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Himanshi Chouhan
Suretech College of Nursing,
Nagpur, Maharashtra, India

Shilpa Borkar
Suretech College of Nursing,
Nagpur, Maharashtra, India

Snehal Badge
Suretech College of Nursing,
Nagpur, Maharashtra, India

Aniket Patange
Suretech College of Nursing,
Nagpur, Maharashtra, India

Mercy Anjore
Suretech College of Nursing,
Nagpur, Maharashtra, India

Corresponding Author:
Mercy Anjore
Suretech College of Nursing,
Nagpur, Maharashtra, India

A descriptive study to assess the knowledge regarding covid 19 and its management of pregnant women among final year graduate nursing students in selected nursing colleges at Nagpur city

Himanshi Chouhan, Shilpa Borkar, Snehal Badge, Aniket Patange and Mercy Anjore

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Abstract

Introduction: COVID-19 is a new respiratory infection that started from Wuhan Province in China and rapidly became widespread in all parts of the world, making the WHO call it “the pandemic of the century”. Pregnant women are more susceptible to developing severe cases of COVID-19. SARS also belongs to the same family of COVID-19, with 25% case fatality rate during pregnancy and various prenatal complications.

Aim: To assess the knowledge regarding covid-19 and its management of pregnant women among the final year graduate nursing students in selected and nursing college at Nagpur city.

Method: Qualitative research approach and non experimental descriptive research design was used for the study.

Sample: The sample was selected using the non probability convenience sampling technique. A sample, of 60 final year graduate nursing students in selected college at city.

Result and Conclusion: The knowledge regarding covid-19 and its management of pregnant women among the final year graduate nursing students, 0% students had poor knowledge, 33 students had average knowledge, 63.33 students had good knowledge and 0 had very good knowledge and 3.33 student having excellent knowledge. Chi square test is used to assess the significant association between demographic variables that is age, gender, residence, previous knowledge, source of information and previous experience of giving care to covid-19 positive ANC mother.

Keywords: study, asses, covid-19 pregnant women, management, information booklet

Introduction

COVID-19 is a new respiratory infection that started from Wuhan Province in China and rapidly became widespread in all parts of the world, making the WHO call it “the pandemic of the century”. Pregnant women are more susceptible to developing severe cases of COVID-19. SARS also belongs to the same family of COVID-19, with 25% case fatality rate during pregnancy and various prenatal complications.

Research Statement

A descriptive study to assess the knowledge regarding Covid 19 and its management of pregnant women among final year graduate nursing students in selected colleges at Nagpur city with a view to develop an information booklet.

Background of Study

Pregnancy is a special time full of excitement and anticipation. But for expectant mothers facing the outbreak of the corona virus disease (COVID-19), fear, anxiety and uncertainty are clouding this otherwise happy time. The COVID- 19 virus has not been found in vaginal fluid, in cord blood or breast milk,” says Cadée, although information is still emerging. To date, COVID-19 has also not been detected in amniotic fluid or the placenta.

Need of Study

The effect of COVID-19 infection on pregnancy is not completely known because of the lack of reliable data. If there is increased risk to pregnant women and fetuses, so far it has not been readily detectable.

Objectives

- 1) To assess the knowledge regarding COVID 19 and its management of pregnant women among the final year graduate nursing students in selected colleges at Nagpur City.
- 2) To find out the association between knowledge of final year graduate nursing students with selected demographic variables.

- 3) To develop an information booklet on COVID 19 and its management of pregnant women.

Assumptions

- 1) College students may have some knowledge regarding covid 19 and its management of pregnant women.
- 2) Knowledge may vary from one person to another person.

Conceptual Framework

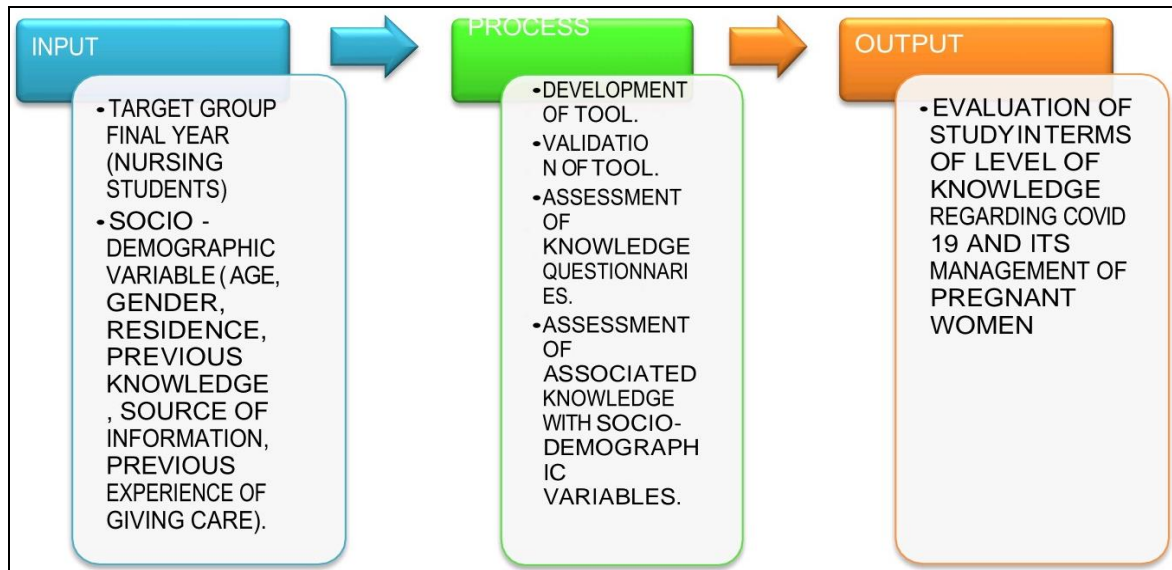


Fig 1: Flow chart of conceptual framework shows general system theory according to our study.

Review of Literature

The relevant literature to the selected topic for research project i.e. COVID-19 and its management of pregnant women. Review of literature collected and divided under following headings.

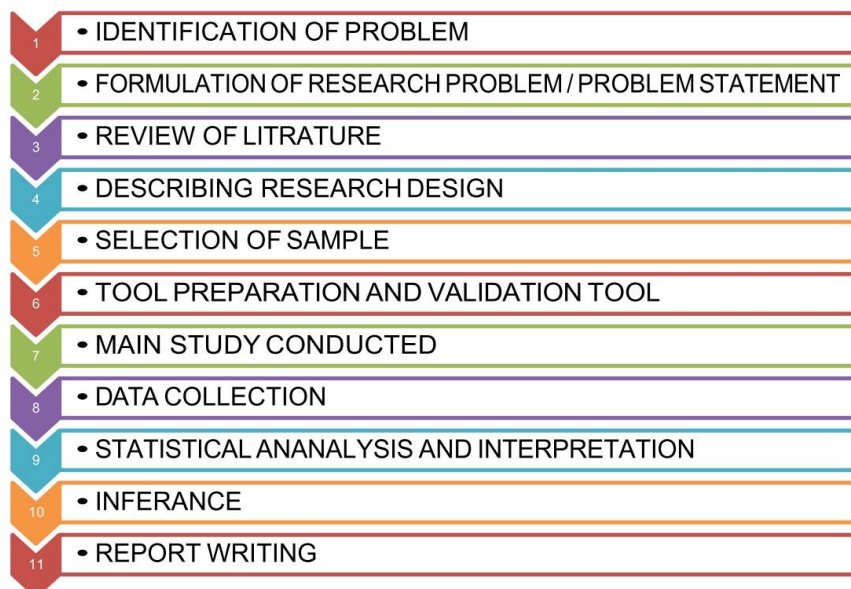
1. International studies related to COVID-19 and its management of pregnant women.
2. National studies related to COVID-19 and its management of pregnant women

A prospective study on Antenatal care during COVID- 19 pandemic which was conducted at the Antenatal clinic. A

total of 40 antenatal cases selected for the study. Majority of the pregnant women in the study group were primi-gravidas and belonged to the age group of 21-25 years. They were called for Antenatal check-ups -80% of the deliveries in present study were normal delivery and only in obstetric emergencies LSCS was performed. The Study reveals that Antenatal care in COVID-19 pandemic is challenging yet essential. Following a protocol based approach is the key to management of Antenatal care amidst the pandemic. It is cost-effective and has an easy learning curve.

Research Methodology

Table 2: Schematic representation of study desing



Data Analysis and Interpretation

Organisation of the Study Finding

The collected data is analyzed on the basis of the objectives of the study in the following ways:

Section 1: Description on frequency and percentage wise distribution of baseline data.

Section 2: Description of score of knowledge regarding covid 19 and it's management of pregnant women

Section 3

a) Description on frequency, mean and percentage of knowledge regarding covid 19 and it's management of pregnant women.

b) Chi- square test is used to find out the association between demographic variables and knowledge regarding covid-19 and its management of pregnant women

Section 1

Section 1: Description on frequency and percentage wise distribution of baseline data.

| Sr. No. | QUESTIONS | | FREQUENCY | PERCENTAGE |
|---------|---|----------------------|-----------|------------|
| 1 | AGE | | | |
| | a. | 20 | 0 | 0% |
| | b. | 21 | 16 | 26.67% |
| | c. | 22 | 27 | 45% |
| | d. | 23 | 17 | 28.33% |
| 2 | GENDER | | | |
| | a. | Male | 19 | 31.66% |
| | b. | Female | 41 | 68.33% |
| 3 | RESIDENCE | | | |
| | a. | Urban | 47 | 78.33% |
| | b. | Rural | 12 | 20% |
| | c. | Tribal | 0 | 0% |
| | d. | Slum | 1 | 1.66% |
| 4 | PREVIOUS KNOWLEDGE | | | |
| | a. | Yes | 56 | 93.33% |
| | b. | No | 4 | 6.66% |
| 5 | SOURCE OF INFORMATION | | | |
| | a. | Health organization | 10 | 17.85% |
| | b. | Family members | 5 | 8.92% |
| | c. | Mass media | 20 | 35.71% |
| | d. | Health professionals | 21 | 37.50% |
| 6 | PREVIOUS EXPERIENCE OF GIVING CARE TO COVID-19 POSITIVE MOTHER | | | |
| | a. | Yes | 24 | 40% |
| | b. | No | 36 | 60% |

Section 2: Description of score of knowledge regarding covid 19 and it's management of pregnant women

| Sr. No. | Knowledge regarding COVID 19 and its management of pregnant women | Frequency | Percentage |
|---------|---|-----------|------------|
| 1 | Poor | 0 | 0 % |
| 2 | Average | 15 | 25 % |
| 3 | Good | 41 | 68.33 % |
| 4 | Very good | 3 | 5 % |
| 5 | Excellent | 1 | 1.66 % |

Section 3 (A): Description on frequency, mean and percentage of knowledge regarding covid 19 and it's management of pregnant women

| Sr. no. | KNOWLEDGE REGARDING COVID 19 AND ITS MANAGEMEN T OF PREGNANT WOMEN | FREQUENCY | PERCENTAGE | MEAN | MEAN PERCENTAGE | SD |
|---------|--|-----------|------------|-------|-----------------|------|
| 1 | Poor | 0 | 0% | 24.38 | 48.76 % | 5.84 |
| 2 | Average | 15 | 25 % | | | |
| 3 | Good | 41 | 68.33 % | | | |
| 4 | Very good | 3 | 5 % | | | |
| 5 | Excellent | 1 | 1.66 % | | | |

Section 3 (B): Chi- square test is used to find out the association between demographic variables and knowledge regarding covid-19 and its management of pregnant women

| SR. NO. | QUESTION | FRE | POOR | AVG | GOOD | VERY GOOD | EXCELL ENT | DF | CHI SQ. TEST | TABLE VALUE P>0.05 | SIGNIFIC ANCE | |
|---------|--|----------------------|------|-----|------|-----------|------------|----|--------------|--------------------|---------------|---|
| 1 | AGE | | | | | | | 3 | 1.19 | 0.878 | Significant | |
| | a | 20 | 0 | 0 | 0 | 0 | 0 | | | | | |
| | b | 21 | 16 | 0 | 3 | 13 | 0 | | | | | 0 |
| | c | 22 | 27 | 0 | 6 | 19 | 2 | | | | | 0 |
| | d | 23 | 17 | 0 | 6 | 10 | 0 | | | | | 1 |
| 2 | GENDER | | | | | | | 41 | 13 | 0.9969 | Significant | |
| | a | Male | 19 | 0 | 8 | 10 | 0 | | | | | 1 |
| | b | Female | 41 | 0 | 7 | 32 | 2 | | | | | 0 |
| 3 | RESIDENCE | | | | | | | 13 | 2.44 | 0.878 | Significant | |
| | a | Urban | 47 | 0 | 10 | 34 | 2 | | | | | 1 |
| | b | Rural | 12 | 0 | 5 | 7 | 0 | | | | | 0 |
| | c | Tribal | 0 | 0 | 0 | 0 | 0 | | | | | 0 |
| | d | Slum | 1 | 0 | 1 | 0 | 0 | | | | | 0 |
| 4 | PREVIOUS KNOWLEDGE | | | | | | | 1 | 1.42 | 0.9969 | Significant | |
| | a | Yes | 56 | 0 | 15 | 38 | 2 | | | | | 1 |
| | b | No | 4 | 0 | 0 | 4 | 0 | | | | | 0 |
| 5 | SOURCE OF INFORMATION | | | | | | | 1 | 2.85 | 0.9969 | Significant | |
| | a | Health organization | 10 | 0 | 4 | 6 | 0 | | | | | 0 |
| | b | Family members | 5 | 0 | 0 | 5 | 0 | | | | | 0 |
| | c | Mass media | 20 | 0 | 6 | 13 | 1 | | | | | 0 |
| | d | Health professionals | 21 | 0 | 5 | 14 | 1 | | | | | 1 |
| 6 | PREVIOUS EXPERIENCE OF GIVING CARE TO COVID- 19 POSITIVE AND MOTHER | | | | | | | 1 | 2.85 | 0.9969 | Significant | |
| | a | Yes | 24 | 0 | 8 | 15 | 1 | | | | | 0 |
| | b | No | 36 | 0 | 7 | 27 | 1 | | | | | 1 |

Discussion

To assess the knowledge regarding covid-19 and its management of pregnant women among the final year graduate nursing students in selected colleges at Nagpur city.

Structured questionnaire was used to find out the knowledge regarding covid- 19 and its management of pregnant women among the final year graduate nursing students the data reveals that final year graduate nursing students, 0%(0) of students were poor knowledge, 25%(15) of students were average knowledge, 68.33%(41) of students were good knowledge and 5%(3) of students were very good knowledge and 1.66%(1) of student were excellent knowledge.

Finding supposed by the study conducted on knowledge regarding covid-19 and its management of pregnant women among final year graduate nursing students in selected colleges at Nagpur city work conducted at shorter College of Nursing, Nagpur and Asharam College of Nursing Nagpur. The study aims to assess the knowledge regarding covid-19 and its management of pregnant women among the final year graduate nursing students and sample size was 60. To find out the association between knowledge of final year graduate nursing students with selected demographic variables.

The association between knowledge regarding covid-19 and its management of pregnant women among the final year graduate nursing students and with selected demographic variables was calculated by using chi square test and it was found there is significant association between sociodemographic variables that is age, gender, residence, previous knowledge regarding covid-19 and its management of pregnant, source of information and previous experience of giving care to covid-19 positive ANC mother.

To develop an information booklet on covid-19 and its management of pregnant women.

Information booklet on covid-19 and its management of pregnant woman were been developed based on knowledge scored by the student it on self-structured questionnaire.

Result

The knowledge regarding covid-19 and its management of pregnant women among the final year graduate nursing students, 0% students had poor knowledge, 33 students had average knowledge, 63.33 students had good knowledge and 0 had very good knowledge and 3.33 student having excellent knowledge. Chi square test is used to assess the significant association between demographic variables that is age, gender, residence, previous knowledge, source of information and previous experience of giving care to covid-19 positive ANC mother.

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