A COMPARATIVE STUDY OF SELECTED MOTOR ABILITIES OF INTER-COLLEGE MALE FOOTBALL AND HANDBALL PLAYERS

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Abstract

The main Objective of the study to compare the selected motor abilities of inter-college male Football and handball players.

Methodology: To achieve the purpose of study 20 male players each for Football and Handball were selected H.N.G.University, Patan Inter - College tournament. The age group of subjects was ranging between 18-25 years. Test by Johnson and Nelson (1982) was used to measure motor fitness components. To find out the difference between means of the Football and Handball Groups ‘t’ test was applied.

Results: The study revealed that there is no significant difference in the speed variable of Football and Handball players. Differences were observed on arm power, leg power and agility variables between Football and Handball players but these were insignificant. It was found that Football players are better in speed, leg power and agility whereas Handball players are superior to Football player on arm power.

Keywords: football, handball, motor abilities

1. Introduction

The Word 'Sport' comes from the old French word called Disport which means "Leisure", but this word has changed its connotation with the passing time. Now sports are no longer believed to be practiced only in leisure time. Today they are one of the major parameters to judge a country’s development and growth and are fast becoming great career options for the future generations. The term “motor fitness” is most often used synonymously with physical fitness by the physical educators, but it is very important for the physical education students to know the basic difference between physical fitness and motor fitness.
Physical fitness is used to denote only four basic fitness components (muscular strength, muscular endurance, cardiovascular endurance and flexibility), whereas motor fitness is a more comprehensive term which includes all the ten fitness components like four fitness, one of the health-related fitness and five motor performance components, power, speed, agility, balance and reaction time, which is important for the success in sports. In other words, motor fitness refers to the efficiency of basic movements and also to the addition of physical fitness. Sports performance is indeed an aspect of complex human performance, which has several dimensions.

Handball can be played by everybody and everywhere, nothing more being needed than a ball, a playing-field and two goal posts. Handball is not an expensive sport. They need small playing fields or gymnasiums may be used, there is a comparatively smaller number of players and a simple outfit will do. Basically it is a game played by two teams of seven (six ground player and one goal keeper) whose object is to score goals by throwing a small ball towards a goalkeeper into the goal. The ball is passed around by players using their upper body only - any contact with the ball below the knee is a foul. A player can run with the ball, as long as they bounce it, - as in Basketball.

However, they can take three steps without bouncing the ball. Players can not cross the D shaped goal area, and generally the goalkeeper stays within this D circle. This often results in players attempting to take their three steps and jumping into this area to shoot, which is allowed as long as they are off the ground when the shot is taken. Handball is mainly a contact sport, where defenders can block an opposing attacker to prevent them shooting. This tactic means that the defending team tends to guard their own D circle, whilst the attacking team passes the ball around to try to find a way to attack and run in to get a clear shot on goal.

Once an attack breaks down, due perhaps to the defense intercepting a pass or the goalkeeper saving a shot, then the situation is reversed and players quickly counter attack to try to score a goal before the opposing team has had sufficient time to organize their defense.

1.1 Purpose of the Study
The main Objective of the study to compare the selected motor abilities of inter-college male Football and Handball players.

2. Methodology
2.1 Selection of Subjects
To achieve the purpose of the study twenty male players each for Football and Handball were selected H.N.G.University, Patan Inter-College tournament. The age group of subjects was ranging between 18-25 years.
2.2 Tools Used
Test by Johnson and Nelson (1982) was used to measure motor fitness components as described below:
1. Speed: 50- Yard Dash Run test
2. Arm Power: Two hands Medicine Ball put test
3. Leg Power: Standing Broad Jump
4. Agility: Shuttle run test

2.3 Statistical Technique
The obtained data were statistically analyzed by using ‘t’ test, to compare the selected motor abilities of inter-college male Football and handball players.

3. Results of the Study
The data was analyzed by ‘t’ test. The significance of mean difference found between score obtains on selected motor abilities of inter-college male Football and handball players.

<table>
<thead>
<tr>
<th>Variable</th>
<th>Players</th>
<th>Numbers</th>
<th>Mean</th>
<th>Sd</th>
<th>Df</th>
<th>‘t’</th>
</tr>
</thead>
<tbody>
<tr>
<td>Speed</td>
<td>Football</td>
<td>20</td>
<td>8.17</td>
<td>0.57</td>
<td>30</td>
<td>0.60</td>
</tr>
<tr>
<td></td>
<td>Handball</td>
<td>20</td>
<td>8.29</td>
<td>0.69</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Table value at 0.5=2.02.
From table-3.1 it is clear that that mean and standard deviation values of Football players on the speed variable were 8.17 and 0.57 whereas in case of Handball players it was 8.29 and 0.69 respectively. No significant difference was found between Football and Handball players as the calculated t-value 0.60 was less than tabulated value of 2.02 at 0.05 level of significance.

<table>
<thead>
<tr>
<th>Variable</th>
<th>Players</th>
<th>Numbers</th>
<th>Mean</th>
<th>S.D.</th>
<th>Df</th>
<th>‘t’</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arm Power</td>
<td>Football</td>
<td>20</td>
<td>2.68</td>
<td>0.17</td>
<td>38</td>
<td>1.23</td>
</tr>
<tr>
<td></td>
<td>Handball</td>
<td>20</td>
<td>2.75</td>
<td>0.19</td>
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<td></td>
</tr>
</tbody>
</table>

Table value at 0.5=2.02
From table-3.2 it is clear that that mean and standard deviation values of Football players on the arm power variable were 2.68 and 0.17 whereas in case of Handball players it was 2.75 and 0.19 respectively. No
significant difference was found between Football and Handball players as the calculated t-value 1.23 was less than tabulated value of 2.02 at 0.05 level of significance.

Table 3.3
Mean difference between inter-college football and handball players on leg power

<table>
<thead>
<tr>
<th>Variable</th>
<th>Players</th>
<th>Numbers</th>
<th>Mean</th>
<th>Sd</th>
<th>Df</th>
<th>‘t’</th>
</tr>
</thead>
<tbody>
<tr>
<td>Leg Power</td>
<td>Football</td>
<td>20</td>
<td>1.62</td>
<td>0.14</td>
<td>38</td>
<td>1.51</td>
</tr>
<tr>
<td></td>
<td>Handball</td>
<td>20</td>
<td>1.56</td>
<td>0.11</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Table value at 0.5=2.02

From table-3.3 it is clear that that mean and standard deviation values of Football players on the leg power variable were 1.62 and 0.14 whereas in case of Handball players it was 1.56 and 0.11 respectively. No significant difference was found between Football and Handball players as the calculated t-value 1.51 was less than tabulated value of 2.02 at 0.05 level of significance.

Table 3.4
Mean Difference Between Inter-college Football and Handball Player on Agility

<table>
<thead>
<tr>
<th>Variable</th>
<th>Players</th>
<th>Numbers</th>
<th>Mean</th>
<th>Sd</th>
<th>Df</th>
<th>‘t’</th>
</tr>
</thead>
<tbody>
<tr>
<td>Agility</td>
<td>Football</td>
<td>20</td>
<td>11.12</td>
<td>0.64</td>
<td>38</td>
<td>1.57</td>
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<td></td>
<td>Handball</td>
<td>20</td>
<td>11.45</td>
<td>0.69</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Table value at 0.5=2.02

From table-3.4 it is clear that that mean and standard deviation values of Football players on agility variable were 11.12 and 0.64 whereas in case of Handball players it was 11.45 and 0.69 respectively. No significant difference was found between Football and Handball players as the calculated t-value 1.57 was less than tabulated value of 2.02 at 0.05 level of significance.

4. Conclusion

From the above study it may be concluded that there is no significant difference in the speed variable of Football and Handball players. Differences were observed on arm power, leg-power and agility variables between Football and Handball players but these were insignificant. It was found that Football players are better in speed, leg power and agility whereas Handball players are superior to Football player on arm power.
5. References


