

# Study To Assess the Effectiveness of Laughter Therapy on Stress and Depression Among Elderly Residing in Old Age Home

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## **Abstract**

### **Background**

*This study assesses the effectiveness of Laughter Therapy on depression among elderly residing in old age home, Jodhpur.*

### **Materials and Methods**

*Quantitative/evaluative approach was used to test the effectiveness of intervention pre-experimental approach with one group pre-test and post-test design was used to assessing the effectiveness of Laughter Therapy on depression among elderly residing in old age home. Data was collection was done on 15 march 2025 regarding demographic characteristics and Geriatric depression scale using multiple choice close ended questionnaire.*

### **Results**

*It's evident that there is remarkable decrease in level of depression among elderly people residing in old age home after the laughter therapy sessions. The mean posttest depression scores 5.15 was significantly lesser than the mean pretest depression scores 8.48, this difference in mean is a true difference by the intervention laughter therapy and not by chance.*

### **Conclusion:**

*There was a significant difference between mean pretest and mean post-test depression scores among elderly in old age home at  $P < (0.005)$  level of significance. The mean pretest depression score was 8.48 and the mean posttest depression scores was 5.15.*

**Keywords:** *laughter therapy, depression, old age home.*

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## **I. Introduction**

***The human race has one really effective weapon and that is laughter.***

**-Mark Twain**

A cheerful heart is good medicine, but a broken spirit saps a person's strength. Over the years, many physical benefits to laughter have been reported by doctors and health care professionals. patients are in need of the therapeutic effects of humor and laughter. The ability to see the humor in a situation and to laugh freely with others can be an effective way to take care of our own body, mind and spirit. Role of the nurse in providing care to the community includes not only physical and physiological factors but also psychological and emotional factors. Nurses can play vital role in reducing depression by using complimentary therapies which help the patient to cope with stress and alleviate anxiety.

Over the years, many physical benefits to laughter have been reported by doctors and health care professionals. patients are in need of the therapeutic effects of humor and laughter.

In this research the researcher study, assesses the effectiveness of Laughter Therapy on depression among elderly residing in old age home.

## **II. Materials And Methods**

- a) **Research Approach** - quantitative/evaluative approach
- b) **Research Design** - Pre experimental research design
- c) **Setting of the Study** – Elderly residing in old age homes of jodhpur
- d) **Participant and Procedure** - a close ended questionnaire
- e) **Sample Technique** – non probability sampling (purposive)
- f) **Sample Size** - sample size 80
- g) **Inclusion criteria** –

1. Elderly those who were 60 and above years of age.
2. Elderly people who available at the time of data collection.
3. The individuals those who understand and speak English & Hindi.

**h) Exclusion criteria**

1. Elderly who were terminally ill.
2. Elderly who had history of mental illness and taking medications
3. Elderly who were previously exposed to Laughter therapy.
4. Individuals those who were not willing to participate.

**D) Variables under the study**

Independent variable - Laughter therapy.  
 Dependent variable - Level of depression among elderly.

**J) Description of the study** - A closed-ended questionnaire was prepared containing informed consent along with 2 sections. (I.e. Socio-demographic, Geriatric scale)

**K) Socio demographic data** – Include fourteen demographic variables such as age, gender, religion, marital status, monthly income, education, Type of family, employment, number of children, Occupation of children, mode of entry in old age home, medical illness (if any present), duration of stay

**L) Effectiveness of Laughter therapy** – It includes fifteen items to assess the effectiveness of laughter therapy Effectiveness of Laughter therapy – to describe the effectiveness of laughter therapy in reducing depression in elderly the level of effectiveness is categorized into 4 category Normal (0-4), Mild depression (5-8), Moderate depression (9-11), severe depression (12- 15). One group pre- test and post- test design is used.

**M) Reliability of the Tool** - The Tool was a standardized one. Test re test method was used to assess the internal consistency which reached satisfactory reliability score of  $\alpha = 0.85$ . Hence the tool was reliable and was used in this study.

**N) Statistical Analysis** - The data obtained was analyzed using descriptive and inferential statistics. Descriptive statistics include calculation of Mean, Standard deviation, computing frequency and percentage. Inferential statistics was done using paired T test and Chi – square analysis to assess the effectiveness of laughter therapy on depression with selected variables.

**III. Result**

**PART I: Frequency and percentage distribution of subjects according to demographic variable.**

Demographic variables		Post test level of depression						Total	X <sup>2</sup>
		Normal		Mild		Moderate			
		n	%	n	%	n	%		
Age	60 -70 yrs	26	43.3%	22	36.7%	12	20.0%	60	X <sup>2</sup> =6.05 P=0.05*
	> 70 yrs	4	20.0%	16	80.0%	0	0.0%	20	
Sex	Male	24	48.0%	24	48.0%	7	4.0%	55	X <sup>2</sup> =7.34 P=0.02*
	Female	5	20.0%	10	46.7%	10	33.3%	25	
Religion	Hindu	18	33.3%	28	51.9%	8	14.8%	54	X <sup>2</sup> =2.83 P=0.56
	Christian	6	42.9%	4	28.6%	4	28.6%	14	
	Muslim	6	50.0%	6	50.0%			12	
Education	Primary education	8	44.4%	6	33.3%	4	22.2%	18	X <sup>2</sup> =5.98 P=0.65
	Middle school	8	22.2%	20	55.6%	8	22.2%	36	
	High school					0		16	
	Higher secondary	8	50.0%	8	50.0%	0		6	
	Degree	4	66.7%	2	33.3%	0		4	
Previous Occupation	Govt job	4	50.0%	4	50.0%			8	X <sup>2</sup> =5.23 P=0.73
	Private Job	4	25.0%	12	75.0%			16	
Occupation	Business	6	50.0%	4	33.3%	2	16.7%	12	
	Cooly	12	35.3%	14	41.2%	4	23.5%	34	
	Unemployed	4	40.0%	4	40.0%	2	20.0%	10	

Source of income	Pension after retirement	3	60.0%	2	40.0%			10	X <sup>2</sup> =7.78 P=0.45
	Old age pension	7	50.0%	6	42.9%	1	7.1%	28	
	Dependent on old age home	3	20.0%	9	60.0%	1	25.0%	30	
	Savings	1	25.0%	2	50.0%	1	50.0%	12	
	Support from children	1	50.0%						

Demographic variables		Post test level of depression						Total	X <sup>2</sup>
		Normal		Mild		Moderate			
		n	%	n	%	n	%		
Marital status	Married	28	41.2%	30	44.1%	10	14.7%	68	X <sup>2</sup> =1.37 P=0.50
	Widow/Widower	2	16.7%	8	66.7%	2	16.7%	12	
No. of Children	One child	8	30.8%	14	53.8%	4	15.4%	26	X <sup>2</sup> =6.02 P=0.19
	Two children	11	50.0%	18	40.9%	2	9.1%	44	
	Three and above			6	60.0%	2	40.0%	10	
Type of family	Joint family	18	37.5%	24	50.0%	6	12.5%	48	X <sup>2</sup> =0.32 P=0.84
	Nuclear family	12	37.5%	14	43.8%	6	18.8%	32	
Occupation of children	Working in abroad	4	66.7%	2	33.3%			6	X <sup>2</sup> =3.17 P=0.78
	Working in local area								
	Working in other districts	16	38.1%	18	42.9%	4	19.0%	42	
	Working in other states	6	25.0%	14	58.3%	2	16.7%	24	
Mode of entry in old age home	Voluntarily	12	46.2%	6	23.1%	8	30.8%	26	X <sup>2</sup> =6.15 P=0.18
	Family members	16	33.3%	28	58.3%	4	8.3%	48	
	Friends	2	33.3%	4	66.7%			6	
Duration of stay in old age Home	Less than 1 year	4	66.7%			2	33.3%	6	X <sup>2</sup> =6.67 P=0.15
	1- 2 years	20	38.5%	22	42.3%	10	19.2%	26	
	More than 2 years	6	27.3%	16	72.7%	0		22	
Relatives visit time to old age home	Weekly once	8	36.4%	4	100.0%			4	X <sup>2</sup> =5.16P=0.52
	Monthly once	14	36.8%	8	36.4%	6	27.3%	22	
	Three months once	8	50.0%	8	47.4%	6	15.8%	38	
	Six months once	8	50.0%	8	50.0%			16	
Medical illness	Diabetes	2	12.5%	6	37.5%	8	50.0%	16	X <sup>2</sup> =15.09 P=0.01**
	Hypertension	2	16.7%	6	50.0%	4	33.3%	12	
	No	26	50.0%	26	50.0%	0	0.0%	52	
History of taking meicine	Yes	4	14.2%	12	42.9%	12	42.9%	28	X <sup>2</sup> =14.33P=0.01**
	No	26	50.0%	26	50.0%	0	0.0%	52	

\*Significant at 0.05% level

**PART II- Effectiveness Of Laughter Therapy On Depression Among Elderly**

	Mean	Mean Difference	SD	't' value	'P' Value
Pre-Test	8.48	3.33	1.71	11.95	< 0.001
Post-Test	5.15		2.16	TV= 3.55	

**IV. Conclusions**

On the basis of the findings of the study the following conclusion were drawn.

In the pretest majority 16[40%] had mild level of depression, 24[60%] had moderate level of depression. Where as in the post-test 19[47.5%] had mild depression, 15 (37.5%) of them had no depression and 6(15%) had moderate depression.

The mean post- test depression scores 5.15 was significantly lesser than the mean pre- test depression scores 8.48, this difference in mean is a true difference by the intervention laughter therapy and not by chance.

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