	3	260.6	23.482	0,000	moral
Within groups	88.78	8	11.09			

The grand total	870.6	11				
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Shows test results (f) To analyze the variation between and within the six Arab teams for the level of effectiveness of the attacking skill

*Below significance level (0.05) and degree of freedom (3-8) Table (1) shows the variance analysis of the level of effectiveness of attack skill between and within Arab teams, as it reached a value f Al Mahtsibah (23,482) The results showed that there are significant differences between the Arab teams participating in and within the four-way tournament, because the significance value (0,000) is less than the significance level of (0,05) and this indicates that there is a discrepancy in the level of effectiveness of the attack skill between the four Arab teams.

Table (2)

Totals	The difference between the mediums	Difference results	Significance value	Indication of differences	Teams ranking
Iraq - Lebanon	73.16-70.2	2.96	0.307	random	Iraq
Iraq - Syria	73.16-66	7.16	0.03	moral	Lebanon
Iraq - Palestine	73.16-52.1	21.06	0.000	moral	Syria
Syria - Palestine	66- 52.1	13.9	0.001	moral	Palestine
Lebanon - Palestine	70.2- 52.1	18.1	0.000	moral	
Lebanon - Syria	66-70.2	-4.2	0.161	random	

Demonstrates test results (LSD) To find out the lowest moral difference between and within the four Arab teams and arrange the teams for the level of effectiveness of the attack skill

Table (2) shows the results of the value (LSD) To find out which Arab teams are better in the level of effectiveness of the attack skill, as the table shows the differences between the arithmetic mean and the significance values extracted below the significance level (0,05) where the results showed that there are statistically significant differences between the following teams (Iraq - Syria) and in favor of Iraq and between (Iraq - Palestine), in the interest of Iraq and (Syria - Palestine), in the interest of Syria and between (Lebanon - Palestine), and in the interest of Lebanon.

Discussing results: Either in the attack skill, the researcher found, through Table (2), the emergence of moral differences in the level of effectiveness of the skillful performance of the attacking skill for the Iraqi national team during its matches with the rest of the teams, which confirms the emergence of a force in the level of effectiveness of the attacking skill performance of the Iraqi team. This strength depends on many factors, including the skill and planning capabilities of the Iraqi national team players, in addition to the attacking skill that requires speed, agility and accuracy in steering, and this comes through participation and increased practice on the skill, which develops accuracy in the skillful performance of all technical skills in volleyball (Jensen , 1979) Attributed the researcher cause the appearance of significant differences in favor of national teams (Lebanon - Syria) to the possession of these teams on the players are characterized by long experience and also have special physical specifications and in addition to these reasons , the researcher believes the use of these teams to different types of attack and possession of players are characterized by the application of various offensive plans also are characterized by Attacking from the back areas with the same accuracy and power that they possess from the frontal area.

Conclusions

Through the conclusions reached by the researcher in his research he recommends what

- 1- The use of attack from the back, which is the distinct attacking method used by advanced teams
- 2- The necessity of adopting the principle of objective evaluation at each stage of the different training stages and in the competition stage by selecting standardized tests and analytical programs for offensive skills to monitor the effectiveness of skill performance and address its fluctuation at appropriate times.
- 3- Emphasis on the development of planning capabilities because of its close association with physical and skill capabilities
- 4- Focusing on adopting exercises similar to match situations or offensive combinations that occur during competition and match because of their great role in developing the player's skill and planning abilities .

Refrances

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