A Study to assess the Knowledge of Trainee Student Nurses about Covid-19 JN-1 Variant in Selected Nursing Institutions of Bihar

Indra Mani Mishra

Abstract

Trainee Student Nurses are an important part of Health care. They are under training and going to nurse, and serve the patients. Covid-19 JN-1 variant have alerted the world for a new pandemic. So it is important to assess the knowledge of Trainee Student Nurses regarding Covid-19 JN-1 variant of Corona Virus.

Context: I want to investigate:

- Course and year wise knowledge assessment of Trainee students Nurses.
- Knowledge assessment of students based on types of Nursing institutions where they are studying.

Aims: To assess knowledge of Trainee Student Nurses regarding Covid-19 JN-1 Variant.

Settings and Design: In this study, I have queried self-developed questionnaires to 310 Trainee Student Nurses.

Methods and Material: Questionnaire technique is used to collect relevant data from Trainee Student Nurses of selected Nursing institutions of Bihar. *Online link was prepared and shared to Nursing Institutions. Those who have put yes as a consent for participation were included in this survey.*

Statistical Analysis Used:

Parameters against which questionnaire was examined are as follows:

- Information regarding Covid-19 JN.1 Virus among trainee students nurses.
- Importance of public health measures to mitigate the impact of Covid-19 JN.1 variant.
- Students attended CNE/workshop/training/educational classes regarding this variant of corona.

Results:

- Out of 310 sample, 63.2% GNM students, 29.7% ANM students, 5.2% B.Sc Nursing Students and 1.9% Post Basic B.Sc Nursing students have participated in this survey.

- 85.5% students were heard about Covid-19 JN.1 variant before taking this survey and 14.5% students had not heard about Covid-19 JN.1 variant.

- 69.4% Nursing students were heard about Covid-19 JN.1 variant from News papers, News channels, social media such as whats up, facebook, Instagram, Twitter, Youtube, Colleagues/Friends/Relatives.

Author's Affiliations: Principal Incharge, GNM School, Darbhanga Medical College and Hospital, Darbhanga 846003, Bihar, India.

Corresponding Author: Indra Mani Mishra, Principal Incharge, GNM School, Darbhanga Medical College and Hospital, Darbhanga 846003, Bihar, India.

E-mail: mishrasmart2015@gmail.com

Received on: 23-01-2024   **Accepted on:** 22-02-2024

11.3% students have heard about Covid-19 JN.1 variant from Social media such as What's up, Facebook, Instagram, Twitter. 7.4% students were heard about Covid-19 JN.1 variant from News channel. 4.8% students were heard about Covid-19 JN.1 variant from News paper. 3.9% students were heard about Covid-19 JN.1 variant from Colleagues/ Friends/Relatives. 3.2% students were heard about Covid-19 JN.1 variant from YouTube.

- 77.4% students are aware of the potential impact of the Covid-19 JN.1 Variant on public health while 22.6% students are not aware of the potential impact of the Covid-19 JN.1 Variant on public health.

- 50.6% students informed that they have not cared a suspected or confirmed cases of Covid-19 JN.1 Variant while 49.4% students informed that they have cared a suspected or confirmed cases of Covid-19 JN.1 Variant.

- 57.1% students think that Covid-19 JN.1 Variant infection is more common in critically ill COVID-19 patient, 13.9% students think that Covid-19 JN.1 Variant infection is more common in critically ill COVID-19 patient, and 13.9% students think that Covid-19 JN.1 Variant infection is more common in critically ill COVID-19 patient.

- 53.2% students think that local healthcare system is well-prepared to handle cases related to the Covid-19 JN.1 Variant, 22.6% students think that local healthcare system is not well-prepared to handle cases related to the Covid-19 JN.1 Variant and 24.2% students think that local healthcare system maybe well-prepared to handle cases related to the Covid-19 JN.1 Variant.

- 68.4% students are confident in the scientific community's ability to monitor and address the Covid-19 JN.1 Variant effectively, 15.5% students are not confident in the scientific community's ability to monitor and address the Covid-19 JN.1 Variant effectively, and 16.1% students are confident that scientific community's may be able to monitor and address the Covid-19 JN.1 Variant effectively.

- 78.1% students believe that inter - national collaboration is crucial in managing the spread of the Covid-19 JN.1 Variant, 6.1% students believe that international collaboration is not crucial in managing the spread of the Covid-19 JN.1 Variant, and 15.8% students believe that international collaboration may be crucial in managing the spread of the Covid-19 JN.1 Variant.

- 79% students believe that they will support additional public health measures to mitigate the impact of the Covid-19 JN.1 Variant, 6.1% students believe that they will not support additional public health measures to mitigate the impact of the Covid-19 JN.1 Variant and 14.8% students believe that they may support additional public health measures to mitigate the impact of the Covid-19 JN.1 Variant.

- 43.2% students have not attended any CNE/ Workshop/ Training/educational classes regarding Covid-19 JN.1 Variant, while 56.8% students have not attended any CNE/ Workshop/ Training/educational classes regarding Covid-19 JN.1 Variant.

Conclusions

- Easy accessibility and affordability of Mobiles play an important role in mobile addiction.

- Less availability of time spend by parents with their children and involvement of both parents are the main reasons behind mobile addiction.

Keywords: Covid-19 JN.1 Variant.

Key Messages: Trainee Students Nurses should be aware about emergence of any infectious diseases and they should get regular update about any new emerging variants so that better Nursing care can be given in the hospital and they can make people aware about new variants in the community also. Eriatibu scimust.

INTRODUCTION

Trainee Student Nurses are an important part of Health care. They are under training and going to nurse, and serve the patients. Covid-19 JN-1 variant have alerted the world for a new pandemic. So it is important to assess the knowledge of Trainee Student Nurses regarding Covid-19 JN-1 variant of Corona Virus. Both male and female Nursing students pursuing different Nursing courses of different years, and different types (Government,

Private) were included in this survey.

MATERIALS AND METHODS

Study Design

Research Approach: Qualitative method is used in this study.

Variables:

- *Independent Variables:* Trainee Nursing students.

- *Dependent Variables*: Age, Gender, Course, Year of Study, Types of Institution.

- *Demographic Variables:* Age, Gender, Education.

Setting: Online link was developed for survey purpose.

Duration of Study: 26 Days (25/12/2023 to 19/01/2024).

Sample Size: 310

Sampling Technique: Non probability, convenient sampling technique is used in this study.

Sample Selection

Those trainee student Nurses who were interested and willing to participate were included in this survey.

Exclusion Criteria

- Students other than Trainee students Nurses.
- Students from different districts.

Limitation / Inclusion Criteria

- Trainee students Nurses.
- Those trainee students Nurses who were willing to participate.
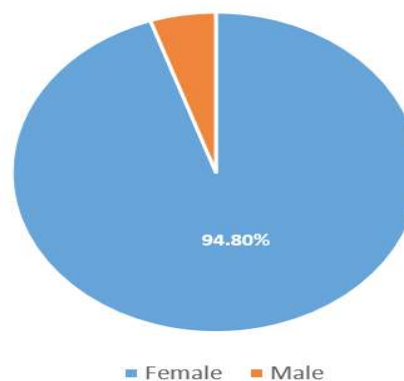
Data Collection Procedures

- Questionnaire technique via online link was used to collect data from the participants.
- Online link was prepared and shared to HODs/ Principals, Owners of Nursing Institutions and request was sent to share link to their students for participation in this survey.
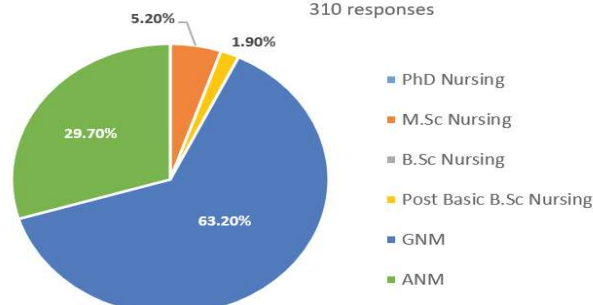
RESULTS

- Out of 310 Participants, 94.8% female students have participated and 5.2% male students have participated in survey.

Gender
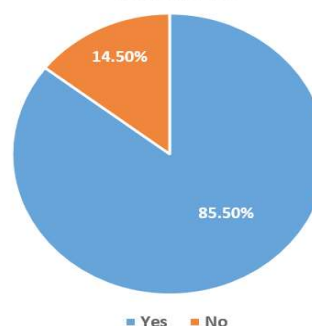310 responses

94.80%

■ Female ■ Male

- Out of 310 sample, 63.2% GNM students, 29.7% ANM students, 5.2% B.Sc Nursing Students and 1.9% Post Basic B.Sc Nursing students have participated in this survey.

Name of your Pursuing course
310 responses

5.20%   1.90%
29.70%
63.20%

■ PhD Nursing
■ M.Sc Nursing
■ B.Sc Nursing
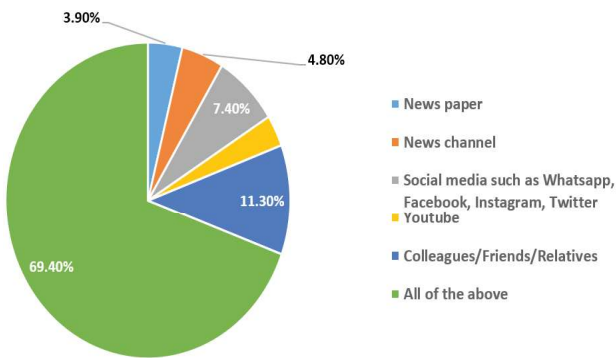■ Post Basic B.Sc Nursing
■ GNM
■ ANM

- 85.5% students were heard about Covid-19 JN.1 variant before taking this survey and 14.5% students had not heard about Covid-19 JN.1 variant.

1. Have you heard about Covid-19 JN.1 Variant before taking this survey?
310 responses
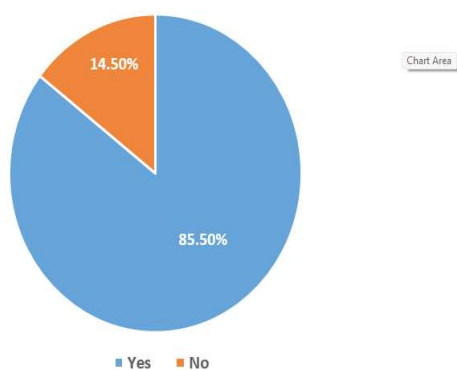
14.50%

85.50%

■ Yes ■ No

- 69.4% Nursing students were heard about Covid-19 JN.1 variant from News papers, News channels, social media such as whats up, facebook, Instagram, Twitter, You tube, Colleagues/Friends/Relatives. 11.3% students have heard about Covid-19 JN.1 variant from Social media such as What's up, Facebook, Instagram, Twitter. 7.4% students were heard about Covid-19 JN.1 variant from News channel. 4.8% students were heard about Covid-19 JN.1 variant from News paper. 3.9% students were heard about Covid-19 JN.1 variant from Colleagues/ Friends/Relatives. 3.2% students were heard about Covid-19 JN.1 variant from YouTube.

2. Where didi you heard about Covid-19 JN.1 Variant? (Source of information)?
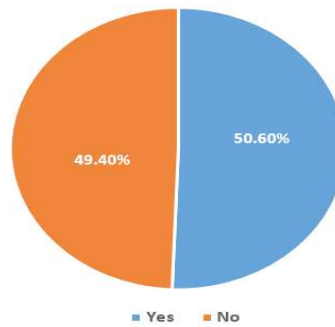310 responses

- 77.4% students are aware of the potential impact of the Covid-19 JN.1 Variant on public health while 22.6% students are not aware of the potential impact of the Covid-19 JN.1 Variant on public health.

3. Are you aware of the potential impact of the Covid-19 JN.1 Variant on public health?
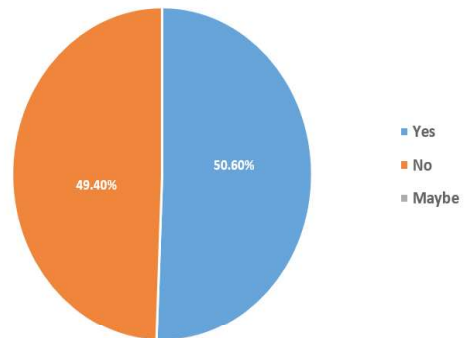310 responses

- 50.6% students informed that they have not cared a suspected or confirmed cases of Covid-19 JN.1 Variant while 49.4% students informed that they have cared a suspected or confirmed cases of Covid-19 JN.1 Variant.

5. Have you cared a suspected or confirmed cases of Covid-19 JN.1 Variant?
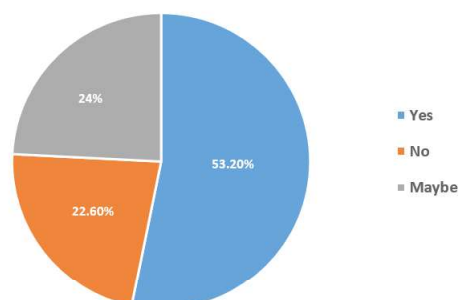310 responses

- 57.1% students think that Covid-19 JN.1 Variant infection is more common in critically ill COVID-19 patient, 13.9% students think that Covid-19 JN.1 Variant infection is more common in critically ill COVID-19 patient, and 13.9% students think that Covid-19 JN.1 Variant infection is more common in critically ill COVID-19 patient.

7. Do you think that the Covid-19 JN.1 Variant infection is more common in critically ill COVID-19 patient
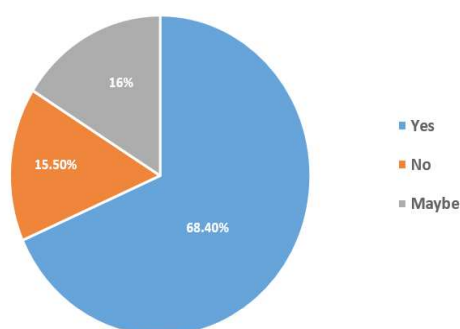310 responses

- 53.2% students think that local healthcare system is well-prepared to handle cases related to the Covid-19 JN.1 Variant, 22.6% students think that local healthcare system is not well-prepared to handle cases related to the Covid-19 JN.1 Variant and 24.2% students think that local healthcare system maybe well-prepared to handle cases related to the Covid-19 JN.1 Variant.

7. Do you think your local healthcare system is well-prepared to handle cases related to the Covid-19 JN.1 Variant?
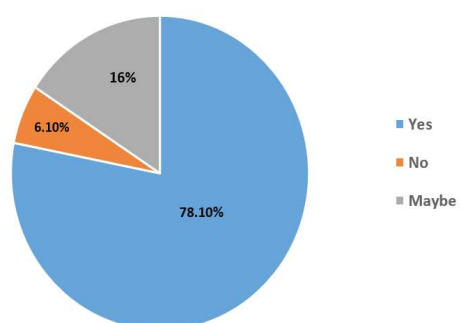310 responses

- 68.4% students are confident in the scientific community's ability to monitor and address the Covid-19 JN.1 Variant effectively, 15.5% students are not confident in the scientific community's ability to monitor and address the Covid-19 JN.1 Variant effectively, and 16.1% students are confident that scientific community's may be able to monitor and address the Covid-19 JN.1 Variant effectively.

10. Are you confident in the scientific community's ability to monitor and address the Covid-19 JN.1 Variant effectively?
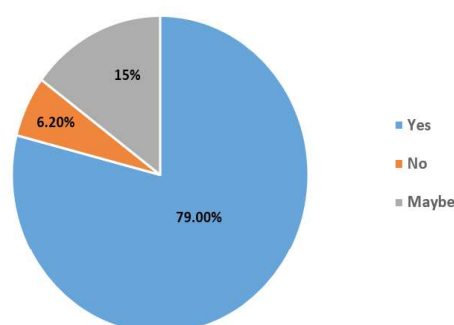310 responses

- 78.1% students believe that international collaboration is crucial in managing the spread of the Covid-19 JN.1 Variant, 6.1% students believe that international collaboration is not crucial in managing the spread of the Covid-19 JN.1 Variant, and 15.8% students believe that international collaboration may be crucial in managing the spread of the Covid-19 JN.1 Variant.

11. Do you believe that international collaboration is crucial in managing the spread of the Covid-19 JN.1 Variant?
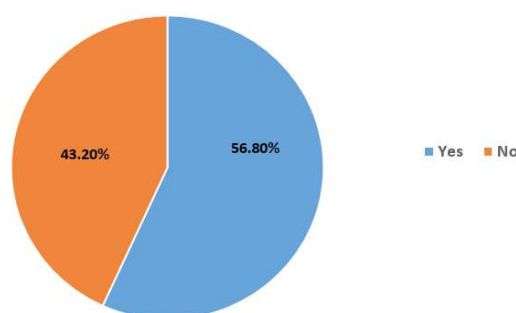310 responses

- 79% students believe that they will support additional public health measures to mitigate the impact of the Covid-19 JN.1 Variant, 6.1% students believe that they will not support additional public health measures to mitigate the impact of the Covid-19 JN.1 Variant and 14.8% students believe that they may support additional public health measures to mitigate the impact of the Covid-19 JN.1 Variant.

12. Would you support additional public health measures to mitigate the impact of the Covid-19 JN.1 Variant?
310 responses

- 43.2% students have not attended any CNE/ Workshop/ Training/ educational classes regarding Covid-19 JN.1 Variant, while 56.8% students have not attended any CNE/ Workshop/ Training/ educational classes regarding Covid-19 JN.1 Variant.

12. Have you attended any CME/ Workshop/Training/education classes regarding Covid-19 JN.1 Variant?
310 responses

DISCUSSION

This survey basically aims to show the importance of updated knowledge regarding new emerging infectious diseases for trainee student nurses and by doing so health care sector can be boosted by these student nurses in both hospital and community level.

CONCLUSION

In conclusion, our study exclusively confirms following points:

- Trainee students nurses are the future health care members and they need to be updated in each and every aspect of information related to infections, emerging diseases, new variants and to understand their cause and effect relationship.

REFERENCES

1. bnrc.springeropen.com
2. www.researchgate.net
3. www.thelancet.com
4. www.scienceopen.com
5. www.publichealth.jhu.edu
6. www.cdc.gov
7. www.cnn.com
8. www.msn.com
9. www.cidrap.umn.edu
10. www.bmj.com
11. www.indiatoday.in
12. www.gavi.org
13. www.dhakatribune.com
14. www.webmed.com