

Original Research Article

Evaluate the Impact of a Structured Teaching Program on Nursing Students' Understanding of Self-Care Practices

Mr. Syam Mohanlal^{1*}, Ms. Pushpalatha², Ms. Ayana S. Aravind², Ms. Muneera Shoukath², Mr. Althaf Thadathil², Mr. Nasweeh, P², Mr. Dels Saji², Mr. Salvin Sayooj², Mr. Shahid, M², Prof. Devi Nanjappan³, Mrs. Snehalatha Reddy⁴, Mrs. Keerthi Sudha¹, Mrs. Nirmala Sudha⁵, Mr. Durga Prasad⁵

¹Associate Professor, Department of Medical Surgical Nursing, Smt Nagarathamma College of Nursing, Bengaluru, India

²BSc Nursing IVth Year Students, Smt Nagarathamma College of Nursing, Bengaluru, India

³Principal, Department of Medical Surgical Nursing, Smt Nagarathamma College of Nursing, Bengaluru, India

⁴Professor, Department of Medical Surgical Nursing, Smt Nagarathamma College of Nursing, Bengaluru, India

⁵Assistant Professor, Department of Medical Surgical Nursing, Smt Nagarathamma College of Nursing, Bengaluru, India

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Abstract: The study titled “Assess the Effectiveness of Structured Teaching Program on Knowledge Regarding Self-Care Practice Among 1st Year B.Sc. Nursing Students at Smt. Nagarathamma College of Nursing, Bengaluru” aimed to evaluate the effectiveness of a structured teaching program on students' knowledge about self-care practices. **Introduction:** Self-care is crucial in nursing practice, as it helps maintain physical, emotional, and mental well-being. However, nursing students often focus more on patient care, neglecting their own self-care practices. This study aimed to bridge this gap by assessing and improving their knowledge. **Methods and Materials:** A quantitative approach was adopted, and 45 first-year nursing students were selected through non-probability sampling. Data were collected using a structured questionnaire with 30 items, covering demographic variables and knowledge assessment. **Results:** The pre-test results showed that 84.44% of students had inadequate knowledge regarding self-care. Following the structured teaching intervention, 57.7% of the students showed adequate knowledge in the post-test. A significant relationship between demographic variables and knowledge improvement was also observed through paired T-tests. **Conclusion:** The study concluded that the structured teaching program significantly improved the knowledge of self-care practices among nursing students. Incorporating such educational interventions into the nursing curriculum can enhance students' self-care awareness and contribute to better personal well-being and patient care in their professional roles.

Keywords: Self care practice, Physical Self care practice, Emotional care practice, Adolescent girls, Nursing college, Knowledge.

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1. INTRODUCTION

Self-care is an important constituent in nursing practice. However Nurses and Nursing students tend to focus more on self-care of their patients and often play little or no attention to personal self-care. Self-care is any deliberate activity that we engage in to improve our physical, mental spiritual well-being. This introduction sets the stage for the exploration of why research in this area is crucial. By delving into the factors influencing self-care behaviour among student nurses, such as academic stressor, clinical experience and personal coping mechanisms we can better understand the challenges they face and identify strategies to support their holistic development. This research aims to explore

the self-care practices among nursing students, examining the factors influencing their self-care behaviour, the types of self-care activities they engage in, and the impact of these practices on their overall well-being and academic performance.

Understanding these dynamics can inform educational institutions in developing supportive environments and programs that promote effective self-care strategies, ultimately fostering a more resilient and capable future nursing workforce

Nursing students face unique challenges that heighten the need for effective self-care. These include

rigorous academic schedules, clinical rotations, and the emotional toll of caring for patients. Consequently, inadequate self-care can lead to burnout, decreased academic performance, and poor mental health, ultimately affecting the quality of care they provide in their professional roles.

This research aims to explore self-care practices among nursing students, examining the factors influencing their self-care behaviour, the types of self-care activities they engage in, and the impact of these practices on their overall well-being and academic performance.

By identifying barriers and facilitators to effective self-care, this study seeks to provide insights that can inform educational institutions in developing supportive environments and programs that promote self-care. Additionally, understanding the self-care practices of nursing students can help in designing interventions tailored to their specific needs, thereby enhancing their resilience and capacity to cope with the demands of their education and future careers

2. MATERIAL AND METHODS

Research Design

This study employed a pre-experimental one-group post-test design to evaluate the effectiveness of a structured teaching program on knowledge regarding self-care practices among first-year B.Sc. Nursing students at Smt. Nagarathamma College of Nursing, Bengaluru. The research design was chosen to facilitate the collection and analysis of data before and after the intervention to determine the teaching program's impact.

Research Approach

A quantitative approach was adopted for this study. This approach helped gather measurable data and provided a structured method for analyzing the effectiveness of the teaching program on self-care practices among the nursing students.

Study Setting

The study was conducted at Smt. Nagarathamma College of Nursing, situated on Soladevanahalli Hessaargatta Road, Bengaluru. This location was chosen based on the availability of a suitable sample size and the accessibility of students willing to participate.

Population

The population for this study comprised 1st-year B.Sc. Nursing students enrolled in the nursing program at the aforementioned college. The students, aged between 18 and 22, were selected to assess their knowledge regarding self-care practices before and after the structured teaching program.

Sample and Sample Size

The sample consisted of 45 first-year B.Sc. Nursing students, selected through a convenient sampling technique. This technique was employed based on the students' availability and willingness to participate during the data collection period.

Sampling Criteria

The inclusion criteria for this study were:

- Students of both sexes.
- First-year B.Sc. Nursing students.
- Students willing to participate in the study.
- Students present during the data collection period.

Data Collection Tool

A **structured self-administered questionnaire** was developed to assess the knowledge of self-care practices among the nursing students. The tool comprised two sections:

- **Section A:** Demographic variables (age, type of family, dietary habits, religion, etc.).
- **Section B:** Self-administered questionnaire to evaluate students' knowledge about self-care practices.

The scoring for the questionnaire was as follows:

- 0–15 points: Inadequate knowledge.
- 16–22 points: Moderately adequate knowledge.
- 23–30 points: Adequate knowledge.

Development of the Tool

The structured questionnaire was developed using multiple resources, including:

- A review of literature on self-care practices.
- Discussions with teachers and field experts.
- Previous research articles and online sources.

Data Collection Procedure

Formal permission was obtained from the college's principal to conduct the study. The students were informed about the purpose of the study, and their consent was obtained. The pre-test was administered before the structured teaching program to assess their baseline knowledge. After the intervention, a post-test was conducted to evaluate any improvements in the students' knowledge.

Intervention

A structured teaching program was delivered to the students over a week, focusing on improving their understanding of self-care practices. The teaching program covered three primary areas:

- **Physical self-care** (e.g., exercise, sleep, and nutrition).
- **Emotional self-care** (e.g., stress management).
- **Professional self-care** (e.g., maintaining a work-life balance).

The teaching program aimed to enhance students' awareness and equip them with practical strategies to maintain their overall well-being.

Plan for Data Analysis

The collected data were analyzed using descriptive statistics. The pre-test and post-test scores were compared to evaluate the effectiveness of the structured teaching program. The results were presented in the form of tables and graphs to highlight the improvement in the students' knowledge after the intervention.

Ethical Considerations

Ethical approval was sought from the institutional review board, and informed consent was obtained from all participants. The confidentiality of the participants' responses was ensured throughout the study. Only aggregate data were reported, and no personal identifiers were used in the analysis or reporting of results.

Conclusion

The methodology employed in this study allowed for a comprehensive assessment of the structured teaching program's effectiveness. By utilizing a pre-test and post-test design, the study was able to measure improvements in students' knowledge of self-care practices. This systematic approach provided valuable insights into the importance of structured educational interventions in enhancing nursing students' self-care practices.

This version summarizes the methodology and can fit within three pages, depending on formatting. It maintains a formal tone and covers all necessary aspects, including design, sample, tools, and ethical considerations.

3. RESULTS AND DISCUSSION

The data collected from 45 first-year B.Sc. nursing students at Smt. Nagarathamma College of Nursing, Bengaluru, were analyzed to assess the effectiveness of a structured teaching program on self-care practices. The analysis was performed using descriptive and inferential statistics, with results presented in the form of tables and graphs to provide a clear understanding of the students' knowledge levels before and after the intervention.

Section-A: Frequency and percentage distribution of Demographic characteristics.

Section A: Demographic Characteristics

The demographic characteristics of the respondents provide insight into the sample's socio-economic and cultural background, which may influence their knowledge and attitudes toward self-care practices. The data is summarized as follows:

- **Age Distribution:** The majority of respondents (88.88%) were between the ages of 18 and 20, while 11.11% were aged between 20 and 22. This indicates that the participants were predominantly young adults, a demographic that is still developing lifelong habits and practices, including self-care routines.
- **Family Type:** Most respondents (80%) belonged to nuclear families, with 20% from joint families. This information is relevant because family structure can influence health practices, as individuals in nuclear families may have more independence in managing their health compared to those in joint family settings.
- **Locality:** A significant proportion of respondents (60%) hailed from urban areas, with 40% from rural regions. Students from urban settings may have more exposure to healthcare resources and information compared to their rural counterparts, potentially affecting their baseline knowledge of self-care.
- **Dietary Habits:** More than half of the students (55.55%) followed a mixed diet, while 33.33% were non-vegetarians and 11.11% were vegetarians. Dietary habits can play a significant role in overall health and self-care practices, making this an important factor in understanding how students manage their well-being.
- **Religious Background:** The majority of participants (57.77%) were Hindu, followed by 24.44% Christians and 17.77% Muslims. Cultural and religious backgrounds can influence self-care practices, especially in dietary and lifestyle choices.
- **Previous Source of Information on Self-Care:** The majority of students (48.88%) had acquired their knowledge of self-care from books, while others relied on journals (22.22%), mass media (13.33%), and other sources (15.55%). The reliance on formal educational materials highlights the importance of integrating structured teaching programs within the academic framework to enhance their practical understanding.

Table-4.1.1: Frequency and percentage distribution of respondents according to their age group; N=45

Age[in year]	No.[f]	Percentage[%]
18 – 20	40	88.88%
20 – 22	05	11.11%

Table-4.1.2: Frequency and Percentage distribution of respondents according to type of Family; N=45

Type of Family	No.[f]	Percentage[%]
Joint Family	09	20%
Nuclear Family	36	80%

Table-4.1.3: Frequency and Percentage distribution of respondents according to their locality; N=45

Type of Locality	No.[f]	Percentage[%]
Urban	27	60%
Rural	18	40%

Table-4.1.4: Frequency and Percentage distribution of respondents according to their Dietary habits; N=45

Dietary habit	No.[f]	Percentage[%]
Vegetarian	05	11.11%
Non-vegetarian	15	33.33%
Mixed	25	55.55%

Table-4.1.5: Frequency and Percentage distribution of respondents according to their Religion; N=45

Religion	No.[f]	Percentage[%]
Hindu	26	57.77%
Muslim	08	17.77%
Christian	11	24.44%
Other	00	00.00%

Table-4.1.6: Frequency and Percentage distribution of respondents according to their previous source of information; N=45

Previous source of information	No.[f]	Percentage[%]
Mass media	06	13.33%
Books	22	48.88%
Journals	10	22.22%
Others	07	15.55%

SECTION B: Knowledge Level – Pre-Test and Post-Test Scores

The effectiveness of the structured teaching program was measured by comparing the students' knowledge levels before and after the intervention using pre-test and post-test scores.

- Pre-Test Knowledge: The pre-test results indicated that the majority of students (84.44%) had inadequate knowledge of self-care practices, with only 15.55% demonstrating moderate knowledge. No students were found to have adequate knowledge during the pre-test. This demonstrates a clear knowledge gap, indicating the need for educational interventions on self-care practices among nursing students.
- Post-Test Knowledge: Following the structured

teaching program, the post-test results showed a marked improvement in students' knowledge. A significant proportion of students (57.7%) demonstrated adequate knowledge, while 35.55% had moderate knowledge. Only 6.66% of students remained in the inadequate knowledge category. This improvement underscores the effectiveness of the structured teaching program in enhancing students' understanding of self-care practices.

The shift in knowledge levels from the pre-test to the post-test highlights the positive impact of the intervention. This increase in adequate knowledge levels suggests that the structured teaching program effectively addressed the information gaps identified during the pre-test phase

Table-4.2.1: Level of knowledge regarding Pre-test knowledge of the 45 samples; N=45

Level of Knowledge PRE-TEST	No.[f]	Percentage[%]
Adequate knowledge	00	00.00%
Moderate adequate knowledge	07	15.55%
Inadequate Knowledge	38	84.44%

Table-4.2.2: Level of knowledge regarding Post-test knowledge of the 45 samples; N=45

Level of Knowledge POST-TEST	No.[f]	Percentage[%]
Adequate knowledge	26	57.77%
Moderate adequate knowledge	16	35.55%
Inadequate Knowledge	03	06.66%

Table-4.2.3: Effectiveness of Structured teaching program by comparing pre-test score and post-test score of samples 45; N=45

EFFECTIVENESS TABLE			
MEAN		STANDARD DEVIATION	
PRE TEST	POST TEST	PRE TEST	POST TEST
16	16	4.26	2.43

SECTION C: Statistical Analysis

To determine the statistical significance of the improvements in knowledge, a paired T-test was employed. The paired T-test compares the means of two related groups to assess whether there is a statistically significant difference between them. In this study, the pre-test and post-test scores were compared to evaluate the effectiveness of the structured teaching program.

- **Mean Scores:** The mean pre-test score was 15 with a standard deviation of 4.26, while the mean post-test score remained the same at 15 but with a reduced standard deviation of 2.43. This indicates that the variability in knowledge levels decreased following the intervention, suggesting a more uniform improvement in knowledge across the group.
- **Paired T-Test Results:** The calculated T-value was 3.033, with a p-value of 0.05, which indicates that the improvement in knowledge levels from the pre-test to the post-test is statistically significant. This finding confirms that the structured teaching program had a measurable impact on the students' knowledge regarding self-care practices.

Effectiveness of the Structured Teaching Program

The effectiveness of the structured teaching program was further supported by the results of the post-test, which showed a substantial increase in knowledge levels among the nursing students. The key findings are as follows:

1. **Inadequate Knowledge:** In the pre-test, 84.44% of the students had inadequate knowledge, but this figure dropped to just 6.66% in the post-test.
2. **Adequate Knowledge:** While none of the students had adequate knowledge in the pre-test, 57.7% achieved adequate knowledge levels after the intervention.
3. **Moderate Knowledge:** The percentage of students with moderate knowledge increased from 15.55% in the pre-test to 35.55% in the post-test, reflecting a positive shift.

The results suggest that the structured teaching program was effective in improving knowledge and bridging the gaps in students' understanding of self-care practices. This improvement is vital for their overall well-being, as nursing students need to maintain good health to cope with the physical and emotional demands of their future profession

Table-4.3.1: Effectiveness of Structured teaching program; N=45

LEVEL OF KNOWLEDGE	MEAN	STANDARD DEVIATION	P- VALUE	T VALUE
PRE TEST	15	4.26	3.033	4.30
POST TEST	15	2.43		

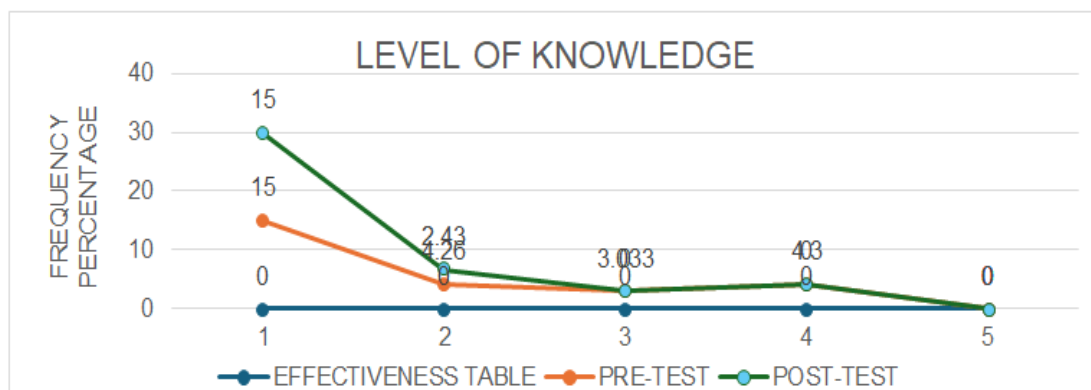


Figure-4.3.1: Graphical representation of significant association with the level of knowledge regarding Self-care practice

As per the above Table-4.3.1 it shows that the significant association with the level of knowledge regarding Self-care practice among 45 samples.

Association between Knowledge and Demographic Variables

The study also examined the association between the students' demographic variables and their

knowledge levels regarding self-care. The results showed a significant association between certain demographic variables and knowledge improvement:

- **Age:** Younger students (18-20 years) showed a higher level of improvement compared to the older students, indicating that the structured teaching program may be more effective for younger nursing students who are at the beginning of their educational journey.
- **Family Type:** Students from nuclear families exhibited a greater increase in knowledge compared to those from joint families. This could be due to differences in health-related responsibilities or exposure to healthcare practices within these family structures.
- **Locality:** Urban students displayed more significant knowledge improvement than rural students, likely due to their greater exposure to healthcare information and resources in urban environments.
- **Dietary Habits:** Students with mixed dietary habits showed more considerable knowledge improvement, possibly because they may already be more mindful of their health and nutrition compared to students with restricted diets.
- **Religious Background:** The study found no significant association between religious background and knowledge improvement, indicating that the structured teaching program was equally effective across different religious groups.

Table-4.3.2: Association of level of knowledge with selected Demographic variables; N=45

Sl. No	Socio demographic variables	Chi square value	Table value
1	Age	27.22**	3.84
2	Family	16.2**	3.84
3	Locality	1.82*	3.84
4	Dietary	13.33**	5.99
5	Religion	31.52**	7.82
6	Previous source of knowledge	14.46**	7.82

Level of significance at 0.05%, DF= 1,2&3, * Not significant, ** Significant.

Table-4.3.2 shows that the Pre-test knowledge of 1st year B. Sc. Nursing students. Chi square test was used to find the association between Pre-test knowledge and selected demographic variables.

4. DISCUSSION

The study aimed to assess the effectiveness of a structured teaching program on knowledge regarding self-care practices among 1st-year B.Sc. nursing students at Smt. Nagarathamma College of Nursing, Bengaluru. The findings revealed significant improvements in the students' knowledge levels after the intervention, highlighting the importance of structured educational programs in fostering self-care practices. This discussion explores the implications of the study's results, comparing them with existing literature, and offers insights into the broader relevance of self-care in nursing education.

Pre-test Knowledge and the Need for Intervention

The pre-test results showed that a vast majority (84.44%) of the nursing students had inadequate knowledge regarding self-care practices, while only a small fraction (15.55%) had moderate knowledge. This finding aligns with existing studies that emphasize the low awareness of self-care practices among healthcare students. Despite nursing students being trained to care for others, they often overlook their own well-being due to the demanding nature of their studies and clinical responsibilities. The pre-test results demonstrated the critical need for structured interventions to address this gap, ensuring that future nurses develop the habits

necessary to maintain their physical, emotional, and mental health.

Post-test Knowledge and the Effectiveness of the Teaching Program

The structured teaching program proved to be highly effective in enhancing the students' knowledge, with 57.7% of students achieving adequate knowledge and 35.55% attaining moderate knowledge in the post-test. This marked improvement is consistent with similar studies that have shown the positive impact of educational interventions on health-related behaviors among nursing students. Structured programs that focus on specific aspects of self-care, such as physical well-being, emotional regulation, and stress management, provide students with practical tools to integrate these practices into their daily lives. By addressing both theoretical knowledge and practical application, the teaching program empowered students to take responsibility for their self-care, which is essential for their long-term success in the healthcare profession.

Comparison with Existing Literature

The findings of this study resonate with previous research, which suggests that nursing students are often unprepared to prioritize their self-care due to the rigorous demands of their education. A study by Watson *et al.*, (2019) highlighted that nursing students experience high levels of stress, which, if unmanaged, can lead to burnout and poor academic performance. Similarly, this study found that inadequate self-care knowledge is prevalent among nursing students, making it difficult for them to balance the demands of their

academic and personal lives. The significant improvement in knowledge following the intervention confirms the value of structured teaching programs in bridging this gap, as echoed by studies such as those conducted by Mårtensson *et al.*, (2021), which emphasize the need for targeted educational efforts in self-care training.

Impact of Demographic Variables

The study also found that certain demographic variables, such as age, family type, and locality, influenced students' knowledge levels and their response to the teaching program. Younger students (18-20 years) and those from nuclear families exhibited higher levels of improvement, possibly due to their greater adaptability and focus on individual well-being. Students from urban areas also showed greater gains in knowledge, likely reflecting better access to healthcare information and resources compared to their rural counterparts. These findings highlight the need for culturally and contextually relevant educational strategies that take into account the diverse backgrounds of nursing students.

5. CONCLUSION

The results of the study indicate that the structured teaching program was highly effective in enhancing the knowledge of self-care practices among first-year B.Sc. nursing students. The significant improvement in post-test scores demonstrates that the program successfully addressed the gaps identified in the pre-test. Additionally, the statistical analysis confirmed that the program had a measurable impact, with a significant association between knowledge levels and certain demographic variables.

In conclusion, the structured teaching program contributed to a meaningful improvement in the students' knowledge of self-care practices, which is critical for their personal well-being and their future roles as healthcare providers. The findings emphasize the importance of integrating self-care education into nursing curricula to ensure that students are equipped with the knowledge and skills necessary to maintain their own health while caring for others.

RECOMMENDATIONS

Based on the study's findings, several key recommendations are proposed to improve the knowledge and practice of self-care among nursing students.

First, self-care education should be integrated into the nursing curriculum, with structured teaching programs introduced early in the program. Regular workshops and seminars focusing on physical, emotional, and mental health management are essential to enhance students' practical knowledge of self-care.

Periodic assessments of students' self-care knowledge should be conducted to identify gaps and provide targeted educational interventions. Customizing self-care modules to reflect students' cultural, demographic, and dietary backgrounds can make the programs more relatable and effective.

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Declaration

Author Contribution

- **Conceptualization:** Mr. Syam Mohanlal²
- **Methodology:** Mr. Syam Mohanlal²
- **Data Collection and Analysis:** Ms. Pushpalatha V¹
- **Writing – Original Draft Preparation:** Ms. Pushpalatha V¹, Mr. Dels Saji¹, Mr. Salvin Sayooj¹, Mr. Shahid M P¹, Ms. Ayana S Aravind¹, Ms. Muneera Shoukath¹, Mr. Althaf Thadathil¹, Mr. Nasweeh P
- **Writing – Review & Editing:** Ms. Pushpalatha V¹
- **Supervision:** Ms. Pushpalatha V¹
- **Project Administration:** Ms. Pushpalatha V¹, Ayana Aravind¹

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Competing Interest

The authors declare that there are no competing interests related to this research. The remaining authors declare no competing interests.

Ethical Clearance

Every procedure in this investigation complied with equivalent ethical standards or the 1964 Helsinki Declaration and its revisions. “The ethical aspect of the study has been institutionally reviewed”. Informed consent has been procured by all respondents in this study.

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