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A comparative study of intelligence among the sports person of different semi-content games

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Abstract

A study was undertaken with an objective to find out the intelligence level among the semi-contact game sportspersons. A total number of 200 (100 male and 100m female) players of semi-contact games like Football, Kho-Kho, Handball and Basketball of Haryana state who participated at National and Inter University level were selected as a sample of present study. In this study, it was found that female players of semi-contact games were having high intelligence level as compare to their male players. In the present study it was also discovered that Handball and Football players were found more intelligent when compared with the Kho-Kho and Basketball players.

Keywords: Intelligence, semi-contact games, Football, Kho-Kho, Handball, Basketball.

Introduction

In the present level of cut throat competition in sports coaches and physical educators have become more conscious and concerned about the psychological and sociological aspects of sports rather than nearly physiological fitness and skill in the various activities. They realized that psychological and sociological characteristics of the participants contribute more toward their success than mere physical fitness. Kroll (1964) ^[8] emphasized saying that the players do not play with their bodies alone but they use various mental process side by side. Hall (1908) ^[4] reiterated that physical education is not an end in itself but it is for the sake of mental and moral culture. Intelligence in a human is considered multidimensional. Psychologist like Thorndike (1928), Thurstone (1938), Cattell (1941, 1971) Vernon (1971), Carroll (1993) and Gardner (1983) in the field of psychology believed and assessed that human has multiple kinds of intelligence (Kamlesh, 2011 ^[6]; Pal *et al.*, 2004 ^[9]; Cohen and Swerdlik, 2002 and Kaufman, 2011) and when these are identified with the individual then we can deal with them accordingly to the type of intelligence they possess (Badr and Radwan, 2010) ^[10]. Gardner (1985) ^[3] said that Athletic intelligence is the capacity to use your whole body as parts of the body to solve problem, make something or put on some kind of production. Intelligence is considered a major factor for achieving the peak in the field of sports. It is the main psychological factor which effect the elite performance of an athlete. The researchers are making an effort to find out the specific nature of intelligence among the sportspersons. Therefore, the present study was carried out with the following objectives:

1. To find out whether there was any difference in Intelligence level among the sports persons of different semi-constant games.
2. To find out whether there was any difference in Intelligence level between male and female players of different semi-contact games.

Materials and Methods

Sampling

In the present study, multistage sampling plan in which stratified random sampling technique and simple random sampling technique were used for selecting the samples. The present investigation was conducted on a total of 200 sportspersons of Haryana State, who had participated at National and Inter University level tournaments in semi-contact games like Football, Kho-Kho, Handball, Basketball. The subjects were in the age group of 18-25 years. This group was further divided into two sub-categories having 100 males and 100 females

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each. The selection of tools was governed by the consideration of their (i) availability (ii) suitability to the sample (iii) reliability and validity. Keeping in view these considerations, "The group test of General Mental Ability" (Jalota, 1976) [5] was used in Hindi version to measure the intelligence level of sportspersons.

Collection of data and administration of tests

In order to collect the requisite data sampled the entire population and decided the appropriate tools to measure the attributes concerned and finally to administer tools on the sample were selected. The requisite data was then collected and filled in prescribed questionnaires. After selecting the sample of the study and before conducting the tests, the purpose of testing and technique to be employed in the study of the subjects and all possible doubts were cleared. In this study questionnaire method was used. The questionnaire was administered to all the subjects in accordance with the instructions laid down in the manual and under the direct supervision of the investigator.

Statistical procedures

Keeping in view, the objectives as well as design of the study, the appropriate statistical techniques were used to analyse the data.

Results and Discussion

Table 1: Analysis of variance for the data on intelligence in semi-contact games.

Source	D.F.	S.S.	M.S.	F-ratio
Sex	1	1393.92	1393.92	10.14**
Semi-contact games	3	2930.02	976.67	7.10*
Interaction	3	365.48	121.83	0.89
Error	192	26406.00	137.53	
Total	199	31095.42		

**significant at 0.01 level. *Significant at 0.05 level
 $F_{0.1}(1, 192) = 6.76$, $F_{0.5}(1, 192) = 3.89$, $F_{0.1}(3, 192) = 3.88$, $F_{0.5}(3, 192) = 2.65$

Table 1 reveals that F-ratio (10.44) of intelligence level in semi-contact games for sex is more than the table value of F (6.76) with (1.192) d.f. at 0.01 level. It shows that there is a very high significant difference in intelligence level among the sportsmen and sportswomen of contact games.

From Table 1, it can be inferred that F-ratio (7.10) of intelligence level in semi-contact games is more than the table value of F (3.88) with (3.192) d.f. at 0.01 level. It shows that there is a significant difference in intelligence level among the players of different contact games.

Table 1 shows that F-ratio (0.89) of intelligence level in semi-contact games for interaction is less than the table value of F (2.65) with (3.192) d.f. at 0.05 level, therefore, there is no significant difference in interaction (Sex × semi-contact games) of different sports group in semi-contact game players.

Table 2: Mean scores on intelligence for male and female players in semi-contact games (sports combined)

Female	Male	C.D.
54.41	49.13	3.25

From Table 2, it can be seen that mean difference of male and female on intelligence data is more than the critical difference. So, it may be concluded that sportswomen of

semi-contact games were found more intelligent as compared to their male players.

Table 3: Mean scores on intelligence in different semi-contact games (male and female players combined)

Football	Handball	Kho-Kho	Basketball	C.D.
55.82	55.36	48.20	47.70	4.59

Table 3 shows that for intelligence level in semi-contact games the mean values of Football and Handball players is significantly higher than the mean value of Kho-Kho and Basketball players. But there is no significant difference between the mean values of Football and Handball, Basketball and Kho-Kho players.

Table 4: Mean scores on intelligence for male and female players of semi-contact games

	Kho-Kho	Handball	Basketball	Football	C.D.
Male	47.04	53.88	44.12	51.48	6.50
Female	49.36	56.84	51.28	60.16	

Table 4 reveals that the mean scores on intelligence for the female players of Kho-Kho and Handball has no significant difference as compared to their female players in their respective games.

It also indicates that the mean values of intelligence level of female players Football and Basketball games have a significantly higher difference than that men players in their respective games.

Conclusion

It was found that in semi-contact games male players have less intelligence level than that of female players. It was also found that Handball and Football players have higher intelligence level than that of Kho-Kho and Basketball players. In this study it was found that in male section of semi-contact games Handball and Football players have high intelligence level than that of Basketball players. It was also found that Handball players have more intelligence level than the Kho-Kho players. In female section it was found that Football and Handball players have high intelligence level as compared to Kho-Kho players. It was also found that Football players have more intelligence level than that of Basketball players. It has been found that male and female players of the Kho-Kho and Handball have the same intelligence level. But the female players of basketball and Football have higher intelligence level than their male players.

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