

## POSITIONAL DIFFERENCE IN SELECTED ANTHROPOMETRIC VARIABLES OF MALE VOLLEYBALL PLAYERS OF HIMACHAL PRADESH UNIVERSITY

SINGH, SHAMSHER , KUMAR, SURIENDER AND SINGH JAGJEET

Department of Physical Education, H. P. University, Shimla  
Prof. Department of Physical Education, H. P. University, Shimla  
Research Scholar, Department of Physical Education, H. P. University, Shimla

### Abstract:

*Sports, games and physical activities have always been seen as an integral part in allround development of human personality. Apart from being means of entertainment and physical fitness, sports have also played a great role in generation of spirit of healthy competition and bonding with the society and community. Achievement in sports has always been a source of inspiration and matter of national pride and prestige. The present study is an attempt to find out the difference in selected anthropometric variables selected in positional difference of volleyball players. To solve the purpose of the study 32 male volleyball players of Intercollege of Himachal Pradesh University were taken as the sample. The anthropometric variables selected for the study were age, highest, weight, total arm length, total leg length, upper arm circumference and thigh circumference.*

*The data was analysis by SPSS. The statistical tools for the study were mean, S.D and 't' test. The results have shown significance difference between the above said variables.*

### KEYWORDS:

Anthropometric , Volleyball Players , physical activities , analysis.

### INTRODUCTION

However unlike in the past the modern sports have become highly competitive. The use of modern technologies, equipment's and infrastructurescientific support has changed the scenario of present of sports at national and international level. Keeping in line with the growing demands of advanced pedagogy, equipment's, infrastructural and scientific support, Government of India and the different federations andof respective sports and games have taken lot of initiative. These efforts could not produce significant result on account ofpolicy and inadequate budgetary support to improve the standard of nation at world map. As far as the sports and physical activities are concerned it provided the conducive ground can help in the national integration.

The present study is an attempt to find out the difference in selected anthropometric variables in positional difference of male volleyball players.

### METHODOLOGY

To solve the purpose of the study 32 male volleyball players, specificallyoffensive winner and looser players participated at quarter final level in Himachal Pradesh University Inter College Championship were taken as sample and they were selected randomly. Anthropometric measurements of the players was measures by anthropometric measuring devices. The anthropometric variables, selected for

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the study were age, height, weight, total arm length, total leg length, upper arm circumference and thigh circumference.

The data was analysis by using SPSS. The statistical tools used for the study were mean, S.D. and 't' test.

**RESULT AND FINDINGS**

With in the limitation and delimitations of the study following results are drawn:

**Table -1**  
**Descriptive statistics of age variables of offensive players of winner and looser team of quarter final stage of Himachal Pradesh University intercollege male volleyball championship**

S.N.	Position	Mean	M.D.	S.E.D.	df	't'
1	Winner	19.0000	1.56250	.53205	30	2.937
2	Looser	20.5625				

t<2.04 at 0.05 level of significance

\* Significance at 0.05 level

Table 1 depicts the mean value of age of volleyball offensive players of winner team is 19.0000, the mean value of volleyball offensive players of looser team is 20.5625, which indicates that two groups of players, i.e. winner and looser differ significantly in age it is obvious from table 1 that t-value of winner and looser with regard to age came out to be 2.937 which is significant at 0.05 level significance.

**Table -2**  
**Descriptive statistics of weight variables of offensive players of winner and looser team of quarter final stage of Himachal Pradesh University intercollege male volleyball championship**

S.N.	Position	Mean	M.D.	S.E.D.	df	't'
1	Winner	68.5625	1.43750	1.83449	30	.784
2	Looser	67.1250				

t<2.04 at 0.05 level of significance

Not significant at 0.05 level.

Table 2 depicts the mean value of weight of volleyball offensive players of winner team is 68.5625, the mean value of volleyball offensive players of looser team is 67.1250, which indicates that two groups of players, i.e. winner and looser differ not significantly in weight it is obvious from table 2 that t-value of winner and looser with regard to weight came out to be .784 which is not significant at 0.05 level significance.

**Table -3**  
**Descriptive statistics of Height variables of offensive players of winner and looser team of quarter final stage of Himachal Pradesh University intercollege male volleyball championship**

S.N.	Position	Mean	M.D.	S.E.D.	df	't'
1	Winner	184.7500	4.25000	1.34009	30	3.171
2	Looser	180.5000				

t<2.04 at 0.05 level of significance

\* Significance at 0.05 level

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Table 3 depicts the mean value of height of volleyball offensive players of winner team is 184.7500, the mean value of volleyball offensive players of loser team is 180.5000, which indicates that two groups of players, i.e. winner and loser differ significantly in height it is obvious from table 3 that t-value of winner and loser with regard to height came out to be 3.171 which is significant at 0.05 level significance.

**Table -4**  
**Descriptive statistics of total arm length variables of offensive players of winner and loser team of quarter final stage of Himachal Pradesh University intercollegemale volleyball championship**

S.N.	Position	Mean	M.D.	S.E.D.	df	't'
1	Winner	83.0375	1.13125	.76781	30	1.473
2	Looser	81.9063				

t<2.04 at 0.05 level of significance  
\* Significance at 0.05 level

Table 4 depicts the mean value of total arm length of volleyball offensive players of winner team is 83.0375 the mean value of volleyball offensive players of loser team is 81.9063, which indicates that two groups of players, i.e. winner and loser differ significantly in total arm length it is obvious from table 4 that t-value of winner and loser with regard to total arm length came out to be 1.473 which is significant at 0.05 level significance.

**Table -5**  
**Descriptive statistics of total leg length variables of offensive players of winner and loser team of quarter final stage of Himachal Pradesh University intercollegemale volleyball championship**

S.N.	Position	Mean	M.D.	S.E.D.	df	't'
1	Winner	109.3438	6.43750	1.59315	30	4.041
2	Looser	102.9063				

t<2.04 at 0.05 level of significance  
\* Significance at 0.05 level

Table 5 depicts the mean value of total leg length of volleyball offensive players of winner team is 109.3438 the mean value of volleyball offensive players of loser team is 102.9063, which indicates that two groups of players, i.e. winner and loser differ significantly in total leg length it is obvious from table 5 that t-value of winner and loser with regard to total leg length came out to be 4.041 which is significant at 0.05 level significance.

**Table -6**  
**Descriptive statistics of upper arm circumference variables of offensive players of winner and loser team of quarter final stage of Himachal Pradesh University intercollege male volleyball championship**

S.N.	Position	Mean	M.D.	S.E.D.	df	't'
1	Winner	27.2188	1.86875	1.55709	30	1.200
2	Looser	25.3500				

t<2.04 at 0.05 level of significance  
\* Significance at 0.05 level

Table 6 depicts the mean value of upper arm circumference of volleyball offensive players of winner team is 27.2188 the mean value of volleyball offensive players of loser team is 25.3500, which

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indicates that two groups of players, i.e. winner and loser differ significantly in upper arm circumference it is obvious from table 6 that t-value of winner and loser with regard to upper arm circumference came out to be 1.200 which is significant at 0.05 level significance.

**Table -7**  
**Descriptive statistics of Thigh Circumference variables of offensive players of winner and loser team of quarter final stage of Himachal Pradesh University intercollege male volleyball championship**

S.N.	Position	Mean	M.D.	S.E.D.	df	't'
1	Winner	52.2438	1.82500	1.79007	30	1.020
2	Looser	56.4188				

t < 2.04 at 0.05 level of significance  
\* Significance at 0.05 level

Table 7 depicts the mean value of thigh circumference of volleyball offensive players of winner team is 52.2438 the mean value of volleyball offensive players of loser team is 56.4188, which indicates that two groups of players, i.e. winner and loser differ significantly in thigh circumference it is obvious from table 7 that t-value of winner and loser with regard to thigh circumference came out to be 1.020 which is significant at 0.05 level significance.

**CONCLUSIONS**

- 1.The study concluded that the age of the offensive players of winner team of quarter final stage of Himachal Pradesh University male volleyball has significant difference with age of loser players.
- 2.The study concluded that the weight of the offensive players of winner team of quarter final stage of Himachal Pradesh University male volleyball has not significant difference with weight of loser players.
- 3.The study concluded that the height of the offensive players of winner team of quarter final stage of Himachal Pradesh University male volleyball has significant difference with height of loser players.
- 4.The study concluded that the total arm length of the offensive players of winner team of quarter final stage of Himachal Pradesh University male volleyball has not significant difference with total arm length of loser players.
- 5.The study concluded that the total leg length of the offensive players of winner team of quarter final stage of Himachal Pradesh University male volleyball has not significant difference with total leg length of loser players.
- 6.The study concluded that the upper arm circumference of the offensive players of winner team of quarter final stage of Himachal Pradesh University male volleyball has not significant difference with upper arm circumference of loser players.
- 7.The study concluded that the thigh circumference of the offensive players of winner team of quarter final stage of Himachal Pradesh University male volleyball has not significant difference with thigh circumference of loser players.

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