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EFFECTIVENESS OF YOGA ON RESILIENCE AMONG ADOLESCENTS AT SELECTED **SCHOOLS**

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ABSTRACT

Effectiveness of yoga on resilience among adolescents in selected schools. To assess the level of resilience among adolescents at selected schools both in experimental and control group; to evaluate the effectiveness of yoga on resilience among adolescents in selected schools at Gujrat and to associate the level of resilience among adolescents with their selected socio demographic variables. Hypotheses: There is a significant difference between the pretest and posttest score among adolescents in experimental group; there is a significant association between the level of resilience among adolescents with their selected socio demographic variables. Conceptual framework: Modified Imogene Kings Goal attainment theory. Methodology: Quasi experimental non equivalent control group pretest- posttest design was used. The study was conducted at selected schools in Gujrat. 60 subjects were selected by purposive sampling. The 14- items Resilience Scale was administered for pretest. Yoga was performed by the experimental group about 60 minutes daily for 6 weeks. Post test was conducted with same scale a day after 6 weeks. **Results:** The findings revealed that there was a significant increase in resilience level after intervention by dependent 't' test (t=9.608; p< 0.001); independent 't' test (t=10.599; p< 0.001). Association between post test score of resilience with educational status of mother was Significant at p< 0.05 level. Also educational status of father, birth order and parental support were significantly associated at 0.01level. Conclusion: Yoga was effective on increasing the resilience level among adolescents studying in a school.

Keywords: Hypothesis, School, Yoga

INTRODUCTION

Adolescence is a period of transition between childhood and adulthood- a time of rapid physical, cognitive, social, and emotional maturing as the boy prepares for manhood and girl prepares for womanhood. Except for the newborn and early infancy, no period of the human life- span encompasses more dramatic changes than does adolescence.

Adolescents are described as the young people between the age of 10 and 19 years and are considered as the transitional stage from childhood to adulthood. Adolescents are vulnerable by virtue of the normal development process. Biological changes that take place during puberty to include other major changes that occur at varying rates. These include changes in sexual characteristics, body image, sexual interest, career development, intellectual development and self-concept. Role changes increasing the vulnerability.

NEED FOR THE STUDY

Drawing on a wealth of published evidence and consultations with 10 to 19- year old surround the world, there portal so brings together, for the first time, all World Health Organization guidance on the full spectrum of health issues affecting adolescents. These include tobacco, alcohol and drug use, Human Immuno deficiency Virus infection, injuries, mental health, nutrition, sexual and reproductive health, and violence. The report recommends key actions to strengthen the ways countries respond to adolescents' physical and mental health needs.

Now a day, the school going adolescents develops more coping difficulties due to parental pressures and social expectations. So the investigator decided for the intervention which fosters resilience among adolescents studying in school. The investigator found that Yoga was effective in fostering resiliency among adolescent school going children. For developing positive adaptation among adolescents the investigator interested to do the research on evaluating the effectiveness of yoga on resilience.

STATEMENT OF THE PROBLEM

A study to evaluate the effectiveness of Yoga on Resilience among adolescents at selected schools in Gujrat.

OBJECTIVES

□To assess the level of resilience among adolescents in experimental group at Government Higher Secondary
school, Gujrat.
$\ \square$ To assess the level of resilience among adolescents in control group at Government Higher Secondary School,
Gujrat.
\square To evaluate the effectiveness of yoga on resilience among adolescents in experimental group at Government
Higher Secondary school, Gujrat.
☐ To associate the level of resilience among adolescents with their selected socio demographic variables.
RESEARCH HYPOTHESES
H ₁ : There is a significant difference between the pretest and post test score of resilience after yoga
intervention among adolescents in experimental group.
H _{2:} There is a significant association between the level of resilience among adolescents with their selected
socio demographic variables
ASSUMPTION
☐ There is a low resilience groups among adolescents.
☐ Yoga can be performed by the adolescents safely.
☐ Yoga may be one of the interventions which develop positive adaptation among adolescents.
adaptation among adolescents.
DELIMITATION
\Box The study is limited to the adolescents with the age group of 13-15 years.
☐ The study period is limited to 6 weeks
☐ The study is limited to school Settings

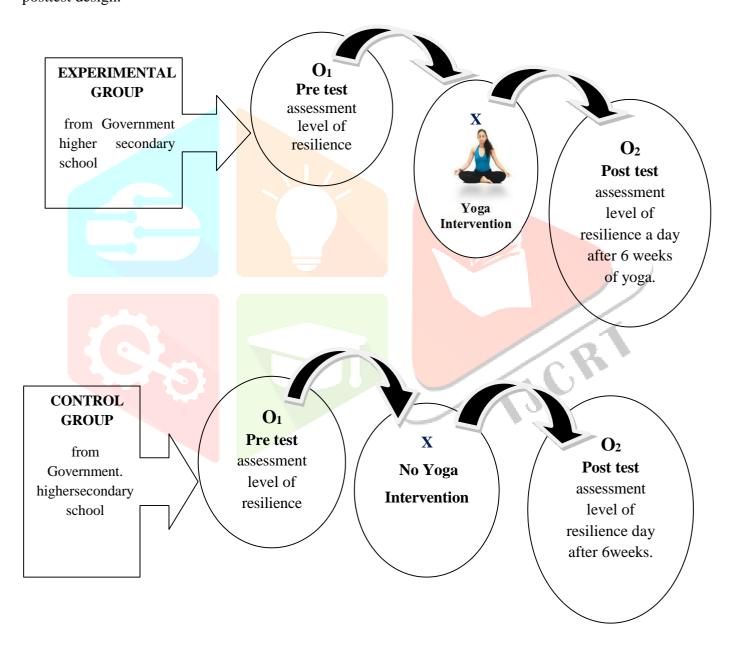
METHODOLOGY

RESEARCH APPROACH

Quantitative research approach was used in this study.

RESEARCH DESIGN

The research design used in this study was Quasi experimental non equivalent control group pretestposttest design.



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RESEARCH VARIABLES

Independent variable : Yoga

Dependent variable :Resilience level among Adolescents.

Demographic Variables :Age, sex, religion, education status of father, education

status of mother, father's occupation, mother's occupation, family income per month, type of family, ordinal position of child birth, parental support and experienced stress.

SETTINGS OF THE STUDY

The study was conducted for the adolescents studying 9th standard at Government Higher secondary school, and Government Higher secondary school, Gujrat.

Experimental group subjects were selected from Government Higher secondary school at Gujrat. Similarly the control group subjects were taken from Government Higher secondary school at Gujrat.

POPULATION

Population is the entire set of individuals or objects having some common characteristics.

Target population

Target population was adolescents who are studying 9th standard.

Accessible Population

In this study accessible Population were adolescents studying 9th standard at Government higher secondary school, and Government Higher secondary school, Gujrat.

SAMPLE

The sample for the present study was comprised of the adolescents studying 9th standard who met the inclusion criteria at Government higher secondary school, and Government Higher secondary school at Gujrat.

SAMPLE SIZE

The sample size consists of 60 adolescents. Among 60 subjects, 30 subjects were respectively assigned to each experimental group and control group.

SAMPLING TECHNIQUE

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Subjects for this study were selected through purposive sampling technique.

SAMPLING CRITERIA

The subjects were selected based on the following inclusion and exclusion criteria.

Inclusion criteria:

- Study includes both boys and girls.
- Age group of 13 to 15 years.
- Studying 9th standard.
- Those who are scored<82 on resilience scale
- Those who are willing to participate.

Exclusion criteria:

- Those who are highly resilient and scored ≥82 on resilience scale.
- Those who are undergone any surgery
- Those who are with physical or mental illness, or being on medication



DISTRIBUTIONOFSOCIODEMOGRAPHICVARIABLES

Table - 1 Frequency and percentage distribution of socio demographic variables of adolescents

n=60

S.			GROUP				
NO	DEMOGRAPHICVARIABLES		EXPERIMENTAL CONTRO			ROL	
			f	%	f	%	
1.	AGE	13 Years	05	16.7%	05	16.7%	
		14 Years	25	83.3%	25	83.3%	
		15 Years	0	0%	0	0%	
2.	GENDER	Male	18	60%	18	60%	
		Female	12	40%	12	40%	
3.	RELIGION	Hindu	29	96.7%	28	93.3%	
		Christian	01	3.3%	02	6.7%	
		Muslim	0	0%	0	0%	
4.	EDUCATION	Non formal education	04	13.3%	02	6.7%	
	STATUS OF	Primary education	02	6.7%	08	26.7%	
	FATHER	Secondary education	16	53.3%	16	53.3%	
		Higher secondary education	07	23.3%	03	10%	
		Degree / above	01	3.3%	01	3.3%	
5.	EDUCATION	Non formal education	10	33.3%	03	10%	
	STATUS OF	Primary education	05	16.7%	05	16.7%	
	MOTHER	Secondary education	07	23.3%	16	53.3%	
		Higher secondary education	08	26.7%	04	13.3%	
		Degree / above	0	0%	02	6.7%	
5.				GRO	UP	1	
O	DEMOGRAPH	MOGRAPHICVARIABLES		EXPERIMENTAL CONTROL			
			f	%	f	%	
	FATHER'S	Unemployed	0	0%	0	0%	
	OCCUPATION	Coolie work	15	50%	06	20%	

NO	DEMOGRAPHIC	CVARIABLES	EXPERIMENTAL CONTR			ROL	
			f	%	f	%	
6.	FATHER'S	Unemployed	0	0%	0	0%	
	OCCUPATION	Coolie work	15	50%	06	20%	
		Self employed	09	30%	18	60%	
		Private employee	0	0%	06	20%	
		Government employee	05	16.7%	0	0%	
		Farmer	01	3.3%	0	0%	
7.	MOTHER'S	Housewife	13	43.3%	15	50%	
	OCCUPATION	Coolie work	14	46.7%	06	20%	

		Self employed	0	0%	02	6.7%
		Private employee	02	6.7%	04	23.3%
		Government employee	0	0%	0	0%
		Farmer	01	3.3%	0	0%
		Housewife	13	43.3%	15	50%
8.	FAMILY INCOME	< Rs. 2000	0	0%	0	0%
		Rs.2001- Rs.5000	05	16.7%	03	10%
		Rs. 5001- Rs. 10000	14	46.7%	19	63.3%
		> Rs. 10000	11	36.7%	08	26.7%
9.	FAMILY TYPE	Nuclear	21	70%	20	66.7%
		Joint	09	30%	10	33.3%
10	BIRTH ORDER	First child	12	40%	17	56.7%
		Middle child	03	10%	02	6.7%
		Last child	15	50%	01	36.7%
11	PARENTAL	Father	06	20%	07	23.3%
	SUPPORT	Mother	10	33.3%	18	60%
		Both	14	46.7%	05	16.7%
12	EXPERIENCED	Yes	04	13.3%	04	13.3%
	STRESS	No	26	86.7%	26	86.7%
				JC	R	

SECTION-II

EXPERIMENTAL AND CONTROL GROUP

Table-2

nd percentage distribution of pretest level of resilience among adolescents in experimental and control group.

n=60

		EXPERIMENTAL		CONTROL GROUP	
S.NO	RANGE	GROU			
		f	%	f	%
1.	Very low (<56)	14	46.7%	12	40%
	Low(57-64)	4	13.3%	6	20%
	Moderately low (65-73)	7	23.3%	9	30%
	Moderately high (74-81)	5	16.7%	3	10%
- 1	High (82- 90)	0	0%	0	0%
	Very high (91- 98)	0	0%	0	0%
	TOTAL	30	100%	30	100%

SECTION-III

DISTRIBUTION OF POSTTEST LEVEL OF RESILIENCE AMONG ADOLESCENTS IN EXPERIMENTAL AND CONTROL GROUP

Table-3

Frequency and percentage distribution of posttest level of resilience among adolescents in experimental and control group.

n=60

		EXPERIMENTAL			TROL
S.NO	RANGE	GR	OUP	GROUP	
		f	%	f	%
1.	Very low (<56)	0	0%	12	40%
	Low(57-64)	2	6.7%	6	20%
	Moderately low (65-73)	10	33.3%	7	23.3%
	Moderately high (74- 81)	3	10%	5	16.7%
	High (82- 90)	12	40%	0	0%
	Very high (91- 98)	3	10%	0	0%
TOTAL		30	100%	30	100%

SECTION-IV

COMPARISON OF PRETEST AND POSTTEST LEVEL OF RESILIENCE AMONG ADOLESCENTS IN EXPERIMENTAL AND CONTROL GROUP

Table-4

Pretest and posttest mean score comparison to evaluate the effectiveness of yoga intervention on resilience

S.NO	GROUI	PRETEST	POST TEST	Mean
5.110	GROUI	MEANSCORE	MEANSCORE	Difference
1.	Experimental	59.4	78.3	18.9
	Group			
2.	Control Group	60.1	60.6	0.5

The above table shows that in experimental group mean score was increased from 59.4 to 78.3 and it shown that 18.9 increased in level of resilience after intervention. This indicates that yoga intervention was increased the resilience score among experimental group. In control group mean difference was only 0.5.

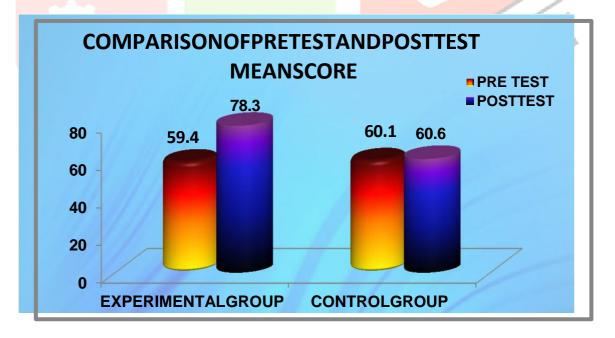


Figure 15: Frequency distribution of pretest and posttest mean score on resilience among adolescents both in experimental and control group

SECTION-V

EFFECTIVENESSOFYOGAONLEVELOFRESILIENCEAMONG ADOLESCENTS IN **EXPERIMENTAL GROUP**

't' Test to assess the effectiveness of yoga on level of Resilience among adolescents in experimental and control group

Table-5

	EXPERI	MENTA	NTALGROUP CONTROLGROUP			Student's	
GROUP	Mean	SD	Student's Dependent t- test value	Mean	SD	Student's Dependent t- test value	Independent t- test
PRE TEST	59.4	12.6	9.608*** Significant at P < 0.001	60.1	11.31	1.000 Not significant at P > 0.05	0.223 Not significant at P > 0.05
POST TEST	78.3	9.48		60.6	11.59		10.599*** Significant at P < 0.001

The above table reveals that significant increase of resilience at 0.001 level (t=10.599) among experimental group after yoga intervention. Also within the experimental group a significant improvement were found at 0.001 level (t= 9.608). Control group had no significant changes in the level of resilience.

SECTION-VI

ASSOCIATIONBETWEENTHELEVELOFRESILIENCEWITHSOCIO DEMOGRAPHIC VARIABLES

Chisquare test to associate the posttest level of resilience among adolescents with their socio demographic variables

Table-6

S.	SOCIODEMOGRAPHIC EXPERIMENTAL GROUP			
NO	VARIABLES	χ2	Df 'P' value	
1	Age			
	13 years	4.200	4 0.380	
	14 years		Non	
	15 years		significa	nt
2	Gender			
	Male	7.847	4 0.097	
	Female		Not signific	cant
3	Religion	1 /		
	Hindu	7.310	4 0.074	
	Christian		Not signific	cant
	Muslim			
4	Education status of father			1
	Illiterate			5
	Primary education	33.982	16 0.005**	k
	Secondary education		Significan	t at
	Higher Secondary education		0.01	
	Degree and above			

S. NO	DDEMOGRAPHIC	EXPERIMENTALGROUP			
	VARIABLES	χ2	Df	'P' value	
5	Education status of mother				
	Illiterate				
	Primary education	25.907	16	0.011*	
	Secondary education			Significant at	
	Higher Secondary education			0.05	
	Degree and above				
6	Father's occupation				
	Unemployed				
	Coolie wor <mark>k</mark>	16.156	12	0.184	
	Self emplo <mark>yed</mark>			Not significant	
	Private employee				
	Governme <mark>nt emp</mark> loyee				
	Farmer			3	
7	Mother's occupation				
	Unemployed				
	Coolie work			18	
	Self employed	11.448	12	0.491	
	Private employee			Not significant	
	Government employee				
	Farmer				
8	Family income				
	<rs.2000< td=""><td></td><td></td><td></td></rs.2000<>				
	Rs. 2001- Rs.5000	10.33	8	0.111	
	Rs. 5001- 10000			Not significant	
	>Rs.10,000				
S.	SOCIODEMOGRAPHIC	EXPERIM	IENTAL	GROUP	
NO	VARIABLES	χ2	Df	'P' value	

9	Family type			
	Nuclear family	8.492	4	0.075
	Joint family			Not significant
10	Birth order			
	First Child	24.3	8	0.002**
	Middle child			Significant at
	Last child			0.01
11	Parental support			
	Father	22.157	8	0.005**
	Mother			Significant at
	Both			0.01
12	Experienced stress			
	Yes	1.731	4	0.785
	No			Not significant
			1	
			1///	

CONCLUSION

Community health nurse plays an important role in health promotion among adolescents. Although the focus of nurses often includes health promotion and health protection, early detection and prompt treatment, and care of adolescents, the primary focus is on education. Registered Nurses must be cognizant of developmental tasks, level of stress and effective coping strategies, health risk behaviors, and levels of resilience when caring for adolescents.

Ultimately the nurse has the opportunity to enhance resilience and minimize high risk behaviors through assessment, education, and referral, if needed. Identifying high risk behaviors is essential to achieving positive health outcomes. Thus, screening for such behaviors and resiliency in the adolescent is critical. For adolescents with low levels of resilience, the nurse would provide appropriate follow-up care and referral as indicated. In inferential statistics of this study showed that there is an increase in level of resilience after yoga intervention when compared with pre test.

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