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"A Study To Assess The Effectiveness Of Structured Teaching Program On Knowledge Regarding Menstruation Among Adolescent Boys In A Selected High School, Muvattupuzha."

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ABSTRACT

The present study was aimed at assessing the effectiveness of structured teaching programme on knowledge regarding menstruation among adolescent boys of selected high school, Muvattupuzha. The objectives of the study were to find out the effectiveness of structured teaching programme on knowledge regarding menstruation among adolescent boys, determine the association between knowledge regarding menstruation and selected demographic variables. The conceptual framework applied for the study is Bertalanffy's general system theory. A pre-experimental one group pretest post-test design was used for this study. A total of 50 adolescent boys were selected through non probability convenient sampling from Nirmala Public School, Muvattupuzha. The tool used for data collection was a structured questionnaire to assess knowledge regarding menstruation among adolescent boys. Result of the study revealed that that 2% adolescent boys had good knowledge on menstruation while 44% boys had average knowledge and 54% students had only poor knowledge on menstruation in pre-test. On post-test 54% boys had good knowledge, 42% boys had average knowledge and 4% boys had only poor knowledge on menstruation. The structured teaching programme on menstruation was effective in producing significant difference in the knowledge regarding menstruation among adolescent boys. Knowledge regarding menstruation among adolescent boys was significantly associated with previous knowledge about menstruation.

Keywords: Structured teaching programme; Adolescent boys; Menstruation; Effectiveness; Knowledge; Selected demographic variables.

INTRODUCTION BACKGROUND OF THE STUDY

Menstruation is a normal physiological process which is essential for and indicative of good reproductive health. Menstruation is the monthly bleeding through vagina of a female. It results in premenstrual pain, muscle cramps, excessive blood loss, back ache, fatigue, and many related effects in female human body, but are highly subjective to variations. Menstruation provides women an advantage of low risk of cardiovascular diseases like coronary artery disease. The psychological experience during menstruation depends upon the supportive system of the person.

NEED AND SIGNIFICANCE OF THE STUDY

Menstruation is a normal physiological process which happens to every female between menarche and menopause. The process although being necessary for reproduction it results in increased demand on body. Women experience excessive bleeding, muscle cramps, back ache, menstrual pain, premenstrual dysphoric syndrome etc. The problems faced differ and vary from person to person. All women may have common problems but be of different intensities.

During this time women and girls need considerable amount of support from their partners, sons, brothers, fathers, classmates as well as colleagues. But the consequence is many males are unaware or keeps misconceptions related to menstruation. In schools the boys consider this as an opportunity to tease their classmates. Between partners due to lack of understanding of menstruation among men sexual disharmony and relationship problems may arise. At workplaces increased workload or stress is given upon women without knowing their situation.



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PROBLEM STATEMENT

A study to assess the effectiveness of structured teaching program on knowledge regarding menstruation among adolescent boys in a selected high school, Muvattupuzha.

OBJECTIVES

- To assess the pre-test knowledge on menstruation among adolescent boys.
- To assess post-test knowledge on menstruation among adolescent boys.
- To compare the pre-test and post-test knowledge scores on menstruation among adolescent boys.
- To find out the association between pre-test knowledge scores on menstruation among adolescent boys with selected demographic variables.

HYPOTHESIS

H₁: There is significant difference between pre-test and post-test knowledge scores on menstruation among adolescent boys.

H₂: There is significant association between pre-test knowledge scores on menstruation among adolescent boys with selected demographic variables.

REVIEW OF LITERATURE

The review of literature is the systematic and comprehensive analysis of related literature both published and unpublished to throw light and make clear the whole aspects of the study. A thorough literature review provides a foundation to new knowledge and usually is conducted well before any research.

The review of literature of this study is organized under the following heading as given below,

- Knowledge regarding menstruation
- Impact of dysmenorrhea
- Men's perception about menstruation
- Structured teaching programme

METHODOLOGY

The research methodology outlined in this chapter focuses on assessing the effectiveness of a structured

teaching program on knowledge regarding menstruation among adolescent boys in Nirmala Public School, Muvattupuzha. Adopting a quantitative research approach, the pre-experimental design chosen is a one-group pre-test and post-test design. The study takes place at Nirmala Public School, with the population being all adolescent boys aged 13-16 years. The sample, selected through non-probability convenient sampling, comprises 50 willing participants meeting the age criteria.

The research tool is a self-structured questionnaire divided into two sections: demographic variables and a structured questionnaire assessing knowledge on menstruation. The questionnaire underwent content validation by experts in relevant fields, and a pilot study with 10 adolescent boys was conducted to test its reliability using the split-half method, resulting in a consistency score of 0.743721.

The actual data collection involved obtaining formal permission from the school principal, conducting pretests, administering the structured teaching program, and finally assessing post-test knowledge. Data analysis will include frequencies and percentages for demographic variables, knowledge scores, and the effectiveness of the teaching program. Additionally, the association between knowledge and selected demographic variables will be assessed using the chi-square test. The chapter provides a comprehensive insight into the research design, variables, setting, population, sample, sampling technique, data collection instrument, pilot study, and the plan for data analysis.



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ANALYSIS AND INTERPRETATION OF DATA

Section I: Description of subject based on demographic variables.

Section II: Pre-test and post-test knowledge among adolescent boys on Menstruation before and after administration of structured teaching programme.

Section III: Effectiveness of structed teaching programme on knowledge on menstruation among adolescent boys.

Section IV: Association between pre-test knowledge on menstruation among adolescent boys and selected demographic variables.

Distribution of knowledge of adolescent boys before and after administration of structured teaching programme.

Grade of knowledge	Range	Pre-test knowledge		Post-test knowledge	
		f	%	f	%
Good	21-30	1	2%	27	54%
Average	11-20	22	44%	21	42%
Poor	0-10	27	54%	2	4%

Table 1 reveals that 2% adolescent boys had good knowledge on menstruation while 44% boys had average knowledge and 54% students had only poor knowledge on menstruation in pre-test. On post-test 54% boys had good knowledge, 42% boys had average knowledge and 4% boys had only poor knowledge on menstruation.

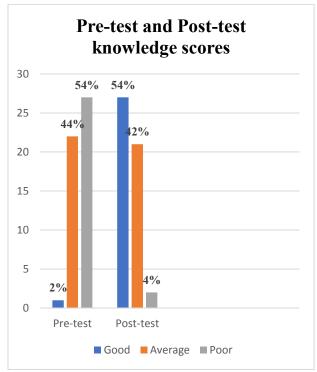


Figure 2: Graph showing pre-test and post-test knowledge scores.

Section III: Effectiveness of structed teaching programme on knowledge regarding menstruation among adolescent boys.

This section deals with the significance of difference between pre-test and post-test knowledge scores on menstruation among adolescent boys for which Z-test was computed, in order to find out effect the following hypothesis is stated.

H₁: There is significant difference between pre-test and post-test knowledge scores regarding menstruation among adolescent boys.

Table 2
Mean score, standard deviation and z value of pre-test and post-test scores of knowledge regarding menstruation among adolescent boys.



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Variable	Mean score	SD	Z-value
Pre-test knowledge	10.64	4.17	
	20.07	5.24	10.54663 *
Post-test			
knowledge			

^{*} significant at 0.05 level

Table 8 indicates that the computed 'z' value is greater than table value (1.64). It is significant at 0.05 level. Therefore, it can be inferred that structured teaching programme on Menstruation is effective to improve the knowledge of adolescent boys.

Section IV: Association between pre-test knowledge on menstruation among adolescent boys and selected demographic variables.

H₂: There is significant association between pre-test knowledge scores on menstruation among adolescent boys with selected demographic variables.

Table 3
Association between pre-test knowledge scores on menstruation with selected demographic variables

Demographic variables	Df	Chi square value <u>2</u> 2	p-value
Religion	2	0.0408	0.97822
Place of living	1	2.8937	0.088924
Family annual income	3	3.342	0.341838
Parents profession	1	0.0023	0.585024
Having female siblings	1	0.1661	0.68359
Previous knowledge on	1	5.0814	0.024184
menstruation			

Table 3: Shows that there is significant association between pre-test knowledge score on Menstruation among adolescent boys with previous knowledge on menstruation. But there is no association between knowledge score on menstruation and other demographic variables. So, the research hypothesis was accepted and null hypothesis was rejected.

MAJOR FINDINGS OF THE STUDY Distribution of demographic characteristics of adolescent boys

Most of the adolescent boys belongs to 13-16 years 26% belongs to Christian community, 58% boys are living in urban area, 32% of boys have family annual income between 100000-200000, 12% boys' parents work in medical field, 50% of boys have female siblings and most of the boys did not have any previous knowledge on Menstruation

Distribution of adolescent boys based on knowledge on menstruation before and after structured teaching programme.

The findings reveal that pre-test score of 54% had poor knowledge, 44% had average knowledge and 2% had good knowledge. In post-test 54% had good knowledge 42% had average knowledge and 4 % had poor knowledge.

The effectiveness of structured teaching programme

The improvement is statistically tested by paired Z-test value and the results was found to be significant after the teaching programme. The post-test knowledge score is increased when compared with pre-test score.

Association of knowledge with selected demographic variables

The study shows that there is significant association between previous knowledge on menstruation and pretest knowledge scores. But there is no significant association between knowledge and other selected demographic variables.

Summary:

The study aimed to assess the effectiveness of a structured teaching program on knowledge regarding menstruation among adolescent boys at Nirmala Public School, Muvattupuzha. The objectives included evaluating pretest and post-test knowledge, comparing knowledge scores, and exploring associations with demographic variables. The study utilized Bertalanffy's general system theory as a conceptual framework.



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The research employed a pre-experimental design with a sample size of 50 adolescent boys aged 13-16 years. A pilot study validated the tool, and the final study, analyzed through descriptive and inferential statistics, indicated that the structured teaching program significantly improved knowledge about menstruation. The findings revealed that 2% of boys had good knowledge in the pre-test, increasing to 54% in the post-test.

Nursing implications suggested strengthening nursing curriculum related to menstrual knowledge and educating male students on reproductive and menstrual topics. The study emphasized the need for further research on the effectiveness of teaching programs. Nursing administrators were urged to organize education programs for staff and hospitalized men regarding menstruation.

Limitations included a small sample size and a short study period, limiting the generalization of findings. The study focused exclusively on adolescent boys, used a non-randomized sampling technique, and employed a closed-ended tool without open-ended questions.

Recommendations for future research included conducting similar studies with larger samples, extending the research to community settings, and exploring the effectiveness of teaching programs among young men in college. Overall, the study suggested valuable insights for enhancing menstrual knowledge among adolescent boys and providing directions for future research and nursing education.

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