

# CONSTRUCTION OF BEHIND THE BACK PASS TEST IN HANDBALL

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## **Introduction:**

Handball is one of those rare games that are easy to learn, but difficult to perfect. It is fun to play and exciting to watch. Players and spectators alike enjoy the rapid continuous play, the fast breaks, the fleet and varied hand movements in passes and shots, and the spectacular leaps and dives into the air followed by the lightning reactions of the goalkeeper.

Skill tests reflect the ability of the pupil to perform in specified sports such as badminton, handball or basketball and helps for the purpose of classification, determining progress and marking. Since very limited research in the area of skills in handball has been done, the researcher felt the need to take up this study.

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## **Methodology:**

One hundred male handball players from South-West Zone and North-East Zone Universities (four University teams from each Zone) who qualified for the All India Inter Zonal Varsity Handball Tournament held at Banaras Hindu University, Varanasi, Uttar Pradesh from 25th to 29th October 2002, were selected to serve as subjects for this study. The age of the subjects ranged between 17 to 25 years.

The criterion measure was the average of the playing ability scores of the handball players assigned independently by three handball experts.

Behind the Back Pass Test was developed through objective methods. The data for this was collected by administering the test on one hundred handball players who participated in the All India Inter-Zonal Inter-Varsity Handball Tournament.

The coaches and managers of the teams were consulted at personal level to conduct the test on handball players, and a rapport was established with them for the testing programme. All those incharge of teams, coaches and managers were made fully conversant with the study. Tentative times were finalized with them. The researcher approached each player after giving proper and timely information before the test was conducted.

Before administering the test, the subjects were briefed about the purpose of the study and details of the test were explained to them. The subjects were given a demonstration of the test by a trained helper. They were also given sufficient number of trials to enable them to become absolutely familiar with the test. To ensure uniform testing conditions, the subjects were tested in the morning and evening sessions after warming-up during practice sessions. The duration of test administration was set in a manner so that fatigue may not occur. Though no special technique was used to motivate the subjects, the subjects were very co-operative throughout the test. The test was administered on handball courts and stadium at the competition site.

The purpose of the test was to measure the ability of a player to pass the handball low and accurate behind the back. Test may be used with male college players.

A line at a distance of six-meter from the floor of the wall was marked to provide both right and left handed players to attempt at the target sideways using Behind the Back pass. Three-square targets one inside the other measuring 90x90 cm., 60x60 cm. and 30x30 cm. respectively were marked on the cloth. Target was hanged on the wall parallel to the floor and the bottom of the biggest square was 45 cm. from the floor.

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The subject with a ball in hand, stood behind the six-meter line in the areas provided and on blowing the whistle the subject moved paralleled to the line and passed the ball towards the target using behind the back pass, from behind the line. Three trials, each of five attempts, were given.

The points values allotted were 10 for center, 6 for the middle and 2 for outer square target, determined on the basis of successful hitting of the ball in the respective areas. However, no point was awarded when ball did not hit any of the target areas. Balls hitting on the line were given the higher point values. The score was the total points made in five attempts in each trial and the best of the three trials was the score of the subject. A maximum score of 50 was possible on this test.

### Findings:

Test-retest method was used to establish the reliability of the behind the back pass test. All the subjects were given three trials administered by the same tester and inter-class correlation coefficients by analysis of variance method was employed to compute the reliability of the test. Analysis of variance for reliability estimate and the obtained reliability coefficient (R) value for the test have been presented in Table-1.

**TABLE - 1**  
**ANALYSIS OF VARIANCE FOR RELIABILITY ESTIMATE**  
**OF BEHIND THE BACK PASS TEST**

Source of Variance	Sum of Squares	Degree of Freedom	Mean Squares	F - Ratio	tab F	Inter - Class Correlation (R)
Subjects	30034.61	99	303.38			
Trials	26.25	2	13.125	1.879*	3.04	0.977**
Interaction	1383.09	198	6.985			
Total	31443.95	299				

\*Insignificant at 0.05 level      tab F 0.05(198,2) = 3.04

\*\* Significant at 0.05 level       $R_{0.05}(98) = 0.195$       N = 100

The data obtained as a result of the administration of behind the back pass test and judged by three different handball experts who recorded the performance of the subjects independently was correlated in order to obtain objectivity coefficient. Analysis of variance for objectivity estimate and the objectivity coefficient (R) value for the behind the back pass test has been presented in Table - 2.

**TABLE - 2**  
**ANALYSIS OF VARIANCE FOR OBJECTIVITY ESTIMATE**  
**OF BEHIND THE BACK PASS TEST**

Source of Variance	Sum of Squares	Degree of Freedom	Mean Squares	F - Ratio	tab F	Inter - Class Correlation (R)
Subjects	32603.66	99	329.33			
Trials	0.73	2	0.36	0.089*	3.04	0.987**
Interaction	810.61	198	4.09			
Total	33415.00	299				

\*Insignificant at 0.05 level      tab F 0.05(198,2) = 3.04

\*\* Significant at 0.05 level       $R_{0.05}(98) = 0.195$       N = 100

Correlation of behind the back pass test and the criterion variable has been presented in Table - 3.

**TABLE - 3**  
**RELATIONSHIP OF BEHIND THE BACK PASS TEST TO THE CRITERION**  
**(PLAYING ABILITY SCORES)**

S. No.	Test	Coefficient of Correlation
1.	Behind the Back Pass Test	0.783*

\* Significant at 0.05 level       $r_{0.05}(98) = 0.195$        $N = 100$

**Discussion of Findings:**

Analysis of data on Behind the Back Pass Test indicated that the constructed test in handball was found to be reliable. The findings of the study further reveal that the Behind the Back Pass Test in handball was found to be objective. The significant values showed that the directions for administration of the test were specific and clear for performance as well as evaluation.

**Conclusions:**

Within the limitations of the present study, the following conclusions were drawn: -

1. The Behind the Back Pass Test showed significant relationship with handball playing ability.
2. The newly developed Behind the Back Pass Test in handball meet the criterion of scientific authenticity i.e. the test was reliable, objective and valid.

**References:**

- Baumgartner, Ted A. and Jackson, Andrew S. Measurement for Evaluation in Physical Education*, 4th Ed. United States of America: Wm. C. Brown Publication, 1982.
- Bosco James S. and Gustafson, William F. Measurement and Evaluation in Physical Education*, Fitness and Sports Englewood Cliffs, N. J.: Prentice Hall, Inc., 1983.
- Fritz and Hatting, Peter Handball - Techniques, Tactics and Rules* Switzerland: International Handball Federation, 1979.
- Neil, Graham Modern Team Handball – Beginner to Expert* Montreal Canada: McGill University, 1978.