

COMPARISON OF RHYTHMIC ABILITY OF FEMALE SOCCER PLAYERS OF TRIPURA STATE AT DIFFERENT LEVELS

(Received on: 12 April 2013, Reviewed on: 16 June 2013 and Accepted on: 19 Aug 2013)

Dr. Sudip Das, Assistant Professor,
Department of Physical Education,
Tripura University, Tripura.



Abstract

The purpose of the study was to compare the rhythmic ability of Female Soccer Players of Tripura state at different levels. The subjects for this study were from the state of Tripura. A total of ninety Female subjects were selected. Thirty subjects were selected from each level i.e. Sub-division, District and State. Rhythmic ability was scored as the difference between the timing of the first and second attempts were taken as the score. To compare the rhythmic abilities and motor ability of Female Soccer Players of Tripura State at different level, the Mean, Standard Deviation and Analysis of Variance was applied at 0.05 level of significance. No significant difference was found in case of Rhythmic Ability.

Keywords: Junior level, Rhythmic Ability, Sub Junior level, Senior level, Soccer.

Introduction

Coordination is important for exhibiting top class performance in game and sports and Soccer is no exception to it. The coordinative ability plays a significant role for learning consolidation and mastery of skills. Dribbling and shooting are the skills which occurs frequently in Soccer and it assumed that these skills may have strong relationship with coordinative abilities. A soccer player gets very limited time to shoot into the goal and enhance reaction ability plays a vital role. Besides reaction ability the other abilities namely, Balance, Rhythm, Coupling, Adaptation. Orientation ability, Balance ability plays a vital role in the performance of skills in the Game of Soccer. The purpose of the study was to compare the rhythmic ability of Female Soccer Players of Tripura State at different levels. The study was delimited to the rhythmic ability. Limitations of the study were (i) Personal habits of subjects and their state of mind as well as emotional stresses and strains and other factors which might have effected on the result of this study could not be controlled was to be considered as the limitation of the

study and (ii) Certain factors like diet, daily routine habits, facilities, training, geographic conditions etc. that may effect on the results of the study was considered as the limitation of the study.

Aim and objective

The aim and objective of the study was to comparison of Rhythmic ability of female soccer players of Tripura state at different levels.

Material and Methods

Subject

The subjects for this study were from the state of Tripura. A total of ninety (90) female subjects were selected. Thirty subjects were selected from each level i.e. Sub Junior, Junior and Senior. The age group were ranging between 18-25 years.

Procedure

Rhythmic ability was scored as the difference between the timing of the first and second attempts was taken as the score. Data was collected from the subjects when they were not busy and had enough time to spare for testing during the coaching camp. Necessary instructions were given to the subjects before the administration of test. The subject has to run a distance of 30m. marked between two lines with maximum sprinting speed. The sprinting time of the subject was recorded by stop watch. In the second attempt the subject had to run at a particular rhythm with maximum speed through eleven hoops which was arranged systematically. Three hoops were kept in a sequence against each other at a distance of 5 m from the starting line. Similarly three hoops were kept at a distance of 5 m. from the finishing line. Five more hoops were kept in a sequence in the middle of the running distance. The subject had to run through those hoops, stepping each hoop. The scholar will explain the test along with one demonstration and each subject was given one trial run. Scoring: The difference between the timing of the first and second attempts was taken as the score.

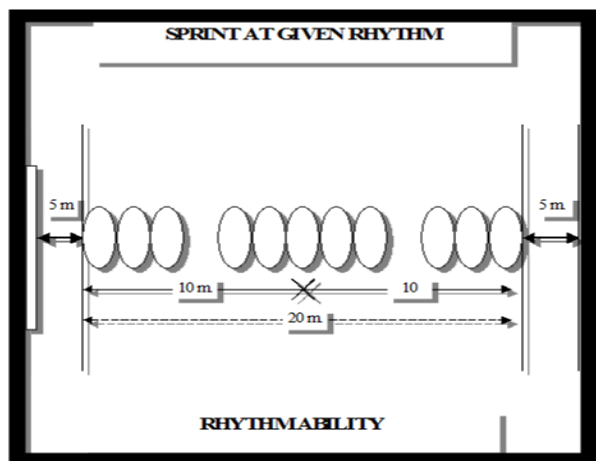


Fig. Sprint at the Given Rhythm Test

Result

Result of the study has been presented in tabular and graphical form for the component of differentiation ability where * shows to be significant at 0.05 level.

TABLE -1
DESCRIPTIVE STATISTICS OF FEMALE SOCCER PLAYERS (SUB-DIVISION, DISTRICT AND STATE) OF TRIPURA STATE IN RELATION TO RHYTHMIC ABILITIE

Rhythmic Ability (Sec)	Sub-Division	30	1.44	0.18
	District	30	1.56	0.21
	State	30	1.55	0.19
	Total	90	1.52	0.20

Table-1 clearly indicates the Mean and Standard Deviations of Female Soccer Players of Tripura State (Sub-division, District and State) in relation to Rhythmic Abilitie. The observed mean and standard deviation of Rhythmic Ability (Sec) Sub-division 1.44 ±0.18 District 1.56 ±0.21 State 1.55 ±0.19 Total 1.52 ±0.20.

Table-1
ANALYSIS OF VARIANCE OF FEMALE SOCCER PLAYERS OF TRIPURA STATE BELONGING SUB-DIVISION, DISTRICT AND STATE LEVEL IN RELATION TO RHYTHMIC ABILITY

	Sum of Squares	df	Mean Square	F
Between Groups	0.247	2	0.124	3.050
Within Groups	3.525	87	0.041	
Total	3.772	89		

Tab. F .05 (2, 87) = 3.09

It appears from the Table-1 that the computed value of F (3.05) among different level of Female Soccer Players of Tripura State (i.e. Sub-division, District and State) in Relation to Rhythmic Ability was less than the tabulated (3.09), F at .05 level . Therefore null hypothesis among different level of Female Soccer Players of Tripura State (i.e Sub-division, District and State) in relation to Rhythmic Ability was accepted at 0.05 levels.

Table-2

ANALYSIS OF VARIANCE OF FEMALE SOCCER PLAYERS OF TRIPURA STATE BELONGING SUB-DIVISION, DISTRICT AND STATE LEVEL IN RELATION TO AGLITY

	Sum of Squares	df	Mean Square	F
Between Groups	1.342	2	.671	.503
Within Groups	116.039	87	1.334	
Total	117.381	89		

Tab. F .05 (2, 87)= 3.09

It appears from the Table-2 that the computed value of F (.503) among different level of Female Soccer Players of Tripura State (i.e. Sub-division, District and State) in relation to agility was less than the tabulated (3.09), F at .05 level .

Discussion

In the present study no significant difference was found in case of Rhythmic Ability. At each level the training provided may have equal effect on the rhythm development of the Female soccer Players and the findings of the present study was supported by the study of K. P. Manilal et.al and Shine. C. Senan.

Conclusion

No significant difference was found in case of Rhythmic Ability.

Reference

Hodgkins ,Jean, (1963) "Reaction Time and speed of movement in Males and females of various age", Research Quarterly 34, p: 335.
 Lemon ,Eloine and Sherbon, (1934) Elizabeth "A study of the relationship of certain measures of rhythmic ability and notor ability in girls and women" Research Quarterly 5:1, p: 82.
 Lotter, Williard S., (1960) Interrelationship among Reaction Times and speed of movement in different limbs Research Quarterly 31 147.
 Manilal, K.P. Sebastian, P.J. and Thomas Raju, (1990) "Comparison of Coordinative Abilities of Junior Indian Basketball and Volleyball female players," Unpublished Research Report, Bangalore N.S.N.I.S.,)
 Senan, Shine C. (1994) "Comparative Study of Correlative Ability of Bachelor of Physical Education Students" (Unpublished master's Thesis, LNIPE.),
 Wilson, Don. J. (1957) "Quickness of reaction and movement related to rhythmically and non rhythmically of signal presentation" Research Quarterly 30:1 p: 101.