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Effect of conditioning training programme on blood glucose level of male athletes

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Abstract

Biochemistry is the study of the chemistry of life process. Cross training also called conditioning training, is performed for enhancing athletic and sports execution. In this present study researcher made an attempt to explore the Impact of cross training programme on blood glucose level of male athletes. The study was conducted on male athletes of 20- 25 years age group. A total twenty (N=20) male athletes were selected as subjects from the Enlightened College of Physical Education, Jhunir, Mansa to check impact of cross training programme on blood urea level. After collecting the data paired t- test was applied with the help of SPSS-16. To test the hypothesis the level of significance was set at 0.05. On the basis of findings of present study, it is concluded that the results powerfully prove significant difference between pre and post-test of Blood Glucose Level in male athletes.

Keywords: effect, conditioning training, blood glucose, male athletes

Introduction

Biochemistry is the study of the chemistry of life process. Since the disclosure that biological particle such a urea could be integrated from nonliving segments in 1828, researchers have investigated the chemistry of existence with awesome power (Jeremy *et al.*, 2015) [5]. Cross training also called conditioning training, is performed for enhancing athletic and sports execution. The athletic execution or as whatever other kind of human execution, is not the result of one single framework or part of human identity (Rachna, 2001). In this present study researcher made an attempt to explore the Impact of cross training programme on blood glucose level of male athletes.

Procedure and Methodology

Selection of the Subjects

The study was conducted on male athletes of 20- 25 years age group. A total twenty (N=20) male athletes were selected as subjects from the Enlightened College of Physical Education, Jhunir, Mansa to check impact of cross training programme on blood glucose level.

Selection of Variables

- **Dependent Variable:** In consultation with the experts in the field, minutely gleaning through the literature available and considering the feasibility criteria in mind, especially the availability of instrument. The following Biochemical variable was selected as dependent variable for the present study.
 Blood Glucose (Random Blood Sugar)
- **Independent Variable:** To know the impact of cross training programme on blood glucose level of male subjects, Six weeks cross training programme was selected as independent variable for the present study. s

Criterion Measures

For the purpose of present study the measurement unit of the selected variable given below:

Variable	Test Analyzer	Unit Of Measurement (Milligrams Per Deciliter)
Blood Glucose (R.B.S)	Erba Chem- 5 V ₂ plus	mg/dl

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Design of the Study

One-Group Pretest Post-Test Group Design was used as experimental design in present study.

Statistical Procedure

In order to find out the effect of six weeks cross training

programme on blood glucose level of male subjects, after collecting the data paired t- test was applied with the help of SPSS-16. To test the hypothesis the level of significance was set at 0.05.

Findings

Table 1: Mean, Standard Deviation and ‘T’ Value Of Pre And Post Test Of Blood Glucose (Random Blood Sugar)

Group	N	Mean	Standard Deviation	t-value
Pre-Test	20	96.04	14.08	2.29*
Post-Test	20	90.25	13.26	

The table & figure 1 reveals that the mean of pre and post-test of random blood sugar were recorded as 96.04 & 90.25 whereas the standard deviation was 14.08 & 13.26 respectively. The calculated t- value for pre and post conditioning training programme of athletes was 2.29*, which

is greater than the tabulated t- value (2.04) at .05 level of significance. So, it implies that there was significant difference found between pre and post value of random blood sugar.

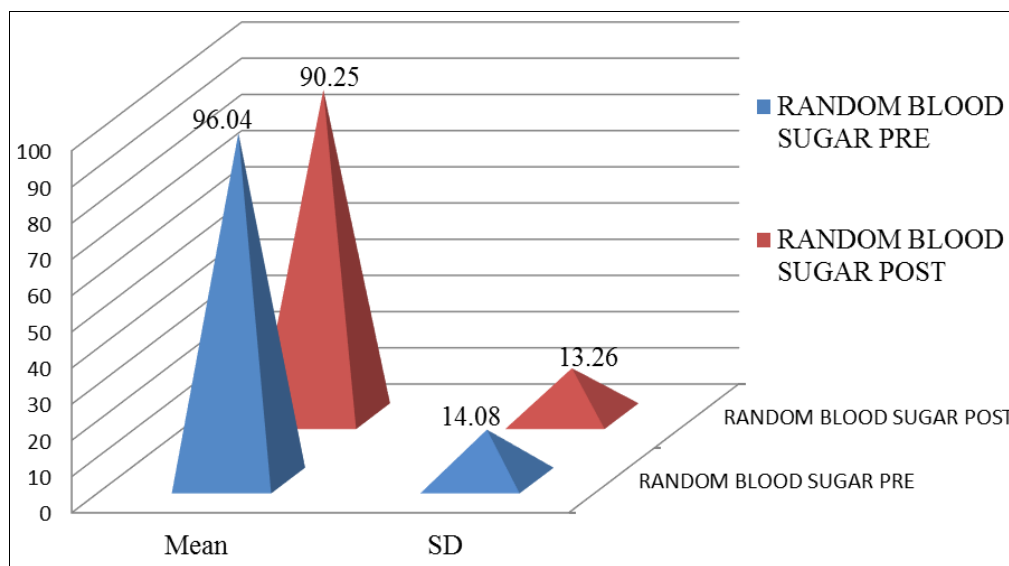


Fig 1: Mean and standard deviation and ‘t’ value of pre and post -test of blood glucose (random blood sugar)

Conclusion of the Study

On the basis of findings of present study, it is concluded that the results strongly prove significant difference between pre and post-test of Blood Glucose (Random Blood Sugar) level in male athletes.

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