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KNOWLEDGE OF B. Sc NURSING STUDENTS ON DISINFECTANTS USED IN HOSPITALS

Nursing	
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ABSTRACT

Introduction: Disinfectants are the anti-microbial agents that are applied to the surface of non-living objects to destroy micro-organism that are living on the object.

Aim: The study aim to assess the knowledge of B.Sc Nursing students on disinfectants used in hospitals.

Study Approach: The descriptive study approach was used.

Sampling: stratified Probability sampling technique was adopted to select 100 B.Sc Nursing students.

Tool and technique: Structured knowledge questionnaire was used to collect the data.

Result: Result revealed that majority 49% students had good knowledge regarding disinfectants, 26% had average knowledge and 25% had poor knowledge. Chi-square analysis revealed, significant association found with knowledge and their age.

Summary: knowledge of BSc nursing students regarding disinfectants is not adequate, need to educate students regarding disinfectants.

KEYWORDS

Knowledge, Disinfectants, Nursing students

INTRODUCTION
"Disinfectant is designed to destroy germs"
Microorganism or microbe is a microscopic organism which may exist in its single celled form or in a colony of cells. Microbes occupies all of our body surface including the skin, mucous membrane and also in our environment. About 1 in 10 of the people admitted to the hospital will contact a hospital acquired infection. There are also associated with significant morbidity, mortality and hospital cost. To minimize the spread of microorganism in the hospital, various forms of disinfectants are used. Disinfectants use is more common in Nurses working in hospitals. So the Nurses experience high exposure level to disinfectants. The Nurses are using disinfectants in hospital for various purposes. So they should know about the action, uses, purpose, and also the side effects.

Statement of the problem
A study to assess the knowledge on disinfectants used in hospitals among B.Sc Nursing students in selected Nursing College at Mysuru.

Objectives of the study
- To assess the knowledge of B.Sc Nursing students on disinfectants used in hospitals.
- Find the association between the level of knowledge on disinfectants among B.Sc Nursing students and their selected personal variables.
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MATERIALS AND METHODS:
Descriptive study design was adopted, 100 BSc Nursing students were selected using stratified probability sampling technique, data collected using structured knowledge questionnaire. Data analysed using descriptive and inferential ststistics.

Hypothesis
The following hypothesis is tested at 0.05 level of significance

H_1: There will be a significant association between the level of knowledge on disinfectant used in hospitals among B.Sc Nursing students with their selected personal variables.

RESULTS
A total number of 100 BSc nursing students participated in the study. Paricipants charactersics are given in Table: 1

Table: 1 *Frequency Percentage of Personal Variables*
n-100

Sl no	Personal variables	frequency (%)
1	**Age in years**	
	a)18 and 19	31
	b)20 and 21	51
	e)22	9

2	**Gender**	
	a)Male	15
	b)Female	85
3	**Source of information regarding Disinfectants**	
	a)Hospitals	43
	b)Health care professionals	20
	c)Classroom teaching	31
	d)Friends	6

The majority of participants (51%) are in the age of 20 - 21 years and majority (85%) are females and majority (43%) participants had hospital as source of information.

TABLE 2 *Frequency and Percentage Distribution level of Knowledge on Disinfectants among B.Sc Nursing Students.*
n=100

Level of knowledge	Frequency (%)
Poor Knowledge	25
Average Knowledge	26
Good Knowledge	49

TABLE 3 *Mean, Median, Range and Standard Deviation of Knowledge Score of the B. Sc Nursing Students*
n=100

Mean	Mean	Median	Range	Standard Deviation(SD)
Knowledge score	18	18.77	7-27	± 2.55

The data presented in the table 3 shows that the mean knowledge score of 18.77 with the standard deviation of ± 2.55 and ranges from 7 -27.

Chi-square value was computed to find the association between level of knowledge of B.Sc Nursing students regarding disinfectants used in hospitals with their selected personal variable. Significant association found between knowledge of B.Sc Nursing students regarding disinfectants used in hospitals with their age.

DISCUSSION
Findings of the present study revealed that majority 49% had good knowledge that means not even 50% of participants had good knowledge, .

Similar results have been reported by other studies conducted to assess the knowledge of disinfectants use among college of Nursing students and Nurses in some health care setting in Kuwait. For the study the sample size was 266 B.Sc Nursing students. The Nursing students respondents included 210 (78.9%) females and 56(21%) males.

Regarding the correct answers, the result showed that male nurse respondents had highest mean score ($p < 0.005$). The study concluded that the students need to improve knowledge and awareness prior to graduation.

CDC strongly recommends use of disinfectants to prevent nosocomial infections. The results of our study and the previous studies indicate that it is important to be aware of disinfectants used in hospitals among health care workers. As knowledge of nurses are not adequate they need to be well educated regarding proper use of disinfectants.

CONCLUSION

In conclusion, our study results revealed that less than 50% nursing students had good knowledge and among them majority had hospital as a source of information, along with that we need to educate them more in their classroom, awareness campaign, new modes of communication should be used to deliver information to healthcare providers emphasizing on disinfectants used in hospital.

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