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Effect of relaxation therapy on quality of life in postmenopausal woman: An experimental study

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Abstract

Background: Menopause is the time that marks the end of your menstrual cycles. Physiological changes related to menopause are physical symptoms, weight changes, articular and muscular changes, fitness changes, vascular changes, skin changes and psychological aspects. Relaxation is a process that decreases the effects of stress on your mind and body. It also relieves the pathological tension within the muscles. Jacobson's method of relaxation works on the principle of peripheralist mechanism. It leads to activation of parasympathetic nervous system, thus reducing the skeletal muscle tone. This study aims in determining the effect of relaxation therapy on quality of life in post-menopausal woman

Method: The study was conducted on 25 menopausal women between the age group of 48 to 58 years. It was an experimental study in which random sampling was done. Various factors were assessed like hot flushes, night sweats, poor memory, aching in muscles and joints etc. using MENQOL questionnaire. **Results:** This study evaluated 25(n) subjects out of which 17 females (68%) were between the age group of 48 to 52 and 8 females (32%) were between the age group of 53 to 58. The mean value of MENQOL questionnaire pre experiment was 106.76 whereas post experiment was 49.12. Paired t-test was done to compare MENQOL Questionnaire scores which showed p value<0.0001 which is considered extremely significant.

Conclusion: Relaxation therapy was effective in improving the quality of life in post-menopausal

Keywords: Menopause, relaxation therapy, MENQOL questionnaire

1. Introduction

Menopause is the time that marks the end of your menstrual cycles.

Physiological changes related to menopause: physical symptoms, weight changes, articular and muscular changes, fitness changes, vascular changes, skin changes, psychological aspects.

Relaxation

Relaxation is a process that decreases the effects of stress on your mind and body It also relieves the pathological tension within the muscles. Basic conditions needed for general relaxation are: support, comfort and restful atmosphere.

Jacobs on method of relaxation

Jacobson explains relaxation by a popular neurophysiologic explanation of "PERIPHERALIST MECHANISM' The sympathetic and parasympathetic nervous system works reciprocally in that elevated activation of one leads to deactivation of the other.

Sympathetic activation is called ergotropic response whereas parasympathetic activation is called as trophotropic response, which is basis of relaxation.

Reduction in the skeletal muscle tone leads to loss in ergotropic tone of the hypothalamus In other words, muscle relaxation in the periphery results in centrally mediated shift of the bodily system towards a trophotropic response.

MENQOL questionnaire

The Questionnaire consists of 29 components. The scoring of the scale ranges from 0 which is not at all bothered to 6 which is extremely bothered.

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Need of study

Post-menopausal symptoms affect the quality of life in many ways. Relaxation technique leads to significant reduction in hot flash intensity and concurrent psychological symptoms of tension: anxiety and depression. As there is lack of study on this technique there is a need to study.

2. AIM

TO study the effect of relaxation therapy on quality of life in post-menopausal woman.

3. Objectives

TO study the effect of relaxation therapy on quality of life in post-menopausal woman using MENQOL questionnaire after 3 weeks.

4. Hypothesis

Null hypothesis(h0)

There will be no significant effect of relaxation technique on quality of life in post-menopausal women.

Alternate hypothesis(H1):

There will be no significant effect of relaxation technique on quality of life in post-menopausal women.

5. Methodology

- Study design: Experimental study
- Sample Size:50
- Sample Method: Random Sampling
- Study population: Post- Menopausal Women between the age of 48 to 58 years
- Study setting: In and around the residential area.
- Study Duration: 6 MONTHS

6. Criteria

Inclusion criteria

- Women between the age of 48 to 58 years
- Women having menopause since 1 year.
- Women who have filled the consent form
- Graduated women will be included.

o Exclusion criteria

- Above 60 years
- Women who have undergone recent hip, knee, ankle surgeries
- Women who have undergone recent trauma of upper limb and lower limb treated Conservatively
- Cognitively impaired
- Women already practicing relaxation technique
- Females who have undergone hysterectomy.
- Exclude women who are practicing yoga and meditation

7. Tools and materials

- MENQOL questionnaire
- Pen
- Consent form
- Spring mattress
- 2 pillows
- Consent form
- Spring mattress
- 2 pillows

8. Outcome measures MENQOL questionnaire

For each of the fi	The Menopause		3000	and the same	0.500				hlər	n in	the
	If you have, rate h		ich you	have been							
			ì	Not at all sothered	0	1.	2	3 4	1 5	6	Extremely
L HOT FLUSH OR FLASHE	ES S	No.	Yes	-	0	1	2	3	4	5	6
2. NIGHT SWE		O No	Ves	-	0	1	2	3	4	5	6
3. SWEATING		U No	Yes	-	0	1	2.	3	4	5	6
4. BEING DISS WITH MY PI LIFE	ATISFIED ERSONAL	No.	Yes		0	1	2	3	4	5	6
5. FEELING AN OR NERVOL	EXIOUS	D No	Yes	•	0	1	2	3	4	5	6
6. EXPERIENC POOR MEMO	ING ORY	D No	Yes	**	0	1	2	3	4	5	6
7. ACCOMPLIS	HING	D No	Yes	-	0	1	2	3	4	5	6
8. FEELING DE DOWN OR B	PRESSED.	D No	Yes	-7	0	1	2	3	4	5	6
9. BEING IMPA WITH OTHE	TIENT	No.	Yes	-	0	1	2	3	4	5	6
10. FEELINGS O WANTING TO BE ALON	øF	No No	Yes	•	0	1	2	3	4	5	6
II. FLATULENC OR GAS PAI	E (WIND)	D No	Yes	-	0	1	2	3	4	5	6
12. ACHING IN AND JOINT		D No	Yes	+	0	1	2	3	4	5	6
13. FEELING TI WORN OUT		No.	Yes	-	0	1	2	3	4	5	6
14. DIFFICULT	Y SLEEPING	No.	Yes	-	0	1	2	3	4	5	6
15. ACHES IN I NECK OR H	JACK OF EAD	No.	Yes	-	0	1	2	3	4	5	6
	IN PHYSICAL	No.	Yes	-	0	1	2	3	4	5	6
17. DECREASE	IN STAMINA	D No	Yes	•	0	1	2	3	4	5	6
18. FEELING A ENERGY	LACK OF	No.	Yes	-	0	1	2	3	4	5	6
19. DRYING SK	IN	No.	Q Yes	-	0	1	2	3	4	5	6
20. WEIGHT G	AIN	No.	Yes	-•	0	1	2	3	4	5	6
21. INCREASEI HAIR	FACIAL.	O No	Yes	•	0	1	2	3	4	5	6
	N APPEARANCE, OR TONE OF		Yes	•	0	1	2	3	4	5	6
23. FEELING BI	LOATED	No.	Yes	•	0	1	2	-3	4	5	6
24. LOW BACK	ACHE	No.	Yes	•	0	1	2	3	4	5	6
25. FREQUENT	URINATION	No	O Yes	-	0	ì	2	3	4	5	6
26. INVOLUNT. URINATION LAUGHING		No	Yes	-	0	1	2	3	4	5	6
27. CHANGE IN DESIRE	YOUR SEXUAL	No	Yes	•	0	1	2	3	4	5	6
28 VAGINAL I DURING IN	PRYNESS TERCOURSE	No	Yes	-	0	1	2	3	4	5	6
29. AVOIDING	INTIMACY	D No	Yes	-+	0	1	2	3	4	5	6

9. Procedure

- The study will begin with a synopsis presentation in front of the ethical committee
- Ethical clearance will be obtained from the committee
- Subjects will be selected according to the inclusion and exclusion criteria
- The study will be explained to the subjects and a written consent will be taken from them.
- It will be an experimental study in which postmenopausal women between 48 to 58 years of age will be given relaxation technique for 3 weeks.
- Before starting the intervention, they will be
- The intervention o will be of 30 min and 3 times per week.

o Protocol

Post-menopausal women with a score 3 or less will be given relaxation technique for 3 weeks

The intervention will be 3 times per week and of 30 min.

Patient position: supine lying

The patient is positioned in supine lying position and two pillows are placed, one under the head and one under the knees.

Technique

- 5 min of rest will be given at the beginning of the technique.
- Relaxation will be given for 20 min.
- Two types of instructions will be given like" tighten" and" let go"
- During tightening patient has to inhale while during let go patient should exhale.
- During both the instructions patient should hold for 5 to 7 seconds. 5 min of rest will be given at the end of the technique.

Instructions

- The technique will progress from distal to proximal manner
- Two types of instructions were given like" tighten" and" let go"
- During tightening patient has to inhale while during let go patient has to exhale.
- During both the instructions patient should hold the breath for 5 to 7 seconds.



Fig 1: "Clench your hands and contract"



Fig 2: "Clench your wrist and bend from the elbow"

10. Data Analysis

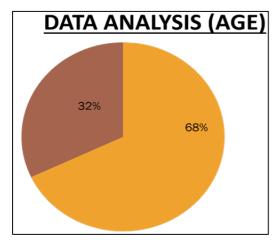


Fig 3: Female Distribution (Age)

Group A -48 to 52 Group B-53 to 58.

• Menopause specific quality of life questionnaire

MENQOL	MEAN	T VALUE	P VALUE	SIGNIFICANCE
PRE	106.76	29.2011	>0.0001	EXTREMELY
POST	49.12			SIGNIFICANT

MENQOL SCORE MEAN

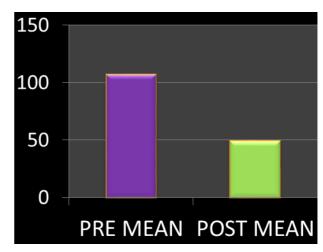


Fig 4: MEAN (PRE and POST)

Results

- This study evaluated 25(n) subjects out of which 17 females (68%) were between the age group of 48 to 52 and 8 females (32%) were between the age group of 53 to 58.
- Paired t-test was done to compare MENQOL Questionnaire scores which showed p value<0.0001 which is considered extremely significant.

11. Discussion

- The objective of current study was to find out whether Relaxation Therapy was effective on Quality of Life in Post-Menopausal woman.
- Total 25 females participated in the study in which 17 females (68%) were between the age group of 48 to 52 and 8 (32%) females were between the age group of 53 to 58
- Relaxation is a parasympathetic response and is a
 protective mechanism against overstress. It is
 characterized by reduced sympathetic nervous, cortical,
 and skeletal muscle activity. Relaxation response is
 hypothalamically mediated and that it is an inborn
 counterbalancing mechanism to the stress response, thus
 improving the quality of life.
- Relaxation response has also been shown to be effective
 in the treatment of many health problems including
 musculoskeletal disorders, gastrointestinal disorders,
 cardiovascular disorders, and others, including
 stabilizing blood sugars in diabetics, reducing nausea
 associated with chemotherapy, reducing the severity of
 arthritis, insomnia, and also reducing hostility and
 anxiety in our study it revealed the same.
- In the present study, total 25 individuals (n=25) participated. The Pre Mean was 106.76 and the Post Mean was 49.12. The p value was >0.0001 which is

- extremely significant. This result showed that Jacobson's method of relaxation technique has significant effect on reducing post-menopausal symptoms and thus improving Quality of Life in Post-menopausal women.
- Progressive muscle relaxation or Jacobson's technique is based on a basic principle of muscle physiology. Whenever a muscle is tensed, releasing the tension invariably creates relaxation in the muscle. Muscle tension is always accompanied by a shortening of muscle fibers and thus by reducing muscle the tension results in reduced central nervous system activity and promotes a relaxed state.
- The basic process of PMR is to focus on any voluntary muscle and in sequence and relax that muscle.
- Tejal C Nalawade in her study suggests that there are potential benefits of Jacobson's Progressive Muscle Relaxation technique on psychological factors and thus improving the Quality of Life. When Progressive Muscle Relaxation is practiced and incorporated to the individual's lifestyle, it can help to neutralize some of the effects of stress reaction by releasing tension in the body. Our study results reveal the same.
- Choi Y K in his study revealed that relaxation technique significantly decreased anxiety and fatigue and increased quality of life in all conditions across. Results also indicated that there was significant difference between pre and post test scores of anxiety, fatigue, and quality of life regardless of condition. Our study results reveal the same.

12. Conclusion

- The study concludes that Jacobson's method of relaxation technique is effective in improving the Quality of Life in Post-Menopausal females.
- Hence, our alternate hypothesis is accepted.

13. Clinical implication

- Progressive muscle relaxation is a practice that is non-invasive, affordable, effective, and easy to apply
- It is affordable and effective.
- It is very easy to apply
- In a very short period of time there was significant improvement in quality of life.
- It is not a time-consuming program; individuals can take out time conveniently even in their busy schedules.

14. Limitation

- Presence of Covid 19 pandemic
- In current study the sample size was small.

15. Future scope

- The same protocol could be implemented in different populations like elderly, school students etc.
- Further research can be carried out by extending the duration of protocol.
- Larger sample size can be taken for future study

16. References

- 1. "What is menopause?". Eunice Kennedy Shriver National Institute of Child Health and Human Development. 28 June 2013. Archived from the original on 19 March 2015. Retrieved 8 March 2015.
- Arunima Chaudhuri, Manjushree Ray1, Daniel Saldanha2, Sajal Kumar Sarkar_ Downloaded free from

- http://www.jscisociety.com on Monday, 27, 2020, IP: 42.106.203.112] _ Effects of progressive muscle relaxation on postmenopausal ^ Jump up to: a b "stress this study concludes that relaxation techniques decrease stress levels and improves autonomic functions.
- 3. The principles of exercise therapy fourth edition m. Dena Gardiner.
- 4. Practical exercise therapy fourth edition margaret-hollis.