COMBINED EFFECT OF YOGA BALL TRAINING AND PSYCHOLOGICAL INTERVENTION TRAINING ON FLEXIBILITY AMONG COLLEGE ATHLETES

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ABSTRACT The purpose of the study was to find out the combined effect of yogaball training and psychological intervention training on flexibility among college athletes. To achieve this purpose of the study, sixty college athletes were selected as subjects who were from the Govt. First Grade College, Malur, Karnataka. The selected subjects were aged between 18 to 22 years. They were divided into four equal groups of fifteen each, Group I underwent yoga ball training, Group II underwent psychological intervention training, Group III underwent combined training and Group IV acted as control that did not participate in any special training apart from their regular curricular activities. The subjects were tested on selected criterion variable such as flexibility prior to and immediately after the training period. The selected criterion variable such as flexibility and control group on selected criterion variable. In all the cases, 0.05 level of confidence was fixed to test the significance, which was considered as an appropriate. The result of the present study has revealed that there was a significant difference among the experimental and control group on flexibility.

KEYWORDS: yoga ball training, psychological intervention training, combined training, flexibility, college athletes.

1.INTRODUCTION

Yoga balls are used in Yoga, Pilates and fusion exercise programs to strengthen and firm abs, back and buttocks. These yoga balls are made from durable vinyl, they are designed to support up to 600lbs of pressure. It is most often used in physical therapy, athletic training and exercise. It can also be used for weight training. The ball, while often referred to as a swiss ball, is also known by a number of different names, including balance ball, birth ball, body ball, fitness ball, gym ball, gymnastic ball, physio ball, pilates ball, naval mine, Pezzi ball, stability ball, Swedish ball, therapy ball, or yoga ball. Yoga balls are versatile and fun exercise tools that, despite their name, can be applied to so much more than the practice of yoga. You'll find them a regular fixture in fitness classes, rehabilitation centers and gyms. They're just as effective for core training in pilates, and will leave you with a stronger and firmer abdomen, back and butt. We also carry yoga balls made of a thicker material that resists bursting if they are punctured. These balls are ideal for studios that have heavy usage of their equipment or certain fitness classes that incorporate a lot of active movement and weights. Like the traditional versions, they also come in four different sizes to suit many heights. Thera-Band Exercise Balls can be used for exercise, but are specially designed for rehabilitation. They help strengthen the muscles that support good posture, which in turn eases back pain. We carry these balls in sizes as small as 45 centimeters and as big as 85 centimeters. Give yourself a challenging workout with the Dome Yoga Ball, a deceptively simple-looking piece of equipment that will leave your abs sore in a good way! Pick the version with straps for an additional upper-body workout. As an introduction to exercising on the ball, it is often recommended that one simply sit on one for 30 minutes a day and bounce lightly, continually finding and maintaining balance on the ball. Sports training are done for improving sports performance. The sports performance, as any other type of human performance, is not the product of total personality of sports person. The personality of person has several dimensions e.g. physical, physiological, social and psychic. In order to improve sports performance, the social and psychic capacities of the sports of the sport person also have to be improved in addition to the physical and psychological ones. In other words, the total personality of a sportsman has to be improved in order to enhance his performance. Sports training, therefore directly and indirectly aim at improving the personality of the sportsman. No wonder, therefore sports training is an educational process. Researchers found that several methods of psychological preparations and regulations are programmed by coaches, sports administrators, physical educationists etc. these psycho regulative programme include yogasanas, autogenic training, relaxation techniques, mental health trainings, etc.

Psychology (from Greek word, "breath, life, soul", and logia) is an academc and applied discipline involving the scientific study of emntal functions and behavior. Psychologists study such phenomena as perception, cognition, emotion, personality, behavior, and

interpersonal relationships. Psychology also refers to the application of such knowledge to various spheres of human activity, including issues related to everday life (e.g. family, education and employment) and the treatment of mental health problems. Psychologists attempt to understand the role of these functions in individual and social behavior, while also exploring the underlying physiological and neurological processes. Psychology includes many sub-fields of study and applications concerned with such areas as human development, sports, health, industry, media and law. In this modern era of competition the psychological preparation of a team is as much important as teaching the different skills of a game on the scientific lines. The teams are prepared not only to play the games, but to win the games. And for winning the game, it is not only the proficiency in the skills which bring victory buut more important is the spirit of the players with which they play and perform their best in the competition. Within a short span of time, sports psychology has taken gaint strides. Not it does claim to be a full-fledged discipline in the sense that no training of sportsman is considered complete without adequate emphasis on "psychological conditioning" which plays an extremely important role in competitive sports. Competitive sports reflect cultural aspirations of a people and they have now become an in extricable past of all civilizations. Recreative sports are mainly concerned with man's well being where as competitive sports aim to measure and enhance human "potentiality and performance". All other things being equal in two opponents, in sports, the one with better "psychological training or mental conditioning will always have an upper edge over the other". Psychology of sports in an application of psychology in the field of sports and games. In other words, it is the psychological approach to sports and games, in order to make them efficient, fruitful and interesting. Psychology of sports is a branch of Psychology that examines various aspects of activities and physical culture. It also studies the psychological aspects of athlete's personality.

2.MATERIALS AND METHODS

In the present study all the students studying in Govt. First Grade College, Malur, Karnataka. were considered as population for the study. A representative sample of 60 college students in the age of 18-22 years was chosen as sample for the study. The selected participants were divided into four groups. Group I underwent yoga ball training, Group II underwent psychological intervention training, Group III underwent combined training and Group IV acted as control that did not participate in any special training apart from their regular curricular activities. The experimental groups underwent twelve weeks of training in their particular workout. For this study dependent variable is flexibility. Pre-test data were collected two days after the training program and post-test data were collected two days after the training program. The collected data treated with ANCOVA. Level of confidence was fixed at 0.05. If obtained 'F' ratio significant scheffe's post hoc test were used (6).

39

2.1Assessment of flexibility

The subject sit on the mat, both legs were extended forward. The measuring slick was placed on the floor in-between both legs. The zero end of the measuring stick was placed as proximal end. The subject bent forward and extends both arms forward. The zero point of the measuring stick was placed to the tip of the middle finger. The subject slowly stretch forwards the hip, back and the arm. The maximum distance reached was recorded with the help of measuring stick in cm. three trails were given with adequate rest in between. The best of three trails was treated as final score in cm.

3.RESULTS AND DISCUSSION

The statistical analyses of flexibility due to yoga ball training, psychological intervention training, combined training and control group have been presented in Table I.

TABLE-I

COMPUTATION OF ANALYSIS OF COVARIATION ON FLEXIBILITY

TEST	E.G. I	E.G. II	E.G. III	C.G.	F
PRE TEST	26.32	26.28	26.42	26.50	1.24
POST TEST	28.48	28.74	29.34	27.12	7.42*
ADJUSTED	28.62	28.52	29.14	27.08	9.68*

The table I show that the pre-test values on flexibility for yogaball training, psychological intervention training, combined training and control groups were 26.32, 26.28, 26.42 and 26.50 respectively. The obtained 'F' ratio value of 1.24 for pre-test score of yogaball training, psychological intervention training, combined training and control groups on flexibility was less than the required table value of 2.70 for significance with df 3 and 56 at 0.05 level. The post-test means of flexibility for yogaball training, psychological intervention training, combined training and control groups were 28.48, 28.74, 29.34 and 27.12 respectively. The obtained 'F' ratio value of 7.42 for post-test scores of yogaball training, psychological intervention training, combined training and control groups was more than the required table value of 2.70 for significance with df 3 and 56 at 0.05 level. The adjusted post-test means of flexibility for yogaball training, psychological intervention training, combined training and control groups were 28.62, 28.52, 29.14 and 27.08 respectively. The obtained 'F' ratio value of 9.68 for adjusted post-test scores of yogaball training, psychological intervention training, combined training and control groups were higher than the required table value of 2.72 for significance with df 3 and 55 at 0.05 level. The results of the study indicate that there is a significant difference between flexibility for yogaball training, psychological intervention training, combined training after respective training for a period of 12 weeks, Scheffe's post-hoc test was applied and the results are presented in Table-II.

Table II

40

SCHEFFE'S TEST FOR THE ADJUSTED POST-TEST PAIRED MEANS OF FLEXIBILITY

A	djusted Pos	Mean	Class		
YT	PIT	СТ	CG	Diff.	Interval
28.62	28.52			0.10	1.08
28.62		29.14		0.52	
28.62			27.08	1.54*	
	28.52	29.14		0.62	
	28.52		27.08	1.44*	
		29.14	27.08	2.06*	

The results presented in table II shows that the mean difference between yogaball training group and control group was 1.54, psychological intervention training group and control group was 1.44 and combined training group and control group was 2.06, which were higher than the required confidence interval value of 1.08. However, all the experimental groups have significant difference when compare to the control group and also there was no significant difference between the experimental groups.

The results of analysis of covariance on flexibility showed that there was a significant difference existed between control group and yogaball training, psychological intervention training and combined training groups. Thus, twelve weeks of experimental treatment influences in flexibility of the college students compared to control group, and it was found there wouldn't any significant difference between the experimental groups. The above findings are in consonance with the study conducted by Goldsmith, Karst and Willett

and Mokkloa and others.

4.REFERENCES

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