

EFFECT OF CIRCUIT TRAINING ON SPEED OF WOMEN KABBADI PLAYERS OF HARYANA

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Abstract-

In the present study, an attempt has been made to effect of circuit training on speed component of women kabaddi players. The study was carried out on 100 female Kabaddi players in the age group of 18-25 years, from Inter College and University of Haryana. The subjects were collected from different coaching camps and various training centers from Haryana. The data was collected by use of AAHPER Youth Fitness Test. The data was analyzed and compared with the help of statistical procedures in which arithmetic mean, standard deviation (S.D.), ANOVA were employed. Post-test speed data of women kabaddi players was significant improve from Pre-test speed data of women kabaddi players.

Keywords- Speed, Circuit training, Women Kabaddi players.

Introduction

Kabaddi is synonymous with the energetic and athletic pride that India possesses when it comes to sports. It is in fact the perfect game for those who love thrill and a constant adrenalin rush while sweating it out on the field. With its roots in the Indian tradition, Kabaddi has been around for centuries and is one of the most popular sports played across Indian terrains. Kabaddi is a contact sport which requires two teams to compete in a match. The game has its origin in ancient Indian history as it was first conceptualized in South India.

Motor Fitness refers to the ability of an athlete to perform successfully at their sport (Davis, 2000). Identify the most important fitness components for success in specific sport or event and then design sport/event specific conditioning and training programs that will enhance the fitness components and energy systems of the players or athletes.

In previous years, fitness was commonly defined as the capacity to carry out the day's activities without undue fatigue. However, as automation increased leisure time, changes in lifestyles following the industrial revolution rendered this definition insufficient. These days, physical fitness is considered a measure of the body's ability to function efficiently and effectively in work and leisure activities, to be healthy, to resist hypo kinetic diseases, and to meet emergency situations.

Method

The experimental method was adopted for the study. The investigator defined the population for the study as 100 Haryana State Women inter college and university Kabaddi players in Haryana state. The investigator has to obtain a sample which would represent the population in all relevant aspects. The methodology used in this research involves the choice of a specified group of subjects, selection of variables, administering of standard tests, using of the relevant tools, obtaining predetermined information in the certain chosen factors and subjecting them for a statistical analysis.

Sample Size

100 subjects were selected for training from Inter College and University Women Kabaddi Players of Haryana.

The date of birth of each subject were recorded from the college record.

Training Plan

Six weeks training programme were developed.

Analysis of the data

Speed

The pre and post test data collected from the experimental and control groups on speed were statistically analyzed by ANCOVA and the results are presented in table 1.

Table - 1: Analysis of covariance of specific circuit training and control groups on speed

(The required table value for significance at 0.05 level of confidence with degrees of freedom

1 and 98 is 4.30 and degree of freedom 1 and 97 is 4.32.)

	Specific Circuit Training	Control Group	SoV	Sum of Squares	Df	Mean squares	'F' ratio
Pre-test Mean	7.8	7.7	B	0.05	1	0.05	0.48
SD	0.3	0.3	W	2.2	98	0.1	
Post-test Mean	7.1	7.4	B	0.6	1	0.63	7.12*
SD	0.3	0.3	W	1.9	98	0.08	
Adjusted Post-test Mean	7.1	7.4	B	0.6	1	0.6	6.53*
			W	1.9	97	0.09	

*Significant at 0.05 level of confidence

Table-I shows that the pre test mean and standard deviation on speed of specific circuit training and control groups were 7.79 ± 0.27 and 7.70 ± 0.36 respectively. The obtained 'F' ratio value of 0.48 for pre test means on speed of specific circuit training and control groups were less than the required table value of 4.30 for the degrees of freedom 1 and 98 at 0.05 level of confidence. It revealed that there was statistically insignificant difference between the experimental and control groups during pre test period. It was inferred that the random assignment of the subjects for the two groups was correct.

The post test mean and standard deviation on speed of specific circuit training and control groups were $7.23 + 0.31$ and $7.55 + 0.28$ respectively. The obtained 'F' ratio value of 7.12 for post test means on speed of specific circuit training and control groups were higher than the required table value of 4.30 for the degrees of freedom 1 and 98 at 0.05 level of confidence. The adjusted post

test means on speed of specific circuit training and control groups were 7.23 and 7.55 respectively. The obtained 'F' ratio value of 6.53 for adjusted post test means on speed of specific circuit training and control groups were higher than the required table value of 4.32 for the degrees of freedom 1 and 97 at 0.05 level of confidence. It was observed from this finding that significant differences existed between the adjusted post test means of experimental and control groups on speed and it was due to the specific circuit training that the speed of the subjects has been significantly improved.

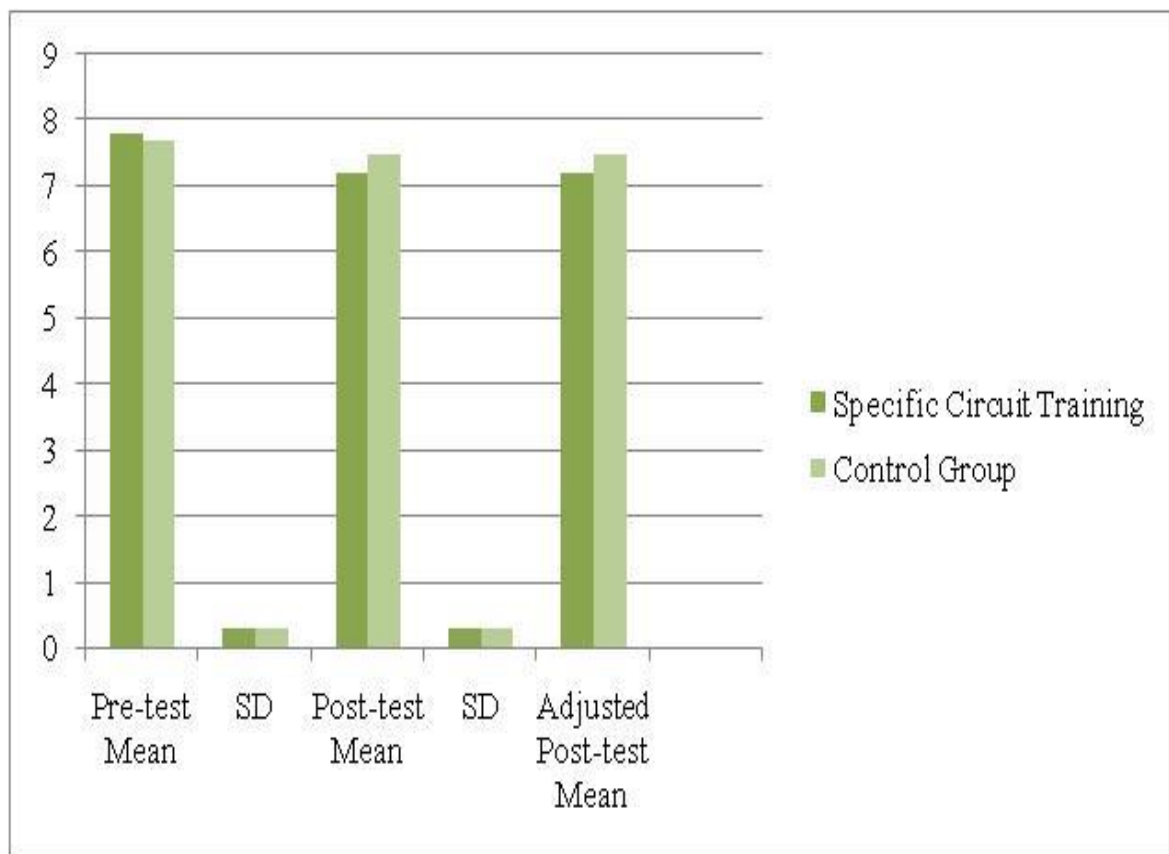


Figure-1

Pre-test, post-test and adjusted post-test means' differences of specific circuit training and control groups on speed

Conclusion

In the present study It was observed from this finding that significant differences existed between the adjusted post test means of experimental and control groups on speed and it was due to the specific circuit training that the speed of the subjects has been significantly improved.

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