COMPARATIVE STUDY ON SELECTED MOTOR FITNESS AND ANXIETY BETWEEN KHOKHO AND KABADDI PLAYERS

A THESIS

SUBMITTED TO THE VIDYASAGAR UNIVERSITY A THEORY PAPER

FOR THE DEGREE OF MASTER OF PHYSICAL EDUCATION

BY INDRAJIT MONDAL

ROLL-PG/VUEGS32/PED-IVS NO-21008 REGISTRATION NO.: 00984 of 2021-2022

DEPARTMENT OF PHYSICAL EDUCATION MUGBERIA GANGADHAR MAHAVIDYALAYA BHUPATINAGAR, PURBA MEDINIPUR (W.B) PIN-721425

AUGUST 2023

DEPARTMENT OF PHYSICAL EDUCATION Mugberia Gangadhar Mahavidyalaya VIDYASAGAR UNIVERSITY Mugberia-721425, West Bengal

DECLARATION

I do hereby declare that, the research work entitled " **COMPARATIVE STUDY ON SELECTED MOTOR FITNESS AND ANXIETY BETWEEN KHOKHO AND KABADDI PLAYERS**" is an original piece of work done under by the supervisor of Dr. Bodhisattwa Pradhan Assistant professor of Mugberia Gangadhar Mahavidyalaya which was approved by the research committee. I have specified, by means of reference, the information from where the work taken. To the best submitted for a degree or other academic qualification at any other University.

Date:31.07.23

Indrajit Mondal (M.P. Ed. Scholar)

DEPARTMENTOFPHYSICALEDUCATIONMUGBERIAGANGADILARMAHAVIDYALAYAVIDYASAGAR UNIVERSITY OF MUGBERIA-721425, West Bengal





This is to certified that Indrajit Mondal is a regular student of Mugberia Gangadhar Mahavidyalaya under Vidyasagar University, in the session of 2021-2023. He is a student of master of physical education, semester-IV, carried out his research study under my supervision and guidance in partial fulfillment of the requirements for the master of physical education degree with his thesis entitled " COMPARATIVE STUDY ON SELECTED MOTOR FITNESS AND ANXIETY BETWEEN KHOKHO AND KABADDI PLAYERS" the material and data composed from students in this study are genuine and were collected by him. The dissertation is satisfactory from the point of content and fulfills the requirements related to M.P. ED degree thus approved and forwarded for evaluation.

Date: 31.07.23

Bothi Saiwa fradhan

Bodhisattwa Pradhan

Department of Physical Education Mugberia Gangadhar Mahavidyalaya

Mugberia Gangadhar Ma	havidyalaya
Bhupatinagar :: Purba M	
West Bengal :: Inc	
Email: mugberia_college@rediff	
ICTE Recognized & NAAC Accredited with	
http://www.mugberiagangadharmahavi	
Certificate of Completion	
INDRAJIT MON <i>This is to certify that Mr./ Miss.</i> <i>Roll</i>	a PG / UG s tudent of
SEMIV Department of	has
successfully completed a dissertation / project entitle	led
STUDY ON SELECTED MOTOR FITNESS AND ANX	
KHO-KHO AND KABADDI PLAYERS	
for the paper	
P	Q ,
Zh	
Date: 31 07 2023 Signature of HOD	Signature of Principal
Date: 31.07.2023 Signature of HOD	Signature of Principal Principal Mfigberia Gafigadhar Mahavidy

DEDICATED TO MY GUIDE & PARENTS

ACKNOWLEDGEMENT

The investigator acknowledges sincere gratitude to **Dr. Swapan Kumar Mishra,** Principal of Mugberia Gangadhar Mahavidyalaya, who gave me the opportunity to undertake the study.

The scholar wishes to extend his deepest appreciation to **Dr. Debasish Ray,** Head of the Department Mugberia Gangadhar Mahavidyalaya for his valuable suggestions and critical evaluation of the project outline, which gave immense confidence to me for successful completion of the study.

The investigator places on record his guide, Assistant professor **Dr. Bodhisattwa Pradhan**, Mugberia Gangadhar Mahavidyalaya, Vidyasagar University, for his critical evaluation, valuable guidance and suggestion, constant encouragement in the formulation completion of the study.

The investigator sincerely appreciates the positive and courageous attitude of the performers who were subject of the study.

The investigator wishes to expresses his heartiest thanks to all the assistant professor, Department of Physical Education Mugberia Gangadhar Mahavidyalaya for their help and support for the successful completion of the study.

The researcher expresses his obeisance to his parents without the guidance and inspiration of whom the researcher could never be able to reach to his present position, finally the researcher expresses his deep indebtedness to his friends for taking the pains while providing continuous inspiration and encouragement throughout the course of study.

Last but not the least, researcher would like to thanks all the subjects, officials and all friends without whose voluntary efforts study could not have come out as a research product.

Date: 31.07.23

INDRAJIT MONDAL

CONTENTS

CHAPTER	DESCRIPTION	PAGENO
	Title	Ι
	Certificate	Ii
	Dedication	Iii
	Acknowledgement	V
	Contents	vi –vii
	List of Tables	Viii
	List of Figures	Ix
CHAPTER-I:	INTRODUCTION	

1.1	General Introduction	1-9
1.2	Statement of the problem	7
1.3	Purpose of the study	7
1.4	Significance of the Study	7
1.5	Delimitation	7
1.6	Limitation	7
1.7	Hypothesis	8
1.8	Definition of related term	8
CHAPTER –II:	REVIEW OF RELATED LITERATURE	10- 15
CHAPTER –II: CHAPTER –III:	REVIEW OF RELATED LITERATURE METHODOLOGY	10- 15 16-25
CHAPTER –III:	METHODOLOGY	16-25
CHAPTER –III: 3.1	METHODOLOGY Selection of subject	16-25 16
CHAPTER –III: 3.1 3.2	METHODOLOGY Selection of subject Selection of Variables	16-25 16 16

3.3.3	Psychological Parameters		24
3.4	Statistical Procedure		25
CHAPTER IV: RESULT	AND DISCUSSION		26-32
4.1	Personal data		26
4.2	Motor Fitness		27
4.2.1	50 Meter Dash(second)		27
4.2.2	Shuttle Run (sec)		28
4.2.3	Standing Broad Jump(m)		29
4.2.4	Sit and Reach Test		30
4.3	Psychological Parameter		31
4.3.1	Sports Competition Anxiety		31
4.4	Hypothesis Testing	32	
4.5	Discussion Of the study	32	

CHAPTER -V: SUMMARY, CONCLUSIONAND RECOMMENDATION 33-35

5.1	Summary of the study	33
5.2	Conclusion	35
5.3	Recommendation	35
	BIBLIOGRAPHY	36-38
	ВООК	36
	JOURNALS	36
	APPENDIX	39-47

LIST OF TABLES	PAGE NO.
Mean and SD of personal data of kho-kho and kabaddi group were presented table no -1	26
Mean, SD and t-value of 50-meter dash was presented it table no- 2	27
Mean, SD and t-value of 4*10 shuttle run was presented it table no- 3	28
Mean, SD and t-value of standing broad jump was presented it table no- 4	29
Mean, SD and t-value of sit and rich test were presented it table no- 5	30
Mean, SD and t-value 0f scat test was presented it table no- 6	31
	Mean and SD of personal data of kho-kho and kabaddi group were presented table no -1 Mean, SD and t-value of 50-meter dash was presented it table no- 2 Mean, SD and t-value of 4*10 shuttle run was presented it table no- 3 Mean, SD and t-value of standing broad jump was presented it table no- 4 Mean, SD and t-value of sit and rich test were presented it table no- 5 Mean, SD and t-value of sit and rich test were presented it table no- 5

FIGURE NO.	LIST OF FIGUR	PAGE NO.
1	Measurement of Height	18
2	Measurement of Weight	19
3	Measurement of Speed	20
4	Measurement of Agility	21
5	Measurement of Leg Explosive Strength	22
6	Measurement of Flexibility	23
7	Measurement of Anxiety Test (SCAT)	24
8	Fig. no-8 graphically represented of mean and SD of 50-meter dash kho-kho and kabaddi groups.	27
9	Fig.9 graphically represented of mean and SD of 4*10 shuttle run kho-kho and kabaddi groups.	28
10	Fig.10graphically represented of mean and SD of standing broad jump kho-kho and kabaddi groups.	29
11	Fig. no-11 graphically represented of mean and SD of sit and rich test kho-kho and kabaddi groups.	30
12	Fig. no-12 graphically represented of mean and SD of sports competition anxiety kho-kho and kabaddi groups.	31

SUMMARY, CONCLUSION, AND RECOMMENDATION

In the chapter the summary of all previous chapter had been in corporate. Conclusions draw on the basis of results obtained had also been put up in this chapter. Recommendation for future investigations and for practical application had been included in the chapter.

5.1 Summary

The purpose of the present study was to analyze the comparison between male Kho-Kho and kabaddi players in respect of selected motor fitness and anxiety. To achieve the purpose of the study, total 60 students were selected from Murshidabad District. Generally, we classified the term fitness into two categories that is performance related fitness or motor fitness and health related fitness. Motor fitness is a person's ability to perform in a specific activity with a regional efficiency. The selected subjects were of age group ranging from 18-24 years. The subject was randomly divided into two group Kho-Kho and Kabaddi players consisted of 30 subjects for each group.

The motor fitness variables selected for the study were; speed, agility, leg explosive strength, and flexibility was measured by the 50-meter dash, shuttle run, standing broad jump, and flexibility. Equipment was used for this test's Weighing machine, Stadiometer, Measuring tape, Stopwatch, and questioners. The test was administered for both groups at various days from selected clubs. Data was calculated by mean, SD and independent sample's test was used with the help of Microsoft excel to find the significant difference in between two group. The level of significant was set at 0.05 level of confidence. Mean and SD of Kho-Kho and Kabaddi players.

The present study was planned to analyses the motor fitness and anxiety status on male Kho-Kho and kabaddi players of college in Murshidabad Districts (west Bengal) the study is therefore needed to know the level motor fitness and anxiety of college level players. According to the problems was stated as"– "Comparative study on selected motor fitness and anxiety between Kho-Kho and Kabaddi players"

A total of sixty (60) male subjects of college level players Murshidabad Districts were selected subjects for the present study. The subjects were divided into two groups- Kho-kho (30) and Kabaddi Players (30). The selected personal data were age, height and weight. In motor fitness parameters selected were 50-Meter Dash, Shuttle Run, Standing Broad Jump, and Sit and rich Test. All these selected parameters were measured by using standardized tests viz. In psychological parameters selected was anxiety. Anxiety was measured by using standardized questioner.

50-Meter Dash for Speed, Shuttle Run for Agility, Standing Broad Jump for Leg Explosive Strength, Sit and Reach Test for Flexibility and Sports Scat Test for Anxiety.

The data were analyzed by using standard statistical technique. The mean and SD were calculated as descriptive statistics and 't' test was employed between the groups. The level of significance abbess the statistically values obtained was set at 0.05 level of confidence. The statistical calculations were computed by using SPSS version 23.

Regarding 50-meter dash the Kho-Kho players was significantly higher than the Kabaddi players respectively.

Mean values among the two groups were found significantly different. Kho-Kho Players possessed higher mean in speed followed by Kabaddi players.

Analyzing motor fitness among two groups it was observed that in speed was significantly differ between Kho-Kho and Kabaddi players.

Regarding Shuttle Run, the Kho-Kho was significantly higher than the Kabaddi players rrespectively.

Mean values among the two groups were found significantly different. Kho-Kho possessed higher mean in agility. Shuttle Run followed by Kho-Kho and Kabaddi players.

Analyzing motor fitness among two groups it was observed that in agility was significantly differ between Kho-Kho and Kabaddi players. 0.05 level significant between Kho-Kho and Kabaddi players.

Regarding Standing Broad Jump the Kho-kho players was significantly higher than the Kabaddi players respectively.

Mean values among the two groups were found significantly different. kabaddi players possessed higher mean explosive power of leg. Standing Broad Jump followed by Kho-kho and Kabaddi players.

Analyzing motor fitness among two groups it was observed that in explosive power was significantly differ between Kho-Kho and Kabaddi players at 0.05 level significant between Kho-Kho and Kabaddi players.

Regarding Sit and Reach Test, the Kho-kho players was significantly higher than the Kabaddi players respectively.

Mean values among the two groups were found significantly different. Kabaddi players possessed higher mean in flexibility. Sit and Reach Test. followed by Kho-Kho and Kabaddi players.

Analyzing motor fitness among two groups it was observed that in flexibility was

significantly differ between Kho-Kho and Kabaddi players. 0.05 level significant between Kho-Kho and Kabaddi players.

Regarding Sports Anxiety, found between the Kho-Kho and Kabaddi players. Motivation wasnot significant.

Mean values among the two groups were found not significant difference.

Analyzing psychological variable among two groups it was observed that in coordination wasnot significant difference between Kho-Kho and Kabaddi players.

5.2 Conclusions

On the basis of the result obtained and within the limited score of this study the following conclusion were drawn:

1. Mean difference existed in height among the two groups. Kabaddi higher than the Kho-khoplayers.

2. Mean difference existed in weight among the two groups. Kabaddi were heavier than thekho-kho players.

3. Kho-kho players had the best sprinting performance than the Kabaddi players.

4. Agility of Kho-Kho was higher than the Kabaddi players.

5. Leg explosive strength of Kabaddi was higher strength than the Kho-kho players.

6. Kho-Kho players were more flexibility than the Kabaddi players. Two groups were significantly different from Kho-Kho and Kabaddi players in sit and reach test.

7. Kabaddi was more anxiety level than the Kho-kho players. Two groups were significantly different from Kho-Kho and Kabaddi players in anxiety test.

5.3 Recommendations

On the basis of the results obtained and conclusions drawn the following recommendation were made for futures investigations.

1. The same study can also be conducted on male Kho-Kho and Kabaddi players.

2. Similar study can be conducted on national and international level Kho-Kho and Kabaddiplayers

3. Similar study can be taken for other disciplines.

4. Similar study can be conducted on Kho-Kho and Kabaddi players of performance and competitions.

5.Similar study can be conducted on school level players both for boys and girls.

6.Further similar study can be undertaken on college boys of different age groups as well as subject belonging to various community backgrounds within the state and between in the state of India.