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A Pre Experimental Study to Assess the Effectiveness of Yoga on Stress and Anxiety Level among B.Sc. Nursing First Year Students at Selected Nursing Colleges in Gurugram, Haryana

Ajay Kumar Patel¹, Poonam Sharma², Rashmi³

¹M.Sc. Nursing, Amity College of Nursing Haryana, India

Abstract: A Pre experimental Study to assess the effectiveness of "yoga" on stress and anxiety level among b.sc. Nursing first year students. In this study a quantitative approach and pre-experimental research design was used. 37 B.Sc. nursing first year students were selected by total enumeration sampling technique in R.R. College of nursing Gurugram Haryana. Modified Stress Assessment Scale was used to assess the stress & Standardized Self rating anxiety scale was used to assess the anxiety of students. The computed "t" value ("t"=2.783) for stress was significant at 0.05 level of significance. The computed "t" value ("t"=1.86) for anxiety was statistically not significant at 0.05 level of significance. The 'YOGA' was significantly effective in reducing the stress, and difference obtained in the mean anxiety score after the administration of "YOGA" was found effective in reducing the anxiety level of students.

Keywords: Yoga, Effectiveness. Stress, Anxiety

1. Introduction

Academic sources for stress and anxiety like examinations, long hours of study, lack of free time, assignments and grades and lack of timely feedback after their performance, special activity of the academic program like arrangement and conduction of workshops, also produce stress and anxiety among nursing students. Breathing and relaxation techniques regularly are advocated for reduction of stress control of psycho-physiological states and to improve organ. ².

2. Review of Literature

- 1) An exploratory, cross sectional study comprised of 100 conveniently selected postgraduate nursing students from four nursing colleges of Punjab. Results showed that about 34% students had mild, 18% had moderate, 22% had severe anxiety and 15% had extremely severe anxiety. About 15% students had mild stress, 26% had moderate stress, 6% had severe stress and 3% had extremely severe stress. Study suggests that postgraduate nursing students experienced high levels of depression, anxiety and stress which probably may affect their physical and psychological wellbeing.³
- 2) An experimental study was conducted to evaluate the effectiveness of yoga therapy on anxiety perceptions and experiences. Yoga therapy was associated with significant decreases in anxiety perceptions over time, these changes were not significant when compared with the control group.⁴
- 3) An experimental study was conducted to assess and compare the stress level of B.Sc. Nursing first year students before and after the administration of Yoga

Nidra. The findings of the study reveals that mean stress score after Yoga Nidra (17.8) was lesser than the mean stress score before Yoga Nidra (28.82). This indicates decrease in stress scores of B.Sc. nursing first year students.⁵

3. Objectives of Study

- To assess and evaluate the level of stress among B.Sc. Nursing first year students before and after the administration of "YOGA".
- To assess and evaluate the level of anxiety among B.Sc. Nursing first year students before and after the administration of "YOGA".
- 3) To determine the association between pre-test stress score with selected personal variables.
- To determine the association between pre-test anxiety score with selected personal variables.
- 5) To find out the association between post-test stress score with selected personal variables.
- 6) To find out the association between post-test anxiety score with selected personal variables.

4. Methodology

Quantitative research approach and pre-experimental research design was used in this study.

Population: B.Sc. Nursing Students

Sample: B.Sc. nursing first year students studying in R.R.

College of Nursing Gurugram, Haryana

Sample: 37

Sampling Technique: Total enumeration

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²Associate Professor, Amity College of Nursing, Haryana, India

³Assistant Professor, Amity College of Nursing, Haryana, India

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Hypothesis of the Study

H1: There will be a significant difference between pre-test mean stress score and post test mean stress score of B.Sc. Nursing first year students after the administration of "YOGA" in selected Nursing Colleges of Gurugram at 0.05 level of significance.

H2: There will be a significant difference between pre-test mean anxiety score and post test mean anxiety score of B.Sc. Nursing first year students after the administration of "YOGA" in selected Nursing Colleges of Gurugram at 0.05 level of significance.

 \mathbf{H}_{01} : There will be no significant difference between pre-test mean anxiety score and post test mean anxiety score of B.Sc. Nursing first year students after the administration of "YOGA" in selected Nursing Colleges of Gurugram at 0.05 level of significance

H₀2: There will be no significant difference between pre-test mean anxiety score and post test mean anxiety score of B.Sc. Nursing first year students after the administration of "YOGA" in selected Nursing Colleges of Gurugram at 0.05 level of significance

Variables of the Study

1) Dependent Variables: Stress and anxiety

2) Independent Variables: YOGA

Data Collection Tools and Technique

S. No.	Tools	Purpose	Data Collection Technique
1	Selected Perssonal Variables	To assess the personal information of B.Sc nursing 1 st year students.	
2	Modified Stress Assessment Scale	To assess the stress level of B.Sc nursing 1 st year students.	Paper and Pencil
3	Standardized zung self-rating anxiety scale	To assess the anxiety level of B.Sc nursing 1st year students.	

Reliability

Name of the Tool	Method	Reliability
Zung self-rating scale	Karl Pearson Correlation Coefficient	.80
Modified Stress Assessment Scale	Test Re-test	.906

Content vaidity of the tool

The content validity of the tool was obtained by submitting the tools to seven (7) experts. All experts were agreed with statement except for few suggestions. Draft of the tool consisted of 20 items.

Final study

The final study was conducted in the **R.R. College of Nursing Gurugram, Haryana**. The data was collected form 01/02/2019 to 28/02/2019 by using total enumeration technique.

Table 5: Frequency and Percentage Distribution of Selected Personal Variables of B.Sc. Nursing First Year N=37

· · · · · · · · · · · · · · · · · · ·	11=37		
Personal Variable	Categories	Frequency (f)	Percentage (%)
	16-18	25	67.6
Age	19-21	10	27
Age	22-25	2	5.4
Sex	Female	37	100
Sex	Hindu	36	97.3
-		0	0
Religion	Muslim Sikh	1	2.7
-	Christian	0	0
		15	
Place of residence	Hostler	22	40.5 59.5
	Day Scholar		
Type of Family	Nuclear	22	59.5
	Joint	15	40.5
-	0	1	2.7
N. 663.11	1	12	32.4
No. of Siblings	2	13	35.1
1	3	4	10.8
	More than 3	7	18.9
	Below 20 K	12	32.4
Family income/	21-40K	17	45.9
Month	41-60K	7	18.9
	More than 60 K	1	2.7
	<10th	16	43.2
Mother's	12th	13	35.1
Education	Graduation	3	8.1
	PG	5	13.5
	Private Employee	4	10.8
Mother's	Business	0	0
Occupation	Government	3	8.1
Occupation	Employee	3	0.1
	Home Maker	30	81.1
	10th	9	24.3
Father's Education	12th	14	37.8
ramer s Education	Graduation	11	29.7
	PG	3	8.1
	Private Employee	15	40.5
Father's	Business	6	16.2
Occupation -	Government	8	21.6
Occupation	Employee	0	
	Not Working	8	21.6
History of stress	Yes	1	2.7
disorder	No	36	97.3
History of anxiety disorder	No	37	100
Previous exposure	Yes	11	29.7
to yoga	No	26	70.3

Table 5 depicts that majority of B.Sc. Nursing first year students 25 (67.6%) were in the age group of 16-18 year, All the students were female and 36(97.3%) belong from Hindu religion, 22(59.5%) were day scholar. 22(59.5%) of students were belong from nuclear family. 13(35.1%) students have 2 sibling, 17(45.9%) students have 21000 to 40000 family income per month, 16(43.2%) student's mothers 10th passed, 30(81.1%) mothers were home maker. 14(37.8%) student's fathers were 12th passed, and 11(29.7%) were graduate. 15(40.5%) student's father were working in private sector. 1(2.7%) of the student has previous history of stress and no one had any previous anxiety disorder and 26(70.3%) students has not previously exposed to any Yoga session before.

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Table 6: Findings Related to Level of Stress of Students Before and After the Administration of "YOGA" N=37

	Pre-	-Test	Post-Test			
Categories	Frequency	Percentage	Frequency	Percentage		
	(f)	(%)	(f)	(%)		
Mild	26	70.3	29	78.4		
Moderate	10	27	8	21.6		
Severe	01	2.7	0	0		

Table-6 reveals that before the administration of "YOGA" 26(70.3%) of students have mild level of stress, 10(27%) of students have moderate level of stress and 1(2.7%) of students have severe level of stress, whereas after the administration of "YOGA" 29(78.4%) of students have mild level of stress, (21.6%) of students have moderate level of stress.

Table 7: Finings Related to Effectiveness of "YOGA" on Stress Level of B.Sc. Nursing First Year Students, N=37

-							
	Paired t-Test	Mean	SD	Mean	df	t-test	p-
				Difference		Value	Value
Ī	Pre-Test	44.81	12.76 <u>+</u> 2.09	27.83	36	2.158	.038*
	Stress score						
Ī	Post-Test	42.02	10.84 <u>+</u> 1.78				
	Stress score						

(P<0.05), *significance at 0.05 level of significance

Table-7 shows that the computed "t" value ("t"=2.158) (P=.038) was significant at 0.05 level of significance. Thus it is established that difference obtained in the mean stress score before and after the administration of "YOGA" was effective in reducing the stress level of B.Sc. Nursing first year students.

Hence the null hypothesis H_{01} was rejected and research hypothesis H_{1} was accepted.

Table 8: Findings Related to Anxiety Level of B.Sc. Nursing First Year Students Before and After the Administration of "YOGA", **N=37**

Administration of TOGA, N=37									
	Pre-	Test	Post-Test						
Categories	Frequency	Percentage	Frequency	Percentage					
	(f)	(%)	(f)	(%)					
Normal Range Anxiety	27	73	30	81.1					
Mild to Moderate Anxiety	10	27	7	18.9					
Marked Severe Anxiety	0	0	0	0					
Extreme Anxiety	0	0	0	0					

Table-8 reveals that before the administration of "YOGA" 27(73%) of students have normal level of anxiety and 10(27%) of students have mild to moderate level of anxiety, whereas after the administration of "YOGA" 30(81.1%) of students have normal level of anxiety and 7(18.9%) students have mild to moderate level of anxiety.

Table 9: Finings Related to Effectiveness of "YOGA" on Anxiety Level of B.Sc. Nursing First Year Students.

N=37										
Paired t-Test	Mean	SD	Mean	df	t-test	p-				
			Difference		Value					
Pre-Test	39.37	8.96 <u>+</u> 1.47	2.05	36	1.86	.071 ^{NS}				
Anxiety score										
Post-Test	37.32	8.34 <u>+</u> 1.37								
Anxiety score										

NS (P>0.05), Not significance at 0.05 level of significance

Table-9 shows that the mean anxiety score of B.Sc. Nursing first year students before the administration of "YOGA" was 39.37 and standard deviation was 8.96 and mean anxiety score after the administration of "YOGA" was 37.32 and standard deviation was 8.34 with the mean difference of 2.05. The computed "t" value ("t"=1.86) (P=.071) was statistically not significant at 0.05 level of significance. Thus it is established that difference obtained in the mean anxiety score before and after the administration of "YOGA" was effective in reducing the anxiety level of B.Sc. Nursing first year students.

Hence the null hypothesis H02 was accepted and research hypothesis H2 was rejected.

Table 10: Fisher's Exact Value Showing Association of Pretest Stress Score with Selected Personal Variables of B.Sc.

	Nursing F						c.
Personal		Normal			Fisher's	df	p-
Variable	Categories	Range	Moderate		Exact	αī	value
	16-18	18	6	1			
Age	19-21	7	3	0	.426	2	1.00^{NS}
	22-25	1	1	0			
Sex	Female	26	10	1			
D-1:-:	Hindu	25	10	1	204	1	1.00 ^{NS}
Religion	Sikh	1	0	0	.284	1	1.00
Place of	Day Scholar	15	6	1	.379	1	.690 ^{NS}
residence	Hostler	11	4	0	.319	1	.090
Type of	Nuclear	17	5	0	.379	1	.690 ^{NS}
Family	Joint	9	5	1	.319	1	.090
	0	1	0	0			
N£	1	8	4	0			
No. of	2	8	4	1	1.727	4	.876 NS
Siblings	3	3	1	0			
	More than 3	6	1	0			
	Below 20 K	8	4	0			
Family	21-40K	12	4	1			
income/	41-60K	6	1	0	4.760	3	.173 ^{N3}
Month	More than	0	1	0			
	60 K	U	1				
	10th	11	5	0		3	
Mother's	12th	10	3	0	4.012		.220 ^{NS}
Education	Graduation	1	1	1	4.012		.220
	PG	4	1	0			
	Private	4	0	0			
	Employee	4	U				
Mother's	Government	2	1	0	1.287	2	.605 ^{NS}
Occupation	Employee	2	1		1.207	_	.003
	Home	20	9	1			
	Maker		,				
	10th	8	1	0			
Father's	12th	10	4	0	4.438	3	.198 ^{NS}
Education	Graduation	6	4	1	7.730	3	.170
	PG	2	1	0			
	Private	10	4	0			
	Employee	10	-				
Father's	Business	4	2	0			
Occupation	Government	6	2	0	3.184	3	.377 ^{NS}
Secupation	Employee	0					
	Not	6	2	0			
	Working						
History of	Yes	0	1	0	:		n . NIG
stress disorder	No	26	9	1	3.726	1	.216 NS
5 May 2		1	1	1	1		

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History of anxiety disorder	No	26	10	0			
Previous	Yes	7	3	1			
exposure to yoga	No	19	7	0	.295	1	.672 ^{NS}

NS (P>0.05), Not significant at 0.05 level of significance

Table 10 shows that Fisher's Exact computed between stress score before the administration of "YOGA" with selected were found there were not significant at 0.05 level of significance.

Table 11: Fisher's Exact Value Showing Association of Pretest Anxiety Score with Selected Personal Variables of B.Sc.

Nursing First Year Students, N= 37

	Nursing Firs	st Year S	students,	N=3/				
Personal	Categories	Normal	Mild	Fisher's	df	n voluo		
Variable	Categories	Range	Moderate	Exact	uı	p-value		
	16-18	15	10					
Age	19-21	10	0	6.305	2	0.033^{NS}		
	22-25	2	0					
Sex	Female	27	10					
	Hindu	26	10					
Religion	Sikh	1	0	.381	1	1.00^{NS}		
Place of	Day Scholar	15	7					
residence	Hostler	12	3	.632	1	.481 ^{NS}		
Type of	Nuclear	17	5					
			5	.509	1	.708 ^{NS}		
Family	Joint	10						
	0	1	0					
No. of	1	11	1			NC		
Siblings	2	9	4	5.711	4	.176 ^{NS}		
Biomigs	3	3	1					
	More than 3	3	4					
	Below 20 K	9	3					
Family	21-40K	12	5					
income/	41-60K	5	2	.704	3	1.00^{NS}		
Month	More than 60 K	1	0					
	10th	12	4					
Mother's	12th	10	3		3	NO		
Education	Graduation	2	1	21.132		.890 ^{NS}		
Education	PG	3	2					
	Private	3						
		3	1					
Mother's	Employee		000	.908	_	ZOONS		
Occupation	Government	3	0		.908 2	.908	.908 2	.798 ^{NS}
	Employee	2.1						
	Home Maker	21	9					
	10th	7	2					
Father's	12th	10	4	.578	3	1.00^{NS}		
Education	Graduation	8	3	.570	,	1.00		
	PG	2	1					
	Private	9	6					
	Employee	9	U					
Father's	Business	6	0	8.113	3	.022 ^{NS}		
Occupation	Government	4	4	0.113	3	.022		
	Employee	4	4					
	Not Working	8	0					
History of	Yes	0	1	2.555	,	aga Ng		
stress disorder	No	27	9	2.775	1	.270 ^{NS}		
History of	-							
anxiety	No	27	10					
disorder	0	_,						
Previous	Yes	5	6					
exposure to				6.010	1	.022*		
yoga	No	22	4	0.010	1	.022		
yogu			l					

(P<0.05), * Significant at 0.05 level of significance, NS (P>0.05) Not Significant

Table 11 shows that Fisher's Exact computed between anxiety score before the administration of "YOGA" with selected personal variables. It shows that significant association with age, father's occupation, and previous exposure to Yoga and rest of others were not significant at 0.05 level of significance.

Table 12: Fisher's Exact Value Showing Association of Post-test Stress Score with Selected Personal Variables of P. So. Nursing First Year Students, N= 37

B.Sc. Nursing First Year Students, N= 37							
Personal Variable	Category	Normal Range	Mild Moderate	Severe	Fisher's Exact	df	p-value
	16-18	19	6	0			
Age	19-21	8	2	0	.426	2	1.00^{NS}
8-	22-25	2	0	0			
Sex	Female	29	8	0			
	Hindu	28	8	0			NG
Religion	Sikh	8	0	0	.284	1	1.00^{NS}
Place of	Day Scholar	11	4	0	250	_	cooNS
residence	Hostler	18	4	0	.379	1	.690 ^{NS}
Type of	Nuclear	18	4	0	270		cooNS
Family	Joint	11	4	0	.379	1	.690 ^{NS}
	0	1	0	0			
	1	10	2	0			
No. of	2	9	4	0	1.727	4	.876 ^{NS}
Siblings	3	3	1	0		-	
	More than 3	6	4	0			
	Below 20 K	9	3	0			
Family	21-40K	13	4	0			
income/	41-60K	7	0	0	4.760	3	.173 ^{NS}
Month	More than	,	U	0	4.700	,	.175
Wionin	60 K	0	1	U			
	10th	14	2	0			
Mother's	12th	10	3	0		3	
Education	Graduation	1	0	0	4.012		.220 ^{NS}
Education	PG	4	1	0			
	Private	4	1	0			
	Employee	4	0	U			
Mother's Occupation	Government Employee	2	0	0	1.287	2	.605 ^{NS}
	Home Maker	23	7	0			
	10th	9	0	0			
Father's	12th	11	3	0			. NC
Education	Graduation	7	4	0	4.438	3	.198 ^{NS}
	PG	2	1	0			
	Private			0			
	Employee	11	4				
	Business	4	2	0			
Father's	Covernment			0	3.184	3	.377 ^{NS}
Occupation	Employee	6	2				
	Not			0			
	Working	8	0				
History of	Yes	0	1	0			
stress	No	29	7	0	3.726	1	.216 ^{NS}
disorder	No	29	/				
History of				0			
anxiety	No	29	8				
disorder							
Previous	Yes	8	3	0			210
exposure	No	21	5	0	.295	1	.672 ^{NS}
to yoga	110	21	<i>J</i>				

NS (P>0.05) Not significant at 0.05 level of significance

Table 12 shows that Fisher's Exact computed between stress score after the administration of "YOGA" with selected

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personal variables. It shows that there was no significant association with any personal variable at 0.05 level of significance

Table 13: Fisher's Exact Value Showing Association of Post-test Anxiety Score with Selected Personal Variables of

B.Sc. Nursing First Year Students, N= 37

B.Sc. Nursing First Year Students, N= 37								
Personal	Categories	Normal	Mild	Fisher's	df	p-value		
Variable	Categories	Range	Moderate	Exact	uı	p-varue		
	16-18	20	5					
Age	19-21	8	2	.390	2	1.00^{NS}		
	22-25	2	0					
Sex	Female	30	7					
	Hindu	29	7					
Religion	Sikh	1	0	.240	1	1.00^{NS}		
Place of	Day Scholar	13	2			NC		
residence	Hostler	17	5	.513	1	.677 ^{NS}		
Type of	Nuclear	18	4			NC		
Family	Joint	12	3	.019	1	$1.00^{\rm NS}$		
1 annry	0	1	0					
	1	11	1					
No. of	2.	11	2	4.104	4	.396 ^{NS}		
Siblings	3			4.104	4	.390		
		3	1					
	More than 3	4	3					
	Below 20 K	10	2					
Family	21-40K	14	3			NC		
income/	41-60K	6	1	3.437	3	.361 ^{NS}		
Month	More than	0	1					
	60 K	U	1					
	10th	12	4		3			
Mother's	12th	11	2	1.025		.922 ^{NS}		
Education	Graduation	3	0	1.023		.922		
	PG	4	1					
	Private	4	0		2			
	Employee	4	0					
Mother's	Government	2	0	1.040		7 co NS		
	Employee	3	0	1.040		.769 ^{NS}		
	Home		_			İ		
	Maker	23	7					
	10th	9	0					
Father's	12th	10	4			NO		
Education		9	2	3.654	3	$.284^{\mathrm{NS}}$		
Laucation	PG	2	1					
			1					
	Private	12	3					
	Employee	-	1					
Father's	Business	5	1	2.402	2	.302 ^{NS}		
Occupation	Government	5	2	3.482	3	.302		
•	Employee							
	Not	8	0					
	Working							
History of	Yes	1	0			NO		
stress	No	29	7	0.240	1	$1.00^{\rm NS}$		
disorder	110	2)	,					
History of								
anxiety	No	30	7	••••				
disorder								
Previous	Yes	6	5					
exposure	No	24	2	7.186	1	0.016*		
to yoga	140	24	2					

(P<0.05), *significant at 0.05 level of significance, NS (P>0.05) Not significant

Table 13 shows that Fisher's Exact computed between anxiety score after the administration of "YOGA" with selected personal variables. It shows that significant association with previous exposure to Yoga and rest of others were not significant at 0.05 level of significance.

5. Discussion

Similar study conducted on effect of "YOGA" on anxiety among nursing students. It was found that "YOGA" was effective in reducing the anxiety among nursing students as the calculated 't' value was 16.7 and 11.7 and p value < 0.0001 being less than 0.05 level of significance in psychological and physiological aspects respectively by Suchismita Pahantasingh, et. al. (2017).

6. Conclusion

The administration of 'YOGA' was significantly effective in reducing the stress level of B.Sc. Nursing first year students at the level of 0.05 significance, and difference obtained in the mean anxiety score before and after the administration of "YOGA" was effective in reducing the anxiety level of B.Sc. Nursing first year students but not significance at 0.05 level of significance.

7. Limitation

The study was confined to a small no. of students (37) participating in the study. This limits the generalization of the findings.

8. Recommendations

- 1) The study can be replicated on a large sample of students from different colleges to make broader generalization.
- A longitudinal study can be conducted by administering 'YOGA' over a period of 3-6 months and there after result can be noted.
- An experimental study can be conducted to evaluate the impact of 'YOGA' on physiological parameter of patients.
- 4) An experimental study can be conducted to evaluate the impact of 'YOGA' on psychosomatic disorders (Insomnia, drug addiction, asthma etc.) of patients.
- 5) An experimental study can be conducted to evaluate the impact of 'YOGA' on cardio-vascular stress response.
- A comparative study can be conducted with other methods of relaxation.

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