

CHAPTER 46

PHYSICAL EDUCATION  
&  
SPORTS SCIENCES

Doctoral Theses

01. GAHLOT (Parveen)  
**A Comparative Study on Psychological, Physiological and Anthropometric Profile of Low and High Level Badminton Players.**  
Supervisor : Dr. Anil Kr. Vanaik  
Th 23618

*Abstract*  
(Not Verified)

ParveenGahlot, Ph. D Research Scholar, Department of Physical Education and Sports Sciences, University of DelhiThe present study was undertaken to understand the Psychological, Physiological andAnthropometric profile of Indian National Level Badminton Players. For the purpose of thestudy a total of 150 male badminton players were purposively selected to act as subjects forthe study, out of which the 33% above (High Level) and 33% below (Low Level) were selectedand the rest 33% were excluded. The subjects were selected from all over India in differenttournaments/clubs/academies based on their ranking at national and International level. Theage of the subjects ranged between 17 to 30 years and the mean age of the subjects wasfound to be 21 (+SD) years. The subjects were divided into high and low level according to theirperformance assessed by conducting Lokhart McPherson Test (December 1949). Keeping inmind the feasibility criterion and with the consultation of experts and guide the followingvariables have been set for the study Personality, Sports Competitive Anxiety, Motivation,Biceps Skin Fold, Triceps Skin Fold, Calf Skin Fold, Thigh Skin Fold, Shoulder BreadthMeasurement, Wrist Measurement, Waist Circumference, Upper Arm Circumference, CalfCircumference, Thigh Circumference, Vital Capacity, Blood Pressure and Body Mass Index,standardized assessment tools were used for the collection of the data, the collected dataunderwent descriptive analysis followed by independent t test and Spearman's rank ordercorrelation.  
Keywords: Anxiety, Anthropometry, Body Mass Index, Vital Capacity

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1. Introduction 2. Review of Related literature 3. Procedure and methodology  
4.Procedure for establishing scientific authenticity 5.Summary, Conclusions and  
recommendations. References. Appendices.

02. NANDA (Inderpreet Kaur)  
**Construction and Validation of Hockey Sill Tests on Female Hockey Players.**  
Supervisor : Dr. Sarita Tyagi  
Th 23617

*Abstract*  
(Not Verified)

The performance of an individual is his efficiency in executing his skills and techniques in a fruitful manner during a game. Skill is relative quality, not to be defined in obsolete terms. Performance displayed by an individual may be skilled when compared to his less skilled peers in the neighborhood. But in contrast when compared to a club or a college team member may appear unskilled. For the present study the dribbling, hitting, pushing, stopping and passing skill tests were constructed for female hockey players of Delhi-NCR age ranged from 17 to 25 years. The objective of the study was to assess the skill ability of the player, to set the reliability, validity & objectivity of the skill test and finally to construct the norms. The data for 5 skills consisting of 15 test items was collected on 50 subjects of Delhi University colleges and factor analysis, partial and multiple correlations were computed to filter the test items. Scientific authentication of the filtered skill test items was computed on 50 subjects. For development of norms 200 subjects of Delhi-NCR female hockey players who had past three years of experience in field hockey. The result reveals that there was inter-relationship between the performances of selected test items. Total eight test items from the seven factors describing player specific skill ability, which had high loading were selected to constitute the 'Field Hockey Skill Tests'. The playing ability performance score of the players were interpreted by using grading scale on the basis of Hull Scale as A, B+, B, C & D (or) Good, Above Average, Average, Below Average & Poor respectively according to their overall performance score based on the percentiles norm, which was developed for all the selected test items.

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4. Analysis of data and results of the study 5. Summary, conclusions and recommendations. References. Appendices.

03. ROHIT KALIA  
**Normative Study of Physical fitness Based on NCA-BCCI Protocol for Under -19 Male Cricket Players of North Zone, India.**  
Supervisor : Dr. Rakesh Gupta  
Th 23616

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1. Introduction 2. Review of the related literature 3. Procedure and methodology  
4. Results of the study and analysis of data 5. Summary, conclusions and recommendations. Appendices. Bibliography.