

A Study to Assess the Level of Knowledge on Cyber Security among B.Sc (Nursing) Students in the Selected Colleges at Chennai

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ABSTRACT

Nurses are people who need self-assessment to maintain and improve their practice by identifying their strengths and weakness in the areas that may need to be further developed. Computer security, cyber security or information technology security is the protection of computer system and networks from information disclosure. Theft of or damage to their hardware, software, or electronic data, as well as from the disruption or misdirection of the services they provide. A Non- experimental study was conducted to assess the level of knowledge on cyber security among B.Sc.(N). A descriptive research design was adopted for the study and 94B.Sc. Nursing II year students were selected using purposive sampling technique. Self-Structure question is a standardized tool was used to assess the level of knowledge among the B.Sc. Nursing II year students for the duration of 10 – 15 minutes. The study findings showed 34.04% nursing students had adequate knowledge.

KEYWORDS: *knowledge on cyber security, B.Sc. Nursing II year students*

INTRODUCTION

The nurse is the coordinator for all services and person concerned with the patient care. Cyber security is the practice of defending computers, servers, mobile device, electronic systems, networks, data from malicious attacks. It is also known as information security. This cyber security on network. security application, information, operation, disaster, recovery and business continuity and user education. India is at no.23rd of the UN global cyber security index 2017 New Delhi /Beljing power minister R.K SINGH said that country has strong defense against any kind of cyber attacks. Chennai recorded 42%, which is the highest number of the cyber attacks in the country as threats targeted the city a variety of attacks aimed at exploited user trust enterprise vulnerability. Cybersecurity is also one of the significant challenges in the contemporary world, due to the complexity of information system. Both in terms of political usage and technology. IT primary goal is to ensure the systems dependability, integrity, data privacy. Today

we live in a digital era where all aspects of our lives depend on the network, computer and other electronic devices, and software applications. All critical infrastructure such as the banking system, healthcare, financial institutions, governments, and manufacturing industries use devices connected to the Internet as a core part of their operations. Some of their information, such as intellectual property, financial data, and personal data, can be sensitive for unauthorized access or exposure that could have negative consequences. This information gives intruders and threat actors to infiltrate them for financial gain, extortion, political or social motives, or just vandalism. The basic assumption of selected to assess the knowledge among cyber security among B.Sc.(N) students.

Statement of Problem

A study to assess the level of knowledge on cyber security among B.Sc. Nursing students in the selected college at Chennai.

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Objectives

- To assess the level of knowledge on cyber security among the B.Sc. Nursing students.
- To associate the level of knowledge on cyber security among the B.Sc. Nursing students with their selected demographic variables.

Research Methodology

Quantitative research approach was adopted for the study. Non-experimental Descriptive research study design was selected. The study was conducted in Madha College of Nursing, Kundrathur in Chennai. Population consisted of B.Sc. Nursing II year students who were studying in the Madha College of Nursing. The sample of 94 B.Sc. Nursing II year students who fulfilled the inclusion criteria were chosen using purposive sampling method. The tool used for the study was Self Structure question that consists of 30 questions regarding knowledge about the cyber

security. After obtaining consent from the students, the data collection procedure was started by providing the questionnaire. They were given 10 – 15 minutes to complete the questionnaire.

Results and Discussion

The data collected was analyzed using descriptive and inferential statistics. The demographic variables of Nursing students (age) of the study object 05(5.3%) the age group of 17-18 years, 53(56.3%) the age group of 18-19 years, 29(30.8%) the age group of 19-20 years, 07(1.4%) were in the age group 20-21 years. (gender) 26(27.6%) were male, 68(72.34%) were female. (course) 0(0%) were first year, 94(100%) were second year. (source of information) 71(75.5%) were using internet and 23(24.4%) were using magazine. (social media communication) 94(100%) were using all the social media

The first objective was to assess the level of knowledge on cybersecurity among B.sc Nursing students.

The frequency distribution of level of knowledge on cyber security among B.sc Nursing students, majority of students (65.95%) have inadequate knowledge on cyber security and some of them (34.04%) have adequate knowledge on cyber security. The mean and standard deviation of demographic variables of participants (N=94) was 9.8 and 3.23 the 'Z' test was 36.9

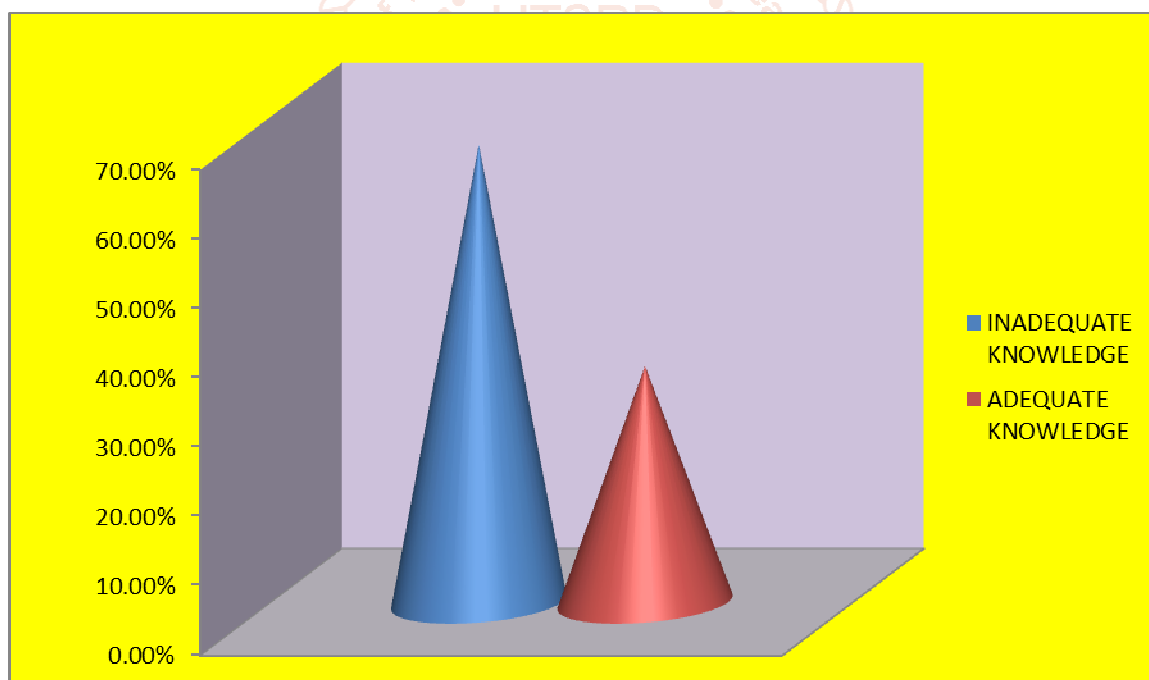


Fig.1. Frequency and percentage distribution of level of knowledge among cyber security among B.Sc. Nursing II year students.

The second objective was to associate the level of knowledge on cyber security among B.sc Nursing students with their selected demographic variables.

None of the demographic variables were significantly associated with the level of knowledge among B.Sc. Nursing II year students.

S. NO	DEMOGRAPHIC VARIABLE	INADEQUATE KNOWLEDGE		ADEQUATE KNOWLEDGE		CHI -SQUARE TEST
		N	%	N	%	
1.	Age					df=7.82 NS
	a) 17-18	4	4.25%	2	2.12%	
	b) 18-19	36	38.29%	12	12.76%	
	c) 19-20	15	15.9%	13	13.82%	
2.	Sex					df=3.84 NS
	a) Male	16	17.02%	10	10.63%	
	b) Female	46	48.93%	22	23.40%	
3.	Course					df= 7.82 NS
	a) I ^t year					
	b) II nd year	62	65.95%	32	34.04%	
	c) III nd year					
4.	Source of information					df =7.84 NS
	a) Internet	28	29.7%	23	24.46%	
	b) Magazine	10	10.63%	3	3.19%	
	c) School	12	12.76%	2	2.12%	
5.	Usage of information					df=7.8 NS
	a) WhatsApp					
	b) Facebook	62	65.95%	32	34.04%	
	c) Instagram					
	d) all of these					

Table 1: the table shown that association of knowledge regarding the cyber security among participants.

1. The demographic variables shown that the value of df=7.82 the calculated value of the chi square is the 4.158 so it's the NULL SIGNIFICANT.
2. The gender shown that the value of df=3.84 the calculated value of the chi square is the 0.3098 so it's the NULL SIGNIFICANT.
3. The course shown that the value of df=7.82 the calculated value of chi square is the 0 so it's the NULL SIGNIFICANT.
4. The source of the information shown that the value of df=7.82 the calculated value of chi square is the 6.479 so it's the NULL SIGNIFICANT.
5. The usage of information in the types of internet application shown that the value of df=7.82 the calculated value of chi square is the 0 so it's the NULL SIGNIFICANT.

Conclusion

The present study was conducted to assess the level of knowledge among B.sc. Nursing II year students. The result shows that the B.sc nursing second year students gained moderate and adequate knowledge regarding cyber security.

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