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"The Effect of Yogasana and Pranayama on physiological, Physical and Psychological changes among sports hostel student".

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ABSTRAC

Yoga has been studied and may be recommended to promote relaxation, reduce stress and improve some medical conditions such as premenstrual syndrome. Yoga is considered to be a low-impact activity that can provide the same benefits as "any well-designed exercise program, increasing general health and stamina, reducing stress, and improving those conditions brought about by sedentary lifestyles". It is particularly promoted as a physical therapy routine, and as a regimen to strengthen and balance all parts of the body. The purpose of the study was to find out the "The Effect of Yogasana and Pranayama on physiological, Physical and Psychological changes among sports hostel student". Age of the subjects ranged from 16 to 18 years girls. The investigator was explained the purpose, and nature of studying in sports hostel students. On the basis of results it was concluded that 12 weeks of yoga training improved the physical fitness like Muscular strength, Flexibility, psychological variable like anxiety and Stress. On the basis of results it was concluded that 12 weeks of yoga training improved the physical fitness like Muscular strength, Flexibility, psychological variable like anxiety and Stress.

Key words: "Effect of Yogasana and Pranayama on Physical and Psychological Variables".

INTRODUCTION

Yoga is a complete science of life that originated in India many thousands of years ago, which reached the common man around third century B.C, through Maharishi Patanjali in the form of grant called Yoga sutra where yoga philosophy is described as Astanga yoga. It is the oldest system of personality development in the world encompassing body, mind and spirit. The ancient yogis had a profound understanding of man's essential nature and of what he needs to live in harmony with himself and his environment. They perceived the physical body is a vehicle, with mind as a driver, the soul as man's true identity, and action, emotion and intelligence as the three forces which pulls the body vehicle.

Asanas

"Asana" is the Sanskrit word for a physical posture. Expressed in general terms Asana denotes a specific position which can be held in a relaxed and comfortable manner for a long period of time. In the 2nd Century before Christ, Patanjali wrote down the principles of Yoga practice in the "Yoga Sutras" (aphorisms). He named only the meditation posture "Asana" and the physical postures he termed "Yoga Vyayam". However, in common usage the dynamic Yoga exercises also became known as Asanas.

Importance of Yoga

Good Health is the right of every human being. But this right depends on individual, social and environmental factors. Along with social or environmental factors to a large extent, we can develop a better immune system and a better perception of oneself so that other conditions do not affect us adversely and we can achieve good health. Health is a positive concept. Positive health does not mean merely freedom from disease, but, it also include a jubilant and energetic feeling of well-being with an amount of general resistance and capacity to easily cultivate immunity against specific offending agents. There are many modern and indigenous methods and disciplines that can help us to successfully fight with diseases. For example, the system of yoga, naturopathy, ayurveda, unani, homeopathy and siddha can be quoted among indigenous systems, whereas allopathic system is quoted as the modern and popular medical system.

Benefits of yoga

- Helps reduce stress
- Relieves anxiety
- Improves concentration levels
- Helps reduce inflammation
- Can improve cardiac health
- Helps fight depression
- Improves quality of life
- Could reduce chronic pain
- Promotes quality of sleep
- Improves flexibility and balance
- May relieve migraines
- Promotes healthy eating habits

Pranayama

Pranayama, the yogic art of breathing, comes from the root words prana and ayama. Prana means "life force" and ayama means "expansion, manifestation, or prolongation." The practice of pranayama therefore is the practice of expanding our own prana so that it harmonizes with the universal prana. This results in oneness; the merging of a person's own consciousness with universal consciousness. It is in this union that we realize we are not simply a limited physical body, but are, in fact, an immortal spirit.

Importance of Pranayama

There is no penance greater than Pranayama. It blemishes the ignorance and helps the knowledge to rise. Pranayama helps in reducing different kinds of diseases. Moreover, because pranayama (breathing) is the important means of supplying our body and its various organs with prana (oxygen) it is vital for our survival. Another important reason that pranayama is important is that it is because breathing is one of the most important ways that we are able to get rid of waste products and toxins from our body.

Table No.4.1 (a) Showing the Mean, Standard Deviation and 't'- value of Pre-test and Post-test for Yogasana training Experimental Group on Blood Pressure Performance.

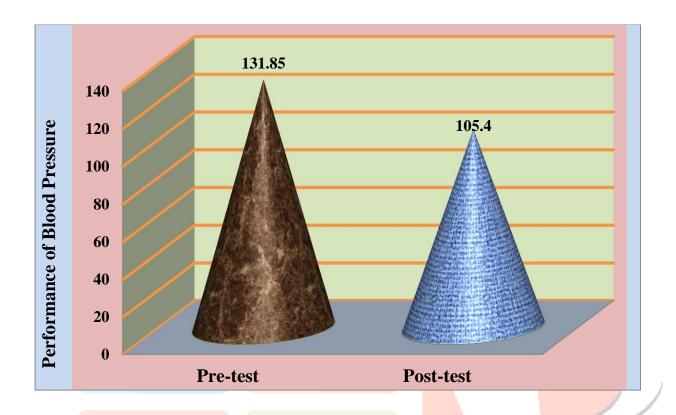
Variable	Test	N	Mean	SD	t- Value
Blood	Pre-test	20	131.8500	17.74461	5.169*
Pressure					
	Post-test	20	105.4000	12.64245	

The level of significant 0.05=Table value= 1.725

Table No 4.1 (a) indicates that the t value is more than the table value that is 1.725, hence it is significant.

The pre-test mean value is 131.8500 and the post-test mean value 105.4000. The posttest mean value is less than pre-test mean value. It shows significant improvement in the Blood pressure performance of Subjects owing to the twelve weeks Yogasana training the 1JCR same as displayed in the figure 4.1 (a)

Figure No.4.1 (a) Showing the Mean, Standard Deviation and 't'- value of Pre-test and Post-test for Yogasana training Experimental Group on Blood Pressure Performance.



The above figure 4.1 (a) clearly indicates that the twelve weeks yogasana training performance is significantly improved the Blood Pressure of the subjects.

Table No.4.1 (b) Showing the Mean, Standard Deviation and 't'- value of Pre-test and Post-test for Pranayama training Experimental Group on Blood pressure Performance.

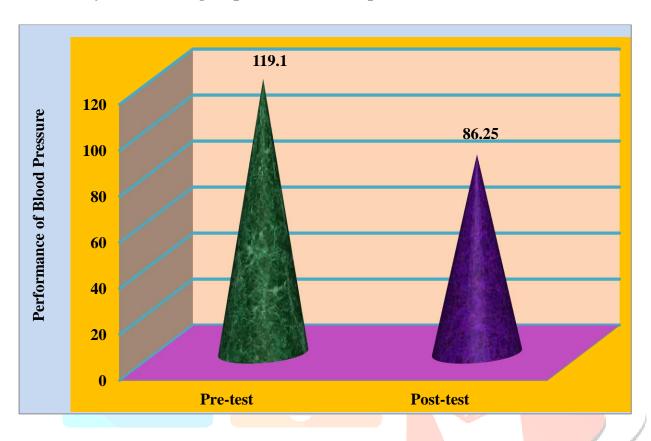
Variable	Test	N	Mean	SD	t- Value
Blood	Pre-test	20	119.1000	32.69782	4.544*
pressure					
	Post-test	20	86.2500	11.17269	

The level of significant 0.05=Table value= 1.725

Table No 4.1 (b) indicates that the t value is more than the table value that is 1.725, hence it is significant.

The pre-test mean value is 119.1000 and the post-test mean value 86.2500. The post-test mean value is less than pre-test mean value. It shows significant improvement in the Blood pressure performance of Subjects owing to the twelve weeks Pranayama training the same as displayed in the figure 4.1 (a) Figure

No.4.1 (b) Showing the Mean, Standard Deviation and 't'- value of Pre-test and Post-test for Pranayama training Experimental Group on Blood Pressure Performance.



The above figure 4.1 (b) clearly indicates that the twelve weeks Pranayama training performance is drastically improved the Blood Pressure of the subjects.

Table No.4.1 (c) Showing the Mean, Standard Deviation and 't'- value of Pre-test and Post-test for Control Group on Blood Pressure performance

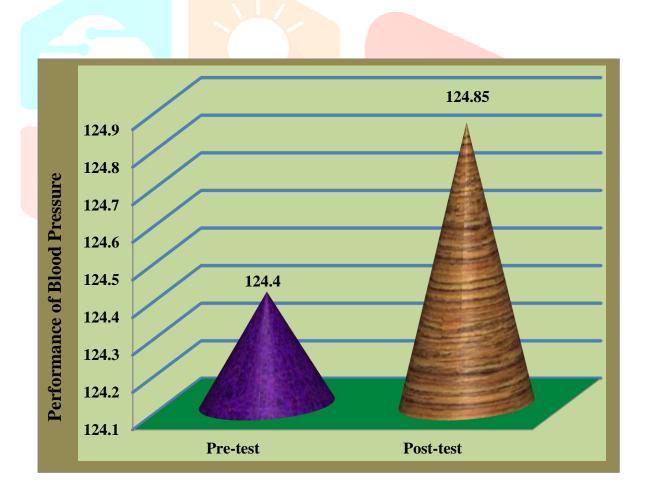
Variable	Test	N	Mean	SD	t- Value	
Blood	Pre-test	20	124.4000	28.59405		
Pressure						
	Post-test	20	124.8500	29.71492	064.	

The level of significant 0.05 = Table value = 1.725

Table No 4.1 (c) indicates that the 't' value is less than the table value that is 1.725, hence it is not significant.

The pre-test mean value is 124.4000 and the post-test mean value 124.8500. The post-test mean value is more than the pre-test mean value. It is shows no improvement in the Blood pressure performance of subjects control group did not undergo any kind of training Programme the same as displayed in the figure 4.1 (c)

Figure No.4.1 (c) Showing the Mean, Standard Deviation and 't'- value of Pre-test and Post-test for control Group on Blood Pressure Performance.



The above figure 4.1 (c) clearly indicates that the control group did not show any improvement in the post-test Blood Pressure performance of the subjects.

Table No. 4.1(d) Computation of Analysis of Covariance of Experimental and Control Groups on Blood Pressure.

Blood Pressure	Test	Experimental group-I (Yogasana Training)	Experiment al group-II (Pranayama Training)	Control group-III	Source of variance	Sum of the Squares	Df	Mean squares	F- Ratio	Remarks
Pre test	Mea n	131.8500	119.1000	124.400 0	BG	5.959	1	5.959	.814	NS
	SD	17.74461	32.69782	28.5940 5	WG	131.791	18	7.322		
Post test	Mea n	105.4000	86.2500	124.850 0	BG	2947.348	1	2947.34 8	381.117	S
	SD	12.64245	11.17269	29.7149	WG	139.202	18	7.733		
Adjusted Post Test Means	Mea n	105.3494	86.1158	124.400	BG	3120.231	1	3120.23	263.778	S
					WG	201.102	17	11.829))	

^{*}The level of significance is 0.05=table value 2.086

Table No.4.1(d) Shows the mean, SD values of pre-test of Experimental Group I, Experimental Group II and control Group on Blood Pressure is observed that mean score value of Experimental Group I, Experimental Group II and control Group are 131.8500, 119.1000 and 124.4000 and their SD values are 17.74461, 32.6982 and 28.59405 respectively.

The calculated F- value found to be .814 at 0.05 level of significant it is found to be non significant it can be concluded that the Blood Pressure found to be similar among Experimental I subjects, Experimental Group II subjects and control Group subjects.

The mean, SD values of post- test of Experimental Group I, Experimental Group II and control Group on Blood Pressure. It is observed that mean score value of Experimental Group I, Experimental Group II and control Group are 105.40000, 86.2500 and 124.8500 their SD value are 12.64245, 11.17269 and 29.71492 respectively.

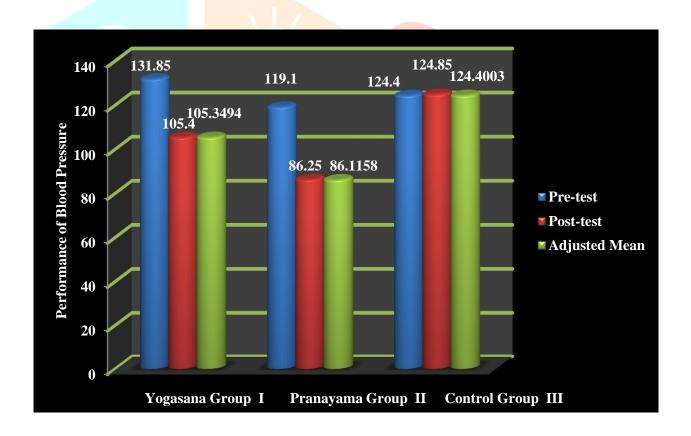
The calculated F- value found to be 381.117 at 0.5 level of significant it is found to be significant it can be concluded that the Blood Pressure found to be significant difference among Experimental Group I subjects, Experimental Group II subjects and control Group subjects.

The mean values of adjusted post- test of Experimental Group I subjects, Experimental Group II subjects and control Group subjects on Blood Pressure found to be 105.3494, 86.1158 and 124.4003 respectively.

The calculated F- value found to be 263.778 at 0.05 level of significant there is a significant difference is observed between Experimental I subjects, Experimental group II subjects and control group subjects.

The Blood Pressure Performance has been displayed in figure 4.1 (d).

FIGURE NO 4.1 (D) .BAR DIAGRAM SHOWING THE PRE, POST AND ADJUSTED MEANS OF THE EXPERIMENTAL AND CONTROL GROUPS ON BLOOD PRESSURE.



The above figure 4.1 (d) indicates that the post test values of Experimental group and adjusted post test significantly improved the performance of Blood Pressure and also the post test values of Blood Pressure were less than the pre test values due to 12 weeks of Yogasana and Pranayama training. The Control group pre-test and post-test performance of Blood Pressure shows no improvement.

Conclusions

Based on the findings the following conclusions were drawn from the present study.

• Twelve weeks of Yogasana training has shown significant improvement on Physiological, Physical and Psychological performance variable of the subjects.

Pranayama training has shown significant improvement on Physiological, Physical and Psychological performance variable of the subjects.

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