



ASSESS THE EFFECTIVENESS OF STRUCTURED TEACHING PROGRAM ON KNOWLEDGE REGARDING PERSONAL PROTECTIVE EQUIPMENTS AMONG THE FIRST YEAR BSc. NURSING STUDENTS, NIMS COLLEGE OF NURSING NEYYATTINKARA

Mrs Josphine Vineetha S

Principal.

Mrs Santhiya C

Senior Lecturer.

ABSTRACT

Personal protective equipment protects health care workers from injury or the spread of infections or illness in hospital settings. It acts as a barrier between the wearer and germs. Therefore, here we started a thesis on knowledge regarding use of personal protective equipments among the first year BSc nursing students. The research approach adopted for this study was quantitative in nature. The objectives of the study were to assess the effectiveness of the structured teaching program on knowledge regarding personal protective equipments among first year BSc nursing students. A one group pre-test and post-test design was used to evaluate the effectiveness of structured teaching program on personal protective program among first year BSc nursing students. This study included 60 nursing students. Probability sampling method by simple random sampling technique was used for the selection of the samples. The data obtained were analyzed using descript and inferential statistics. The result indicated that first year BSc nursing students had average knowledge regarding personal protective equipments. Structured teaching program was found to be very effective method of providing information regarding personal protective equipments. effective to enhance knowledge of nursing students regarding personal protective equipments. The mean post test knowledge score was more than mean pre-test knowledge score which was calculated by t-test ($t=9.2$) at $p>0.05$ level of significance. Hence the structured teaching program was effective to enhance the knowledge regarding personal protective equipments.

KEYWORDS : personal protective equipments, structured teaching program, Effectiveness, Knowledge ,Nursing students

INTRODUCTION

Personal protective equipment is a specialized equipment worn by an employee or patients for protection against infectious materials. The main goal of using personal protective equipment is to improve personal safety in the health care environment and to prevent the risk of transmission of microorganisms to patients or to care giver, and risk of contamination of health professionals. Before using personal protective equipment staff should be educated a competence should be assessed regarding selection.

Personal protective equipments has evolved over the countries as health care needs have increased and become more challenging. So it is important for facilities and health care workers to practice appropriate personal protective equipments in health care settings.

PROBLEM STATEMENT

A study to assess the effectiveness of structured teaching program on knowledge regarding personal protective equipment among first year BSc Nursing students, Nims College of nursing, Neyyattinkara.

DATA COLLECTION PROCEDURE

Prior to the data collection, permission was obtained from the Management of NIMS College Of Nursing, Neyyattinkara. The data was collected on 22/06/2022, from the selected students of first year BSc. nursing students of NIMS College Of Nursing, using probability sampling method by simple random sampling technique. Pre-test was conducted by using structured questionnaire. After that students are instructed to attend structured teaching program on personal protective equipment (PPE). Followed by that post-test was conducted by using same self-administered structured questionnaire.

DESCRIPTION OF THE TOOL

The tool acts as an instrument to assess and collect the data from the respond of the study (Polit & Beck, 2002). The tool used in the study is self-administered questionnaire to identify the knowledge regarding personal protective equipments. The tool consists of two sections section-a demographic variables and section-b questionnaire.

The maximum score is 20
And the minimum score is 0

RESULT

Section 1: Description of the socio demographic variables characteristics under study.

Section 2: Description of the knowledge among the first year BSc. nursing students.

Section 3: Effectiveness of structured teaching program on knowledge regarding personal protective equipment among first year BSc nursing students.

Section 4: Description of association between the pre-test and post-test scores knowledge regarding personal protective equipment among first year BSc. nursing students with their selected demographic variables.

Section 1: Description Of The Socio Demographic Variables Characteristics Under Study.

- Among the samples, majority of the students belongs to the age group between 18 to 19 years (80%) and the rest between 20-21 years (16.6%) and 22-23 years (4%).
- Most of the samples were females (93.3%).
- Among the samples, 98% samples had appropriate practice of personal protective equipments.
- The samples who gained knowledge from lectures are 86.7% and from books are 13.3%.

Section 2: Description of knowledge among the first year BSc. Nursing students.

During pre-test, most of the students (91.7%) had average knowledge regarding PPE, 8% had poor knowledge regarding PPE. After the structured teaching program, 86.7% had good knowledge regarding PPE and only 13.3% had average knowledge regarding PPE.

Section 3: Effectiveness Of Structured Teaching Program On Knowledge Regarding Personal Protective Equipment Among First Year BSc Nursing Students.

While comparing the mean scores of pre and post-test, the mean pre-test score was 11.51 while the post-test score was

16.81. The paired t-test value was 9.2 ($p < 0.05$).

It shows that there is a certain difference in the level of pre-test and post-test value which reveals that intervention was effective.

Section 4: Description Of Association Between The Pre-test And Post-test Scores Knowledge Regarding Personal Protective Equipment Among First Year BSc. Nursing Students With Their Selected Demographic Variables

Among the samples, there was a significant association between demographic variables of study such as previous knowledge, practice of personal protective equipment with knowledge score.

CONCLUSION

Assessment of effectiveness of structured teaching program on knowledge regarding personal protective equipment among first year BSc Nursing students was done. There was average to poor knowledge among them before the intervention. After the structured teaching program, their knowledge regarding PPE enhanced to average and good level. Hence, this study reveals that most of the student's knowledge has enhanced regarding PPE after implementing the intervention.

REFERENCES:

1. Aires S. Evaluation of the knowledge and attitudes to the standard precautions for infection control. *Acta Med Port.* 2010 Oct; 23(2):191.
2. Cheng SM, Melanee EC, Rawson B. Infection prevention and control learning preferences of nurses. *Can J Infection Control.* 2008 Feb; 23(3):165.
3. Foster TM, Lee MG, McGaw CD, Frankson MA. Knowledge and practice of occupation infection control among health care workers in Jamaica. *West Indian Med.* 2010 Oct; 59(2):147-52.
4. Hamid MZ, Aziz NA, Anita AR and Norlijah O. Knowledge infections disease and the practice of universal precautions. *South-east Asian J Trop Med Public Health.* 2010 Nov; 41(5):11929.
5. Lewis KL, Thompson JM. Health Care Professionals 'perceptions and knowledge of infection control practices in a community hospital'. *Health care Management.* 2009 Sep; 28(3):230-8.
6. William P. Why you need to be aware of infection control issues. *Am J Infection Control.* 2007 Sep; 5(66):30-70.