

Available online at http://www.journalcra.com

International Journal of Current Research Vol. 12, Issue, 09, pp.13612-13616, September, 2020

DOI: https://doi.org/10.24941/ijcr.39691.09.2020

RESEARCH ARTICLE

"A STUDY TO ASSESS THE BASIC KNOWLEDGE ABOUT CORONA VIRUS (COVID-19) AMONG UNDERGRADUATE NURSING STUDENTS IN SELECTED EDUCATIONAL INSTITUTION IN INDIA."

*Vikrant Kulthe

Lecturer In Mental Health Nursing, Kamalnayan Bajaj College of Nursing, Aurangabad, Nashik, India

ARTICLE INFO	ABSTRACT
Article History:	Introduction: Corona virus disease (COVID-19) is an infectious disease caused by a newly
Received 15 th June. 2020	discovered corona virus. Most people infected with the COVID-19 virus will experience mild to
Received in revised form	moderate respiratory illness and recover without requiring special treatment. Older people, and those
27 th July, 2020	with underlying medical problems like cardiovascular disease, diabetes, chronic respiratory disease,
Accepted 04 th August, 2020	and cancer are more likely to develop serious illness. The best way to prevent and slow down
Published online 30 th September, 2020	transmission is be well informed about the COVID-19 virus, the disease it causes and how it spreads.
	The today's the Nursing students helping people and family members for corona related awareness in
Key Words:	family and society. Materials and Methods: In this study pre-experimental descriptive design
Knowledge, Corona Virus (COVID-19),	pumosive sampling techniques for collecting data. In this study 100 Nursing students participated to
Undergraduate	survey of knowledge related to corona pandemic disorder. In that 82% Basic B sc Nursing and 18%
Nursing Students.	General Nursing Midwi fery students. The Data wear analysis Chi-square test used for the association
	of knowledge score and demographic variable. The association result shows that no any significant
	difference in knowledge score. Result shows that 72% participants have moderate level, 18%
	Adequate level of Knowledge related of COVID-19. Condusion: The majority of students have
	Moderate level of knowledge related to corona pandemic disease. Students have better knowledge

Copyright © 2020, Vikrant Kulthe. This is an open access article distributed under the Creative Commons Attribution License, which permits unrestricted use, distribution, and reproduction in any medium, provided the original work is properly cited.

about coron a pandemic disorder.

Citation: Vikrant Kulthe. 2020. "A study to assess the basic knowledge about corona virus (covid-19) among undergraduate nursing students in selected educational institution in india.", International Journal of Current Research, 12, (09), 13612-13616.

INTRODUCTION

Protect yourself and others from infection by washing your hands or using an alcohol based rub frequently and not touching your face Corona viruses (CoV) are a large family of viruses that cause illness ranging from the common cold to more severe diseases such as Middle East Respiratory Syndrome (MERS-CoV) and Severe Acute Respiratory Syndrome (SARS-CoV). A novel corona virus (nCoV) is a new strain that has not been previously identified in humans. Corona viruses are zoonotic, meaning they are transmitted between animals and people. Detailed investigations found that SARS-CoV was transmitted from civet cats to humans and MERS-CoV from dromedary camels to humans. Several known coronavirus es are circulating in animals that have not yet infected humans. Common signs of infection include respiratory symptoms, fever, cough, shortness of breath and breathing difficulties. In more severe cases, infection can cause pneumonia, severe acute respiratory syndrome, kidney failure and even death.

*Corresponding author: Vikrant Kulthe.

Lecturer In Mental Health Nursing, Kamalnayan Bajaj College of Nursing, Aurangabad, Nashik, India.

Standard recommendations to prevent in fection spread include regular hand washing, covering mouth and nose when coughing and sneezing, thoroughly cooking meat and eggs. Avoid close contact with anyone showing symptoms of respiratory illness such as coughing and sneezing. The todays the Nursing students helping people and family members for corona related awareness in family and society.

INTERNATIONAL JOURNAL OF CURRENT RESEARCH

Objective: 1. Assess the basic knowledge related COVID-19 of undergraduate health sciences students of selected educational institutions. 2. To find out association between knowledge related to COVID-19 and selected demographic variable of selected educational institutions.

MATERIALS AND METHODS

An evaluative research approach was adopted to test the main objective of assess the basic knowledge related to COVID-19 of undergraduate health sciences students of selected educational institutions. In this study assess the basic knowledge related to COVID-19 in Nursing student by making same tool for survey.

Today the COVID-19 so nobody can directly participate in study they all are solve the tool with the help of Google form. In this study 100 participants form College of Nursing in between 82% from Basic B Sc Nursing, 18% from General Nursing Midwifery. The study was conducted in selected Institute of Nursing Education. In this study both courses are involving and 100 students are participated. Why the nursing students? Because of today the nursing students knows the actual transmission, diseases, spread, prevention in basic subjects so its easily understand the prevention, control, spread, diagnosis, from corona virus. The students understand the tool and they are using the knowledge to control corona in society, family, and colugos. As per environment we are selected the sample by "Google Form" those who are interested they solve the tool and then we are sending the response sheet with explanation to improve the knowledge of student. After explaining the purpose of the study, written consent was obtained from the subjects. Based on the baseline data, subjects who met inclusion criteria were included in the study. Baseline Performa consist of thirteen in that Age, Gender, Religion, Native residential, Academic Performance in last year, types of family, fathers and Mothers education, Occupation, monthly income, Attended any seminar, and any habbitsetc.

Knowledge Q uestioner: A blueprint was prepared prior to the construction of knowl edge questioner, which showed the distribution of items according to the content area and the percentage distribution of each item for each content area. A knowledge questioner was prepared by the investigator. It consists of 15 items covered Definition, Sign/symptoms, spread, Treatments, Prevention, Nursing application. Grading of the scores is as follows: Adequate knowledge: 11-15, Moderate knowledge:06-10, Inadequate knowledge: 01-05.

STATISTICAL ANALYSIS: The data on sample characteristics were analysed using descriptive statistic. The baseline characteristics are Age, Gender, Religion, Native residential, Academic Performance in last year, types of family, fathers and Mothers education, Occupation, monthly income, Attended any seminar, and any habbits. Table no 01 shown that total 100 students are participated of this study by its own interest. In that 82% participants are belongs to Basic B Sc Nursing students and 18% students from General Nursing Midwifery (G.N.M) course. In both group female students is more then male that mean 47% of male and 53% of Females, but as per distributions of seats in Nursing the females greater than males. Majority of Hindu people in study is 85% and Christian 4% and Buddhism 11% both the GNM and Basic B Sc Nursing. The 65% students from Rural area and 20% students from Urban, 15% students from Semi-Urban or Under-developmental area. As per Academic Performance in last year is 54% in first class, 22% in second class, in ATKT 14% and Distinction students in 10% students. The 58% students belong to Nuclear family,39% Joints family and 3% Extended family. As per participants father's education 30% are Graduate and 30% is illiterate parents, 33% Higher secondary and 7% Post graduate fathers of students. According to survey the student's mothers 50% Higher secondary and Illiterate Mothers is 33%, total graduate mothers is 15% and 2% post graduate. As per occupations 41% occupations is private sectors, 39% is Own business and 20% is Government sectors. In Monthly income of 51 % above 10,000 monthly and 27% 5000 to 1000 rupees monthly and 22% people have 2000 to 5000 rupees monthly

income. 50% people attended any seminar, conferences, talks, work shop on corona infection and its prevention and 50% participants is not attended any activity. participants leisure time activity is watching TV 16%, 22% students visiting to social networking site and 40% Other types of activities. As per the survey no any participants have a bad Habits. After doing all the Item analysis come to a conclusion that Item Definition in that maximum possible score out of 100 is 3.00, mean is 2.03, SD is 0.69. Median is 2.00 and mean percentage of Definition is 67.67%. The sign and symptoms it includes 3 items and maximum possible score is 2.00, Means is 0.94, SD is 0.72, median is 1.00, means percentages is 47.00%. In that Infection spread item and maximum possible score is 3.00, Means is 2.29, SD is 0.80, median is 2.00, means percentages is 76.33%. the treatment related knowledge of corona infection out of 100 participants max possible score is 1.00, mean is 0.48, SD is 0.48, the median is 1.00 and the percentage of mean is 66.00%. as that's the prevention is 3% maximum score, mean is 1.97, SD is 0.70, median is 2.00, Mean percentage is 65.67%. The Nursing application 3 is possible score, mean 3.00, SD is 0.71, Median is 0.00, Mean percentages is 19.33%. Over all the Mean Percentage 56.47%.

Above the Bar diagram shows that that three categories of knowledge score in that Adequate, Inadequate, and Moderate. According to bar diagram 18% participants have Adequate knowledge, 72% participants have Moderate knowledge and 10% participants have Inadequate knowledge related to corona virus, transmission, treatments, prevention and soared in community. Above the Bar diagram shows that that three categories of knowledge score in that Adequate, Inadequate, and Moderate. According to bar diagram 18% participants have Adequate knowledge, 72% participants have Moderate knowledge, 72% participants have Moderate knowledge and 10% participants have Inadequate knowledge related to corona virus, transmission, treatments, prevention and soared in community.

Find out the association of demographic variable with knowledge score: Since all the p-values are large (greater than 0.05), none of the demographic variables was found to have significant association with the Knowledge score related to corona virus and its Infection.

DISCUSSION

Result show's that total 100 students are participated of this study by its own interest. In that 82% participants are belongs to Basic B Sc Nursing students and 18% students from General Nursing Midwifery (G.N.M) course. Result show's that both group female students is more than male that mean 47% of male and 53% of Females, but as per distributions of seats in Nursing the females greater than males. As per Results majority of Hindu people in study is 85% and Christian 4% and Buddhism 11% both the GNM and Basic B Sc Nursing. The 65% students from Rural area and 20% students from Urban, 15% students from Semi-Urban or Under-developmental area. As per Academic Performance in last year is 54% in first class, 22% in second class, in ATKT 14% and Distinction students in 10% students. The 58% students belong to Nuclear family,39% Joints family and 3% Extended family. As per participants father's education 30% are Graduate and 30% is illiterate

		Frequency	Percentage %
	DON '	1 2	č
Which Educational year?	B Sc Nursing	82	82.0%
	GNM Nursing	18	18.0%
	Total	100	100.0%
Gender	Female	53	53.0%
	Male	47	47.0%
	Total	100	100.0%
Religion	Christian	4	4.0%
c	Hindu	85	85.0%
	Buddhist	11	11.0%
	Total	100	100.0%
Native Residential Area	Rural	65	65.0%
Ivative Residential Area	Sem i Urban	15	15.0%
	Urban	20	20.0%
		100	
A tour is Deuferman - in to to an	Total		100.0%
Academic Performance in lasty ear	ATKT	14	14.0%
	First class	54	54.0%
	first class Distinction	10	10.0%
	Second class	22	22.0%
	Total	100	100.0%
Type of Family	Extended	3	3.0%
• •	Joint	39	39.0%
	Nuclear	58	58.0%
	Total	100	100.0%
Father's education:	Graduate	30	30.0%
ratific s'education.	Higher secondary	33	33.0%
	Illiterate	30	30.0%
	Post Graduate	7	7.0%
	Total	100	100.0%
Mother's education:	Graduate	15	15.0%
	Higher secondary	50	50.0%
	Illiterate	33	33.0%
	Post Graduate	2	2.0%
	Total	100	100.0%
Father's / Guardian's occupation	Private sector	41	41.0%
	Government Sector	20	20.0%
	Own Business	39	39.0%
	Total	100	100.0%
Monthly Income	10.1 Rs.2,000 to 5,000	22	22.0%
wonting moonic			
	10.2 Rs. 5,001 to 10,000	27	27.0%
	10.3 Above 10,000	51	51.0%
	Total	100	100.0%
Have you attended any seminar, conferences, talks, work shop on	No	50	50.0%
corom infection and its prevention?	Yes	50	50.0%
	Total	100	100.0%
Your leisure time activities	playing game	22	22.0%
	Visit to social networking site	22	22.0%
	watching TV	16	16.0%
	Other	40	40.0%
	Total	40 100	40.0%
Do y ou have any habit	Other	100	100.0%
	Total	100	100.0%

Table no 01. Frequency and Percentage Distribution of the Baseline Performa

Distribution of Item category and Mean, SD, Median, mean percentage:

					N = 100
Item section	Max. possible score	Mean	Std. Deviation	Median	Mean (%)
Definition	3.00	2.03	0.69	2.00	67.67
signs and symptoms	2.00	0.94	0.72	1.00	47.00
Sread	3.00	2.29	0.80	2.00	76.33
Treatment	1.00	0.66	0.48	1.00	66.00
Prevention	3.00	1.97	0.70	2.00	65.67
Nursing application	3.00	0.58	0.71	0.00	19.33
Over all know	15.00	8.47	2.16	9.00	56.47

parents, 33% Higher secondary and 7% Post graduate fathers of students. According to survey the student's mothers 50% Higher secondary and Illiterate Mothers is 33%, total graduate mothers is 15% and 2% post graduate. Result show's that as per occupations 41% occupations is private sectors, 39% is Own business and 20% is Government sectors. In Monthly income of 51% above 10,000 monthly and 27% 5000 to 1000 rupees monthly and 22% people have 2000 to 5000 rupees monthly income.

50% people attended any seminar, conferences, talks, work shop on corona infection and its prevention and 50% participants is not attended any activity. participants leisure time activity is watching TV 16%, 22% students visiting to social networking site and 40% Other types of activities. As per the survey no any participants have a bad Habits.

Item Analysis: As per the findings Overall the tool consists of 15 Items related to Corona virus Definition, sign and

		N=100				
		Over all know	N			p Value
		<median(9)< th=""><th></th><th>>=Median</th><th>n(9)</th><th>-</th></median(9)<>		>=Median	n(9)	-
		Count	Row N %	Count	Row N %	
Which Educational year?	B Sc Nursing	35	42.70%	47	57.30%	0.007
	GNM Nursing	14	77.80%	4	22.20%	
Gender	Female	28	52.80%	25	47.20%	0.416
	Male	21	44.70%	26	55.30%	
Religion	Hindu	42	49.40%	43	50.60%	0.845
	Others	7	46.70%	8	53.30%	
Native Residential Area	Rural	30	46.20%	35	53.80%	0.623
	Semi Urban	9	60.00%	6	40.00%	
	Urban	10	50.00%	10	50.00%	
Academic Performance in last year	ATKT	5	35.70%	9	64.30%	0.224
	First class +Distinction	30	46.90%	34	53.10%	
	Second class	14	63.60%	8	36.40%	
Type of Family	Joint/extended	19	45.20%	23	54.80%	0.522
	Nuclear	30	51.70%	28	48.30%	
Father's education:	Graduate/Post graduates	16	43.20%	21	56.80%	0.065
	Higher secondary	13	39.40%	20	60.60%	
	Illiterate	20	66.70%	10	33.30%	
Mother's education:	Graduate/Post graduates	5	29.40%	12	70.60%	0.202
	Higher secondary	26	52.00%	24	48.00%	
	Illiterate	18	54.50%	15	45.50%	
Father's / Guardian's occupation	Private sector	20	48.80%	21	51.20%	0.108
ī	Government Sector	6	30.00%	14	70.00%	
	Own Business	23	59.00%	16	41.00%	
0 Monthly Income	10.1 Rs. 2,000 to 5,000	16	72.70%	6	27.30%	0.031
	10.2 Rs. 5,001 to 10,000	13	48.10%	14	51.90%	
	10.3 Above 10,000	20	39.20%	31	60.80%	
Have you attended any seminar,	No	27	54.00%	23	46.00%	0.317
conferences, talks, work shop on	Yes	22	44.00%	28	56.00%	
corona infection and its	105		11.0070	20	20.0070	
prevention?						
Your leisure time activities	play ing game	10	45.50%	12	54.50%	0.411
	Visit to social	8	36.40%	14	63.60%	
	networking site					
	watching TV	10	62.50%	6	37.50%	
	other	21	52.50%	19	47.50%	
Do y ou have any habit	other	49	49.00%	51	51.00%	





Fig 01. Distribution of knowledge score of the participants.

symptoms, spread, treatment and preventions in that the 04 items have greater positive response from the participants and that's why the tool is effective to collecting the data of the related subject.

Assessment of Knowledge of Nursing students related to corona virus: As per Results shows that that three categories of knowledge score in that Adequate, Inadequate, and Moderate. According to bar diagram 18% participants have Adequate knowledge, 72% participants have Moderate knowledge and 10% participants have Inadequate knowledge related to corona virus, transmission, treatments, prevention and soared in community.

Association between the knowledge score with the selected demographic variables: Chi-square test used for the association result shows that, all the p-values are large (greater than 0.05), none of the demographic variables was found to have significant association with the knowledge score related to corona virus.

Conclusion

I conclude that the knowledge related to corona virus in Nursing students is greater in moderate category and adequate also 18% so its clear that the knowledge level is good in the Nursing students. As per the associations with the demographic and knowledge score so it's not significant findings from the study.

Summary

The chapter deals with analysis and interpretation of data collected to assess the knowledge score related to Corona virus in the Nursing students by using self-made knowledge questioner in 15 relevant items. In this study total number of participants is 100 all from Nursing College and school. It's a descriptive type of design research study. As per the findings of research is 18% participants have Adequate knowledge, 72% participants have Moderate knowledge and 10% participants have Inadequate knowledge related to corona virus, transmission, treatments, prevention and soared in community. after the survey all participants received the correct questionaries' for its email id to improve knowledge and awareness in Nursing students related to corona virus, its transmission, causative organism, spread, treatments and prevention.

REFERENCES

- Akshaya Srikanth Bhagavathula, PharmD, Knowledge and Perceptions of COVID-19 Among Health Care Workers: Cross-Sectional Study, Institute of Public Health, College of Medicine and Health Sciences United Arab Emirates University, Al Ain, Abu Dhabi, 17666, United Arab Emirates, 2020.
- Mohammed Dauda Goni, Assessment of Knowledge, Attitude and Practice towards Prevention of Respiratory Tract Infections among Hajj and Umrah Pilgrims from Malaysia, Published 2019.

- Manli Wang, Xuemei Han, Haiqing Fang, Impact of Health Education on Knowledge and Behaviors toward Infectious Diseases among Students inGansu Province, China, School of Medicine and Health Management, Tongji Medical College, Huazhong University of Sciencesss and Technology, Wuhan, Hubei, China, March 2018.
- Azal Ikhlaq¹, Hunniya Bint-E-Riaz², Imtiaz Bashir³, Farhat Ijaz, Awareness and Attitude of Undergraduate Medical Students Towards 2019-novel Corona Virus, Pakistani General of Medical Sciences, Lahore, Pakistan,2020 May;36(COVID19-S4):S32-S36.doi: 10.12669/pjms.36.COVID19-S4.2636.
- Sahin A, Erdogan A, Mutlu Agaoglu P, Dineri Y, Cakirci A, Senel M, et al. 2019 Novel Coronavirus (COVID-19) Outbreak: A Review of the Current Literature. EJMO. 2020;4:1–7. doi:10.14744/ejmo.2020.12220.
- Egloff MP, Ferron F, Campanacci V, Longhi S, Rancurel C, Dutartre H, et al. The severe acute respiratory syndromecoronavirus replicative protein nsp9 is a single-stranded RNA-binding subunit unique in the RNA virus world. Proceedings of the Nat Acad Sci. 2004;101(11):3792– 3796. doi:10.1073/pnas.0307877101. - PMC - PubMed
- Mahmoud E Elrggal¹, Nedaa A Karami¹, Bushra Rafea¹, Lama Alahmadi¹, Anwar Al Shehri¹, Ruba Alamoudi², Hassan Koshak², Saad Alkahtani³, Ejaz Cheema¹⁴, Evaluation of Preparedness of Healthcare Student Volunteers Against Middle East Respiratory Syndrome Coronavirus (MERS-CoV) in Makkah, Saudi Arabia: A Cross-Sectional Study,Zeitschriff Fur Gesundheitswissenchfin Genaral of Public Health,2018;26(6):607-612. doi: 10.1007/s10389-018-0917-5. Epub 2018 Apr 14.
- Althomairy SA, Baseer MA, Assery M, Alsaffan AD.J Int Soc Prev Community Dent, Knowledge and Attitude of Dental Health Professionals about Middle East Respiratory Syndrome in Saudi Arabia,2018 Mar-Apr;8(2):137-144. doi: 10.4103/jispcd.JISPCD_9_18. Epub 2018 Apr 24.PMID: 29780739
- Alsahafi AJ, Cheng AC, Knowledge, Attitudes and Behaviours of Healthcare Workers in the Kingdom of Saudi Arabia to MERS Coronavirus and Other Emerging Infectious Diseases, Int J Environ Res Public Health. 2016 Dec 6;13(12):1214. doi: 10.339.
- Elrggal ME, Karami NA, Rafea B, Alahmadi L, Al Shehri A, Alamoudi R, Koshak H, Alkahtani S, Cheema E. Version, Evaluation of preparedness of healthcare student volunteers against Middle East respiratory syndrome coronavirus (MERS-CoV) in Makkah, Saudi Arabia: a cross-sectional study, Z Gesundh Wiss. 2018;26(6):607-612. doi: 10.1007/s10389-018-0917-5. Epub 2018 Apr 14.PMID: 30533343.