

Combination Of Walking Practices And Yogic Practices On Low Density Lipoprotein (Ldl) Among Middle Aged Women

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Abstract

The purpose of the present study was to investigate the efficacy of combination of walking practices and yogic practices on low density lipoprotein (LDL) among middle aged women. To achieve the purpose of the study thirty school students were selected from Karaikudi, Tamilnadu, India during the year 2019. The subject's age ranges from 35 to 45 years. The selected subjects were divided into two equal groups consists of 15 middle aged women each namely experimental group and control group. The experimental group underwent a combination of walking practice and yogic practices programme for six weeks. The control group was not taking part in any training during the course of the study. Low density lipoprotein was taken as criterion variable in this study. The selected subjects were tested on low density lipoprotein was measured through heparin precipitation method. Pre-test was taken before the training period and post-test was measured immediately after the six week training period. Statistical technique 't' ratio was used to analyse the means of the pre-test and post test data of experimental group and control group. The results revealed that there was a significant difference found on the criterion variable. The difference is found due to combination of walking practice and yogic practices given to the experimental group on low density lipoprotein when compared to control group.

Keywords: combination of walking practice and yogic practices, low density lipoprotein and 't' ratio.

Introduction

Everyday the human body have received some unwanted food store from the individual habits and its leads to some acute and chronic issues. Yoga is a great soul of the Universe. It can promote the social well being through limbs of yoga (Asanas, Pranayama, Kriyas, Mudras and Meditations). To practising yoga regularly it can make you into sound body and sound mind. Yoga is the costless permanents treatment for more diseases, alaguraja, k¹. It is a practical holistic philosophy designed to bring about profound state as well is an integral subject, which takes into Consideration man as a whole, alaguraja, k. et.al.,².

One can start practicing Yoga at any given moment of time and you may start with meditation or directly with pranayama without even doing the asanas (postures), alaguraja, k. et.al.,³. The science of Yoga Nidra is based on the receptivity of consciousness. When consciousness is operating with the intellect and with all the senses, by making an individual think that

he or she is awake and aware, but the mind is actually less receptive and more critical, yoga, p. et. al., 2019⁴. Training is a chain process that can be able to attain certain needs of the person's goal, alaguraja, k.⁵. In the sports world, physical education is the most essential aspect due to the fact physical schooling increases the performance and the effectiveness of the sports, alaguraja, k. et.al.,⁶. Today, sports have become a part and parcel of our culture. It is being influenced and does influence all our social institutions including education, economics, arts, politics, law, mass communication and even international diplomacy, alaguraja, k. et.al.,⁷. The sports training can produce some physical fitness, Physiological and psychological benefits to the person and attain performance related task. It's also promoting the individual overall wealth to the sports person, alaguraja, k.⁸. Yoga is a methodical effort towards self-perfection by the development of the potentialities latent in the individual, alaguraja, k. et.al.,⁹. Today's there is an escalating emphasis on appearing smarter, feeling better and living longer. In order to achieve these ideals

as, scientific evidence tells us that one of the keys is high fitness and exercises, alaguraja, k. et.al,¹⁰. Asanas is a limb of Yoga practice it can make some health related gains to the individual who involved in yogasana practice regularly. Asanas can be used upon the needs of the person. It's a scientific process the person must be follow the basic principles yogasana practice¹¹. Yoga is a practical aid, not a religion and its techniques may be practiced by Buddhist, Jews, Christians, Muslims, Hindus and Atheist alike. Yoga is union for all, selvakumar, k. et.al,¹². Yogic action, or inner technique, such as breath control, parthasarathy., s. et.al,¹³.

Research Methodology

Selection of subjects

The purpose of the study was to find out the effect combination of walking practices and yogic practices on low density lipoprotein (LDL) among middle aged women. To achieve this purpose of the study, thirty middle aged women were selected as subjects at random. The age of the subjects were ranged from 35 to 45 years.

Selection of variable

Independent variable

- Combination of walking practice and yogic practices

Dependent variable

- Leg Explosive Power

Experimental Design and Implementation

The selected subjects were divided into two equal groups of fifteen subjects each, such as a combination of walking practice and yogic practices group (Experimental Group) and control group. The experimental group underwent combination of walking practice and yogic practices for five days per week for six weeks. Control group, which they did not undergo any special training programme apart from their regular physical activities as per their curriculum. The following bio chemical variable namely low density lipoprotein was selected as criterion variable. All the subjects of two groups were tested on selected criterion variable low density lipoprotein was measured through heparin precipitation method at prior to and immediately after the training programme.

Statistical technique

The 't' test was used to analysis the significant differences, if any, difference between the groups respectively.

Level of significance

The 0.05 level of confidence was fixed to test the level of significance which was considered as an appropriate.

Analysis of the Data

The significance of the difference among the means of the experimental group was found out by pre-test. The data were analysed and dependent 't' test was used with 0.05 levels as confidence.

Table I: Analysis of t-ratio for the pre and post tests of experimental and control group on Low density lipoprotein (Scores in mg/dl)

Variables	Group	Mean		Degree of freedom	't' ratio
		Pre	Post		
Low density lipoprotein	Control Group	101.11	101.16	14	1.37
	Experimental Group	101.18	100.70	14	15.87*

*Significance at 0.05 level of confidence.

The Table-I shows that the mean values of pre-test and post-test of the control group on low density lipoprotein were 101.11 and 101.16 respectively. The obtained 't' ratio was 1.37, since the obtained 't' ratio was less than the required table value of 2.14 for the significant at 0.05 level with 14 degrees of freedom it was found to be statistically insignificant. The mean values of pre-test and post-test of the experimental group on low density lipoprotein were 101.18 and 100.70 respectively. The obtained 't' ratio was 15.87* since the obtained 't' ratio was greater than the required table value of 2.14 for significance at 0.05 level with 14 degrees of freedom it was found to be statistically significant.

Result of the Study

The result of the study showed that there was a significant difference between control group and experimental group in low density lipoprotein. It may be concluded from the result of the study that experimental group improved in low density lipoprotein due to six weeks of combination of walking practice and yogic practices.

Figure-1

Bar Diagram Showing the Pre and Post Mean Values of Experimental and Control Group on Low density lipoprotein

Discussions on Findings

The result of the study indicates that the experimental group, namely combination of walking practice and yogic practices group had significantly improved the selected dependent variable, namely low density lipoprotein, when compared to the control group. It is also found that the improvement caused by combination of walking practice and yogic practices when compared to the control group.

Conclusion

On the basis of the results obtained the following conclusions are drawn,

1. There was a significant difference between experimental and control group on low density lipoprotein after the training period.
2. There was a significant improvement in low density lipoprotein. However the improvement was in favor of experimental group due to six weeks of combination of walking practice and yogic

practices.

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Conflict of Interest: Nil.

Ethical Clearance

With respect to the above said Research Article involving human subjects for which the ethical clearance being sought, I am to state that I have gone through the "NIMHANS Ethical Guidelines.....Human Subjects" and am aware of the Helsinki Declaration of 1975, as revised in 2000 (5) rules governing the studies involving the human subjects. I am also aware that these guidelines are strictly to be followed while carrying out the above said research article involving human subjects.

References

1. Alaguraja, K. Analyze of combined asanas pranayama practices on psychosocial parameter among sports people. *Indian Journal of Applied Research*. 2019; 9, (10), pp. 73-74.
2. Alaguraja, K., & Yoga, P. Influence of yogasana practice on flexibility among obese adolescent school boys. *International Journal of Yoga, Physiotherapy and Physical Education*. 2017; 2(7), pp.70-71.
3. Alaguraja, K., & Yoga, P. Effect of yogic practice on resting pulse rate among school students. *Indian Journal of Applied Research*, 2019; 9, (7), pp. 43-44.
4. Yoga, P., Balamuralikrishnan, R., & Alaguraja, K. Influence of cyclic meditation on selected physiological parameter. *International Journal of Advanced Education and Research*, 2019; 4 (1), pp. 17-18.
5. Alaguraja, K. Analyze of combined asanas pranayama practices on psychosocial parameter among sports people. *Indian Journal of Applied Research*, 2019; 9, (10), pp. 73-74.
6. Alaguraja, K., & Yoga, P. Effect of core stability training on dynamic strength among college male students. *International Journal of Yogic, Human Movement and Sports Sciences*, 2018; 3 (2), pp. 436-437.
7. Alaguraja, K., Yoga, P., Balamuralikrishnan, R., & Selvakumar, K. A scientific study on efficacy of yogic package on resting pulse rate among obese school students. *Journal of Information and*

- Computational Science*,2019; 9(8), pp. 483-487.
8. Alaguraja, K. Analyze of combined asanas pranayama practices on psychosocial parameter among sports people. *Indian Journal of Applied Research*, 2019; 9 (10), pp. 73-74.
 9. Alaguraja, K., & Yoga, P. Analyze of pranayama technique on physiological parameter among rural school students. *Journal of Information and Computational Science*, 2019; 9(8), pp.545-550.
 10. Alaguraja, K., Yoga, P., James Rathinaraj, S., R., & Selvakumar, K. A study on yoga intervention on maximal oxygen uptake among stress patient. *Indian Journal of Applied Research*,2019; 9 (9), pp. 38-39.
 11. Alaguraja, K. Analyze of combined asanas pranayama practices on psychosocial parameter among sports people. *Indian Journal of Applied Research*, 20019; 9(10), pp. 73-74.
 12. Selvakumar, K., & Yoga, P. (2019). Influence of yogic practice on flexibility among college students. *Indian Journal of Applied Research*,2019; 9, (7), pp. 45-46.
 13. Parthasarathy., & Dhanaraj. A scientific study on combined effect of yogasana and shambhavi mahamudra practice on systolic blood pressure. *Indian Journal of Applied Research*,2019; 9(11), pp. 45-46.