

**" A STUDY TO ASSESS THE KNOWLEDGE OF GNM STUDENTS
REGARDING PREVENTION AND MANAGEMENT OF DENGUE AT
SMT. NAGARATHNAMMA COLLEGE OF NURSING BENGALURU"**



By

Ms. Sonas Sabu

Mr. Jibin Babu

Mr. Mohamed Hanood sayyid

IV Year B.Sc Nursing (2020-2024)

Research project submitted to

SMT. Nagarathnamma College of Nursing

Under the guidance of

Dr. Vijayamalar S

Professor

HOD of Community Health Nursing

Smt. Nagarathnamma College of Nursing

Acharya Institute, Dr. Sarvepalli Radhakrishnan Road

Soldevanahalli, Bengaluru-560107

2020-2024

“ A STUDY TO ASSESS THE KNOWLEDGE OF GNM STUDENTS REGARDING PREVENTION AND MANAGEMENT OF DENGUE AT SMT. NAGARATHNAMMA COLLEGE OF NURSING BENGALURU”



BY;

Ms. Sonas Sabu

Mr. Jibin Babu

Mr. Mohamed Hanood Sayyid

Dissertation submitted to the

**RAJIV GANDHI UNIVERSITY OF HEALTH SCIENCES,
BENGALURU, KARNATAKA**

**In partial fulfilment of the requirement for the degree of
BACHELOR OF SCIENCE IN NURSING**

Under the guidance of

Dr Vijayamalar S

Professor

**HOD of Community Health Nursing
Smt. Nagarathnamma College of Nursing
Bengaluru – 560107**

2020 - 2024

DECLARATION BY THE CANDIDATE

I hereby declare that this project entitled "**A study to assess the knowledge of GNM students regarding prevention and management of dengue at SMT. Nagarathamma college of nursing**" is a bonafide and genuine research work carried out by Ms.Sona s Sabu, Mr. Jibin Babu

Mr.Mohamed Hanood ,the guidance of **Dr Vijayamalar S** Professor, Community Health Nursing, Smt. Nagarathamma College of Nursing, 69/80, Acharya Dr Sarvepalli Radhakrishnan Road, Soladevanahalli, Bangalore560107.

Date:

Place: Bengaluru

Signature of the Students

Ms.Sona s Sabu

Mr. Jibin Babu

Mr. Mohamed Hanood Sayyid

CERTIFICATE BY THE GUIDE

This is to certify that this project work entitled "**A STUDY TO ASSESS THE KNOWLEDGE OF GNM STUDENTS REGARDING PREVENTION AND MANAGEMENT OF DENGUE AT SMT. NAGARATHNAMMA COLLEGE OF NURSING, BENGALURU**" is a Bonafide and genuine research work carried out by Ms. Sona s Sabu, Mr. Jibin Babu Mr. Mohamed Hanood Sayyid in partial fulfilment of the requirement for the basic BSc. Nursing,

Date

Place: Bangalore

Signature of the Guide

Dr Vijayamalar S

Professor

HOD of community Health Nursing

Smt. Nagarathnamma college of Nursing

**ENDORSEMENT BY THE PRINCIPAL//HEAD OF THE
INSTITUTION**

This is to certify that the research project entitled "**A Study to assess the knowledge of GNM students regarding prevention and management of dengue at SMT. Nagaratnamma college of Nursing, Bengaluru**" is a Bonafide research work done by Ms. Sona s Sabu, Mr. Jibin Babu,

Mr. Mohamed Hanood Sayyid , as a partial fulfilment of the requirement for the degree Bachelor of Science in Nursing under the guidance of **Dr. Vijayamalar S**, Professor Department of Community Health Nursing, Smt. Nagarathnamma College of Nursing.

Date:

Place: Bengaluru.

Seal and Signature of principal

Prof. Devi Nanjappan

Principal and HOD

Smt. Nagaratnamma College
of Nursing

ACKNOWLEDGEMENT

"Glory to the GOD Almighty"

We thank our lord Almighty for his abundant grace and blessings during the entire course of study and completion of this work.

Our sincere gratitude to **Sri Premnath Reddy, Chairman, JMJ Trust and Smt. Shalini Reddy, Director of admissions, JMJ Trust and Mr. Krishna Bhasani Managing Director** for giving us all state of the art facilities, constant support, and encouragement for accomplishing our project work in this esteemed institution.

Our sincere gratitude to **Prof. Devi Nanjappan, Principal, Smt. Nagarathamma College of Nursing** her guidance and support. We express our thanks and gratitude to **Prof. Snehalatha Reddy, Vice Principal, Smt. Nagarathamma College of Nursing** for her constant encouragement and support to carry out the study.

This research study undertaken by us has been carried out and completed under the profound guidance of **Dr. Vijayamalar S, Professor, HOD of Community Health Nursing, Smt. Nagarathamma College of Nursing**, we are grateful for her constant guidance and encouragement throughout the study. Her tireless effort made our dream a reality.

We thank the **librarian Mrs. Sheela** for her co-operation during the project.

We are highly obliged to all the faculty of Smt. Nagarathamma College of Nursing and specially to our class coordinator **Mrs. Ramya B, Assistant Professor**.

We are grateful to all those who have directly or indirectly helped us in completion of this study.

Date:

Place: Bangalore

Signature of the candidates

Ms. Sona s Sabu

Mr. Jibin Babu

Mr. Mohamed Hanood Sayyid

ABSTRACT

STATEMENT OF THE PROBLEM

A Study to Assess the Knowledge of GNM Students Regarding Prevention and Management of Dengue at SMT. Nagarathamma College of Nursing, Bengaluru

BACKGROUND OF THE STUDY :

Dengue is a significant public health concern in tropical regions, including India. Effective prevention and management require adequate knowledge, especially among healthcare professionals. This study aimed to assess the knowledge of General Nursing and Midwifery (GNM) students regarding dengue prevention and management and identify factors influencing their knowledge levels.

OBJECTIVES :

1. To evaluate the knowledge of GNM students about the causative organism, transmission, and risk factors of dengue.
2. To assess their understanding of clinical manifestations, complications, and treatment protocols.
3. To analyze their awareness of vector control strategies.
4. To identify demographic factors influencing their knowledge.

METHODS :

A descriptive cross-sectional study was conducted among 60 GNM students at SMT. Nagarathamma College of Nursing, Bengaluru. A stratified random sampling technique was used to ensure proportional representation. Data were collected using a structured questionnaire, comprising 10 demographic variables and 30 knowledge-based questions. The tool's validity and reliability were established through expert review and a pilot study (Cronbach's $\alpha = 0.85$). Data analysis included descriptive and inferential statistics.

RESULTS :

- The majority of participants (56.7%) had moderate knowledge, while 30% demonstrated good knowledge, and 13.3% had poor knowledge.
- Domain-wise analysis showed the highest knowledge in causation and transmission (72.5%) and the lowest in prevention strategies (65.0%).
- Significant associations were observed between knowledge levels and demographic variables such as age

($p = 0.045$), academic year ($p = 0.021$), and previous exposure to dengue cases ($p = 0.010$).

INDEX

S. NO	CONTENT	PAGE NO
1.	INTRODUCTION	11-15
2.	OBJECTIVES	16-19
3.	REVIEW OF LITERATURE	20-22
4.	METHODOLOGY	23-26
5.	RESULT	27-35
6.	DISCUSSION	36-38
7.	CONCLUSION	39-41
8.	SUMMARY	42-43
9.	BIBLIOGRAPHY	44-46
10.	ANNEXURE	47-58

LIST OF TABLE

S.NO	CONTENT	PG.NO
1.	FREQUENCY AND PERCENTAGE OF RESPONDENTS ACCORDING TO THEIR AGE GROUPS	28
2.	FREQUENCY AND PERCENTAGE OF RESPONDENTS ACCORDING TO THEIR GENDER	29
3.	FREQUENCY AND PERCENTAGE OF RESPONDENTS ACCORDING TO THEIR RELIGION	30
4.	FREQUENCY AND PERCENTAGE OF RESPONDENTS ACCORDING TO THEIR TYPES OF FAMILY	31
5.	FREQUENCY AND PERCENTAGE DISTRIBUTION OF RESPONDENTS IN THEIR STATES	32
6.	DISTRIBUTION OF SUBJECTS BY LEVEL OF KNOWLEDGE ON PREVENTION AND MANAGEMENT OF DENGUE	33
7.	MEAN AND STANDARD DEVIATION FOR PRETEST KNOWLEDGE ON PREVENTION AND MANAGEMENT OF DENGUE	34
8.	DOMAIN WISE KNOWLEDGE SCORES	35
9.	THE CHI – SQUARE TEST WAS USED TO IDENTIFY THE ASSOCIATION BETWEEN DEMOGRAPHIC VARIABLES AND KNOWLEDGE LEVEL	36

LIST OF FIGURES

FIGURE NO.	TITLE	PAGE NO.
1.	BAR DIAGRAM SHOWS FREQUENCY AND PERCENTAGE OF RESPONDENTS ACCORDING TO THEIR AGE GROUPS	28
2.	PIE DIAGRAM SHOWS FREQUENCY AND PERCENTAGE OF RESPONDENTS ACCORDING TO THEIR GENDER	29
3.	BAR DIAGRAM SHOWS FREQUENCY AND PERCENTAGE OF RESPONDENTS ACCORDING TO THEIR RELIGION	30
4.	PIE DIAGRAM SHOWS FREQUENCY AND PERCENTAGE OF RESPONDENTS ACCORDING TO THEIR TYPES OF FAMILY	31
5.	BAR DIAGRAM SHOWS FREQUENCY DISTRIBUTION OF RESPONDENTS IN THEIR STATES	32