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Analysis of finger patterns of university handball players

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Abstract

The purpose of the study was to analysis of finger patterns among different positions inter varsity handball women players. The study also find-out any difference in finger patterns like whorls, loops and arches of both right and left hand among backs and wings in varsity handball women players. The purpose of the study forty (N=40) women handball players were selected as subjects, who are participated in the All India Inter University handball Tournament held at Periyar University, Salem, Tamilnadu from 20th February to 02nd March 2009. The age of the subjects ranged from 18 to 28 years. The subjects are classified into two groups namely. Group-I: Right and Center and Left backs (n=20), Group-2: Right and Left Wings (n=20). The Dermatoglyphic variable such as finger patterns were selected as dependent variables namely. Whorls, Loops, and Arches, The variables are taken in both right and left hand separately. The study concluded that insignificant difference between Backs and Wings on dermatoglyphic finger pattern. In the finger pattern, the whorls and loops are present more in both right and left hand respectively. The arches are present very less in both right and left hand respectively.

Keywords: Finger Patterens, Arches and Handball

Introduction

Statement of the problem

- The purpose of the study was to analysis of finger patterns among Center backs and Wing in varsity handball women players.
- The study also find-out any difference in finger patterns like whorls, loops and arches of both right and left hand among right, left and centre backs and GS inter varsity handball players.

Methodology

- The purpose of the study forty (N=40) women handball players were selected as subjects, who are participated in the Inter University handball Tournament held at Periyar University, Salem, Tamilnadu from 20th February to 02nd March 2011.
- The age of the subjects ranged from 18 to 28 years.
- The subjects are classified into two groups namely.
Group-I: Backs Right, Left and Centre Backs (n=20)
Group-2: Right and Left Wings (n=20)

Selection of variables

The Dermatoglyphic variable such as finger patterns were selected as dependent variables namely. Whorls, Loops, and Arches
The variables are taken in both right and left hand separately.

Statistical procedure

- The collection of data was analyzed by using independent's' test to find out the significance between groups.
- The level of confidence was fixed at 0.05.

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Results and discussion

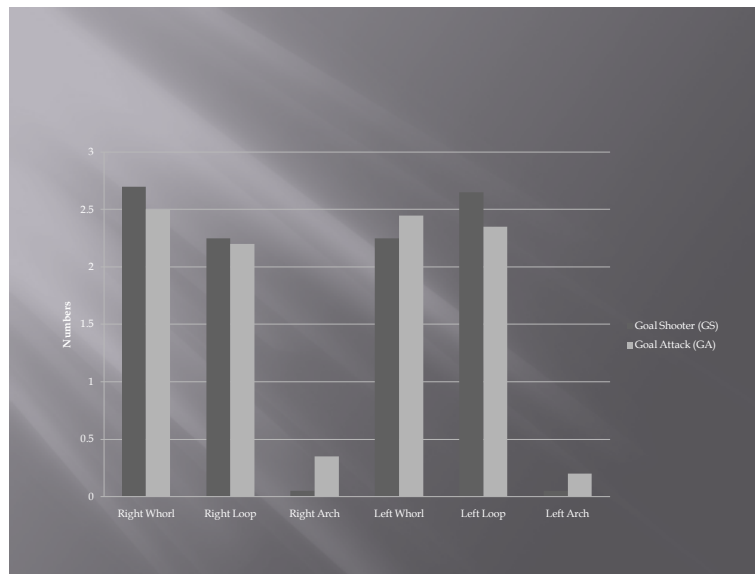
Table
Independent 't' Test of Finger Pattern between GS AND GA

Finger Pattern	Test	Goal Shooter (GS)	Goal Attack (GA)	df	't' Ratio
Right Hand Whorl	Mean	2.70	2.50	18	0.391
	SD	1.719	1.504		
Right Hand Loop	Mean	2.25	2.20	18	0.102
	SD	1.650	1.436		
Right Hand Arch	Mean	0.05	0.35	18	1.398
	SD	0.223	0.933		
Left Hand Whorl	Mean	2.25	2.45	18	0.424
	SD	1.802	1.099		
Left Hand Loop	Mean	2.65	2.35	18	0.684
	SD	1.694	0.988		
Left Hand Arch	Mean	0.05	0.20	18	0.728
	SD	0.221	0.894		

*Significant
The table value of df 18 is 1.73

- The above table shows that there was no significant difference Center backs and Wing in varsity handball women players. Whorls, loops and arches of both right

and left hand. The result of the study shows that the Center backs and Wing have similar finger pattern. However, the whorls and loops are present more when compare with arches.



Conclusion

- The study concluded that insignificant difference between Center backs and Wing on dermatoglyphic finger pattern.
- In the finger pattern, the whorls and loops are present more in both right and left hand respectively.
- The arches are present very less in both right and left hand respectively.

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