



Urinary Tract Infection (UTI)

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ABSTRACT

A non-experimental research study was aimed to assess the knowledge of nursing students on prevention of urinary tract infection in Kritika Nursing College of nursing, Bareilly with objectives to assess the level of knowledge of nursing students on prevention of urinary tract infection. To find the association between knowledge & practice of nursing student with a socio-demographic variables. The study was based on a questionnaire method with 40 samples selected by random sampling technique. self-structural questionnaire was used for knowledge with score poor (0 – 10), average (10 – 20) good (20 – 30) The level of nursing student were assessed by an administered questionnaire. In the analysis, there was statistically remarkable to the association between practices of staff nurses with the selected sociodemographic variable. This study conducted that there was a strong significant association between the ages of the nursing student with practice regarding the prevention of urinary tract infection.

INTRODUCTION

Urinary Tract Infection (UTI) is one of the most common infections affecting individuals of all age groups and is frequently encountered in clinical practice [1]. It poses a significant health problem due to its high prevalence, recurrence rate, and potential complications if not prevented effectively. Nurses play a vital role in the prevention of urinary tract infections through proper hygiene practices, early identification of risk factors, patient education, and adherence to infection control measures. [2]

Adequate knowledge and appropriate practices among nursing students are essential, as they are future healthcare providers responsible for delivering safe and quality care. Lack of knowledge or improper practices may increase the risk of UTIs among patients, leading to prolonged hospital stays and increased healthcare costs. Therefore, assessing the knowledge and practice of nursing students regarding the prevention of urinary tract infection and identifying their association with selected socio-demographic variables is important to plan educational interventions and improve nursing care outcomes. [3]

NEED FOR STUDY

Urinary tract infection are one of the more common infection in Unconverted in everyday clinical practices. They account for 10 to 20% of all the infection treated in primary care unit and 30 to 40% of those treated in hospitals. The risk of UTI in females population is considered to be 40 times higher than in male population that's why this is the important to assist the knowledge of females students nurses and give education about urinary tract infection. The prevalence if bacteria etiology is result a large consumption of broad spectrum antibiotics which in turn to leads increase the rate of resistance uro-pathogens [4]. Therefore, non-antibiotic prevention and treatment options are now to now of great important. This research provides and overview of non-antibiotics options for management of UTI including the application of cranberry product and knowledge for prevalence of urinary tract infection [5].

The primary aim of our study was to analysis the knowledge level of student nurses and to make an information booklet in order to reduce the burden of urinary tract infection through nosocomial infection. The female students nurses are the primary manager of all the routine care and problem solving associated with patient who have urine infection. Urinary infection should be happens due to infection and sexual contact. The aim of our study to check the knowledge of female nursing students and give education about prevention of urine infection. The aim of our study to give the knowledge how urine infection spread? What are the symptoms of urinary infection? And the urine infection spread in kidney and how to prevent urinary infection? Urinary tract infection is common in females but the usually occurs in bladder urethra its going to be serious when infection spread in kidney. These following studies will help all the student investigator to assist the working skill fully and assess the competence of urinary problems and how to prevent infection in females Usually self-diagnosable.

STATEMENT OF PROBLEM –

“A DESCRIPTIVE STUDY TO ASSESS THE KNOWLEDGE REGARDING URINARY TRACT INFECTION AND ITS PREVENTION AMONG ANM SECOND YEAR STUDENTS AT SELECTED NURSING COLLEGE, BAREILLY”.

Objective of the study-

- To assess the knowledge regarding urinary tract infection and its prevention among nursing students.
- To find association between knowledge of nursing students with selected demographic variables.
- To develop the knowledge regarding urinary tract infection.

Methodology-

Methodology is the systematic theoretical analysis of the methods applied to a field of study. This chapter deals with the methodology adopted for study of the level of knowledge regarding prevention of UTI among nursing students in a selected nursing college, Bareilly. It deals with the research approach, research design, setting of the study, population criteria for selection of sample, sample size, sampling techniques, description of tools, scoring procedures, data collection procedure, plan for data analysis.

RESULT-

The overall knowledge scores of the nursing students are revealed that a majority of nursing students 18 (45%) had average knowledge, 20 (50%) had good knowledge and 2 (5%) had poor knowledge.

CONCLUSION-

The study findings concluded that the structured knowledge questionnaire on UTI and its prevention was effective in assessing the current knowledge of the nursing students as evidence by gain in knowledge score of nursing students regarding UTI and its prevention.

Statement of Problem-

“A descriptive study to assess the knowledge regarding Urinary Tract Infection and its prevention among Nursing Students with a view to develop an informative pamphlet in selected Nursing college, Bareilly”.

Objectives of the Study-

1. To assess the knowledge regarding urinary tract infection and its prevention among nursing students.
2. To find association between knowledge of nursing students with selected demographic variables.
3. To develop an informative pamphlet on prevention of UTI and its prevention among nursing students

Operational Definition-

- **Assess-** It refers to evaluate the acquired knowledge of nursing students regarding prevention of UTI by using a knowledge Questionnaire.
- **Knowledge-** In this study it refers to fact information or to the correct response obtained from nursing students regarding prevention of UTI through a knowledge Questionnaire.
- **Prevention-** It refers to how to avoid URINARY TRACT INFECTION. In this study providing an information education and communication which helps the girls from growth of micro-organism in urinary tract.
- **Urinary Tract Infection-** It refers to bacterial invasive and multiplication involving the kidney and urinary tract pathway. The presence symptoms Dysuria, Odor and suprapubic discomfort.
- **Socio-Demographic Variables-** It refers to variables like age, gender, education, qualification, religion, place of resident and past knowledge regarding prevention of UTI.

Hypothesis-**H1-**

There will be an association the knowledge score of nursing students regarding UTI and its prevention with their selected demographic variables at 0.05 level of significant.

Assumption-

- Most nursing students have inadequate knowledge regarding prevention of Urinary tract infection.
- Information education and communication of prevention of Urinary tract infection will help nursing students to improve their knowledge.

Delimitation

- The nursing students studying at selected nursing colleges in Bareilly.
- Sample size is limited to 40.

Projected Outcomes- The study findings will help to create awareness in nursing students about the prevention of Urinary Tract Infection.

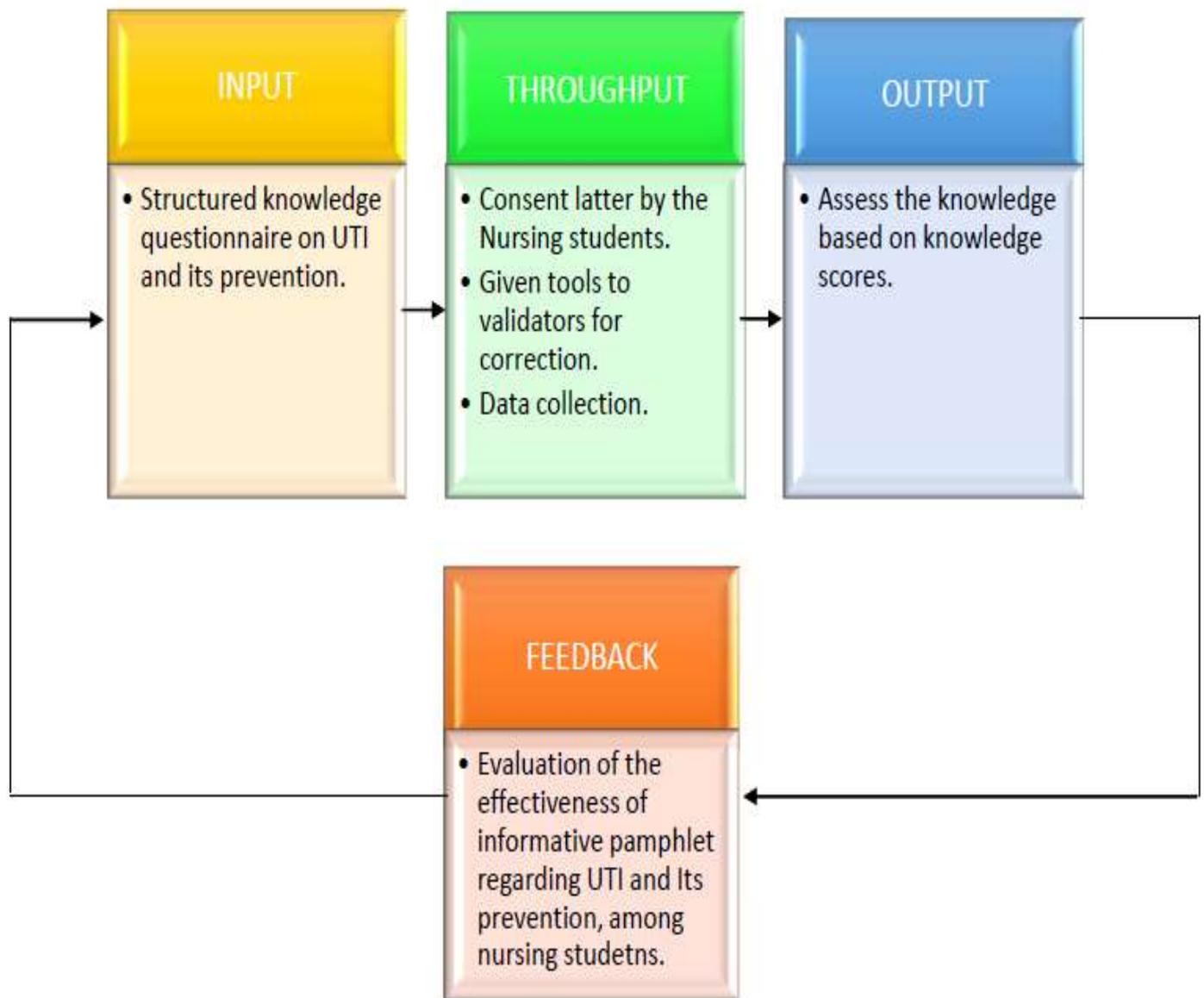


Fig-1 Conceptual framework based on general system model by LUDWING VON BERTANLANFFY (1969).

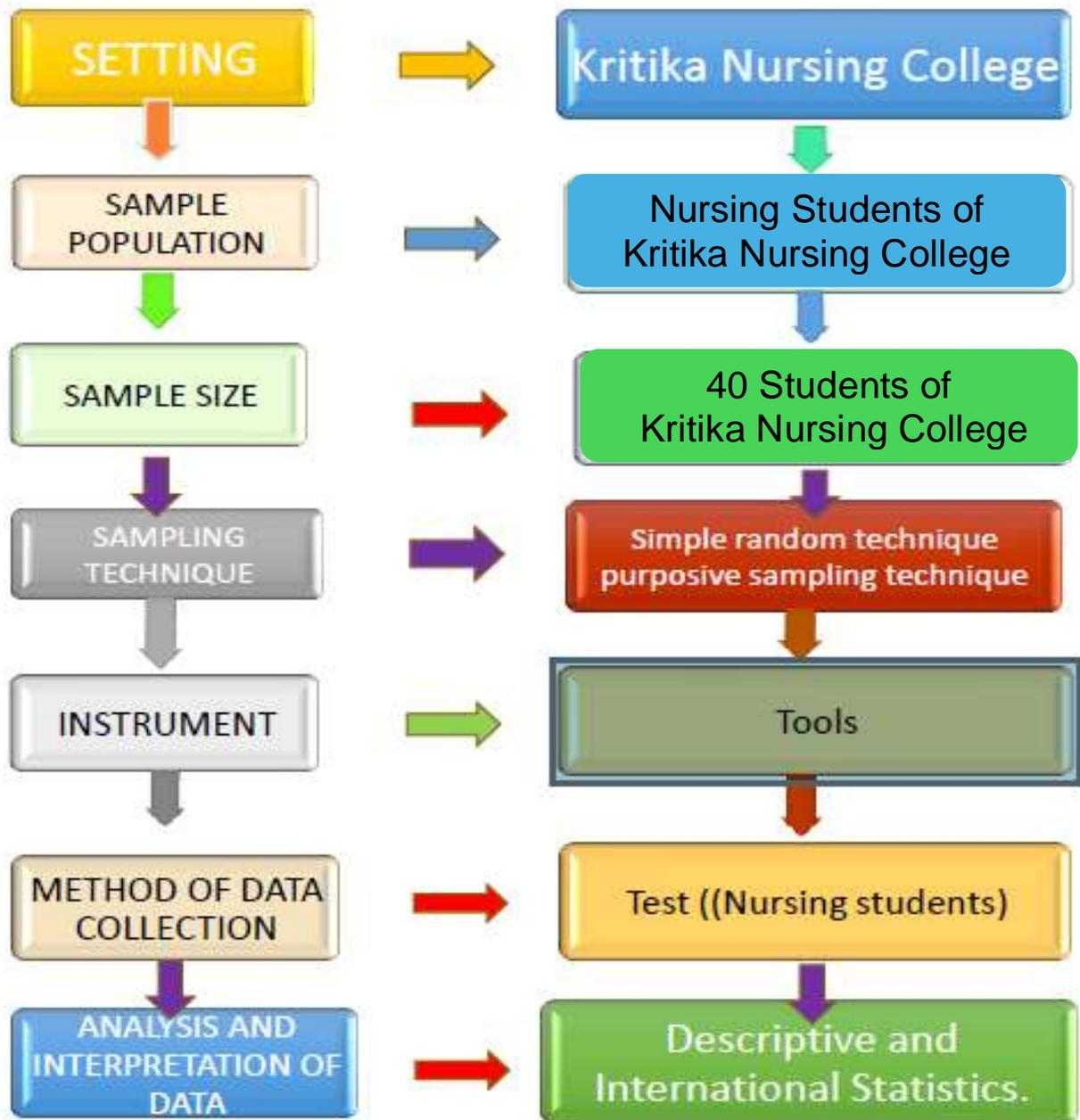


Figure 2- Schematic representation of Research Process.

Table 1: Association between knowledge scores and selected demographic variables among nursing students.

Sl. No.	Demographic variables	Good	Average	Poor	Chi – Square		DF
					Cal.	Tab.	
1.	Age-				2.142	12.592	6
	a) 17– 20 years	14	12	02			
	b) 21 – 25 years	05	04	00			
	c) 26 – 28 years	01	01	00			
	d) 29 above.	00	01	00			
2.	Religion-				3.028	12.592	6
	a) Hindu	18	13	02			
	b) Christian	01	01	00			
	c) Muslim	01	04	00			
	d) Sikh	00	00	00			
3.	Types of family-				0.012	5.991	2
	a) Nuclear	03	06	00			
	b) Joint	15	11	02			
	c) Extended	01	01	00			
	d) Others	01	00	00			
4.	Area of living-				1.012	5.991	2
	a) Rural	15	15	02			
	b) Urban	05	03	00			
5.	Source of any information about UTI earlier-				7.609	12.592	6
	a) Journals	01	03	01			
	b) News-paper	01	01	00			
	c) Booklets	15	08	00			
	d) Multi-media	03	06	00			
6.	Qualification-				7.696	12.592	6
	a) B.Sc. nursing	07	01	00			
	b) G.N.M.	09	14	02			
	c) A.N.M.	04	03	00			
	d) Post B.Sc. nursing	00	00	00			
7.	Marital status-				1.464	12.592	6
	a) Married	03	01	00			
	b) Unmarried	15	15	02			
	c) Divorce	01	01	00			
	d) Widow	01	01	00			

S- Significant**N.S.- Non significant****Table 4 reveals that**

1. The calculated chi- square value was 2.142 and was less than the tabulation chi-square value remain 12.592 Hence **H1.1 was Accepted.**
2. The calculated chi- square value was 3.028 and was less than the tabulation chi-square value remain 12.592 Hence **H1.1 was Accepted.**
3. The calculated chi- square value was 5.252 and was less than the tabulation chi-square value remain 12.592 Hence **H1.1 was Accepted.**
4. The calculated chi- square value was 1.012 and was less than the tabulation chi-square value remain 5.991 Hence **H1.1 was Rejected.**
5. The calculated chi- square value was 7.609 and was less than the tabulation chi-square value remain 12.592 Hence **H1.1 was Accepted.**
6. The calculated chi- square value was 1.464 and was less than the tabulation chi-square value remain 12.592 Hence **H1.1 was Accepted.**

CONCLUSION

This chapter deal with the important concluding finding of the study and their prevention. The study was conduct to assess the knowledge regarding UTI prevention among nursing student at selected institute in Bareilly.

The conclusion drawn from the study includes the finding of present study revealed that regarding UTI prevention, 20(5%) were found adequate knowledge, 18(45%) were found to have moderately knowledge and 2(5%) we found adequate knowledge regarding UTI prevention.

The overall mean and standard deviation of subject is 19.8 and the obtained chi-square value shows that there was no. significant association between the level of knowledge with demographic variable such as age, religion, education, place, source of information.

Limitation –

The study was limited to –

1. 40 sample, hence cannot be generalized.
2. The nursing student, studying in selected institute of Bareilly.

Implication-

The finding of the present study revealed that student nurse have good knowledge regarding UTI prevention. This present study able to become aware about UTI prevention.

Recommendation-

On the basic of the finding of the study following recommendation have been made –

1. A similar study can be conduct on a larger and by the sample from a longs period oftime would be more pertinent in making broad generalization.
2. A descriptive study can be conducted to assess knowledge regarding UTI prevention.

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