

Comparative Study of Cardio Vascular Respiratory Fitness of Player of Varied Sports

Deep Mala Gautmi¹, Shiv Krishna Singh²

¹Research Scholar Physical Education

²Research Scholar, University of Lucknow, Uttar Pradesh, India

Abstract: The objective of the study was to find out the 'Comparative study of cardio Respiratory fitness of player of sports. **Method:** For the purpose of study 300 Boys were selected to Different sports. Their age range from 17-22 years, cardio vascular fitness was selected as a variable the cardio respiratory fitness was measured by 20 minute Study State Boy. To find out the significant difference of cardio Respiratory fitness among different sports. Descriptive Statistics and analysis of variance (Anova) was used. The level of significance was set at .05 level. **Result:** The result reveals that there is insignificant difference found among Football Player, Basket ball Player, Handball Player at 0.05 level it indicates that player of football, Basketball, Handball do not differ significantly on their cardio-respiratory fitness. **Conclusion:** There is significance on cardio respiratory fitness among football Player basket ball player and Handball Player.

1. Introduction

The cardio vascular System is responsible for the forecast set of adaptation in the body throughout exercise. It must immediately respond to change in cardio output is demand. As the product of heart rate and stroke volume which represents the volume of Blood being pumped by the heart each minute. Cardio output increase during physical activity due to an increase in both the heart rate and stroke volume value. At the beginning of exercises the cardio-vascular adaptations are very rapid "within a second after muscular contraction, there is a withdrawal of vagal out flow to the heart which is followed by an increase in sympathetic stimulation of the heart. This result is an increase in cardio output to ensure that blood flow to the muscle is matched to the metabolic needs" Both heart rate and stroke volume vary directly with the intensity of the exercise Performed and many improvement can be made through continuous training.

Cardio is one of most important things you can do for your body. Whether you want to lose weight burn fat or improve your health. There are plenty of choices for cardio exercise.

Cardio respiratory fitness refers to the ability of the body to perform prolonged Large muscle. Dynamic exercise at moderate to high levels an important part of overall Physical fitness.

Objective of Study

The Objective of the study was to compare respiratory fitness among players belonging to different sports.

2. Methodology

Selection of Subjects

For the purpose of this study (100 football, 100 basketball, 100 handball) player. Their age range from 17-22 years.

Selection of variables

Cardio Respiratory fitness was Selected as a variables.

Criterion Measure

The cardio respiratory fitness was measured by 20 Minutes steady start jog. The Maximum distance covered by the subject was recorded to nearest meter.

Administration of test

Instruct player to jog in 400 m tracks a steady rate the rough out the test. The signal "Ready start" and Jog continuous Discourage. Walking although if player have to walk they should continue moving throughout the 20 min period. It a Player the criterion referenced standard by walking rapidly by a combination of walking and running that is acceptable.

Statistical Analysis

To compare the means of cardio respiratory fitness belonging to different player descriptive analysis and one way analysis of variance (Anova) was used.

Finding – The data were analysis using descriptive analysis and further in order to find out the significant difference among different player ANOVA was applied .LSD post Hoc mean comparison was applied for variable having significant F-value.

Table 1: Descriptive Analysis of cardio Respiratory Fitness of football, Basketball, Handball players

Variables	Group	N	Mean	Standard Deviation	Standard Error
Cardio	Football	100	2914.22	399.94	39.98
Respiratory	Basketball	100	2944.12	406.37	40.64
Fitness	Handball	100	2996.22	397.22	38.97

Table 2: One way Analysis of variance of cardio Respiratory fitness of football Basketball, handball player

Source of variance	D.P	Sum of Square	Mean Square
Between Group	2	59600.668	29800.333
Within group	298	4.8028	161678.420

Significant at Top fu.05 (2.298)-4.70

3. Discussion of Finding

The statistical analysis of data pertaining to the cardio respiratory fitness among play football, basketball and handball revealed that there is insignificant difference found . This could be attributed to the fact the subject of this present study are of similar class of age group their growth and development patterns are of similar nature cardio respiratory fitness basically depends on genetically related frame work and training could not be significantly differentiated involving retreat physical activities.

4. Conclusion

Based on Statistical finding results of the study conclusion have been drawn and presented below. There is insignificance difference on cardio respiratory fitness among football, Basketball, Handball players.

References

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