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Digvijay Chauhan

Assistant Professor, Department
of Physical Education,
Government College, Saraswati
Nagar, Himachal Pradesh, India

Assessment of relationship of playing ability variable 16mts goal shooting between soccer players of university, colleges, sports hostel and schools

Digvijay Chauhan

Abstract

The purpose of the study was to assess the relationship of playing ability variable 16mts goal shooting between soccer players of University, Colleges, Sports Hostel and Schools with the range of 18-23 years. The selected playing ability variable 16mts goal shooting to test the scoring ability and accuracy of the soccer player the test item was developed by Van Russom and Witzbeng 1993. Mean and standard deviation were used as descriptive statistics. ANOVA technique is used to tackle data to find out F value of soccer players of University, Colleges, Sports Hostel and Schools. ANOVA was used with the significant level at 0.05. The multiple comparison has been executed with the help of INOVA among soccer players of University, College, Sports Hostel and Schools of Himachal Pradesh. In the explanation of findings the study can be used as a criteria regarding selection of players at a suitable time to start a training systematically and scientifically.

Keywords: Soccer, ball juggling, slalom dribble, accuracy, variables

Introduction

To succeed as elite Soccer player, player require a high level of physical fitness to cope up with the technical and tactical skills to be used during the match. In term of physiological demands, soccer is considered as a game of high level of Aerobic and Anaerobic capacity. Along with the physical fitness it is important in soccer to make a balance between body and ball which is known as playing ability. To improve playing ability following test items are given as 16 meters goal shooting, kicking for distance and accuracy, Ball Juggling and slalom dribble.

The present study was done to assess the relation between soccer playing ability of soccer players from Colleges and soccer players of University, Sports Hostel and Schools to get the hypothetically desired results. It was exceptive that there would be significant relationship in selected playing abilities of College soccer players with soccer players of University, Sports Hostel and Schools.

Methodology, selection of subjects

For this project researcher selected 121 male soccer players from four categories of Himachal Pradesh University, Colleges, Sports Hostel and Schools as subjects ranging with the age of 18-23 years.

Selection of variables

By keeping the objective in mind, the researcher selected the following variables for the present study 16mts goal shooting was selected as an independent variable and soccer players of University, Colleges, Sports Hostel and Schools were taken as a dependent variables.

Criterion measures

Selected variable and their purpose and criterion measures.

Corresponding Author:

Digvijay Chauhan

Assistant Professor, Department
of Physical Education,
Government College, Saraswati
Nagar, Himachal Pradesh, India

Table 1: The variables and category numbers

| Variables | Category | Numbers | Measuring Unit |
|--|------------------------------|---------|----------------|
| 16mts Goal Shooting (Scoring ability and accuracy) | University Soccer Players | 34 | in points |
| | College Soccer Players | 30 | in points |
| | Sports Hostel Soccer Players | 27 | in points |
| | Schools Soccer Players | 30 | in points |

Statistical analysis

To find out the significance relation between the selected playing ability variable 16mts goal shooting of soccer players of University, Colleges, Sports Hostel and Schools. The data were analyzed by descriptive statistics, analysis of variance and multiple comparison of 16mts goal shooting among soccer players of University, College, Sports Hostel and Schools. The level of significance was setup at 0.05.

Result of the Study

The data were obtained by applying 16mts goal shooting for scoring ability and accuracy employed on 121 soccer players

of University, Colleges, Sports Hostel and Schools of Himachal Pradesh.

Table 2: Descriptive Table (University soccer players)

| Descriptive Statistics | | | |
|------------------------------------|-------|----------------|-----|
| Dependent Variable: Sixteen meters | | | |
| Between Groups | Mean | Std. Deviation | N |
| University | 34.76 | 5.873 | 34 |
| College | 31.47 | 3.794 | 30 |
| Sports Hostel | 31.07 | 3.222 | 27 |
| Schools | 33.07 | 8.432 | 30 |
| Total | 32.70 | 5.883 | 121 |

In 16mts goal shooting the soccer players of University performed maximum with the mean value of 34.76 and standard deviation value is 5.87 followed by soccer players of Schools, College and Sports Hostel with the mean value 33.07, 31.47, 31.07 and standard deviation 8.43, 3.79, 3.22 respectively.

Table 3: Analysis of Variance

| Analysis of Variance of 16mtrs Goal Shooting | | | | | |
|--|---------------|----------------|-----|-------------|---------|
| Dependent Variable: 16mtrs Goal Shooting | | | | | |
| Variable | Source | Sum of Squares | DF | Mean Square | F Value |
| 16mtrs Goal Shooting | Between Group | 265.986 | 3 | 88.662 | 2.669 |
| | Within Group | 3887.303 | 117 | 33.225 | |
| | Total | 4153.289 | 120 | | |

From the perusal of table-20 clearly indicates that there were significant differences found among various groups of soccer players of University, College, Sports Hostel and Schools on the variable of 16mts Goal Shooting the value of F obtained at

.05 level was 2.669 whereas, the value needed for significance was 1.98 for 3 and 117 degrees of freedom at 0.5 level. Multiple comparison of 3 hops with right leg of soccer players among University, College, Sports Hostel and Schools.

Table 4: Multiple Comparisons

| Multiple Comparisons | | | |
|------------------------------------|--------------------|-----------------------|------|
| Dependent Variable: Sixteen meters | | | |
| Tukey HSD | | | |
| (I) Between Groups | (J) Between Groups | Mean Difference (I-J) | Sig. |
| University | College | 3.30 | .108 |
| | Sports Hostel | 3.69 | .068 |
| | Schools | 1.70 | .643 |
| College | University | -3.30 | .108 |
| | Sports Hostel | .39 | .994 |
| | Schools | -1.60 | .705 |
| Sports Hostel | University | -3.69 | .068 |
| | College | -.39 | .994 |
| | Schools | -1.99 | .563 |
| Schools | University | -1.70 | .643 |
| | College | 1.60 | .705 |
| | Sports Hostel | 1.99 | .563 |

A look at the result depicted in table no- shows that the mean difference on 16mts goal shooting of University soccer players with soccer players of College, Sports Hostel and School is 3.30, 3.69, 1.70 and P value is .108, .068, .643 respectively.

As comparison of College soccer players with soccer players of University, Sports Hostel and School mean difference is -3.30, .39, -1.60 and P value is .108, .994, .705 respectively.

As soccer players of Sports Hostel compared to soccer players of University, College and Schools mean difference value is -3.69, -.39, -.99 and P value is .068, .994, .563 respectively. The last comparison of soccer players of Schools with soccer players of University, College and Sports Hostel on 16mts goal shooting the mean difference value is -1.70, 1.60, 1.99 and P value is .643, .705, .563 respectively.

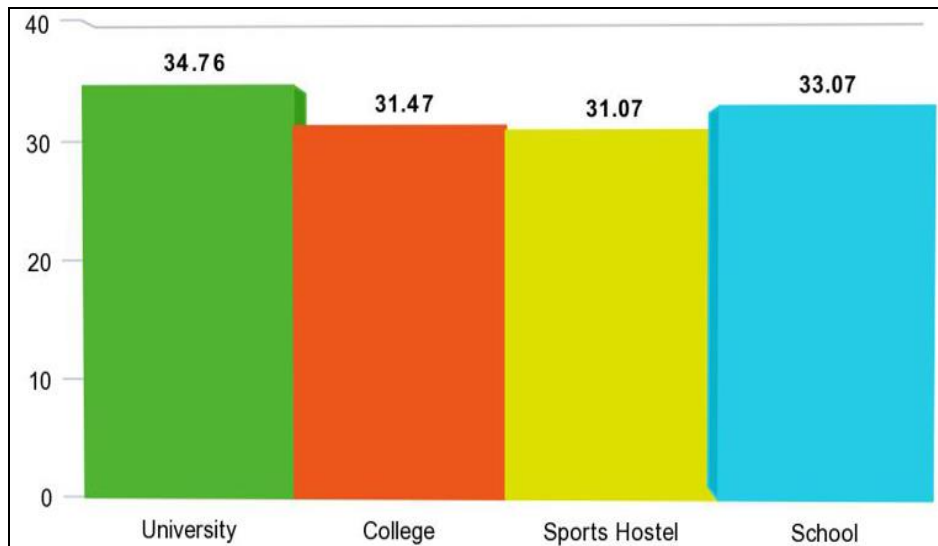


Fig 1: Graphical representation of mean soccer skill variable on 16mtrs Goal Shooting

Discussion of the study

The finding of the study reveals that accuracy of soccer player differ significantly each other on 16mts goal shooting by soccer players of University, College, Sports Hostel and Schools of Himachal Pradesh. It was supported by Zelenka *et al.* 1964 found significant relationship. Sprint with sharp change of direction, jumping and crawling under low hurdle. KWAN KWOK FUNG 2009 evaluated both physical and soccer specific physical fitness test which is known as physical technical test (PT Test) was soccer specific field test. According to researcher most interesting data came out when the beep test was compared to soccer specific interval test (SSIT), the SSIT co-related significantly to the 0.05 level with all other performance based tests while the beep test only co-related significantly to the other conditioning based test. There are few more research were also supported to present study such as Bangsbo 1994 included sports test specifically designed for soccer players do compare fastest and slowest sprint.

Conclusion of the study

There is non-significant relationship found by soccer players of University on 16mts goal shooting with soccer players of College, Sports Hostel and Schools.

There is non-significant relationship found by soccer players of College on 16mts goal shooting with soccer players of University, Sports Hostel and Schools.

There is non-significant relationship found by soccer players of Sports Hostel on 16mts goal shooting with soccer players of University, College and Schools.

There is non-significant relationship found by soccer players of Schools on 16mts goal shooting with soccer players of University, College and Sports Hostel.

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