



ISSN: 2456-4419

Impact Factor: (RJIF): 5.18

Yoga 2018; 3(1): 426-427

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www.theyogicjournal.com

Received: 07-11-2017

Accepted: 09-12-2017

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## Impact of cross 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 22- 26 years age group. A total thirty (N=30) male athletes were selected as subjects from Department of Physical Education, Punjabi University, Patiala 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:** cross 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).

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 22- 26 years age group. A total thirty (N=30) male athletes were selected as subjects from Department of Physical Education, Punjabi University, Patiala 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

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**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 <sub>2</sub> Plus	Mg/Dl

**Design of the Study**

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

**Statistical Procedure**

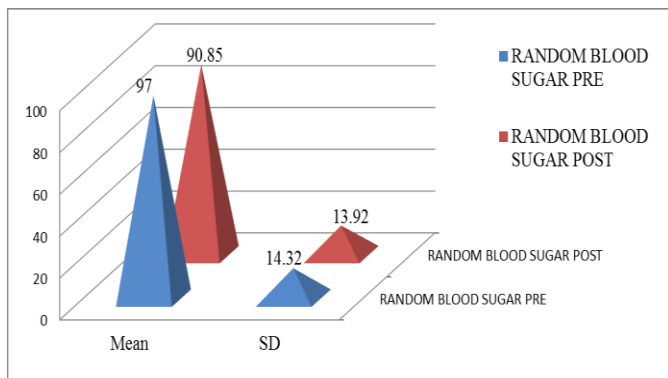
In order to find out the effect of six weeks cross training programme on blood glucose level of male subjects, after collecting the data paired t- test was applied with the help of SPSS-16. To test the hypothesis the level of significance was set at 0.05.

**Findings**

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

	N	Mean	Standard Deviation	t-value
Pre-Test	30	98.07	14.08	2.45*
Post-Test	30	91.45	13.26	

The table & figure 1 reveals that the mean of pre and post-test of random blood sugar were recorded as 98.07 & 91.45 whereas the standard deviation was 14.08 & 13.26 respectively. The calculated t- value for pre and post conditioning training programme of athletes was 2.45\*, 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 powerfully prove significant difference between pre and post-test of Blood Glucose (Random Blood Sugar) level in male athletes.

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