# ORIGINAL RESEARCH PAPER

Nursing

# NURSING STUDENTS FOR COMPUTER AND INTERNET USAGE FOR THEIR EDUCATION IN THE COLLEGE OF NURSING, AMBALA, HARYANA

**KEY WORDS:** Nursing Students, Computer Usage, Internet, Nursing Education

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RSTRACT

Internet has become one of our basic needs. Earlier people used to surf via computer but now owning a fully equipped cell phone has made it much easier and accessible. The present study was conducted to assess the pattern of computer and Internet usage among B. Sc and M. Sc Nursing Students. Material and Methods: This is a cross-sectional study that was conducted at M.M College of Nursing, Maharishi Markandeshwar University, Mullana, Ambala. Students studying at M.M College of Nursing who are willing to participate were enrolled through convenient sampling. Data was collected through a Structured Questionnaire (Pattern of use of Computer & Internet) through Google form from 314 students. Data was analyzed by Descriptive Statistics using SPSS version 20. The result of the study showed the hat mean age of Nursing Students was 16-25 and the majority of students were female (70.7%). Maximum number of students who use a computer or phone for chatting is 93.3%. More than half 62.2% of students prefer to use Ithe nternet by laptop regularly followed by less than 1/3rd i.e. 19.3% of students use it very frequently. Approximately half of students 54.2% surf the Internet for educational sites. Majority 86% of students searched for nursing articles on In the Internet whereas 28.5% the the Internet for all other subjects and 23.4% of students used the Internet for Medical-Surgical Nursing specifically. Thus the study concludes that Students prefer phones over computers or laptop whether it be for internet surfing, chatting or studying. Students use internet for studies as well but they should be encouraged more to use information from the internet to solve health problems quickly and efficiently.

## INTRODUCTION

Internet has become one of our basic needs. Earlier people used to surf via computer but now owning a fully equipped cell phone has made it much easier and accessible. Students use various sites to quench their thirst of knowledge and nursing professionals use to help patients to find relevant information for their health related questions. Evidence based practice which has become core of nursing practice and education, being a computer literate and equipped with internet gives it a practical approach. The development of the Internet, as a vehicle for World-wide communication, and the emergence of the World Wide Web, has made instantaneous access to much of the entire body of medical information an exciting one. 2 Although nurses are the leading group of health care providers in hospitals, there is little evidence in published literature about how they search for online information.3

## MATERIAL AND METHOD

This is a cross-sectional study which was conducted at M.M College of Nursing, Maharishi Markandeshwar University, Mullana, Ambala. Students studying at M.M college of nursing

who are willing to participate were enrolled (including, B. Sc and M. Sc Program) through convenient sampling. Data was collected by using Google form which contains 27 items questionnaire. Section I included demographic profile and section II included pattern of use of computer and internet related resources in the month of March 2022. The sample size was 314; the total number of students enrolled in B. Sc and M. Sc Program in M.M of college of Nursing were estimated to be 450

Content validity of the tool was established by 9 experts. The percentage of agreement was found to be 0.8 by Cronbach's Alpha. The acceptable range was 0.6%-1.0%. Thus the tool was found to be reliable.

## Statistical Analysis:

Data was entered in Microsoft excel sheet, analyzed and interpreted by employing descriptive statistics (frequency and percentage distribution) by using SPSS 20.

## **RESULTS & DATA ANALYSIS**

N=314

Table-1 Pattern Of Use Of Computer Services By Students N=314			N=314
S. No	Item	B. Sc Nursing Students n=274 f (%)	M. Sc Nursing Students n=40 f (%)
1.	Do you use computer or phone for chatting?	. ,	, ,
a.	Yes	255(93.0)	39(97.5)
b.	No	19(6.9)	01(2.5)
2.	Do you use computer or phone for social networking sites like Facebook, Instagram, Twitter?		
a	Yes	210(76.6)	39(97.5)
b	No	64(23.3)	01(2.5)
3.	Do you use Word processor?		
a	Yes	123(44.8)	34(85)
b	No	151(55.1)	06(15)
4.	Do you use reference manager in Word processor?		
a	Yes	72(26.2)	29(72.5)
b	No	202(73.7)	11(27.5)
00			

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5.	Do you use Power point presentation program?		
a	Yes	234(85.4)	40(100)
b	No	40(14.5)	0(0)
6.	Do you use Excel?		
a	Yes	171(62.4)	40(100)
b	No	103(37.5)	0(0)

Table 1 depicts that majority of students uses computer and phone as a mode of chatting via use of Facebooks, Instagram, Twitter and various other methods available whereas very least number of students denied with the statement and said that they use computer and phones as a mode of study purpose only.

Sr.no	Item	B.Sc Nursing Students	M.Sc Nursing Student	
31.110	Heili	f(%) n=274	f(%) n=40	
l.	How do you use internet?	1(70) 11-211	1(70) 11—10	
a	Computer/laptop	1(0.3)	0(0)	
b	Cell Phone	192(70.0)	04(10)	
C	Both	81(29.5)	36(90)	
2.		81(29.5)	30(30)	
	Do you have access of internet at your college?	010(70.0)	40(100)	
a	Yes	216(78.8)	40(100)	
b	No	58(21.1)	0(0)	
3.	Is your internet access good?			
a	Yes	209(76.2)	36(90)	
b	No	65(23.7)	04(10)	
ŀ	What is the speed of internet?			
a	4G	208(75.9)	34(85)	
b	3G	45(16.4)	02(5)	
С	2G	21(7.6)	04(10)	
5.	Frequency of internet used?			
a	Most frequently	47(17.5)	14(35.0)	
b	Regularly	170(62.5)	26(65.0)	
c	Occasionally	37(13.5)	0(0)	
d	Rarely	20(7.2)	0(0)	
<u>u</u> 5.	Internet services used by students?	20(1.2)	(0)	
	,	47(17.1)	0(E)	
a	Email	47(17.1)	2(5)	
b	Web browsing	53(19.3)	10(25)	
С	Games	5(1.8)	0(0)	
d	Movies	2(0.7)	0(0)	
е	Educational Sites	144(52.5)	27(67.5)	
f	Other	23(8.3)	1(2.5)	
7.	Do you use internet during the weekends for your studies?			
a	Yes	219(79.9)	35(87.5)	
b	No	09(3.2)	03(7.5)	
С	May be	46(16.7)	02(5)	
3.	Do you use Google classroom in communicating with your teacher?			
a	Yes	257(93.7)	40(100)	
b	No	17(6.2)	0(0)	
).	Do you use email in communication with your instructor?	11(0.2)	0(0)	
a.	Yes	208(75.9)	40(100)	
b	No No	66(24.0)	0(0)	
.0.		00(24.0)	0(0)	
	Do you search for nursing journal articles from Internet?	001(04.0)	40(100)	
a	Yes	231(84.3)	40(100)	
b	No and the same of	43(15.6)	0(0)	
1.	Do you use any one of the following?	00 (10 E)	0.00	
a	Web of Science	29(10.5)	0(0)	
b	Pubmed	38(13.8)	15(37.5)	
С	Scopus	0(0)	0(0)	
d	Google Scholar	29(10.5)	03(7.5)	
е	None of them	164(59.8)	0(0)	
f	Miscellaneous	14(5.1)	22(55)	
2.	Do you use the latest developments in medicine and nursing from the internet?			
a	Yes	211(77.0)	32(80)	
b	No	63(22.9)	08(20)	
13.	Do you use the relevant information for your studies from the internet?			
a	Yes	268(97.8)	40(100)	
b	No No		_ ` '	
IJ	1140	06(2.1)	0(0)	

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	1 1 1	<u> </u>	
a	Yes	67(24.4)	16(40)
b	No	125(45.6)	11(27.5)
С	May be	82(29.9)	13(32.5)
15.	Are there some ways you are using your computer program or		
	internet? Please name below:		
a	You Tube	12(4.3)	2(5)
b	Social Interaction	3(1.0)	3(7.5)
С	Healthy Program	1(0.3)	0(0)
d	Hacking	2(0.7)	0(0)
е	News	2(0.7)	0(0)
f	Photoshop	1(0.3)	0(0)
g	No	253(92.3)	35(87.5)
16.	Which subject you prefer to study using Internet?		
a	OBG Nursing	15(5.4)	3(7.5)
b	Medical-Surgical Nursing	68(24.8)	6(15)
С	Child Health Nursing	1(0.3)	0(0)
d	Mental Health Nursing	2(0.3)	3(7.5)
е	Nursing Research	4(1.4)	8(20)
f	Pharmacology	5(1.8)	0(0)
g	Microbiology	1(0.3)	0(0)
h	Community Health Nursing	1(0.3)	0(0)
i	ANP	0(0)	3(7.5)
j	Anatomy and Physiology	25(9.1)	0(0)
k	Nursing Foundation	8(2.9)	0(0)
1	Miscellaneous	23(8.3)	0(0)
m	All Subjects	79(28.8)	11(27.5)
n	No	42(15.3)	4(10)

Table 2 depicts that majority (70%) of Students doing graduation is using cell phone for internet whereas students pursuing post graduation is using both phone as laptop for use of internet i.e. (90%).

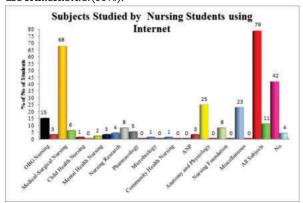


Figure 1 Bar Graph Showing Frequency And Percentage Distribution Of Subjects Studied Students (B. Sc and M. Sc Nursing) using Internet

## Conflict Of Interest

There is no conflict of interest.

# Funding

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## **Ethical Consideration**

Formal administrative approval was obtained from the Institutional Ethical Committee of MMIMS&R, Hospital to conduct the study. Permission for study was taken from Medical Superintendent MMIMS&R, Hospital, Mullana, Ambala, and Haryana.

## DISCUSSION

This study states that students use internet regularly (62.0%), this is in contrast with the study conducted by Ajuwan in 2003 in the study computer and internet used by first year clinical nursing students in Nigerian teaching hospital where 12.5% of nursing students had used the internet. Also maximum number of students has access to internet (78%) according to this study this is in consistent with the study conducted by

Jamshidi in 2012 on title Assessing Nursing Students' Knowledge and Attitudes about Computers and the Internet where maximum number of students 63.5% had used internet. Also half of the students are familiar with Microsoft Word Processing (44.8%) which consistent with study conducted by Deltsidou in Greece, Undergraduate nursing students computer skills assessment: a study where also Half of the students are familiar with Word Processing (55%).

## CONCLUSION

The fact that health care technologies emerge at a fast rate and have become a core part of nursing still seems somewhat unreal to students. Nurses acquire new roles because of computerization, it is a matter of changing the job profile computerization could resolve certain problems. Students prefer phones over computer or laptop either it be a internet surfing, chatting or studying. Students use internet for studies as well but they should be encouraged more to use information from the internet to solve health problems quickly and efficiently during training and practice. It is therefore pivotal that nursing education equips nurses with the necessary knowledge, skills and competencies to utilize IT effectively and efficiently.

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