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Comparison of explosive strength between volleyball and football players of Trivandrum district

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Abstract

The purpose of the study was to compare the explosive strength between volleyball and football players. Thirty volleyball and Football male players were taken as the subjects for the study from the Trivandrum district. The age group of the subjects was ranged from 18 to 25 years. To measure explosive strength (vertical jump) between volleyball and football players, Sargent vertical jump test was conducted on the subjects in the present study. The data collected was subject to descriptive statistic and student "t" test and level of significance was set at 0.05 level. There was a significant differences found between Volley ball and Football players. Football players shows having more explosive strength when compared to Volleyball players.

Keywords: Volleyball, Football and Explosive Strength.

Introduction

Football (Soccer) is unarguably the world's most popular sports. The common aspect of the game is the necessity of teamwork to complement individual skills. In order to adapt to the technical evolutions within the game and players have to meet the physical demand of for the game. Further, growth and development phase of life has impact on training and performance. Physique and body composition have an important role for playing soccer. Mainly contact sports, football involves a verity of kicking, sprinting, throwing, shooting, trapping etc.; Skills and require a high level of fitness. In football and volleyball jumping ability is a most important movement for attacking as well as defensive players. In case of volleyball, the front row must be blocking position ready to jump or move each time the opponent touches the ball. In the time of attack horizontal and diagonal footwork normally fills this position and simultaneously a vertical jump also needed to hit or attack or smash the ball. In case of defensive position here also used the vertical jump to obstructed or defense the ball which is passed by the opponents. Similarly about defensive players they are also used the vertical jump to obstructed or defense the ball which is played by the opponent. So, both the game of football and volley ball required maximum jumping ability which is influence the performance of the game. Football is a game which requires very fast body movement which is determined by situations within the match such as: opposing team's player with and without the ball, ball movement and team mate movement. Because of these reasons, modern football game is characterized by fast movements, which become prominent in short and long sprints, explosive reactions (jump) and quick changes of direction.

Objective of the Study

The objective of the study was to compare the Explosive strength between Volleyball and Football Players of Trivandrum District.

Methodology

Selection of Subject: In order to compare the jumping ability between Volleyball and Football Players, thirty volleyball (N=30) and thirty Football (N=30) male players were taken as the subjects for the Study from Trivandrum district. The age group of the Subject was ranged from 18-25 years.

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Selection of Variables: the physical fitness variable in the present study was Explosive strength. And the Explosive strength was measured with the help of Sargent Vertical Jump.

Administration of test

To measure Jumping ability (vertical) between Volleyball and football players, Sargent vertical jump test was conducted on the subjects on the present study. The collected data were

calculated by using descriptive Statistic and Student “t” test and the level of significance was set as 0.05 levels. After that the conclusion drawn on the basis of the findings.

Result

The mean and standard deviation of obtained data belonging to motor fitness item of jumping ability as measured by Sargent jump test of vertical jump of volleyball and football players have been presented in following Table,

Table 1: Comparison of Explosive Strength between Volleyball and Football Players.

Group	Mean	S. D	Mean Difference	Standard error	‘t’ Value
Volleyball	0.413	0.045	0.418	0.25	3.53*
Football	0.831	0.093			

*Significant at 0.05 level, tabulated t .05 (38) =2.025

The above table shows that a significant difference exist in the jumping ability between volleyball and football players as Cal “t” value (3.53) is higher than Tab “t” value (2.025).

Conclusion

Within the limitation of the present study the following conclusions were drawn on the basis of obtaining results. In this study there was a significant difference in jumping ability between volleyball and Football players of Trivandrum district. The mean value of jumping ability of football players was better than the volleyball players.

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