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Comparative study of kinanthropometric measurements of basketball and handball male players

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Abstract

The purpose of the study was to find out the comparison of kin-anthropometric measurements of Basketball and Handball male players. Only 50 male players (25 each) which belong to 19 to 25 year age group and only sirsia district were selected for the study. For the study only abdominal skin fold and Thigh skin fold was measured by "The Lange skin folds calliper". For the present study, the mean value, standard deviation, T-test was applies to analyze the data.

Keywords: Kin-anthropometric, Male, Abdominal skin fold, Thigh skin fold

Introduction

Its constitutes the earliest form of measurement in physical education as one might surmise as study of the human physique and its proportions began many centuries ago. The early beginning can be traced from the remote civilization of India, where a treatise called 'Silpi Sastri' analyzed the outline of the body by dividing it into 480 parts. So kin anthropometry evolved in the quest to determine the ideal body proportions, artists and sculptors directed their study to it as shown by the artwork in Kin-anthropometry is the measurement of body size, shape, strength weight, fat & working capability of the body. This measurement data is used to depict or paint a picture of the user population for a particular measure of the body by utilizing Kin-anthropometry. The body is made up kinthropometrically of various functional parts, such as sitting height, forward grip, waist height and head circumferences.

Method and procedure

The present study was concerned with 25 male players of Basketball and Handball male players with the age level of 19 to 27 years. For the study only abdominal skin fold and Thigh skin fold was measured. "The Lange skin fold calliper" was used to measure skin folds for the present study, the mean value, Standard deviations, T-test was applies to analyze the data

Analysis of the data

Table 1: Comparison of abdominal skin folds measurement of Basketball and Handball male players.

Variables	No. of players	Basketball		Handball		S.E.D	T ratio
		Mean(mm)	S.D	Mean(mm)	S.D		
Abdominal	25					0.09	1.70
	25	2.95	0.51	2.80	0.29		

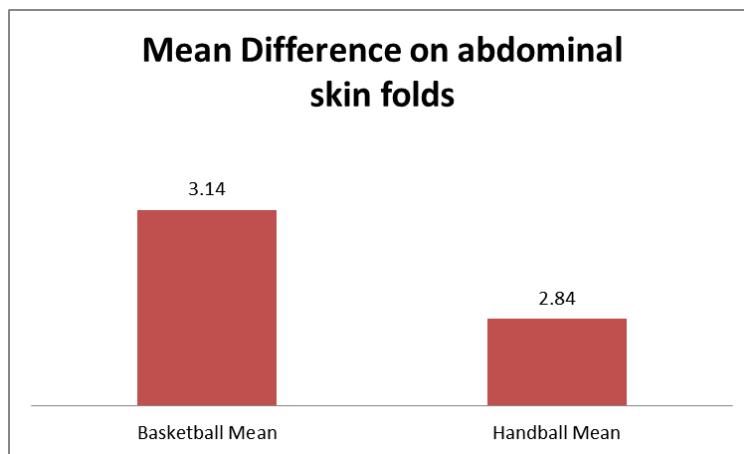
No significant at any level.

The table 1 represent that the mean score of Basketball male player is 2.95 and S.D is - 0.51 and the mean score of the Handball players is 2.80 and SD is 0.09 and t- ratio is 1.70 and no significant at any level. This means that there is similar difference between the abdominal skin fold thickness of Basketball male players and Handball male players.

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Graph 1: Graphical Presentation of abdominal skin folds measurement of Basketball and Handball male players

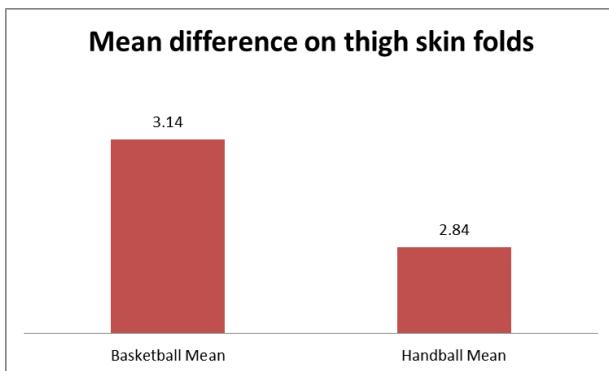
Table no- 2: Comparisons of thigh skin fold measurement of Basketball and Handball male players.

Variables	No. of players	Wrestling		Judo		S.E.D	T ratio
Thigh Skin fold	25	Mean(mm)	S.D	Mean(mm)	S.D		
	25	3.14	0.50	2.84	0.44	0.08	3.63

The significant at the 0.01 level of the confidence.

The table 2 represent the mean score of thigh of Basketball male player is 3.14 and SD 0.50 and the mean score of Handball male player is 2.84, SD is 0.44. The SED paired difference is 0.08 and t-ratio score is 3.63 which is significant at 0.01 level of confidence. It means that the thickness of thigh skin fold of Basketball male player is greater than Handball male players

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Graph-2: Graphical Presentation of thigh skin folds measurement of Basketball and Handball male players

Conclusion

The researcher find out from the study that there was similar difference in abdominal skin fold thickness between judo male players and wrestling male players and the wrestling male players were found to more thickness of thigh skin fold as compared to judo male players.

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