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# Efficacy of Demonstration on Covid-19 Training on Knowledge Among Final Year Nursing Students of Dr. Achal Singh Yadav Institute of Nursing and Paramedical Sciences, Lucknow

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#### **ABSTRACT**

This study aimed to assess the effectiveness of demonstration on knowledge regarding covid-19 training among final year nursing students of dr. achal singh yadav institute of nursing and paramedical sciences, lucknow. a quanatitave research approach with quasi experimental research design was used to select 37 final year nursing students. self structured knowledge questionnaire was used for assessing the knowledge regarding covid-19 training among the subjects. spss version 25 was used for analyzing the data. result revealed that in pretest no sample had adequate knowledge as compare to post test 32 students had adequate knowledge regarding covid-19 training. the paired t test shows that obtained p value was 0.008 which is less than p value 0.05 reveal that demonstration was effective to bring changes in knowledge regarding covid-19 training among the participants and chisqaure test reveal that there is no significant association with pretest knowledge on covid-19 training and demographic variables of participant except course of study.

KEYWORDS: ASSESS, KNOWLEDGE, DEMONSTRATION ON COVID-19 TRAINING,

FINAL YEAR NURSING STUDENTS

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# INTRODUCTION

Covid-19 pandemic make every thingout of order and control in India results in fast spreading of infection among people which affect the health system too which bring shortage of health team members and mainly in the form of staff nurses. During such crisis government of Uttar Pradesh planned to utilize final year nursing students as a part of health team to reduce such shortage. As a part of such plan government trained faculties of nursing college from assistant professor rank for 1 day at King George medical university in the month of May 2020 and certify them as a trainer of covid-19 and hand over responsibility to them to train all the final year nursing students regarding covid-19 training so that government can utilize such trained students to prevent staff nurse shortages in esteemed government and private hospitals. As a part of such program faculties of Dr. Achal Singh Yadav institute of nursing and paramedical sciences train their final year nursing students regarding covid-19 protocol for 4 days with all needed equipments and assess their knowledge regarding covid-19 training.

# **Objectives:-**

- To assess the existing knowledge regarding covid-19 training among final year Bsc. nursing students.
- To assess the effectiveness of demonstration on covid-19 training.
- To find out the association between pretest knowledge regarding Covid-19 training with selected demographic variables of final year Bsc. nursing students.

#### Hypothesis:-

H0:- There is no significant difference between pretest knowledge and post test knowledge regarding covid-19 training among final year nursing students.

H1:- There is significant difference between pretest knowledge and post test knowledge regarding covid-19 training among final year nursing students.

H0:- There is no significant association between pretest knowledge score regarding covid-19 training with selected demographic variables of final year nursing students.

H2:- There is significant association between pretest knowledge score regarding covid-19 training with selected demographic variables of final year nursing students.

### **Operational definition:-**

- 1. Covid-19 training:- It cover all aspect of protocol regarding Covid-19 training such as donning and doffing of PPE kit, protocol followed in islolation ward while take care of Covid-19 patient, care taken during shifting of Covid-19 patient, protocol followed during testing of person for covid-19 infection, sterilization, disinfection and discarding of article used by Covid-19 patient, care of body after death based on Covid-19 protocol.
- 2. **Final year nursing students:-** In this study final year nursing students are the students studying final year of general nursing and B.sc nursing program.

### Material and method:-

Research approach and design:- Quantitative approach with quasi experimental design used.

**Setting of the study:-** The study was conducted in Dr. AchalsinghYadav institute of nursing and paramedical sciences, Lucknow.

**Study population:** GNM 3<sup>rd</sup> year and Bsc 4<sup>th</sup> year student.

Sample size:- 37

Sampling technique:- probability simple random sampling technique used.

#### Inclusion criteria:-

- The final year nursing students of GNM and Bsc nursing.
- The nursing students who are ready to do Covid-19

#### Exclusion criteria:-

1. Student who are not willing to participate in the study.

The research tool for the data collection consist of two sections:-

# **Section 1:- Demographic variable**

It consist of course of study, Age in year, Gender, Previous knowledge regarding covid-19 training, Staying at, Source of information.

# Section 2:- Structured knowledge questionnaire on covid-19 training.

It consists of 30 items for assessing knowledge among final year nursing students regarding Covid-19. Every items was multiple choice type with one correct answer carrying 1 mark remaining alternative options carry 0 marks. The minimum score is zero and maximum score is thirty. The score was graded as 0-10 inadequate knowledge, 11-20 graded as moderate knowledge and 21-30 graded as good knowledge. Reliability of the tool obtained by intra-class correlation coefficient.

Table 1:- Results of intra-class correlation

Intraclass Correlation Coefficient									
	Intraclass Correlation <sup>b</sup>	95% Confide	F Test with True Value 0						
	intractass correlation	<b>Lower Bound</b>	Bound Upper Bound		df1	df2	Sig		
Single Measures	.054ª Inter	natio026 Jour	nal .105	2.889	36	1044	.000		
Average Measures	.630° of T	rend 445 cient	ific .7792	2.889	36	1044	.000		

Since the obtained value is 63 it is moderate degree positive correlation.

The tool was prepared in hindi and English for the convenience of the participant.

# Data collection procedure:-

Pretest was followed by administration of demonstration on covid-19 training for 4 days by covid-19. After attending the training final year students attended the post 1 week later. Following post test data analyzed and interpreted by using SPSS soft ware.

#### Results:-

The results of the study are as follows:-

**Table 2:- Descriptive statistics** 

Demographic data	frequency	Percentage	
1. Course of study	1	9	
GNM IIIrd year	23	62.2	
BscIVth year	14	37.8	
2. Age in year			
19	1	2.7	
20	5	13.5	
21	14	37.8	
22	9	24.3	
23	8	21.6	
3. Gender			
Male	5	13.5	
Female	32	86.5	
4. Previous knowledge regarding covid-19 training			
Yes	36	97.3	
No	01	2.7	
5. Source of information			
Mass media	20	54.1	
Academic classes	06	16.2	
Online courses	09	24.3	
Other sources	02	5.4	

6. Staying at		
Home	18	48.6
Hostel	19	51.4

Table 3:- Frequency and percentage distribution of final year nursing students based on knowledge level regarding covid-19 training before and after demonstration on covid-19 training.

Vnovelodgo ogono	Frequency (%)			
Knowledge score	Pretest	Post test		
Inadequate knowledge	19	00		
Moderate knowledge	18	05		
Adequate knowledge	00	32		

Table 2:- Depicts that frequency distribution of knowledge level regarding covid-19 training among final year nursing student before and after demonstration session on covid-19 training reveal that in pretest 19 students had inadequate knowledge, 18 students had moderate knowledge and no one had adequate knowledge and in post test 32 students had adequate knowledge, 05 had moderate knowledge and no one had inadequate knowledge regarding covid-19 training.

To find out the effectiveness of demonstration on covid-19 training by using paired t test and results are as follows:-Null hypothesis:- There is no significant difference between pretest and post test knowledge score regarding covid-19 trianing among final year nursing students.

Hypothesis 1:- There is significant difference between pretest and post test knowledge score regarding covid-19 training among final year nursing students.

Test	N	MEAN	MINIMUM SCORE	MAXIMUM SCORE	RANGE	SD	<b>Obtained P value</b>	Inference
Pretest	37	11	03	19	16	4.170	0.000	Effortive
Post test	37	22.92	16	29	13	3.077	0.008	Effective

The obtained value is 0.008 which is less than p value 0.05 hence reject the null hypothesis, so there is significant difference in regarding pretest and post test knowledge score regarding covid-19 training among final year nursing students; ie covid-19 training session was effective to improve knowledge among final year nursing students.

# To find out the association between pretest knowledge score with selected demographic variables of final year nursing students

H0:- There is no significant association between pretest knowledge score regarding covid-19 training with selected demographic variables of final year nursing students. Research and

H2:- there is significant association between pretest knowledge score regarding covid-19 training with selected demographic variables of final year nursing students.

Demographic data	frequency	Inadequate knowledge	Moderate knowledge	Adequate knowledge	Obtained p value	inference
1. Course of study	N 3th		11/3			
GNM IIIrd year	23	15	08	00	024	C
BscIVth year	14	04	10	00	.031	S
2. Age in year		All Dr				
19	1	01	00	00		
20	5	04	01	00	225	NC
21	14	06	08	00	.335	NS
22	9	03	06	00		
23	8	05	03	00		
3. Gender						
Male	5	03	02	00	.547	NS
Female	32	16	16	00		
4. Previous knowledge						
regarding covid-19 training	224	NC				
Yes	36	18	18	00	.324	NS
No	01	01	00	00		
5. Source of information						
Mass media	20	11	09	00		
Academic classes	06	02	04	00		
Online courses	09	05	04	00		
Other sources	02	01	01	00	.813	NS
6. Staying at						
Home	18	11	07	00	240	NC
Hostel	19	08	11	00	.248	NS

Demonstration on knowledge regarding covid-19 training among final year nursing students was effective. This study also noticed that there is no association between pretest knowledge regarding covid-19 training with their demographic variables except course of the study. This study is limited to final year nursing students of Dr. AchalsinghYadav institute of nursing and paramedical sciences, Lucknow who are willing to join covid-19 duty in selected hospital by government order during covid-19

pandemic in India. There is an immense need to implement such demonstration classes regarding covid-19 practice across all the nursing colleges to prevent such students get infected with covid-19 during their duty and they can had competency of practice.

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