# Knowledge and Practice of Women between the Ages of 45-55 and an Information Education Programme on Perimenopause Syndrome at Selected Village

Vijayalakshmi R.<sup>1</sup>, Sindhu Ramalingam<sup>2</sup>, Ajith M.<sup>3</sup>, Divya A.<sup>4</sup>

<sup>1</sup>Saveetha College of Nursing, Saveetha University Chennai, India <sup>2</sup>Department of Obstetrics and Gynecological Nursing, Saveetha College of Nursing. <sup>3</sup>Department of Child Health Nursing, Saveetha College of Nursing. <sup>4</sup>Department of Nutrition, Saveetha College of Nursing Saveetha Institute of Medical and Technical Sciences, Saveetha University Chennai, India

### Abstract

Menopausal syndrome is characterized by a period of physiological changes, which is marked by the menopause transition. The purpose of this study is to assess the knowledge and practice of women between the ages of 45 and 55. Sixty women, who ranged in age from 40 to 45, participated in the quantitative study, which was carried out in Mappedu village. The primary conclusions of the research showed that 63.3% of women had insufficient knowledge, 36.7% had intermediate knowledge, and 0% had adequate knowledge. The study participants' overall pre-test knowledge percentage score was 49.7%, with a mean score of 14.9 and a standard deviation of 2.96. The post-test results showed that approximately 6.7% of the women had an inadequate level of knowledge, 66.6% had a moderate level, and 26.7% had an adequate level. Women in the 45-55 age range had significantly improved knowledge after participating in a structured instructional module on the detection and prevention of premenopausal syndrome. It offers community health nurses a wealth of knowledge and inspires them to plan health awareness campaigns.

Keywords: Education, Perimenopause, Women's Health.

## Introduction

The final years of a woman's reproductive life are surrounded by an ill-defined period known as the perimenopause. The final menstrual period (FMP) is defined as starting with the first indication of monthly irregularity and ending after one year of amenorrhea [1, 2]. As women reach reproductive senescence, a period of physiological changes is marked by the menopausal transition. The transition is clinically important for many women, as evidence suggests. It is a time of short-term changes in health and quality of life (e.g., vasomotor symptoms, depression, sleep disturbances), as well as longer-term changes in

a number of health outcomes (e.g., urogenital symptoms, bone, lipids) that may affect women's quality of life and chances of healthy aging [3, 4]. The menopausal transition, also known as the perimenopause, is the time leading up to a woman's final menstrual period (FMP), marked by physiological changes [5, 6]. This stage lasts from the start of irregular menstruation until a woman enters menopause, which happens a year following amenorrhea [7-9]. Most women have hot flashes, which are a classic menopausal symptom that affects roughly one-third of them moderately to severely [10]. Hot flashes affect most women for a year or two at most, but others endure for ten years or longer, and a small percentage of

women never fully recover from them. In addition to being linked to the menopausal transition, perimenopausal women get poorer sleep as they age [11]. As women approach the later phases of the menopausal transition and have extended periods of amenorrhea, the prevalence of depressive mood and heightened anxiety also rises during this time [12, 13]. The intensity, experience, and dynamics of menopausal symptoms provide a very complex set of issues. Research has indicated that these symptoms differ amongst people based on a variety of characteristics, including geographic location, ethnicity, and menopausal stage [14]. The Menopause Rating Scale (MRS) is a useful instrument for determining how severe these symptoms are [15, 16].

### Methodology

The thirty women, who ranged in age from 45 to 55, participated in the quantitative study, which was carried out in Mappedu village. The sample strategy employed was convenience sampling [17]. The individuals who took part in the study ranged in age from 45 to 55. The study did not include patients with mental health issues or those who were not available at the time the data was gathered [18]. The survey instrument was intended to self-organize in order to collect the demographic and clinical data. Participants who were between the ages of forty and forty-five had their preliminary training and knowledge assessed. The participants received an explanation of the

study's objectives, methods, benefits, and dangers [19]. They were also given the choice to discontinue participation at any time without facing any consequences. SPSS was used to examine the data 16 using the mean standard deviation and descriptive statistics [20].

### Results

## **Description of Demographic Variables of the Study Participants**

The age group of 54–55 years old comprises 36.6% of the study population. Indians made about 70% of the study's participants. There are 26.7% of the subjects who have finished their Higher Secondary schooling. Home Makers accounted for 66.7% of the respondents. A family's monthly income ranged from RS. 10001 to RS. 20000 for 46.7% of research participants. In the 9-11 age range, 56.7% of the participants reached menarche. The menstrual cycle was regular for 73.3% of the individuals. Married individuals made up 63.3% of the group [Table 1]. A joint family accounted for 60% of the respondents. One child was owned by 33.3% of the participants. Ordinary vaginal birth accounts for 56.7% of research participants. A healthcare practitioner previously provided this information to 40% of the study participants.

## Description of Post-Test Knowledge Level about Identification and Prevention of Premenopausal Syndrome

Level of knowledge	Post test					
	Max. score	Range	Mean	SD	Mean%	
Knowledge on Premenopausal	5	5-1	3.1	1.27	62.0	
Physiological symptoms of premenopausal	9	9-2	5.67	2.02	63.0	
Psychological symptoms of premenopausal	7	7-2	4.96	1.22	70.9	
Prevention of premenopausal symptoms	9	9-4	6.37	1.37	70.8	
OVERALL	30	27-12	20.1	3.61	67.0	

Table 1. Overall wise Mean, SD and Mean % in Knowledge Post-Test 55 Years

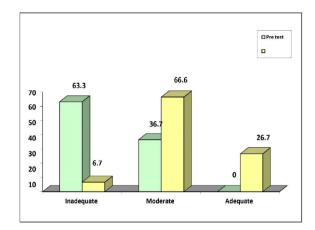


Figure 1. Overall wise Mean, SD and Mean % in Knowledge Post-test 55 Years

## Description of Posttest Practice Level About Identification and Prevention of Premenopausal Syndrome

Level of	Post test						
practice	Max.score	Range	Mean	SD	Mean%		
Overall	10	9-6	7.2	1.09	72		

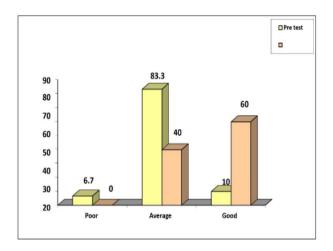


Figure 2. Overall wise Mean, SD and Mean % in Practice Post-Test

Table 3. Overall wise Mean, SD and Mean% between Practice Pre and Post-Test

		Pre test						Difference in
practice s	score	Mean	SD	Mean%	Mean	SD	Mean%	mean %
Overall	10	5.13	1.47	51	7.2	1.09	72	21

	Pre test		Post test		
	"r" value	p-value	"r" value	p-value	
Knowledge -practice	-0.091	0.631(NS)	0.726	P<0.001***(HS)	

**Table 4.** Correlation among Selected Knowledge and Practice

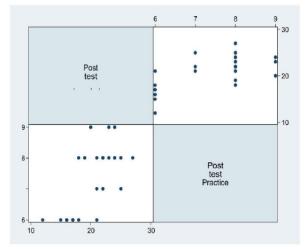


Figure 3. Correlation among Selected Knowledge and Practice.

### Discussion

The primary conclusions of the research showed that 63.3% of women had insufficient knowledge, 36.7% had intermediate knowledge, and 0% had adequate knowledge. The studv participants' overall pre-test knowledge percentage score was 49.7%, with a mean score of 14.9 and a standard deviation of 2.96 [Table 2]. The mean score for the pre-test practice was 5.13, with a standard deviation of 1.47, and an overall score of 51%. Following implementation of the Structured the Instructional Module, the post-test results showed that approximately 6.7% of the women had an inadequate level of knowledge, 66.6% had a moderate level of knowledge, and 26.7% had an adequate level of knowledge [15]. The study participants' overall post-test percentage of knowledge score is 67.0%. Overall pre-test mean value was 14.9, with a standard deviation of 2.96, and post-test mean value was 20.1, with a standard deviation of 3.61. The mean of the enhanced knowledge score was 17.3%. The mean score was 7.2 with a standard deviation of 1.09, and the overall post-test practice percentage score was 72%. The mean value of the improved practice score was 21% [Table 3]. The student's overall knowledge score on the paired "t" exam was 9.88. Both values are extremely highly significant at P < 0.001, with the practice score being 7.09. Chi-square analysis revealed a correlation between sources of information and understanding of the females. There is a noteworthy correlation between the age at menarche and the practices of women in the 45–55 age range [Table 4]. The remaining sociodemographic factors-such as age, marital status, religion, education, occupation, family type, monthly income, regularity of menstruation, number of children, occupation-have no discernible and relationship to women's knowledge of the premenopausal syndrome [16]. The selected knowledge and practice have a highly

significant correlation (p-value of P < 0.001) [18].

### Conclusion

The results of the study showed that women between the ages of 45 and 55 had significantly improved knowledge after participating in a structured instructional module on the detection and prevention of premenopausal syndrome [19]. It offers community health nurses a wealth of knowledge, inspires them to plan health awareness campaigns, and helps to enhance premenopausal women's quality of life [20].

### References

[1]. Aljunaid, M. A., Alruwaili, L. N., Alhajuj, H. Y., Musslem, M. T., & Jamal, H. H., 2024, March. Knowledge, Awareness, Attitudes and Practices toward Perimenopausal Symptoms among Saudi Females. In *Healthcare*, 12 (6), p. 677, MDPI.

[2]. Logapriya, E., Surendran, R., Soniya, M., & Kumar, P. S., 2024, September. Personalized Shatavari Nutrition Recommendations for Menopausal Women using Machine Learning Algorithms. In 2024 5th International Conference on Smart Electronics and Communication (ICOSEC), pp. 1342-1349, IEEE.

[3]. Kumar, M. A., & Shweta, N., 2024. Effect of Video Modeling with Simulation on Improving Menstrual Hygiene Skills for Adolescents with Autism Spectrum Disorder. *Cureus*, *16*(6), e62847.
[4]. Yadav, V., Jain, A., Dabar, D., Goel, A. D.,

Sood, A., Joshi, A., & Nandeshwar, S., 2021. A meta-analysis on the prevalence of depression in perimenopausal and postmenopausal women in India. *Asian Journal of Psychiatry*, *57*, 102581.

[5]. Shi, X., Shi, Y., Wang, J., Wang, H., & Li, Y., 2024. Knowledge, Attitude, And Practice Toward Sleep Disorders and Sleep Hygiene Among Perimenopausal Women. *Scientific Reports*, *14*(1), 11663.

[6]. Mohamed, N. S., Elsayed, N. M., & Mohamed,
H. A., 2024. Preventive Health Behavior and
Osteoporosis Prediction among Perimenopausal
Women. *Tanta Scientific Nursing Journal*, 32(1),

### **Conflict of Interest**

There is no conflict of interest.

#### Acknowledgement

I would like to express my deepest gratitude to Dr Deepak, Director of SIMATS. For giving this great opportunity to conduct a study at his esteemed institution, and I would like thank Management of SIMATS, Chennai for rendering continuous support, and I extend my sincere thanks to Dr Vijayalakshmi R, Principal Saveetha College of Nursing, SIMATS, Chennai.

#### 42-66.

[7]. Simbar, M., Nazarpour, S., KhodaKarami, N., Nasiri, Z., Rashidi Fakari, F., Kiani, Z., & Alavi Majd, H., 2023. A situation analysis on postmenopausal women's self-care needs and priorities in Tehran: A population-based study. *BMC Public Health*, *23*(1), 104.

[8]. Abdelmola, A. O., Mesawa, R. M., Ageeli, R.
F., Khawaji, O. A., Ageeli, H. M., Alabood, Z. M.,
& Abdelwahab, S. I., 2024. Determinants of Knowledge and Perception About Menopause among Saudi Women: A Cross-Sectional Study. *Heliyon*, 10(12).

[9]. Mazloomy Mahmoodabad, S. S., Farhoud, F., & Kebriaei, A., 2024. A Survey of Awareness and Attitudes of Men Aged Over 40 Years about Andropause. *Journal of Social Behavior and Community Health*, 8(2), 1432-1439.

[10]. McFeeters, C., Pedlow, K., McGinn, D., & McConnell, K., 2024. A Rapid Review of Menopausal Education Programmes. *Archives of Women's Mental Health*, 1-9.

[11]. Carvalho, A. O. D., Andrade, L. B. D., Ruano,F. F. L., Wigg, C. M. D., & Marinheiro, L. P. F.,2024. Knowledge, Practices and Barriers to AccessSexual Health of Women in the Menopausal Stages:

A Cross-Sectional Study with Brazilian Gynecologists. *BMC Women's Health*, 24(1), 52.

[12]. Panay, N., Ang, S. B., Cheshire, R., Goldstein,S. R., Maki, P., Nappi, R. E., & International Menopause Society Board., 2024. Menopause and MHT in 2024: Addressing the Key Controversies– An International Menopause Society White Paper. *South African General Practitioner*, *5*(3), 119-134.

[13]. Gamare, M. P., & Sanadi, M. Z. A. A., Comparative Study to Assess the Level of Knowledge Regarding Management of Perimenopausal Symptoms among Working and Non-Working Women in Selected District of Maharashtra, With View to Develop an Information Booklet.

[14]. Lee, H., & Kim, J., 2024. Core contents for a menopausal health literacy intervention for South Korean middle-aged women: An e-Delphi study. *BMC Nursing*, 23(1), 509.

[15]. Paluchamy, T., Steni, D. S., & Stephen, S., 2024. Effect of green tea mouthwash on chemotherapy induced oral mucositis in cancer patients. Journal of Chemical Health Risks, 14(1). https://doi.org/10.60829/jchr.2024.1103158

[16]. Deepika, D., Rajavarshini, & Madaswamy, R.,
2024. Effectiveness of Camphor Oil Application on
Reduction of Joint Pain among Post-Menopausal
Women at Selected Rural Areas. Texila
International Journal of Public Health, Summer

Special Edition. Advance online publication. 2024, August 27,

https://doi.org/10.21522/TIJPH.2013.SE.24.02.Art 012

[17]. Thenmozhi, P., Dineshkumar, P., Bhuvaneswari, G., Mary Minolin, T., & Tamilselvi, S., 2025. Thoracic squeezing on airway secretion and respiratory parameters in mechanically ventilated patients: An interventional study. Journal of Education and Health Promotion, 14(1), 69. https://doi.org/10.4103/jehp.jehp\_695\_24

[18]. Luo, H., Bian, H., Liu, Z., Sun, C., Li, H., Ma, L., ... & Lai, W., 2025. Evaluation of patient benefits from the superficial circumflex iliac artery perforator flap in elderly patients. Bioengineering, 12(4), 394.

[19]. Aljohani, A., 2025. AI-Driven decisionmaking for personalized elderly care: a fuzzy MCDM-based framework for enhancing treatment recommendations. BMC Medical Informatics and Decision Making, 25(1), 1-16.

[20]. Berridge, C., & Wetle, T. F., 2020. Why older adults may be reluctant to adopt telehealth technology. Journal of the American Geriatrics Society, 68(7), 1405–1408. https://doi.org/10.1111/jgs.16555