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# Analysis of effect of yogic exercise on Static and Dynamic flexibility amoung school students

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#### **Abstract**

The authors in thier research want to investigate the efect of three weeks exercise amoung students of XI(Boys and Girls)of DAV school in Ajmer. The pre and post test had taekn by the author by using Dynamicflexibility test. The test which was conducted by the author are Shuttle run test and Trunk and Neck test. Todetermine this difference between the pre and post result was employed at the significance level of 5%. Theauthors in his research want to find out the difference in pre and post effect of yogic exercise in the generalbody posture of the students under observation. In this research paper the author measures the stactic anddynamic flexibility effect on yogic exercise amoung school students.

Key words: - Dynamic and Static flexibility, Shuttle run test and Trunk and Neck test, comparative test.

#### Introduction

The history of yoga is very old in India and is one of the oldest form of exercise to keep onself fit. The yogic practices has also applied in the healing of many diseases, if practice properly under the guidance of expert. One of the best way to keep your self fit is to exercise regulary. In today's modern world the importance of yoga is growing very fast among all the sections of the society. In this fast moving lifestyle we don't have sufficient time to keep ourself fit, and due to which we are effecting from variour kinds of diseases. The flexibility are of two types: - passive

and active flexibility. In Case of passive flexibility during movement we require greater range with external help and in case of active flexibility during movement we require less movement as we do not require any external help. Active flexibility is always less than passive flexibility. The yogic practice is of great importance in keeping one self fit both physically and mentally. Especially in case of school students awraeness level is required, so that everyone benefit from it and make it habbit as a regular routine. Body movement defines your physical well being and regular yogic exercise will keep your self fit. The

author in his research wants to find out the pre and post effect of yogic exercise. For this the author conducts experiment on the control group under investigation to find out the pre and post effect of yogic excersice on school childrens.

#### **Literature Review**

Langpoklakpam Thumbi Devi and Nongmaithem Sundelal Singh (2014) in their research stated that, there is no immediate effect of yogic practices on flexibility but author in his finding stated that yogic practices help to improve dynamic flexibility. Deborah Bubela and Shanya Gaylord (2014) the authors in their finding stated that the children demonstrated significantly improved performance on the majority of the measures after participating in yoga training program. The author also stated that the yoga exercise help in the improvement of overall body postures. Ulger, O. and Yağlı, N. V. (2011) in their study with the purpose to investigate the effect of yoga found that the patient post result of gait parameter was higher than pre study. Harrison, A. J. and Bourke, G. (2009) in their study demonstrate, that training program (Physical exercise) can significant change in running speed than in normal condition. Kewal, Krishan et. al. (2004) on the basis of the study conducted by them on, the effect of the yogic asana on physical fitness of college students reveals that regular yogic practice of yogasana improved the physical fitness. Ghosh, S. K. (2003) under his study to find out the effect of yogic practices, found that there is decrease in pulse rate, respiratory rate and breath holding time as comprared to the control group.Robson Moses

(1973) in his research reported that students doing yogic exercise have reported positive effect on breath control flexibility. Pratap, V. (1968) in his finding support the view that yoga exercise increase steaniness in normal students who are participating in yoga exercise.

### **Objectives**

- 1. To find out the effect ofyogic practices on flexibility amoung school students
- 2. To find out the effect of yogic practices on Shuttle run test and Trunk and Neck test

#### **Research Methodology**

The study was conducted on the school students of Class XI of various DAV School in Ajmer.For this 80 studnets were slected randomly from the Class XI.40 boys and 40 girls.The averge age of the studnets participated in the exeriment is 15 to 17 years. For this the single group was designed for the experiment because the purpose of the study was to find out the effect of one experimental factor from a particular define situation. The purpose of the study is to detrmine the effect of yogic exercise on flexibility. For analysis mean, standard deviation tolls were used to test the pre and post effect of yogic exercise on the students under experiment.

#### **Analysis of Data**

 Pre-Post Test of Dynamic Flexibility for the Shuttle run test for Girls

Nature of Test	N	Mean	Standard Deviation
Pre Test	40	11.94	1.17
Post Test	40	11.08	1.17

Table 1:- Pre-Post Test of Dynamic Flexibility for the Shuttle run test for Girls

-The means **Interpretation:** and standard deviations for pre and post test of static flexibility shuttle run test of class XI (Girls) it was found that the score of the subjects was normal as per the national standards in pre test, difference is very significant as the score is in seconds and lesser the timing better the score, hence it could be said that the yogic practice has improved the dynamic flexibility of the subjects. The standard deviation in pre and post test was more or less same which suggests that the scores did not variate much among the subjects in pre as well as post test being from the same age group and sex.

# 2. Pre-Post Test of Dynamic Flexibility for the Shuttle run test for Boys

Nature of Test	N	Mean	Standard Deviation
Pre Test	40	11.58	1.53
Post Test	40	10.72	1.30

Table 2:- Pre-Post Test of Dynamic Flexibility for the Shuttle run test for Boys

**Interpretation:** -The means and standard deviations for pre and post test of dynamic flexibility shuttle run test of class XI (Boys) it was found that the score of the subjects was normal as per the national standards in pre test, difference is very significant as the score is in seconds and lesser the timing better the score, hence it could be said that the yogic practice has improved the dynamic flexibility of the subjects. The standard deviation in pre and post test was more or less same which suggests that the scores did not variate much among the subjects in pre as well as post test being from the same age group and sex.

# 3. Pre-Post Test of Static Flexibility for the Trunk and Neck test for Girls

Nature of Test	N	Mean	Standard Deviation
Pre Test	40	8.14	0.56
Post Test	40	9.41	0.32

Table 3:- Pre-Post Test of Static Flexibility for the Trunk and Neck test for Girls

Interpretations: - The means and standard deviations for pre and post test of Static Flexibility Test- Trunk and Neck, Class XI (Girls) it was found that the score of the subjects was normal as per the national standards in pre test, difference is very significant as the score is in seconds centimeters, hence it could be said that the yogic practice has improved the static flexibility- Trunk and Neck, of the subjects. The

standard deviation in pre and post test was more or less same which suggests that the scores did not variate much among the subjects in pre as well as post test being from the same age group and sex.

4. Pre-Post Test of Static Flexibility for the Trunk and Neck test for Boys

Nature of Test	N	Mean	Standard Deviation
Pre Test	40	8.56	0.24
Post Test	40	9.53	0.16

Table 4:- Pre-Post Test of Static Flexibility for the Trunk and Neck test for Boys

Interpretations:- subjects was normal as per the national standards in pre test, difference is very significant as the score is in seconds centimeters, hence it could be said that the yogic practice has improved the static flexibility- Trunk and Neck, of the subjects. The standard deviation in pre and post test was more or less same which suggests that the scores did not variate much among the subjects in pre as well as post test being from the same age group and sex.

#### **Discussions**

The purpose of writing this research paper is to find out the effect of yogic exercise in the normal body postures. The result of pre and psot effect were analyzed and, on the basis of finding it was found that the there is variation in pre and post observation amoung both boys and girls students. The result is not immediate but after continuous yogic practice there have been seen changes in the

normal body postures (Flexibility). Hence we have proved from the above research that yogic exercise play significant role in shaping body postures.

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