Vol 3 Issue 6 March 2014

Impact Factor: 2.1002 (UIF)

ISSN No : 2249-894X

Monthly Multidisciplinary Research Journal

Review Of Research Journal

Chief Editors

Ashok Yakkaldevi A R Burla College, India Flávio de São Pedro Filho Federal University of Rondonia, Brazil

Ecaterina Patrascu Spiru Haret University, Bucharest

Kamani Perera Regional Centre For Strategic Studies, Sri Lanka

Welcome to Review Of Research

ISSN No.2249-894X

Review Of Research Journal is a multidisciplinary research journal, published monthly in English, Hindi & Marathi Language. All research papers submitted to the journal will be double - blind peer reviewed referred by members of the editorial Board readers will include investigator in universities, research institutes government and industry with research interest in the general subjects.

Advisory Board

	Flávio de São Pedro Filho	Horia Patrascu	Mabel Miao
	Federal University of Rondonia, Brazil	Spiru Haret University, Bucharest, Romania	Center for China and Globalization, China
	Kamani Perera Regional Centre For Strategic Studies, Sri Lanka	Delia Serbescu Spiru Haret University, Bucharest, Romania	Ruth Wolf University Walla, Israel
	Ecaterina Patrascu Spiru Haret University, Bucharest	Xiaohua Yang University of San Francisco, San Francisco	Jie Hao University of Sydney, Australia
	Fabricio Moraes de AlmeidaFederal University of Rondonia, Brazil	Karina Xavier Massachusetts Institute of Technology (MIT), USA	Pei-Shan Kao Andrea University of Essex, United Kingdom
	Catalina Neculai University of Coventry, UK	May Hongmei Gao Kennesaw State University, USA	Loredana Bosca Spiru Haret University, Romania
	Anna Maria Constantinovici AL. I. Cuza University, Romania	Marc Fetscherin Rollins College, USA	Ilie Pintea Spiru Haret University, Romania
	Romona Mihaila Spiru Haret University, Romania	Liu Chen Beijing Foreign Studies University, China	
	Mahdi Moharrampour Islamic Azad University buinzahra Branch, Qazvin, Iran	Nimita Khanna Director, Isara Institute of Management, New Delhi	Govind P. Shinde Bharati Vidyapeeth School of Distance Education Center, Navi Mumbai
	Titus Pop PhD, Partium Christian University, Oradea, Romania	Salve R. N. Department of Sociology, Shivaji University, Kolhapur	Sonal Singh Vikram University, Ujjain Jayashree Patil-Dake MBA Department of Badruka College
J. K Ta	J. K. VIJAYAKUMAR King Abdullah University of Science & Technology,Saudi Arabia.	Government Degree College, Tandur, A.P. S. D. Sindkhedkar	Commerce and Arts Post Graduate Centre (BCCAPGC),Kachiguda, Hyderabad
	George - Calin SERITAN Postdoctoral Researcher	PSGVP Mandal's Arts, Science and Commerce College, Shahada [M.S.]	Maj. Dr. S. Bakhtiar Choudhary Director,Hyderabad AP India.
	Faculty of Philosophy and Socio-Political Sciences Al. I. Cuza University Tasi	Anurag Misra DBS College, Kanpur	AR. SARAVANAKUMARALAGAPPA UNIVERSITY, KARAIKUDI,TN
		C. D. Balaji	V.MAHALAKSHMI

REZA KAFIPOUR Shiraz University of Medical Sciences Shiraz, Iran

RNI MAHMUL/2011/38595

Rajendra Shendge

Dean, Panimalar Engineering College

S.KANNAN Ph.D , Annamalai University

Kanwar Dinesh Singh Dept.English, Government Postgraduate College , solan

Director, B.C.U.D. Solapur University, Solapur

Awadhesh Kumar Shirotriya Secretary, Play India Play (Trust),Meerut (U.P.)

PhD, Elphinstone college mumbai-32

Panimalar Engineering College, Chennai

Bhavana vivek patole

More.....

Address:-Ashok Yakkaldevi 258/34, Raviwar Peth, Solapur - 413 005 Maharashtra, India Cell : 9595 359 435, Ph No: 02172372010 Email: ayisrj@yahoo.in Website: www.isrj.net

Review Of Research Vol. 3 | Issue. 6 | March. 2014 ISSN:-2249-894X

Available online at www.ror.isrj.net

ORIGINAL ARTICLE



EFFECT OF SLOW JOGGING AND RECREATIONAL GAMES ON SPEED AND EXPLOSIVE POWER **AMONG OBESE BOYS**

G. Vasanthi and Rajnish Kumar

Associate Professor, Pondicherry University Research Scholar, Pondicherry University.

Abstract:

The aim of this study is to find out the effect of slow jogging and recreational games on speed and explosive power among obese boys. Forty five obese boys were selected from the Arya International School, Varanasi. For this research, the subjects were divided randomly into three equal groups namely one control and two experimental groups consisting of fifteen obese boys in each group. The subject's age ranged between 12 to 14 years. Experimental groups were given 12 weeks slow jogging and recreational games training and the control groups were not allowed to participate in any of the training programmes. The training programme was given five days in a week for 45 minutes. Pretest and post test was conducted for both the groups on speed and explosive power before and immediately after the training. The data were computed statistically by using (ANCOVA) to find out the significant changes. The result reveals that the slow jogging group and recreational games group has significant effect on explosive power and speed of obese boys when compared to control group. When compared between the two experimental groups a recreational game was found to be better than the slow jogging training on speed and explosive power.

KEY WORDS:

Slow jogging, Recreational games, Speed, Explosive power and Obesity.

INTRODUCTION:

Obesity can be defined as an abnormal growth of adipose tissue due to enlargement of fat cell size (Hyper tropic Obesity) or an increase in fat cell in number (Hyperplastic obesity) or combination of both. Obesity is an extra amount of body fat relative to body weight. Jogging can be a great way to get in shape and lose weight. It doesn't require any special equipment and it takes no time at all to learn. Plus, it targets the entire body in an aerobic fashion. Not only can jogging strength then your legs and abdomen and help burn fat, but it also strengthens your cardiovascular and respiratory systems. Recreation is an activity of leisure, leisure being discretionary time. The "need to do something for recreation" is an essential element of human biology and psychology. Recreational activities are often done for enjoyment, amusement, or pleasure and are considered to be "fun". The term recreation implies participation to be healthy refreshing mind and body.People often uses "physical activity" and "exercise" interchangeably, the terms has different definitions. "Physical activity" refers to any body movement that burns calories, whether it's for work or play, daily chores, or the daily commute. "Exercise," a subcategory of physical activity, refers to

Title: EFFECT OF SLOW JOGGING AND RECREATIONAL GAMES ON SPEED AND EXPLOSIVE POWER AMONG OBESE BOYS , Source: Review of Research [2249-894X] G. Vasanthi and Rajnish Kumar yr:2014 | vol:3 | iss:6

EFFECT OF SLOW JOGGING AND RECREATIONAL GAMES ON SPEED AND EXPLOSIVE POWER

"planned, structured, and repetitive" activities aimed at improving physical fitness and health. Researchers sometimes use the terms "leisure-time physical activity" or "recreational physical activity" as synonyms for exercise.

METHODOLOGY

The study was designed to find out the effect of slow jogging and recreational games on speed and explosive power among obese boys. Forty five obese boys were selected from the Arya International School, Varanasi and their age ranged from 12 to 14 years. The subjects were equally divided into three groups namely control and two experimental groups with fifteen subjects in each group. Control group did not undergo any training programme rather than their daily routine work. The experimental group (Group I) was treated with slow jogging and experimental group (Group II) was treated with Recreational games. Training was given for a period of 12 weeks. 50 meters dash test was administered to find out speed and Sargent vertical jump test was administered to find out explosive power. The results of pre-test and posttest were compared by using analysis of Covariance (ANCOVA). The subjects living condition and life style were not taken into consideration for this study.

Table I ANALYSIS OF COVARIANCE FOR PRE-TEST, POST -TEST AND ADJUSTED POST TEST ON SPEED AMONG THE THREE GROUPS (Scores in Seconds)

	Group							
	Slow	Recreational	Control	SV	SS	Df	MSS	'F' Datia
	Jogging	games						Katio
Pre test								
Mean	11.63	11.77	12.10	В	1.787	2	0.894	1.294
S.D.	0.74	0.95	0.77	W	28.996	42	0.690	
Post test								
Mean	11.42	11.49	12.09	В	3.985	2	1.992	2.500
S.D.	0.79	96	0.92	W	33.468	42	0.797	
Adjusted								
post test	11.43	11.50	12.09	В	0.469	2	0.234	2.876
Mean				W	3.341	41	0.81	

The required table value df(2, 42) at 0.05 level= 3.22 df (2,41) at 0.05 level=3.23

Table –I shows that there is no significant difference among the three groups for the pre- test, since the calculated value 1.294 is less than the required table value 3.22

For the post test, there is no significant difference among the three groups since the calculated value 2.500 is less than the required value 3.22

The obtained 'F' ratio for the adjusted post-test means 2.876 is lesser than the table value 3.23 at 0.05 levels.

2

Hence it is concluded that there is no significant improvement on speed among the three groups.

Review Of Research | Volume 3 | Issue 6 | March 2014



 Table II

 ANALYSIS OF COVARIANCE FOR PRE-TEST, POST -TEST AND ADJUSTED POST TEST

 ON EXPLOSIVE POWER AMONG THE THREE GROUPS

	Group							
	Slow	Recreational	Control	SV	SS	df	MSS	'F' Ratio
	Jogging	games						
Pre test								
Mean	10.78	10.48	11.19	В	3.789	2	1.894	
S.D.	0.86	0.99	0.95	W	37.212	42	0.886	2.138
Post test								
Mean	13.14	12.97	11.22	В	33.743	2	16.871	
S.D.	0.87	0.899	0.90	W	33.623	42	0.801	21.075*
Adjusted								
post test	13.16	13.20	10.97	В	45.323	2	22.662	
Mean				W	15.963	41	0.389	58.205*

* Significant at 0.05 level

The required table value df(2, 42) at 0.05 level= 3.22

df (2,41) at 0.05 level=3.23

Table –II shows that there is no significant difference among the three groups for the pre- test, since the calculated value 2.138 is less than the required table value 3.22

For the post test, there is significant difference among the three groups since the calculated value 21.075 is higher than the required value 3.22

The obtained 'F' ratio for the adjusted post-test means 58.205 is higher than the table value 3.23 at 0.05 levels.

Hence it is concluded that there is significant improvement on explosive power among the three groups.

Since there is a significant difference, Scheffe's post hoc test was administered to find out the significant paired mean difference. This calculation helps to find out which group has significant improvement after the training programme. The result of Scheffe's post hoc test for explosive power is presented in table- III Review Of Research | Volume 3 | Issue 6 | March 2014 EFFECT OF SLOW JOGGING AND RECREATIONAL GAMES ON SPEED AND EXPLOSIVE POWER

TABLE –III SHEFEE'S POST-HOC TEST FOR THE SIGNIFICANT DIFFERENCE BETWEEN PAIRED ADJUSTED POST-TEST MEAN ON EXPLOSIVE POWER (Scores in Centimetre)

SLOW JOGGING GROUP	RECREATIONAL GAMES	CONTROL GROUP	MEAN DIFFERENCES	CI
13.16	13.20	-	0.04	
13.16	-	10.97	2.19*	0.578
-	13.20	10.97	2.23*	

*Significant at 0.05 level of confidence.

Table –III shows that there is a no significant difference between the slow jogging and recreational games as the mean difference 0.04 is lesser than the CI value 0.578 at 0.05 level of confidence. There is a significant difference between the slow jogging and control group as the mean difference 2.19 is greater than the CI value at 0.05 level of confidence. There is also a significant difference between the recreational games and control group as the mean difference 2.23 is greater than the CI value at 0.05 level of confidence. There is a significant effect due to slow jogging and recreational games on explosive power when compared to the control group. The recreational games are found to be superior to the slow jogging training.

The mean values on explosive power are graphically represented in figure-2





CONCLUSIONS

Within the limitations and delimitation of the study, the following conclusion are drawn

It is concluded that there is a no significant improvement on speed among the three groups.
 It is concluded that there is a significant improvement on explosive power among the three groups.
 The two experimental groups are found to be significant when compared to the control group.
 The recreational games have significantly improved explosive power better, than the slow jogging.

4

Review Of Research | Volume 3 | Issue 6 | March 2014

EFFECT OF SLOW JOGGING AND RECREATIONAL GAMES ON SPEED AND EXPLOSIVE POWER

REFERENCES

1.Brown and Holloszy "Effects of walking, jogging and cycling on strength, flexibility, speed and balance in 60- to 72-year olds", US National Library of Medicine National Institutes of Health 5(6) (December 1993):427-34.

2.Murtagh EM et al., "The Effects of 60 Minutes of Brisk Walking Per Week, Accumulated in Two Different Patterns, on Cardiovascular Risk", Preventive Medicine, 41(1) (July 2005):92-7.
3.Ramesh.V and .P.K. Subramaniam, Effect of Physical Activity and Aerobic Fitness on Health Related Physical Fitness Variables of Overweight and Obese Adolescence", Indian Journal of Yoga

Related Physical Fitness Variables of Overweight and Obese Adolescence", Indian Journal of Yoga Exercise &Sport Science and Physical Education, 2010:46-52.

4.Ramesh. V and Subrmaniam P.K, Effect of Aerobic and Calisthenics Exercise on Health Related Physical Fitness Variables of Obese Adolescence, Indian Journal for Research in Physical Education and Sports Sciences,(2011)

5. Vivian Heyward, (2010) "advanced fitness and exercise prescription Champaign (USA), human kinetics, p-129

5

6.http://en.wikipedia.org/wiki/Obesity

7.http://www.fitday.com/fitness-articles/fitness/weight-loss/jogging-to-lose-weight.

Review Of Research | Volume 3 | Issue 6 | March 2014

Publish Research Article International Level Multidisciplinary Research Journal For All Subjects

Dear Sir/Mam,

We invite unpublished research paper.Summary of Research Project,Theses,Books and Books Review of publication,you will be pleased to know that our journals are

Associated and Indexed, India

- ★ International Scientific Journal Consortium Scientific
- * OPEN J-GATE

Associated and Indexed, USA

- * DOAJ
- * EBSCO
- * Crossref DOI
- Index Copernicus
- Publication Index
- *Academic Journal Database
- * Contemporary Research Index
- *Academic Paper Databse
- ★ Digital Journals Database
- * Current Index to Scholarly Journals
- * Elite Scientific Journal Archive
- * Directory Of Academic Resources
- *Scholar Journal Index
- ★Recent Science Index
- ★ Scientific Resources Database

Review Of Research Journal 258/34 Raviwar Peth Solapur-413005,Maharashtra Contact-9595359435 E-Mail-ayisrj@yahoo.in/ayisrj2011@gmail.com Website : www.isrj.net