

A Study to Assess the Functional Utility and Satisfaction Regarding Revised Community Health Nursing Bag Among Nursing Students

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ABSTRACT

Background: India has a large rural population with limited access to healthcare and insurance. Community nursing plays a vital role in delivering quality care at patients' doorsteps. The revised community health nursing bag is an essential tool for homecare nursing students, facilitating effective community health procedures while minimizing infection risk. Despite its long-standing presence, the bag has not been extensively used in home visits, and students often experience discomfort during its use. **Aim:** The study aimed to assess the functional utility and level of satisfaction regarding the use of the revised community health nursing bag among nursing students and to determine its association with selected demographic variables. **Methodology:** A non-experimental descriptive design was adopted. The study included 182 nursing students selected through non-probability sampling. Data were collected using a self-structured Likert scale for functional utility and satisfaction. Reliability of the tool was 0.77 via test-retest method. Demographic data included age, gender, education, year of study, and batch. Data were analyzed using frequency, percentage, mean scores, and Chi-square tests for association at a 0.05 significance level. **Results:** Findings revealed that 65.4% of students reported excellent functional utility, and 73.1% were satisfied with the revised bag. Education was significantly associated with functional utility ($\chi^2 = 25.56$, $p < 0.05$), while age and education were associated with satisfaction (Age: $\chi^2 = 13.09$; Education: $\chi^2 = 17.06$; $p < 0.05$). Other variables, including gender, showed no significant association. **Conclusion:** The revised community health nursing bag enhances functional efficiency and satisfaction among nursing students. It supports infection control, facilitates organized homecare delivery, and prepares students to meet contemporary community health challenges. Modifications can further improve usability and comfort.

KEYWORDS: Community health nursing bag, functional utility, satisfaction, nursing students, infection control.

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INTRODUCTION

India has a rural population of 900,239,774 in 2021 which is 0.25% increase from 2020 who have no access to health care insurance and cannot afford tertiary health care in institutions or hospitals. The role of community nursing becomes vital, as they can make quality health care available literally at the doorsteps of the patient's house. Revised Community bags are an indispensable occupational tool for homecare nursing students. Nursing students do experience physical discomfort related to new community health bag utilization. Revised Community Health Nursing Bag though in practice for quite a long time has never been used extensively during home visits. It was therefore undertaken a study to assess the functional utility and satisfaction regarding revised community health bag among nursing students from selected college.

Nursing students do experience physical discomfort related to revised community health bag utilization. Revised Community Health Nursing Bag though in practice for quite a long time has never been used extensively during home visits. It was therefore undertaken a study to assess the functional utility and satisfaction regarding revised community health bag among nursing students from selected college. The use of Community Health Nursing bag was started during the time of Florence Nightingale to meet the needs of people and provide basic care at their home. In 19th Century, when Lillian Wald founded the first formal visiting nurse service at Henry Street Settlement; visiting nurses carried bags for conducting home visits.

It contained objects for imparting to the sick, maternity nursing, fitness demonstration and different capabilities inside position of public health nursing faculty and schools or non-public enterprise where in nursing students offer domestic care on couple of patients. The bag is divided into different components with different items in it. The items that are present in a community health bag are divided into single use items and reusable items.

NEED OF THE STUDY

The bag technique is easy and affordable technique for the prevention of cross-infection between various families. It is like small portable hospital ward. It also protects the caregiver from getting infected. It saves time and provides easy management of articles. Each and every healthcare provider should know about the bag technique and use it during family visit. However, use of community health bag has been declining over the years. The bag being used only for demonstration and examinations of students and not in field settings. Mc Goldrick (2014) conducted a study about bag technique and measures to prevent and control infection

in home settings. Community health bag is used to prevent the spread of infection from one family to another in home settings. However, it's been seen that it itself serves as vehicle in transmitting infections from one family to another. The transmission of infection to the families and to the Nursing personal may be one of the reason for underutilization of Community health bag. In regard to this several guidelines have been given by which the transmission of infection can be prevented in the home settings. Use of community health bag saves time and efforts in the performance of nursing procedures.

The researcher chose this study to explore the practical use and effectiveness of the revised community health nursing bag among nursing students. Observing that the bag is a vital tool for preventing cross-infection and organizing healthcare supplies during home visits, yet underutilized in field settings, highlighted a need for assessment. The researcher recognized that while the bag facilitates efficient nursing procedures, improper use may contribute to infection transmission. Evaluating students' functional utility and satisfaction with the revised bag can provide insights into improving its design, usability, and training, ultimately enhancing community healthcare delivery and ensuring safer, more efficient homecare practices.

AIM OF THE STUDY

The study was designed assess the functional utility and satisfaction regarding use of revised community health bag among nursing students. To evaluate the functional utility of the bag in facilitating community health procedure.

RESEARCH METHODOLOGY

Objectives: - To measure the functional utility of the revised community health nursing bag among nursing students. To assess the level of satisfaction regarding revised community health nursing bag among nursing students. To associate the level of satisfaction with selected demographic variables of students

Research Design: - A non-experimental descriptive research design

Sample: - Nursing students

Sample Size: - 182

Sampling technique: - Non-probability sampling technique.

Reliability: - The reliability was done using test-retest method 18 samples were collected and the reliability of the tool was 0.77 which was found to be reliable.

Pilot study: - The data was collected using self-structured likert scale and self-structured questionnaire on 18 nursing students and it was found that tool was feasible.

Description of tool: Tool divided into two sections

Section A: - Deals with the demographic data that consists of five items Age, Gender, education, Year of education, nursing Batch.

Section B

LIKERT SCALE 1: - To measure the functional utility among students.

LIKERT SCALE 2: - To measure the satisfaction among students.

RESULTS

Section-I

Demographic variables of the study population:

The data presented in Table: 1 shows that among the participants, majority 49.5 % belonged to the of 21-22 year of age group, 29.7 % belonged to the of 18-20-year age group and 20.9% participants were in the age group of >23 year. Findings shows that among participant's majority 70.9% are female and 29.1% male nursing students. Findings shows that educational category majority 64.3 % belonged Bsc nursing 2nd year, 19.2% participating GNM 3rd year, 8.2% participants PBBsc Nursing and MSC nursing students. Findings year of education participations majority if year of education majority is 56% 3rd year of students, 27.5% 3rd year semester, 16.5 participants were with 2nd year of education. Finding majority of participants from batch with 36.8% from Bsc Nursing 2nd year students.

Section-II:- Analysis related to functional utility of new community health bag by using frequency and percentage and mean score difference.

Table II:- Distribution of Functional Utility of Revised Community Health Bag

FUNCTIONAL UTILITY OF HEALTH BAGS (OVERALL)			
		Frequency (n)	Percent (%)
	EXCELENT	119	65.4
	GOOD	63	34.6

	Total	182	100.0
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Table II:- shows that functional utility of nursing students regarding the use of revised community health bag reveals that majority 119 (65.4%) of nursing students have Excellent utility and 63 (34.6%) of nursing students have Good utility of revised community health bag.

The above figure no. 1 shows that the mean score was 67.43 which increased in the Excellent categories of functional utility of revised community health bag.

A) ITEM ANALYSIS RELATED TO FUNCTIONAL UTILITY

The findings indicated that a significant percentage of participants reported engaging in certain practice frequently. For instance in the item analysis in functional utility result is 65.4% nursing students nursing bag allows for easy organization of medical supplies, 65.4% equipment is easily accessible while using the bag, 65.4% compartments and pockets in the bag are appropriately sized for their intended items, 45.1% bag is comfortable to carry for extended periods, 63.7% weight distribution of the bag is well-balanced, 56.0% bag's straps and handles are durable and comfortable, 69.8% nursing students comfortable with the size of the bag, 68.1% materials used in the bag are of high quality and durable, 72.5% bag has adequate space for all necessary medical supplies, 53.8% The bag includes specialized compartments for essential tools and medications, 64.3% bag includes features that help separate clean and contaminated items, 54.7% bag's design facilitates quick packing and unpacking of supplies, 59.3% bag is easy to clean and disinfect.

B) ITEM ANALYSIS RELATED TO LEVEL OF SATISFACTION

The findings indicated that a significant percentage of participants reported engaging in certain Practices frequently. For instance item analysis in satisfaction about revised community health bag 75.5% nursing students satisfied with community health bag, 63.7% satisfied with the weight and portability of the community health bag, 72.5% satisfied with the color and identification given on the bag, 47.8% satisfied with infection control standards with revised community health bag, 62.6% satisfied with efficiency of the community health bag, 65.4% satisfied are you with the overall organization of the community health bag, 73.1% satisfied are you with the durability and quality of the material used in community health bag, 73.1% they recommend this nursing bag to other community health nurses, 73.1% community health bag meets my overall satisfaction for functionality.

SECTION III:- ANALYSIS RELATED TO LEVEL OF SATISFACTION OF REVISED COMMUNITY HEALTH BAG BY USING FREQUENCY AND PERCENTAGE AND MEAN SCORE DIFFERENCE.

Table VI:- Distribution of level of satisfaction of Revised Community Health Bag

LEVEL OF SATISFICATION		
	Frequency (n)	Percent (%)
Not satisfied	49	26.9
Satisfied	133	73.1
Total	182	100.0

Table VI:- shows that level of satisfaction of nursing students regarding the level of satisfaction of revised community health bag reveals that majority 133 (73.1) of nursing students have satisfied about revised health bag and 49 (26.9) of nursing students have not satisfied of revised community health bag.



Figure 4:- Distribution of mean score and standard deviation of level of satisfaction of Revised Community Health Bag.

Section IV: - Analysis related to association of demographic data with functional utility and satisfaction of new community health bag with selected demographic variables by using chi-square.

At a 0.05 level of significance, only certain demographic variables showed association with the revised community health bag. Education was significantly associated with functional utility ($\chi^2 = 25.56$, $p < 0.05$). Age and education were significantly associated with level of satisfaction (Age: $\chi^2 = 13.09$; Education: $\chi^2 = 17.06$; $p < 0.05$). Other variables, including sex (gender), showed no significant association ($\chi^2 < \text{table value}$; $p > 0.05$).

DISCUSSION

An exploratory descriptive study conducted by Mr. Ajay Magar on 2012 to “Assess the opinion of Nursing Teachers on usage of Community health bag.” A total of 56 samples which consisted of post-graduate teachers of community health Nursing were selected for study by Non-probability purposive sampling. Opinion was assessed with the help of opinionative. The study revealed that all samples want articles such as iron and folic acid, paracetamol tablets should be present in the community health bag. 98.2% samples thought that adhesive plaster, stethoscope, multivitamin tablets and tape measure should be kept in the community health bag. 58.9% samples didn't want mackintosh to be in the community health bag and 41.6% wanted to keep it in the bag. 91.1% said that they were using community health bag for their students because it was a part of curriculum and students must develop skills in using this bag. 75% of samples said that bag should be placed on an elevated and safe place rather than on paper. 91% of samples said that hand washing is important before and after any procedure. More than 90% of samples had opinion that disposable delivery kit, complete set of enema and urethral catheters should not be placed in the bag. Most of the samples suggested that community health bag should be made of Rexin and should more student friendly. The researcher had studied community health nursing from her bachelor's in Nursing where students learnt about the community health bag and its importance. The results revealed that majority of nursing students have nursing students have Excellent utility and level of satisfaction towards use of revised community health bag 100 percent of nursing students said there no replacement of community health bag but some modifications can be done. Also certain barriers were suggested by the Nursing students.

CONCLUSION

The study on assessing the functional utility and satisfaction regarding the revised community health nursing bag among nursing students revealed that the majority of students reported excellent functional utility and high satisfaction with its use. Statistical analysis using the Chi-square test demonstrated that education was significantly associated with functional utility, while both age and education were significantly associated with the level of satisfaction. Other demographic variables, including sex, showed no significant association.

These findings highlight the importance of equipping nursing students with updated, well-structured tools that enhance their practical learning and support effective community healthcare delivery. The revised community health nursing bag enables students to perform routine nursing activities efficiently, promotes adherence to infection control practices, and prepares them to address contemporary healthcare challenges. By providing a comprehensive, functional, and practical resource, it fosters skill development, professional confidence, and competence among future nurses.

Overall, the study underscores the value of integrating practical innovations into nursing education. Regular updates and modifications in nursing equipment, such as the community health nursing bag, are essential for maintaining high standards of care, ensuring quality service delivery, and enhancing community health outcomes. This intervention not only supports nursing education but also contributes to the broader goal of strengthening community healthcare systems.

Conflict of Interest

The authors certify that they are involved in any organization or entity with any financial or non-financial interest in the subject matter or materials discussed in this paper.

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