

DEVELOPMENT OF SKILL TEST IN SPORTS: A META-ANALYSIS

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ABSTRACT

To win a team game requiring many skills, each member of the team must perform to the best of their abilities. In sports, players might be assessed subjectively or objectively. Skill exams in relevant sports disciplines are helpful. In an objective appraisal of the player. Sports skill assessments assess fundamental abilities required for certain sports. Thus, coaches and researchers frequently employ tests that assess skill outcomes in sports to estimate an athlete's ability level, evaluate the effectiveness of therapies, or identify talent. The search on google scholar, PubMed, SPORTDiscus and MEDLINE databases was conducted. Upon examining all research from both primary and secondary sources, nine papers were identified as appropriate variable selection and variable are number of subject, age group, significance level statistical method and skill test method.

INTRODUCTION

Every single test went smoothly according to standard methodology of statistically assessing a limited number of straightforward test items to judge its overall involvement in sports and games. Skill assessments were created to assess the fundamental talents required for a certain sport (AAHPERD, 1968). A test battery is a collection of materials and abilities tests. Meanwhile, the nature of the battery of tests used to assess essential skills should be field-based rather than lab-based. Because the field-based test items highlight real-world scenarios, assessing the player in a real-world scenario is recommended. Skill assessments necessitate a game-like setting as well as regulated administration techniques. The similarity between test and performance conditions is used to assess the validity of skill assessments. This does not necessitate replicating the exact playing environment; instead, the movement's and actions should closely resemble elements who play a true sport. The value of skills testing is a point of contention. Many skill assessments provide an objective, trustworthy, and valuable method of assessing motor skill targets, but some may do. It's not recommended to employ skill tests that do not meet evaluation needs or the critical mass testing. Use exams that are specifically created for students. There are existing standards for validity, reliability, and practicality. The same age, gender, age group, and experience test can also be tailored to meet the requirements.

METHODOLOGY

Out of the initial pool of 150 papers, nine were chosen for analysis. The selected studies were evaluated based on age, number of individuals, performance, and level of significance. Methods. Meta-analysis was done using frequency and percentage (%) to assess sample size, degree of significance, statistical method, age, and other important factors. The studies included in the review are shown as follows:

RESEARCH CODE	YEAR	Author	TITLE
1.	2018	Sheila Stephan	Construction of Skill Tests and Compilation of Norms for selected field hockey skills.
2.	2017	Shunmuganath,D.	Comparison of anthropometric variables & gross motor skill's performances among primary school boys and girls.
3.	2019	Harmanpreet Kaur	Construction and standardization of taekwondo skill test.
4.	2017	Elango,M,Shunmuganathan,D	Construction of hockey skill's tests battery for tamil nadu Fourteen to sixteen yrs.
5.	2015	Madialagan S.	Construction of selected anthropometric and motor fitness variables to soccer performance among adolescent boys.y
6.	2018	Kalidasan R.	Design and development of Skill's tests Battery in Ball Badminton.

7.	2016	Nageswaran,AS	The, development & Evaluation of a battery of football skill's tests.
8.	2015	Dinetta J.Cothran	Six Volley Ball skill's test as a Predictor of Game performance.
9.	2014	T.E.Carl Woods	The use of skill's test to predict status in junior Australian football.

Figure 1: Flow Chart Depicting the Selection of Studies for the Review on the Development of Sports Skills Tests

TOPICS	PAPERS	PERCENTAGE	VARIABLES
Highest number of subjects used in papers	2	22%	Less Than 100
Sports skill Test	1	11.11%	Drills/Test
Level of Significance	9	100%	Level of Significance
Method	9	100%	Descriptive statistics
Age	5	55.55%	14-19 age

CONCLUSIONS

In my examination of the different studies mentioned above, I came to conclusions concerning the factors of subject, age, significance level, statistical technique, and particular skill test items. I now infer that the majority of the research' subjects total less than 500. The age range of 13 to 19 is mostly used in these research to design test batteries for sports. The significance threshold for all of the research mentioned above is 0.05, which provides us a sense of their degree of accuracy. The statistical procedure used is completely descriptive. Only one of the studies listed above took the specific skill test item. The specific skill test item is not given much attention, It seems that this spot has a lot of assurance for advancement and should be examined more.

1. S.G, "Speedball Skill Tests for College Women." In A Practical Approach to Measurement in Physical Education, 3rd ed., Henry Kimpton Publisher, London, Great Britain: H. M. McGee, 1979, p. 371.
2. A.A.Lockhart, "The Development of a Test of Badminton Playing Ability." In Textbook of Applied Measurement, Evaluation and Sports Sciences, 2nd ed., SSS Publications, New Delhi, India: D. K. Kansal, 2008, pp. 391-392.
3. AAPHER, "Basketball Skill Test Manual for Boys." In Textbook of Applied Measurement, Evaluation and Sports Sciences, 2nd ed., SSS Publications, New Delhi, India: D. K. Kansal, 2008, pp. 360-361.
4. C. C, "A Study of Measurement of Ability in Handball." In Textbook of Applied Measurement, Evaluation and Sports Sciences, 2nd ed., SSS Publications, New Delhi, India: D. K. Kansal, 2008, pp. 364-365.
5. M.A.Clifton, "Single Hit Volley Test for Women Volleyball." In Textbook of Applied Measurement, Evaluation and Sports Sciences, 2nd ed., SSS Publications, New Delhi, India: D. K. Kansal, 2008, p. 377.
6. B.G.F, "Premilinary Investigations Volleyball Playing Ability." In Textbook Applied Measurement, Evaluation and Sports Sciences, 2nd ed., SSS Publications, New Delhi, India: D. K. Kansal, 2008, pp. 376-377. Of
7. R.D.Knox, "Basketball Ability Tests." In Scholastics Coach, 17 (3), 1947, pp. 19-21.

8. R.Singh, "Construction of Soccer Playing Ability Test," Unpublished Doctorate Thesis, Department of Teacher Education, Lakshmibai National University of Physical Education, Gwalior, Uttar Pradesh , Ph.D. dissertation, 2002.
9. R.K.Viswanathan,, "Construction of Hockey Skill selected skill tests for Tamil Nadu School Boys for Fourteen and Sixteen Years.," Ph.D. dissertation, Department of physical education, Manonmaniam Sundaranar University, Tamil Nadu , Ph.D,2010.
10. D. K. Dureha, "Construction of an objective skill test in hockey", Unpublished M.Phil. Thesis, Department of physical education, University of Pune, Pune, M. Phil (1985).
11. Friedel Jean Elizabeth ,"The development of a field hockey skill test for high school girls", Unpunlished Master's Thesis, School of Health, Physical Education and Recreation, University of Oregon, M.S. Illinois State Normal University 1956.
12. P. Anbarasu," Construction of Skill Tests and Computation of Norms in Field Hockey", Unpublished dissertation of Doctor of Philosophy, Department of physical education, Tamil Nadu Physical Education and Sports University, Tamil Nadu , Ph.D, 2010.
13. A.P.Aver, "A Practical Tennis Serve Test, Measurement of Skill under Stimulated Game Condition" Research Quaterly for Exercise & Sports Sciences, vol.50, issue 4, 1979, pp.554-564.
14. N.L.Chapman, "Chapman Ball Control Test- Field Hockey" Research Quaterly for Exercise and Sport, vol. 53, issue 3, 1982, pp. 239-242.
15. T.M.Downs, "Validating a Special Olympics Volleyball Skills Assessment Test" APAQ, vol. 13, issue 2, 2008, pp. 166-179.
16. M.S.French, "Achievement Test in Field Hockey for College Women", Research Quaterly For Exercise & Sport, vol. 34, issue 84, 1940.
17. G.B.Gabbett, "The Development of a Standardized Skill Assessment for Junior Volleyball Players", Inetrnational Journal of Sports Physiological Performance, vol.1, issue 2, 2006, pp. 95-107.
18. M.T.gemser, "Development of the Tactical Skills Inventory for Sports, Perceptual and Motor Skills", International Journal of Sports Sciences, vol.3, issue 3, 2003, pp. 883-895.
19. W.B.Hensley, "A Racquetball Skills Test", Research Quaterly for Exercise and Sports Sciences, vol. 50, issue 1, 1973, pp. 114-118.