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Review Of Research



ASSESSMENT OF MOTOR FITNESS COMPONENTS OF RACKET GAME PLAYERS THROUGH MODERN TRAINING PROGRAMME



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ABSTRACT

Aim: The purpose of this study was to find out the effect of Modern training programme on selected motor fitness variables of University level racket game players. Methods: Fourty athletes from college who participating in different intercollegiate game in 2015 was taken as subjects for this study. The age ranging between 18 to 28 years. Selected Motor Components like Muscular Endurance, Speed, Agility & Explosive Strength of University racket game players, were selected for this study. The study was delimited to experimental period of 4 weeks Modern training programme had been given six day in a week exception of holiday. The data were collected before and after the four weeks of training programme. Hypothesis: It was

hypothesized that no significant effect of Modern training programme on selected motor fitness variables of College athletes. Statistic: To find out the effect of Modern training programme on selected motor fitness variables of College athletes 't' test was calculated. 't' Ratio value of pre-test and Post-test were significantly at 0.05 level. Result: There was significant difference Pre-test and Post-test of specific motor fitness variables like, 50m.Run, shuttle run, standing Broad-Jump and sit-ups of college athletes of University level racket game players. The hypothesis of this test is accepted. Conclusion: The above results help to conclude that Modern training exercise for the period of four weeks was effective to improve the motor fitness variables of college athletes.

KEYWORDS :motor fitness & Modern training.

INTRODUCTION

Physical education in common with all other parts and activities of life, is shaped by the changes that take place in society. Every period in the history of the world has witnessed social changes; during some periods a great many changes have taken place, while at other times society has remained almost

static. The first three decades of the present century have been fraught with more great social changes than has any period of the same length in the world's history. The events which accompanied these changes have brought into existence many problems and raised many questions. (Jackson R.)

The term motor fitness became popular during world war | | as tests that could be given quickly to many subjects with a minimum of equipment were constructed for use by various branches of the armed forces and by schools and colleges. Motor fitness is thought to be a limited dimension of general motor ability, (Element of motor fitness) with emphasis placed on the underlying element of vigorous physical activity, but does not include the neuromuscular coordination involved in motor skills (N.P.Sharma).

Modern training is formal type of training in which an athlete goes through a series of selected exercises or activities that are performed in sequence or in a circuit. Circuits can be set up inside gymnasiums, exercise rooms, or outside in courts and fields. There are usually six to ten stations in circuit. The athlete performs a specific exercise at each station and then goes to the next station. The idea is to progress through the circuit as rapidly as possible, attempting to improve either by decreasing the total time it takes to complete the circuit or by increasing the amount of work done at each station, or both, the stations are distributed throughout the area earmarked to circuit training. The greater the distance between stations, the greater the degree of cardiovascular conditioning as the individual runs from one station to next (Anthony A. Annarino).

The ability to run, walk, throw, bend, manipulate the fingers, turn the head, swing a stick, swim a river, climb a mountain or dance has played a major role in man's evolutionary experience. And this role has been not only physical. Movement is basic to any advance which man has made. Whether it be in communication. The expressive arts, exploration, or in the widening of the intellectual or perceptive horizons, movement has been a significant factor either attending the advance or making it possible. (U.K. Singh A.K. Nayak)

OBJECTIVE OF THE STUDY:

Assessment of Modern training programme on selected motor fitness components of University level racket game players.

METHODOLOGY:

The study was delimited to the 40 male athletes belonging to the age group 18 to 28 years of University level racket game players. and delimited to following training period of four weeks Modern training programme. Subjects were oriented to the test of motor fitness variables.

TRAINING PROGRAM:

Athletes were gone through with 4 week Modern training program and following set of exercise or training was provide to all athletes those are actively participating in racket game at intercollegiate level only for 1 hour.

Table – 1
Modern trainingVariables

Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
400mts run 2 set	50 mts dash 2 set	Burphy jumps 2 set	400mts run 2 set	50 mts dash 2 set	Burphy jumps 2 set
Sit Ups 2 set	10mtsX4 2 set	Sargents Jumps 2 set	Sit Ups 2 set	10mtsX4 2 set	Sargents Jumps 2 set
Push ups 2 set	Hanuman Jumps run 2 set	Squat Thrust 2 set	Push ups 2 set	Hanuman Jumps run 2 set	Squat Thrust 2 set
Pull ups 2 sets	Alternate jump run 2 set	Callisthenic Exercise 2 set	Pull ups 2 sets	Alternate jump run 2 set	Callisthenic Exercise 2 set

The subjects were selected each test and administrated of 50 mts. Run, Shuttle run, Standing Broad jump and sit-ups. All the above tests on the decided on the basis of book “Test and measurement” by kansal and “A practical approach to measurement in physical education” by Harold M. Barrow.

HYPOTHESIS

It was hypothesized that there was a significant effect of Modern training programme on selected motor fitness components of University level racket game players..

CRITERION MEASURE

The following criterion measures were included the record the readings of various test items of motor fitness components.

- i.The score of Abdominal Muscular Strength made by the individual on Bend Knee Sit-Ups Test. The score was recorded as the total number of correct sit-ups in sixty seconds.
- ii.Leg strength was measured by Standing Broad Jump Test and it was recorded in Meters.
- iii.Coordinative ability was measured by Shuttle Run and it was recorded in seconds.
- iv.Speed running was measured by 50 mts and the score was recorded to the seconds.

All the subjects had given proper response in the test. Mean of pre-test and Post-Test of four fitness variables are calculated. Standard Deviation of Pre-test and Post-test of fitness variables are also calculated by using SPSS 16th version..

The subjects score on 50m. Run, shuttle Run, Standing Broad Jump and Sit-ups test conducted before and after the experimental period constituted the score for the purpose of the study. For testing the difference between Pre-test and Post-test the level of confidence was set at 0.05.

Results

Table no. 1

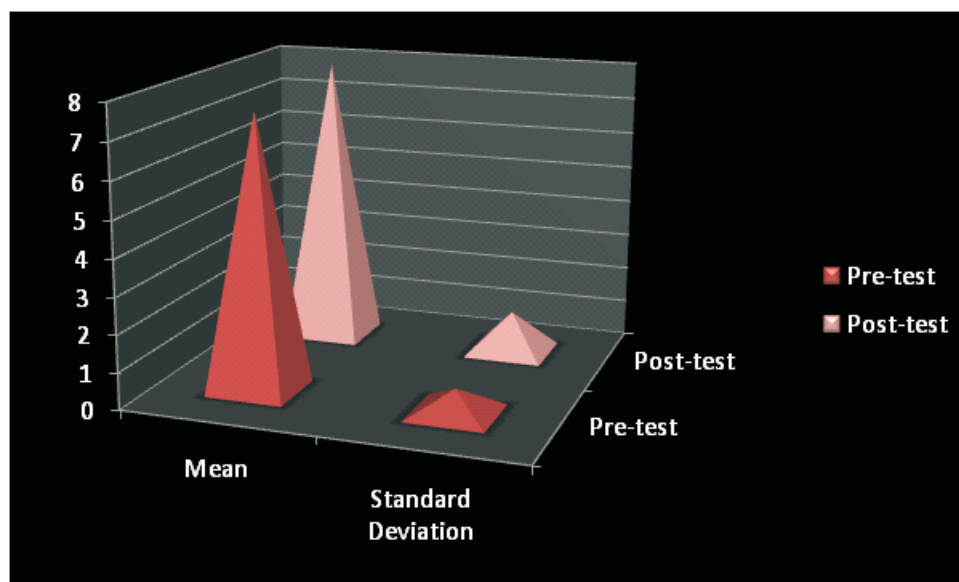
Comparison of Means of Selected motor fitness components of pre test and post test of 50 mts. Run

Test	Mean	Standard Deviation	Mean Difference	Standard Error	't' Ratio
Pre-test	7.50	.67	-.38	.147	3.34*
Post-test	7.93	1.14			

*Significant at 0.05 level.

t.05 (38) = 2.04

The mean value of Pre-test and Post-test of 50m. Run is 7.50 and 7.93 respectively. Standard deviation value of pre-test and Post-test is 0.67 and 1.14 respectively. Value of 't' ratio is 3.34, this value of 50m. run is significant at 0.05 level. To be significant at 0.05 level, the value of 't' ratio should be greater than or equal to 2.04.



Graph No. 1- Shows the pre-test and post-test mean of 50m. run

Table no. 2

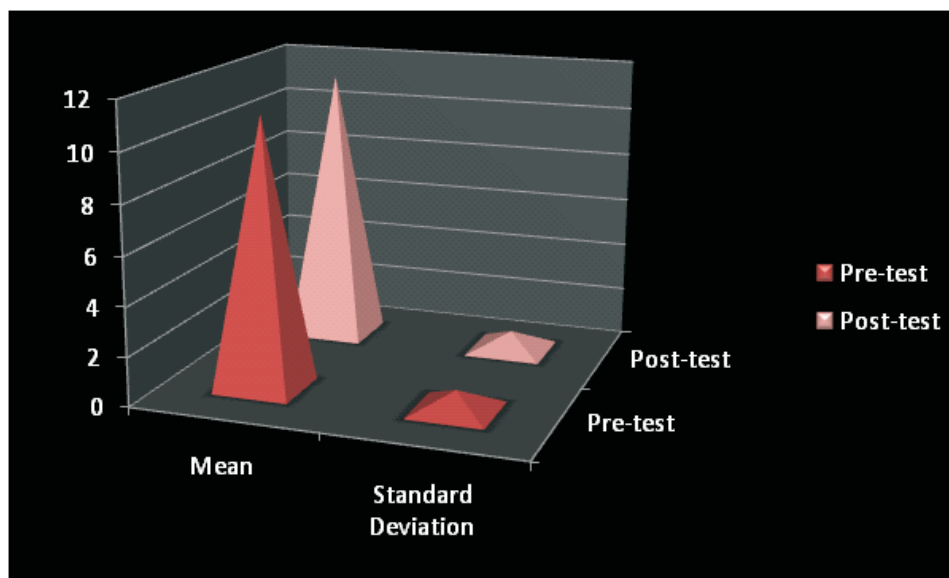
Comparison of Means of Selected motor fitness components of pre test and post test of Shuttle run

Test	Mean	Standard Deviation	Mean Difference	Standard Error	't' Ratio
Pre-test	11.02	.83	-.05	.12	3.89*
Post-test	11.33	.79			

*Significant at 0.05 level.

$t_{.05(38)} = 2.04$

The mean value of Pre-test and Post-test of Shuttle Run is 11.02 and 11.33 respectively. Standard deviation value of pre-test and Post-test is .83 and .79 respectively. Value of 't' ratio is 3.89, this value of Shuttle Run is insignificant at 0.05 level. To be significant at 0.05 level, the value of 't' ratio should be greater than or equal to 2.04.



Graph no. 2- Shows the pre-test and post-test mean of shuttle run

Table no. 3

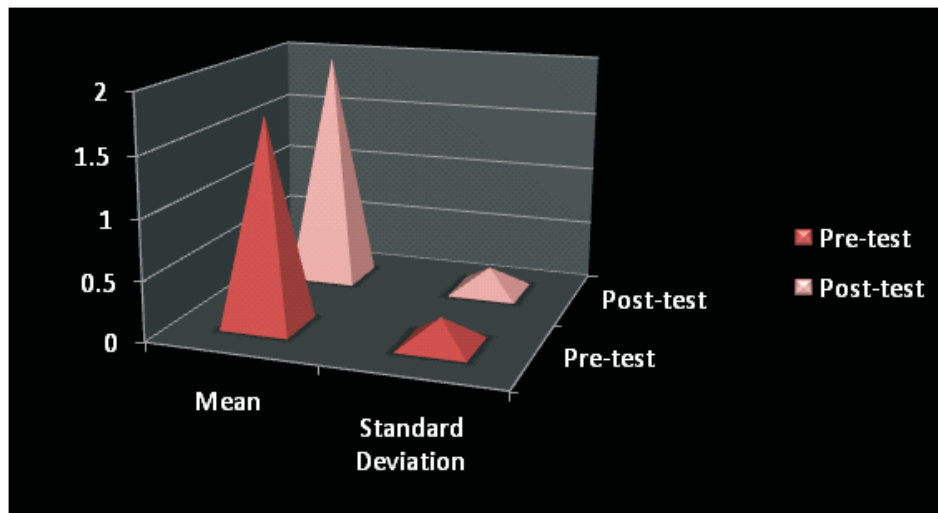
Comparison of Means of Selected motor fitness components of pre test and post test of Standing Broad Jump

Test	Mean	Standard Deviation	Mean Difference	Standard Error	't' Ratio
Pre-test	1.74	.23	-.18	.0042	3.12*
Post-test	1.99	.21			

*Significant at 0.05 level.

$t_{.05(38)} = 2.04$

The mean value of Pre-test and Post-test of Standing Broad Jump is 1.74 and 1.99 respectively. Standard deviation value of pre-test and Post-test is 0.23 and 0.21 respectively. Value of 't' ratio is 3.12, this value is insignificant at 0.05 level. To be significant at 0.05 level, the value of 't' ratio should be greater than or equal to 2.04.



Graph no. 3- Shows the pre-test and post-test mean of standing broad jump

Table no. 4

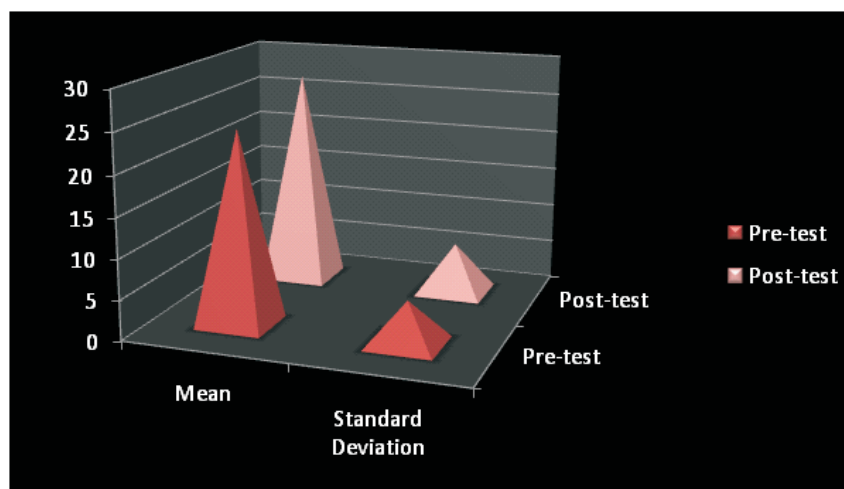
Comparison of Means of Selected motor fitness components of pre test and post test of Sit ups

Test	Mean	Standard Deviation	Mean Difference	Standard Error	't' Ratio
Pre-test	24.24	5.33	-.26	1.49	2.98*
Post-test	27.32	6.34			

*Significant at 0.05 level.

t.05 (38) = 2.04

The mean value of Pre-test and Post-test of Sit-ups is 24.24 and 27.32 respectively. Standard deviation value of pre-test and Post-test is 5.33 and 6.34 respectively. Value of 't' ratio is 2.98, this value of Sit-ups is significant at 0.05 level. To be significant at 0.05 level, the value of 't' ratio should be greater than or equal to 2.04.



Graph No. 4 -Shows the pre-test and post-test mean of sit – ups

DISCUSSION OF FINDINGS

From the analysis of data it was evident that the mean of Post-test was improved, it proved that, the motor fitness of the athletes determined by other factors like heredity, sex, diet and age it also found that the four weeks of Modern training programs is sufficient to improve the motor fitness of the University level racket game players.

The hypothesis stated earlier that there would be significance effect of Modern training programme on selected motor fitness components of University level racket game players were accepted.

CONCLUSIONS

There was significant difference of Pre-test and Post-test of specific motor fitness variables like 50m.Run, shuttle run, standing broad-jump and sit-ups of of University level racket game players.

The above results help to conclude that Modern training exercise for the period of four weeks was effective to improve the motor fitness variables of University level racket game players..

REFERENCE

- 1.Ajmer Singh, Jagdish Bains, Jagtar Singh Gill, R.S. Brar, Nirmal Jit Rathe. "Essential of physical education". pp.306
- 2.Anthony A. Annarino, "Development conditioning for physical education and athletic publication. Purdue University. Pp09.
- 3.Charles A.Bucher, Foundation of physical education and sports. B.I. Publications Pvt Ltd New Delhi. Pp07
- 4.Devinder K. Kansal, Test and measurement in sports and physical education. D.V.S. Publications kalkaji, New Delhi 110019 .pp 195-96,212,264-66.
- 5.Don. R. Kirkendall, Joseph J. Gruber, Robert E.Johnson. Measurement and evaluation for physical education. Second Edition. Human Kinetics publishers, Inc Champaign, Illinois.pp143-144.
- 6.H.Harrison Clarke and David H. Clarke. Application of measurement to physical education. Prentice Hall, Inc Englewood Cliffs, New Jersy 07632. pp.153-154.
- 7.Harold and Barrow and Rosemany Mc Gee., A Practical Approach to measurement in physical

Education. (Philadelphia 3rd Edition). PP.119.

8.Jackson R. Sharman, Introduction to physical education, Pp1.

9.K.G. Saiyidain, A National plan of physical education and recreation,. Pp1

10.M.L. Kamlesh, physical education. Khel Sahitya Kendra 7/26, Ansari road, Darya Ganj New Delhi - 110002. Pp01,226-28

11.N.P.Sharma, Officiating and Coaching in sports. Khel Sahitya Kendra ,7/26, Ansari road, Darya Ganj,New Delhi- 110002.Pp.338-40.

12.Report, Physical education a draft curriculum for classes I to X . National council of education research and training, 1980.Pp.01

13.U.K.Singh and A.K.Nayak, Physical education commonwealth publisher. Ansari road,Darya Ganj, New Delhi-110002.pp.1&2.

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