



The Standardization And Development Of Use Test Battery For Selection Of Softball Players

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Abstract

The Softball players of the Gadchiroli playing at District Level Softball tournaments considered as the study. Convenience sampling method was used to study. The data was collected from total of 100 samples who participated at various school and association during the year 2020-21 and 2021-22. After data collection, they were processed through statistical analysis. The Statistical Analysis data through use the mean, standard deviation and median. After the scores from the some data were removed they were outsider. The outsider was found with the help of through SPSS. The Percentile method was used to create norms. The present norms of finally used the 12 selected test items indicate that the distribution of scores of almost all the test-items resides in the normal range of probability curve. The raw data was further converted into standard scores for the combining or comparing scores.

KEYWORDS: Test Battery, Softball Player, Development, Standardization

Introduction:

Softball is the most popular sport and most playing event in the world. The game of Softball requires players to perform activities like running (forward and backward), turning and throwing. Very important factor for all the players on the field was fitness. The players help them to from getting ready for fatigue easily; through improve the skills and technique of the game and showing good performance of match. Softball Starting during British Empire in India. Many Softball clubs in India was Introduce during this time, the First Softball team was also introduce in the 1944, In spite of specific training and growing popularity specific training methods being imparted on the Softball players by efficient coaches the performance in national level is expectancy. For the Main purpose of study selection of team was done on viewing match performances and on the basis of fitness which was important. Test Batteries for assessing and evaluating Softball players, as there are no standardized the researcher thought of undertaking this study entitled, "Standardization and Development of a Test Battery for Selection of Softball Players" to establish and preparing a test battery through proper norms is essentials for selection of players in a Softball team.

Objective:

1. To Standardize a Test Battery for Selection of Softball Players.
2. To Development a Test Battery for Selection of Softball Players.

Subjects:

The Softball players of the Gadchiroli District playing at District Level Softball tournaments considered the total population of the study. Current study of the total Participation was used sampling method to select the sample. The data was collected from total of 100 samples who participated at various school and association during the year 2020-21 and 2021-22.

Selection of performance dimensions:

Many research reports to the five majoring dimensions (morphological, Physiological, Psychological, Physical fitness and skill), were considered with a view to discriminate players for composing a District Level Softball team. The use of test-items were confirmed to be included in the test, after a deep study of various literature related to the study and after giving opinions of various expertise in the area of Physical Education and Sports. Skill tests, Physical fitness tests and PEFR were included in the final test battery which was used for team selection as studies have proven their importance in prediction the ability of Softball playing. Weight and Height of Softball was not considered as a selection process. Body Mass Index for Softball Players can over time their body fat because muscle is denser fat and weighs more. Respiratory rate was also not included in the final test battery as there is little difference between the respiratory rates of normal adult. Resting heart rate was not included in the final test battery as it has a range which has been prescribed through various researches and anything below and above the recommended range is not proven to be good or bad.

Pilot study:

Pilot Study of these new test-items was conducted on 30 (n=30) male Softball players, below 19 yrs., of Gadchiroli district. During the pilot study various factors related to administration of the tests were checked for further smooth facilitation of the data collection.

Statistical analysis:

The Step wise data collection, they were processed through a series of statistical analysis (Mean, Median & Standard Deviation). Collected score was done through the descriptive statistics. The scores the skewness and the kurtosis were found out the normality. The scores from the data were removed as they were Outsider. The Outsider was found with the help of Box plots through SPSS. The create norms used for the Percentile method. The present norms of 12 finally selected test items indicate that the distribution of scores of almost all the test-items resides in the normal range of probability curve. The raw data was further converted into standard scores for the combining or comparing scores.

Reliability, objectivity and validity of the test battery:

The test battery was determined by standardization the validity, reliability and objectivity, Test- retest for reliability, correlation between different observers for objectivity and face validity were taken into consideration for the standardization of the test battery, data of the same is presented in table 1 and grading scale is presented in table 2.

Table 1
Reliability, objectivity and validity of the test battery

Test Battery components	Reliability coefficient	Objectivity coefficient	Validity
Skill	0.88	0.90 to 0.93	Content validity
Physical Fitness	0.96	0.91 to 0.96	Content validity
PEFR	0.97	0.96 to 0.97	Content validity

Table 2

Grading Scale on Item-wise Performance for Selection of Softball Players

Test-Items	Poor	Average	Good	Excellent
Bent Knee Sit-Ups (Reps)	26 and Below	27 to 30	31 to 35	36 and Above
Shuttle Run (sec)	12.19 and Above	12.18 to 11.86	11.85 to 11.20	11.19 and Below
50 m Run (sec)	7.09 and Above	7.8 to 6.76	6.75 to 6.35	6.34 and Below
SLBM	23 and Below	24 to 30	31 to 40	41 and above
Sit and Reach (cm)	41 and Below	42 to 47	48 to 54	55 and Above
Standing Broad Jump (m)	169 and Below	170 to 189	190 to 198	199 and Above
12 min Run & Walk (m)	2309 and Below	2310 to 2569	2570 to 2708	2709 and Above
PERF	419 and Below	420 to 479	478 to 508	509 and Above
Running with the ball	7.02 and Above	7.03 to 6.44	6.45 to 5.91	5.92 and Below

The performance norms of each item were graded as poor, fair, average, good, and excellent on the basis of Rank order method. Grading scale of the composite score was given to help in selection. Working of Test Battery- After detailed study the test items which were included were divided into 3 groups.

1. Physical Fitness 2. Skill 3. PERF

To the scores of all above test is possible but it that has some could create problems during the selection making it faulty which could be minimized by dividing the test in three heads in which skill test being the preliminary test where should score at least score average in the composite score to be considered for the further physical test score to be considered. The score of tests under each head should be added separately to get three scores and then considered for selection.

Result and conclusion:

The present study will be a significant contribution to the Softball and sports in general. The knowledge from this study will supplement the literature of Indian Physical Education and Sports, in general, and District Level Softball in particular. The study will be helpful to selection committee, coaches, physical education teachers, clubs and players. The test battery constructed should be used by selectors to select Softball teams. The norms should be certainly one of the criterions to be reached by players to be in the junior football team. Even if the test battery is constructed for selection Softball players it should be used as an assessment tool of the players to determine the standards of the player. The Norms available should be used to distinguish players having excellent potential. Softball coaches and physical education teachers should use the norms for assessing and evaluating their players and getting feedback of improvements. Similar studies related to different age group and games should be done. Researcher recommends the use of test battery, norms and grading prepared.

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