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ANNTHROPOMETRIC AND PHYSICAL FITNESS COMPONENTS BETWEEN VOLLEYBALL AND BASKETBALL PLAYERS OF AURANGABAD UNIVERSITY

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Abstract:

For the purpose of study, total number of 200 male sportspersons, 100 Volleyball and 100 Basketball each, were intentionally selected to participate in South Zone Inter University of Aurangabad University players. The age range of the subjects selected was from 18 to 28 years. All subjects had least participated in south zone inter university levels. As indicated by an international sports federation named Sport Accord (2009), sport ought to have a component of rivalry, ought not damage any living animal whatsoever, and ought not depend on any luck component especially planned into the sport.



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Key wards: Anthropometric parameters, Kabaddi and wrestling players

INTRODUCTION:

Sports or sport is by and large a few types of games or competitive physical activity (Sport Accord, 2009) which keeps up coordinated investment and improves the physical ability and skills of participants, while at the same time giving delight to the participants and much of the time engage onlookers too (Council of Europe, 2001). As indicated by an international sports federation named Sport Accord (2009), sport ought to have a component of rivalry, ought not damage any living animal whatsoever, and ought not depend on any luck component especially planned into the sport. As per Council of Europe (2001), sport signifies "all types of physical activity which, through easygoing or coordinated interest, target communicating or improving physical fitness and mental prosperity, framing social connections or getting brings about rivalry at all levels". Regularly the game or challenge is between different sides, where each side attempts to surpass the other.

ANTHROPOMETRY IN SPORTS

Anthropometry in sports is worried about the estimations of body size, piece and shape. It is the logical phrasing for the estimation of human. The term ,anthropometry" was begat in 1835 by Belgian space expert A. J. Quetelet when he distributed information on the stature weight stimutions of male and female subjects, all things considered. The word is produced using **No.** Greak words; anthros implies female subjects, all things considered. The word is produced using Words: anthros

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man and metron intends to quantify (Ulajaszek, 1994). Subsequently, as per Ulajaszek (1994). anthropometry is the logical investigation which includes estimation of human body and its parts with normalized techniques

PSYCHOLOGY IN SPORTS

Psychology is the study of study of conduct. The term psychology is gotten from two Greek words: 'mind' which implies soul" and 'logia' which implies to study". In present day world, for psychology, the word soul has been viewed as inseparable from the word cerebrum or conduct. Thus psychology is the scientific study of human conduct alongside the mental and physiological cycles influencing it. As indicated by Reber (1995), psychology assists with comprehension "the personalities and practices of different organic entities from the most crude to the most intricate" (p. 617). Psychology is the scientific study of brain and conduct corresponding to a particular field of information or activity (Merriam-Webster Dictionary, 2018a). In sports, the standards of psychology are applied at the levels of ability improvement of sportspersons. Sports psychology manages the conduct of sportspersons and groups occupied with sports. Singh, Bains, Gill and Brar (2012) characterize sports psychology as "that part of psychology which is personally associated with human conduct on the play field, both under training and competitive circumstances, with the end goal of achieve subjective improvement in execution and keep up the equivalent in any event, during the burdens of rivalry.

Methodology:

SELECTION OF THE SUBJECTS

For the purpose of study, total number of 200 male sportspersons, 100 Volleyball and 100 Basketball each, were intentionally selected to participate in South Zone Inter University of Aurangabad University players. The age range of the subjects selected was from 18 to 28 years. All subjects had least participated in south zone inter university levels.

STATEMENT OF THE PROBLEM

The problem of this study is entitled as: "Anthropometric and Physical Fitness Components between Volleyball and Basketball Players of Aurangabad University"

OBJECTIVES OF THE STUDY

- To compare the anthropometrical variables between male players of Volleyball and Basketball.
- find out the difference in psychological variables between male players of Volleyball
- to analyze the difference in physical variables between male players of Volleyball and Basketball.

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HYPOTHESES OF THE STUDY

For the present study the hypotheses were framed. It was hypothesized that:

DELIMITATIONS OF THE STUDY

Study was delimited to anthropometrical, psychological and physical variables which are mention below.

Anthropometrical variables

i. Height

iii. Humerus bicondylar diameter

v. Upper arm circumference

vii. Triceps skinfold

ix. Suprailiac skinfold

Psychological variables

i. Self-confidence

iii. Socio Economic Status

Physical variables

i. Speed

iii. Explosive power

v. Cardiovascular endurance

ii. Body weight

iv. Femur bicondylar diameter

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vi. Calf circumference

viii. Subscapular skinfold

x. Calf skinfold

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ii. Aggression

ii. Agility

iv. Muscular strength

vi. Flexibility

The study was delimited to 200 male players—100 Volleyball and 100 Basketball players. The study was delimited only to male players. The study was further delimited to the age group of 18 to 28 years of the subjects. The subjects were selected to participate in the south zone inter university competitions.

LIMITATIONS OF THE STUDY

The other variables such as home environment, daily routine, life style, diet, habits, individual's health, personal tension, socio-economic and stress, could not be controlled during this study.

Results:

Table - 1
Sample composition of the study

Subjects	Level	No. of sample
Volleyball	Inter University	100
Basketball	Inter University	100
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Table 2 Anthropometrical variables and instruments of the study

Sr. No.	Anthropometrical variable	Instrument	Unit
	A. General body measurements :		
1.	Height	Anthropometer rod	M
2.	Body weight	Weighing machine	Kg
	B. Skeletal diameters :		
3.	Humerus bicondylar diameter	Sliding caliper	cm
4.	Femur bicondylar diameter	Sliding caliper	cm
	C. Circumferences:		
5.	Upper arm circumference	Gulick tape	cm
6.	Thigh circumference	Gulick tape	cm
	D. Skin fold measurement :		
7.	Triceps skinfold	Skinfold caliper	mm
8.	Subscapular skinfold	Skinfold caliper	mm
9.	Suprailiac skinfold	Skinfold caliper	mm
10.	Calf skinfold	Skinfold caliper	mm

Table 3 Reliability Coefficients of Test Retest Scores

Sr. No.	Test Item	Coefficient of correlation, r
1.	Height	.97*
2.	Body weight	.96*
3.	Humerus bicondylar	.92*
4.	Femur bicondylar	.97*
5.	Upper arm circumference	.99*
6.	Calf circumference	.96*
7.	Triceps skinfold	.96*
8.	Subscapular skinfold	.95*
9.	Suprailiae skinfold	.95*
10.	Calf skinfold	.93*

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CONCLUSIONS:

- 1. There is significant difference of self-confidence between volleyball and basketball inter university male players of south zone.
- 2. There is significant difference of aggression between the volleyball and basketball inter university male players of south zone.
- 3. There is significant difference of SES between volleyball and basketball inter university male players of south zone.
- 4. There is significant difference of speed between volleyball and basketball inter university male players of south zone.
- 5. There is significant difference of agility between volleyball and basketball inter university male players of south zone.
- 6. There is significant difference of muscular strength between volleyball and basketball inter university male players of south zone.
- 7. There is significant difference of explosive power between volleyball and basketball inter university male players of south zone.
- 8. There is significant difference of cardiovascular endurance between volleyball and basketball inter university male players of south zone.
- 9. There is significant difference of flexibility between volleyball and basketball inter university male players of south zone.

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