

**"ASSESSING THE KNOWLEDGE AND AWARENESS OF
DOMESTIC WASTE MANAGEMENT AMONG PEOPLE IN A
RURAL COMMUNITY AT BENGALURU"**



By:

Mr.Sharon Shibu

Mr.Sujith yohannan

Ms.Sivani J

Mr.Sibin P.k

IV Year B. Sc Nursing (2021-2025)

Research project submitted to

SMT. Nagarathnamma College of Nursing

In partial fulfilment of requirements for the degree of

BACHELOR OF SCIENCE IN NURSING

Under the guidance of

Mr Vasantha Malagi

Asso Professor

Department of Mental Health Nursing .

Smt. Nagarathnamma College of Nursing Acharya Institute, Dr. Sarvepalli Radhakrishnan
Road Soldevanahalli, Bengaluru-560107

**RAJIV GANDHI UNIVERSITY OF HEALTH SCIENCES
BENGALURU**

**SMT.NAGARATHNAMMA COLLEGE OF NURSING
SOLDEVANAHALLI, BENGALURU - 560107**



CERTIFICATE

**THIS IS TO CERTIFY THAT THE PROJECT WORK ENTITLED HAS
BEEN SUCCESSFULLY CARRIED OUT BY,**

IVTH YEAR B.SC NURSING STUDENTS

Mr Sharon Shibu, Mr Sujith Yohannan, Mr Sibin.PK ,Ms Sivani J

**SUBMITTED AS A PARTIAL FULLFILLMENT OF REQUIREMENTS
FOR THE BACHELOR OF SCIENCE IN NURSING FROM RAJIV
GANDHI UNIVERSITY OF HEALTH SCIENCES BENGALURU.**

Dr.Devi Nanjappan

Principal

Dept. of Medical Surgical Nursing

Smt.Nagarathnamma College of Nursing,

Bengaluru

Mr Vasantha Malagi

Asso Professor

Dept. of Mental Health Nursing

Smt.Nagarathnamma College of

Nursing,Bengaluru

DECLARATION BY THE CANDIDATE

I hereby declare that this project entitled "Assessing the knowledge and awareness of domestic waste management among people in a rural area in Bengaluru" is a bonafide and genuine research work carried out by Mr.Sharon Shibu, Mr.Sujith Yohannan, Mr.Sibin P.K, Ms.Sivani J,

under the guidance of Mr Vasantha Malagi Associate Professor Dept Mental Health Nursing, Smt. Nagarathnamma College of Nursing, 69/80, Acharya Institute, Dr Sarvepalli Radhakrishnan Road, Soladevanahalli, Bangalore-560107.

Date:

Signature of the Students:

Place: Bengaluru

Mr. .Sharon Shibu

Mr.Sujith Yohannan

Mr.Sibin P K

Ms.Sivani J

CERTIFICATE BY THE GUIDE

I hereby declare that this project entitled "Assessing the knowledge and awareness of domestic waste management among people in a rural area in Bengaluru" is a bonafide and genuine research work carried out by Mr.Sharon Shibu, Mr. Sujith Yohannan, Mr.Sibin P.K, Ms.Sivani J ,in partial fulfilment of the requirement for the basic Bsc .Nursing

Date:

Place: Bengaluru

Signature of the guide:

Mr Vasantha Malagi

Associate Professor

Department of Mental Health Nursing

Smt. Nagarathnamma College Of Nursing

ENDORSEMENT BY THE PRINCIPAL

This is to certify that the research project entitled "Assessing the knowledge and awareness of domestic waste management among people in a rural community at bengaluru" is a bonafide research work done by Mr. Sharon Shibu, Mr.Sujith Yohannan, Mr.Sibin.PK , Ms .Sivani.J , as a partial fulfilment of the requirement for the degree Bachelor of Science in Nursing under the guidance of Mr Vasantha Malagi,Associate Professor dept.Mental Health Nursing, Smt. Nagarathnamma College of Nursing.

Date:

Signature of Principal

Place: Bengaluru

Dr Devi Nanjappan
Dept . Medical Surgical Nursing

Smt. Nagarathnamma 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 facilities, constant support, and encouragement for accomplishing our project work in this esteemed institution.

Our sincere gratitude to Prof. Devi Nanjappan, Principal, Smt. Nagarathnamma College of Nursing her guidance and support. We express our thanks and gratitude to Prof. Snehalatha Reddy, Vice Principal Smt. Nagarathnamma 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 Mr Vasantha Malagi, Associate Professor, Dept of Mental Health Nursing, Smt. Nagarathnamma college of nursing. We are grateful for his constant guidance and encouragement throughout the study. His 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. Nagarathnamma college of nursing and Specially to our class coordinator Mrs. Snehalatha Reddy, Professor.

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

Date:

Signature of candidate:

Mr: Sharon Shibu

Mr Sujith.Yohannan

Mr.Sibin.PK

Ms. Sivani J

ABSTRACT

Introduction:

Domestic waste management is one of the most pressing challenges affecting public health and environmental sustainability, particularly in rural areas where infrastructure and awareness remain limited. Improper disposal practices such as open dumping and burning of waste contribute to soil, water, and air pollution, while also increasing the risk of vector-borne diseases. With the rapid growth of non-biodegradable waste, the importance of assessing people's knowledge and awareness becomes essential in formulating strategies to promote effective waste segregation and safe disposal. This study was conducted to evaluate the knowledge and awareness of domestic waste management among people in a rural community of Bengaluru.

Objectives:

The objectives of the study were to assess the knowledge and awareness of domestic waste management among people in a selected rural community and to determine the association between their awareness scores and selected demographic variables such as age, education, marital status, type of family, and housing conditions.

Methods:

A descriptive cross-sectional research design was employed for this study, which was conducted in Thirumalapura village, Bengaluru. The sample consisted of 50 participants selected using a simple random sampling technique. Data were collected through a structured questionnaire consisting of 30 items, covering knowledge on classification, segregation, and proper disposal of household waste. Reliability of the tool was established with a Cronbach's alpha of 0.837, indicating good internal consistency. The data were analyzed using descriptive statistics such as frequency, percentage, mean, and standard deviation, along with inferential statistics, including chi-square tests, to determine associations between knowledge levels and demographic variables.

Results:

The findings revealed a considerable knowledge gap regarding domestic waste management in the rural community. Out of 50 participants, 80% had inadequate knowledge, 18% had moderate knowledge, and only 2% demonstrated adequate knowledge. The mean knowledge score was 10.30 ± 4.76 out of 30, which corresponds to 34.33%. Among the demographic variables, marital status and house condition were significantly associated

with knowledge levels ($p < 0.05$), whereas age, gender, education, and type of family did not show any significant association.

Conclusion:

The study concluded that the majority of rural residents had poor knowledge and awareness regarding domestic waste management, reflecting the urgent need for targeted interventions. Educational programs, awareness campaigns, and community engagement initiatives are essential to bridge the gap between knowledge and practice. Strengthening local waste management infrastructure and encouraging sustainable practices such as segregation at source, recycling, and composting could greatly improve environmental health. The findings of this study emphasize the importance of integrating health education and policy support to empower rural communities in adopting safer and more sustainable waste disposal practices.

Keywords:

Domestic waste management, knowledge, awareness, rural community, Bengaluru, environmental health, sustainable practices

TABLE OF CONTENTS

<u>CHAPTER-1</u>	<u>CHAPTER TITLE</u>	<u>PAGE NO:</u>
<u>1</u>	<u>INTRODUCTION</u>	<u>10-14</u>
<u>2</u>	<u>OBJECTIVES</u>	<u>15-18</u>
<u>3</u>	<u>REVIEW OF LITERATURE</u>	<u>19-28</u>
<u>4</u>	<u>METHODOLOGY</u>	<u>29-34</u>
<u>5</u>	<u>RESULTS</u>	<u>35-42</u>
<u>6</u>	<u>DISCUSSION</u>	<u>43-46</u>
<u>7</u>	<u>CONCLUSION</u>	<u>47-49</u>
<u>8</u>	<u>SUMMARY</u>	<u>50-53</u>
<u>9</u>	<u>BIBLIOGRAPHY</u>	<u>54-58</u>
<u>10</u>	<u>ANNEXURE</u>	<u>59-73</u>