



“A Study To Assess The Effectiveness Of Demonstration On Analgesic Patch Regarding Knowledge and Practice Among B.Sc Nursing 2nd Year Students At Selected College Of Nursing Jabalpur (M.P).”

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ABSTRACT: Pain management is an essential component of nursing care, and the proper use of analgesic patches requires adequate knowledge and practical skills among nursing students. The present study aimed to assess the effectiveness of demonstration on analgesic patch regarding knowledge and practice among B.Sc. Nursing 2nd year students at a selected College of Nursing, Jabalpur (M.P.). A pre-experimental one group pre-test and post-test design was adopted among 60 nursing students. Data were collected using structured knowledge questionnaires and practice checklists before and after the demonstration programme. The findings revealed that before the intervention, 78.33% of students had poor knowledge regarding analgesic patches, whereas after the demonstration, 68.3% achieved average knowledge and 30% attained good knowledge. The mean post-test knowledge score (23.6) was significantly higher than the pre-test score (11.95), indicating the effectiveness of the demonstration method. The study concluded that demonstration significantly improved the knowledge and practice of nursing students regarding analgesic patch application and pain management.

Keywords: Analgesic Patch, Demonstration Method, Knowledge, Practice, B.Sc. Nursing students, Pain Management.

INTRODUCTION

Pain is one of the most common symptoms experienced by patients in clinical settings, and effective pain management is an important responsibility of nurses. Analgesic patches are widely used for pain relief because they provide continuous medication delivery through the skin, improve patient comfort, and reduce the need for frequent oral medications. Proper knowledge and practice regarding the application, usage, precautions, and monitoring of analgesic patches are essential for nursing students to ensure safe and effective patient care. Lack of adequate understanding may lead to medication errors, poor pain control, and complications.

Demonstration is considered one of the most effective teaching methods in nursing education because it enhances both theoretical knowledge and practical skills. Through demonstration, students can observe procedures directly, practice clinical techniques, and gain confidence in patient care activities. Therefore, educating nursing students about analgesic patches through demonstration can significantly improve their competency in pain management practices. The present study was conducted to assess the effectiveness of demonstration on analgesic patch regarding knowledge and practice among B.Sc. Nursing 2nd year students at a selected College of Nursing, Jabalpur (M.P.). The study aimed to evaluate the

improvement in students' understanding and practical skills after the educational intervention.

THE OBJECTIVE OF STUDY

1. To assess pre-test & post-test knowledge score on analgesic patch among b.sc nursing 2nd year student at selected college of nursing JBP (M.P).
2. To assess pre-test & post-test practice score analgesic patch among b.sc nursing 2nd year student at selected college of nursing JBP (M.P).
3. To perform demonstration on Analgesic patch regarding knowledge and practice among b.sc nursing 2nd year student at selected nursing college of JBP (M.P).
4. To evaluate the effectiveness of demonstration on Analgesic patch regarding knowledge and practice among b.sc nursing 2nd year student at selected nursing college of JBP (M.P).
5. To associate the pre-test & post-test knowledge score on Analgesic patch among b.sc nursing 2nd year student at selected college of nursing JBP (M.P).
6. To association the pre-test & post-test practice score on analgesic patch among b.sc nursing 2nd year student at selected college of nursing JBP (M.P).

Majority of finding of the study -

The major finding of the study is summarized as follows.



Finding related to demographical characteristic of sample.

- Out of 60 sample most of the sample 47 (78.3%) was in the age group of 18-20 year of age.
- Majority of sample 40 (66.6%) was female.
- Majority of sample 59(98.3%) was unmarried.
- Majority of student family background 45(75%) from non-medical field.
- 30 (50%) number of students have knowledge about analgesic patch and 30(50%) number of students have don't knowledge about analgesic patch.

Majority of student 55(91.6%) did not attend any seminar \ workshop ever.

2. Finding related to knowledge score before administration of information booklet. The result clearly indicate that 47(78.33%) student had poor knowledge regarding analgesic patch before administration of information booklet on analgesic patch and 13(21.66%) had average knowledge.

3. Finding relate to knowledge score after administration booklet on analgesic patch. Finding shows that 17 (30%) had good knowledge regarding analgesic patch. 41(68.3%) had average knowledge.

4. Finding related to comparison of pre-test and post-test knowledge. The finding means pre-test knowledge score 11.95 the finding means pre-test knowledge score 23.6 is appreciately higher than the mean pre-test knowledge score.

5. Finding association between pre-test knowledge score and the selected demographical variable the finding that the association between knowledge of b.sc nursing 2nd year student with demographic variable is statistically tested by applying chi- square test. The variables are gender and previous knowledge (0.05) significant and another variables are not significant.

OBJECTIVES

- To assess pre test&post test knowledge score on analgesic patch among B.Sc. nursing 2nd year students at selected college of nursing JBP {M.P.}

-To assess pre test&post test practice score on analgesic patch among B.Sc. nursing 2nd year students at selected college of nursing JBP {M.P.}

- To perform demonstration on analgesic patch regarding knowledge and practice among B.Sc. nursing 2nd year students at selected college of nursing JBP {M.P.}

-To evaluate the effectiveness of demonstration on analgesic patch regarding knowledge and practice among B.Sc. nursing 2nd year students at selected college of nursing JBP {M.P.}

-To associate the pre test&post test knowledge score on analgesic patch among B.Sc. nursing 2nd year students at selected college of nursing JBP {M.P.}

-To associate the pre test&post test practice score on analgesic patch

among B.Sc. nursing 2nd year students at selected college of nursing JBP {M.P.}

HYPOTHESIS

H1 : There will be significant difference between pre test knowledge score and post test knowledge score on analgesic patch among B.Sc. nursing 2nd year students at selected college of nursing JBP {M.P.}

H2 : There will be significant difference between pre test practice score and post test practice score on analgesic patch among B.Sc. nursing 2nd year students at selected college of nursing JBP {M.P.}

H3 : There will be significant association between pre test knowledge score on analgesic patch among B.Sc. nursing 2nd year students at selected college of nursing JBP {M.P.}

H4 : There will be significant association between pre test practice score on analgesic patch among B.Sc. nursing 2nd year students at selected college of nursing JBP {M.P.}

OPERATIONAL DEFINITIONS

1. ASSESS : To judge or decide the amount ,value, quality or importance of analgesic patch.**2. KNOWLEDGE** : In this study knowledge of working staff related to analgesic patches is observed .

3. ANALGESIC PATCHES: Analgesic patches are mostly derived from two compounds , salicylic acid and phenacetin , whose work is to relief pain.

4. PATCHES: These are Transdermal or topical medication or product . The patch attach to the patient's skin and use to deliver medication through skin .

5. PRACTICE: The usual or expected way of doing something in a particular organization or situation.

6. EFFECTIVENESS: The capability of producing a desired result or the ability to produce desired output.

7. DEMONSTRATION: An act of showing or explaining to somebody how to do something or how something works.

ASSUMPTIONS

The study assumes that the students of B.Sc. nursing 2nd year :

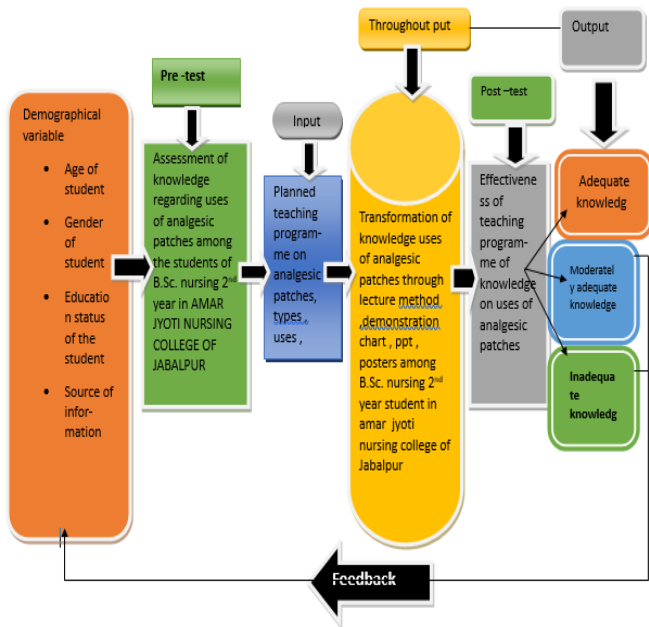
- 1) May have inadequate knowledge about analgesic patches.
- 2) May have inadequate practice about analgesic patch.
- 3) Demonstration technique may improve students knowledge and practice regarding analgesic patches.

DELIMITATIONS

The study is delimited to:

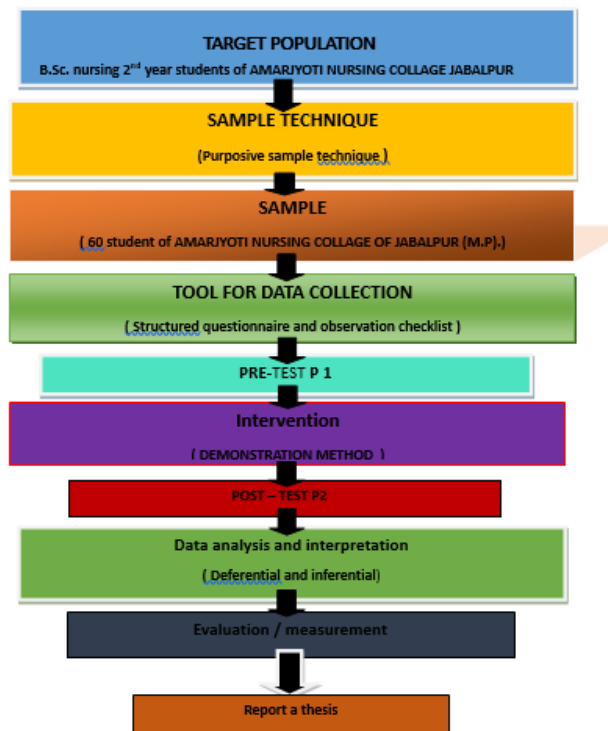
- 1) Students of B.Sc. nursing 2nd year.
- 2) Student of selected collage of nursing.

CONCEPTUAL FRAMEWORK



RESEARCH METHODOLOGY

EXPERIMENTAL ONE GROUP PRE TEST AND POST TEST RESEARCH DESIGN



ANALYSIS AND INTERPRETATION OF DATA

Analysis is the process which enters into research in one from or the other in the very beginning to avoid making conclusion or interpretation from insufficient or invalid data, the final analysis must be anticipated in details when plan become making for collection information.

This chapter presents the analysis and interpretation of data collected. "A study to assess the effectiveness of demonstration on analgesic patch regarding knowledge and practice among B.Sc. nursing 2nd year students at selected college of nursing JBP {M.P.}"

ANALYSIS OF DATA

Analysis as the categorized, ordering, manipulating and summarizing of the data to reduce it to tangible and interpretable forms so that research problem can be studied and tested including the relationship between the variables.

The analysis of the data was done in accordance with the objectives of the study. The data was analyzed by calculating percentage, Mean percentage, standard deviation and "T" value.

SECTION - 1. The demographic characteristic of the study were age, gender, marital status

SECTION - 2: It deal with the analysis of data related to knowledge score before administration of information booklet.

SECTION - 3:- It deal score with the analysis of data related to knowledge score after administration of the information booklet.

SECTION - 4:- It deals with the comparison of pre test and post test knowledge score of b.sc 2nd year student own analgesic patches.

SECTION - 5:- It deal with the association of knowledge score of student with selected demographic variables.

SECTION - 6 It deal with the association of practice score of students with selected demographic variables.

TABLE NO. 1

DISTRIBUTION OF SAMPLE ACCORDING TO AGE OF B.Sc. 2ND YEAR STUDENT

N=60		
AGE	FREQUENCY	PERCENTAGE
18-20	47	78.3%
21-23	13	21.6%
24 above	0	0

The data given in the table no. 1 shown out of 60 sample.

Table no -1 indicate that 47 (78.3%) of students belong to 18- 20 year of age groups 13 (21.6%) of students belongs to 21 – 23 year of age group, 0 (0%) of students belongs 24 above year of age group .

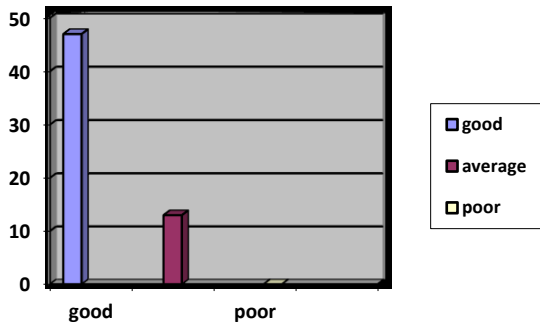


FIG. NO -1 diagram showing the frequency of age .

TABLE NO. 2
DISTRIBUTION OF SAMPLE ACCORDING TO GENDER B.Sc 2ND YEAR STUDENT

N=60		
GENDER	FREQUENCY	PERCENTAGE
MALE	20	33.3%
FEMALE	40	66.6%

The data given in the table no. 3 shown that the out of 60 sample .

The table no -2 indicate the 20 (33.3%) of students belongs to male , 40 (66.6%) of students belongs to female .

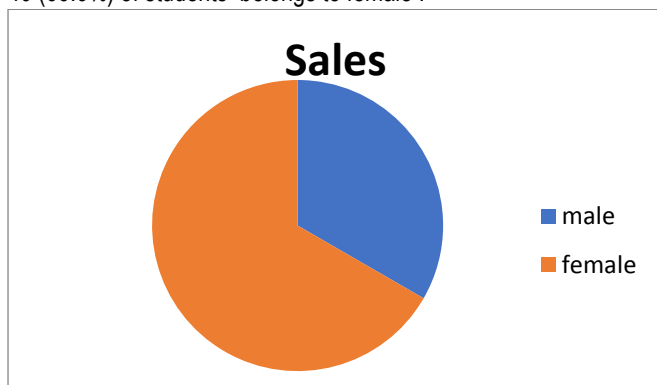


FIG. NO -2 diagram showing the frequency of gender .

TABLE NO.3
DISTRIBUTION OF SAMPLE ACCORDING TO MARITAL STATUS OF B.Sc 2ND YEAR STUDENT

N=60		
MARITAL STATUS	FREQUENCY	PERCENTAGE
MARRIED	1	1.6%
UNMARRIED	59	98.3%

Table no – 5 demographic distribution of marital status of total students

Table no – 5 indicate that 1(1.6%) of students belongs to married and 59 (98.3%) of students belongs to unmarried.

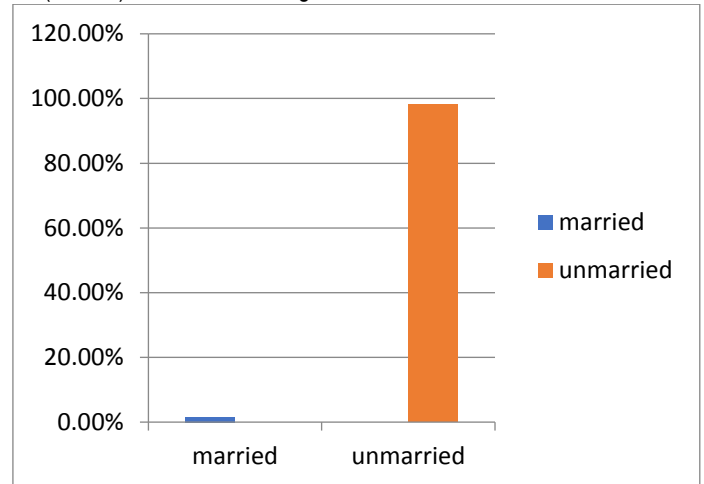


FIG. NO – 3 Diagram showing the frequency of types of marital status.

TABLE NO. – 4
DISTRIBUTION OF SAMPLE ACCORDING TO ANY FAMILY MEMBER BELONGS TO MEDICAL POFFESION OF B.SC NURSING 2ND YEAR STUDENTS .

Medical profession	Frequency	Percentage
Yes	15	25%
No	45	75%

Table no – 7 indicate that 15 (25%) students family members belongs from medical field and 45 (75%) students don't belongs from medical field .

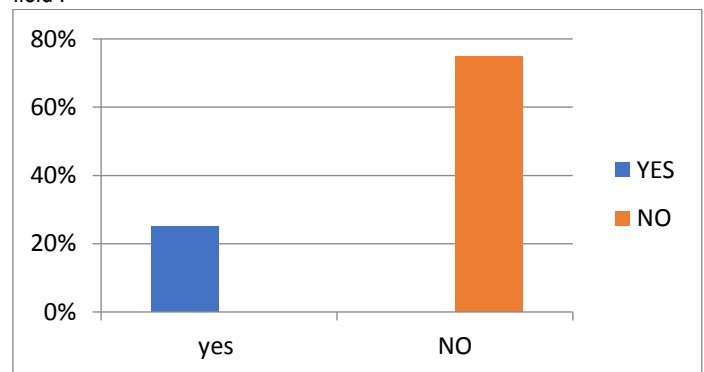


FIG . NO – 4 Diagram showing the frequency of no. of people belongs and not belongs from medical field .

TABLE NO -5

Distribution of people according to previous knowledge of analgesic patch of B.Sc. nursing 2nd year students .

Previous knowledge	Frequency	Percentage
Yes	30	50%
No	30	50%

Table no – 7 indicate that 30 (50%) students have previous knowledge regarding analgesic patch and 30 (50%) students don't have previous knowledge regarding analgesic patch .

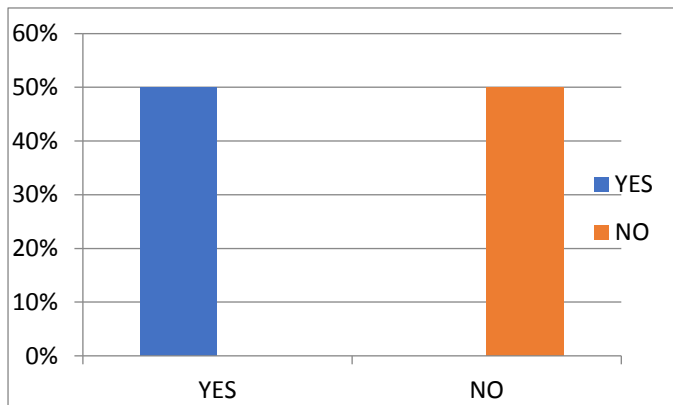


FIG. NO. 5 Diagram showing the frequency of previous knowledge.

TABLE NO. 6

DISTRIBUTION OF PEOPLE ACCORDING TO DO YOU HAVE ATTEND SEMINAR WORKSHOP.

Do you have attend seminar \workshop	Frequency	Percentage
Yes	5	8.3%
No	55	91.6%

TABLE NO.9 indicate that 5(8.3%) student have attend seminar workshop and 55(91.6%) student don't have attend any seminar \ workshop.

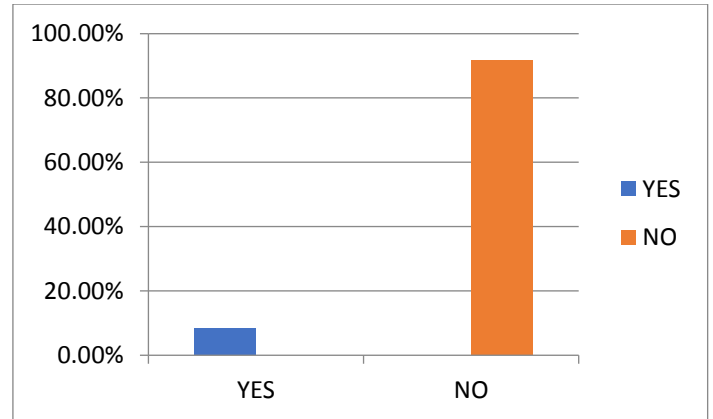


TABLE No. – 7

Assessment the pre test knowledge of students of regarding analgesic patch.

S.No	Category	Frequency	percentage	Mean	S.D
1	Good	0	0%		
2	Average	13	21.66	11.95	3.529
3	Poor	47	78.33		

The data presented in table. No – 10 full fill the objective I clearly indicates that's 0 student have good knowledge , 13 students have average knowledge and 47 students have poor knowledge regarding analgesic patch . the mean and standard deviation also justify the knowledge of students of B.Sc. nursing 2nd year .

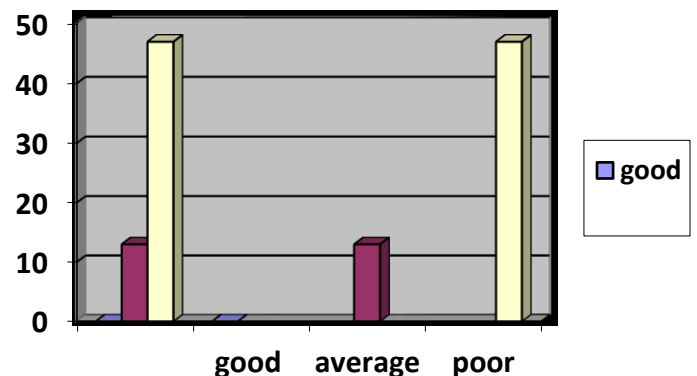


FIG . NO - 8 Diagram showing the frequency of pre test .

TABLE NO. 8

Assessing of post knowledge of students of B.Sc. nursing 2nd year regarding analgesic patch .

S.No	Categories	Frequency	Percentage	Mean	S.D
1	Good	17	30%		

2	Average	41	68.3%	23.06	3.188
3	Poor	1	1.6%		

The data represented in table . no – 11 full fill the objective clearly indicate that 17 students have good knowledge , 41 students have average knowledge and 1 students have poor knowledge regarding analgesic patch . the mean and S.D also justify the knowledge of students.

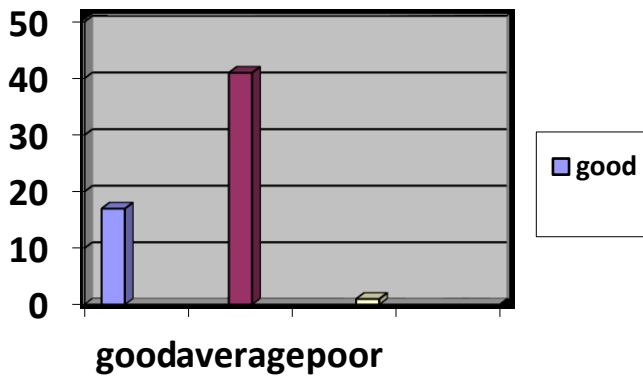


TABLE NO – 10

comparison of pre test&post test knowledge of students of Amarijyoti collage of nursing regarding analgesic patch .

S.no	Description	Mean	S.D	T – test
1	Pre test knowledge	11.95	3.529	1.06943
2	Post test knowledge	23.06	3.188	E- 35

The table no – 13 show the comparison between pre test and post test knowledge made by t – test . the pre test and post test knowledge was statistically tested by applying t – test method at the level.

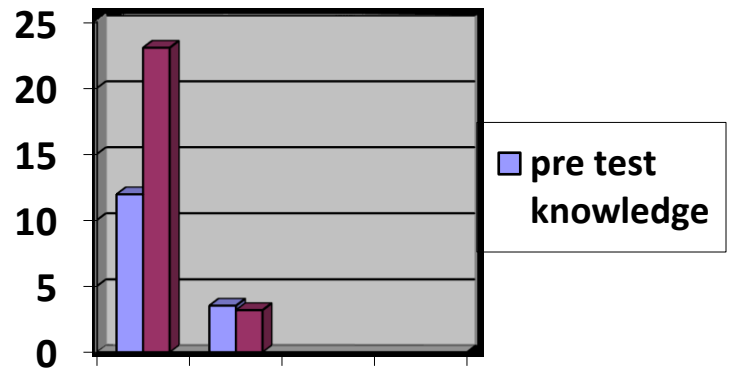


TABLE NO. – 9

Coorelation of pre test&post test knowledge of students of Amarijyoti collage of nursing students regarding analgesic patch .

S.no	Description	Frequency	S.D	Co.
1	Pre test	11.95	3.529	0.244
2	Post test	23.06	3.188	

Table . no – 12 show the correlation pre test and post test knowledge correlation is the appropriate statistical method to compare pre test and post test knowledge score of students regarding analgesic patch . the result show positive correlation .

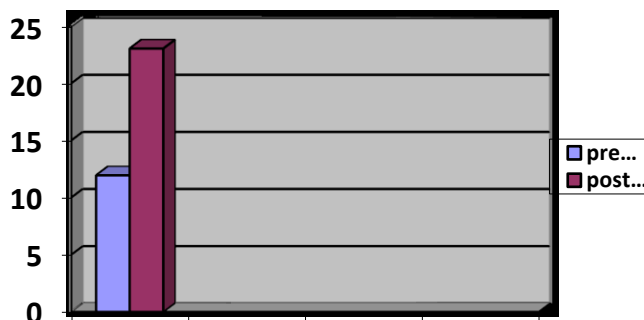


Fig . no- 10 diagram showing the correlation between pre and post test knowledge

TABLE NO. 12

ASSOCIATION BETWEEN PRE TEST KNOWLEDGE OF B.Sc. NURSING 2 ND

YEAR WITH SELECTED DEMOGRAPHIC VARIABLE									
S. NO	VARIABLES	P O R	AVE RAGE	G O O D	T O T A L	D E F I C I E N C Y	P-VA L U E	INTERF E R A N C E	
1	AGE								
	18-20 year	42	5	–	47	1	0.48	NS	
	21-23 year	7	6	–	13	8.586			
2	24above	–	–	–	0				
	GEN DER								
	Male	18	2	–	20	1	0.09	S	
	Female	31	9	–	40	1.384			



3	MARRITAL STATUS								
	Married	–	1	–	1	1		0.51	NS
	Unmarried	48	11	–	59		4.067		
4	FIELD IN M.E.								
	Yes	11	4	–	15	1		0.5	NS
	No	37	8	–	45		0.55		
5	PREVIOUS								

	KNOW								
	Yes	22	6	–	28	1		0.07	S
	No	26	6	–	32		0.0663		
6	ATTENDED SEMINAR								
	Yes	3	2	–	5	1		0.48	NS
	No	46	9	–	55		1.711		

ASSOCIATION BETWEEN POST TEST KNOWLEDGE OF B.Sc. NURSING 2 ND YEAR WITH SELECTED DEMOGRAPHIC VARIABLE

S.NO	VARIABLES	POOR	AVERAGE	GOOD	TOTAL	DF	CHI VALUE	P-VALUE	INTERFERANCE
1	AGE								
	18-20 year	1	37	9	47	1		0.38	NS
	21-23 year	0	9	4	13		1.025		
	24above	–	–	–	0				
2	GENDER								
	Male	1	17	2	20	1		0.05	S
	Female	0	19	11	40		4.15		
3	MARRITAL STATUS								
	Married	0	1	0	1	1		0.48	NS
	Unmarried	1	45	13	59		0.256		
4	FIELD IN M.E.								
	Yes	0	11	4	15	1		0.31	NS
	No	1	34	10	45		0.453		
5	PREVIOUS KNOW								
	Yes	0	22	6	28	1		0.01	S
	No	1	24	7	32		2.898		
6	ATTENDED SEMINAR								
	Yes	0	4	1	5	1		0.43	NS
	No	1	42	12	55		0.091		

ASSOCIATION BETWEEN PRACTICE OF B.Sc. NURSING 2 ND

YEAR WITH SELECTED DEMOGRAPHIC VARIABLE



S.NO	VARIABLES	POOR	AVERAGE	GOOD	TOTAL	DF	CHI VALUE	P-VALUE	INTERFERANCE
1	AGE								
	18-20 year	_	4	43	47	1		0.35	NS
	21-23 year	_	2	11	13		0.532		
	24above	_	_	_	0				
2	GENDER								
	Male	_	4	16	20	1		0.44	NS
	Female	_	2	38	40		3.333		
3	MARRITAL STATUS								
	Married	_	0	1	1	1		0.48	NS
	Unmarried	_	6	53	59		0.112		
4	FIELD IN M.E.								
	Yes	_	2	13	15	1		0.31	NS
	No	_	4	41	45		0.245		
5	PREVIOUS KNOW								
	Yes	_	1	29	30	1		0.10	NS
	No	_	5	25	30		2.956		
6	ATTENDED SEMINAR								
	Yes	_	1	4	5	1		0.45	NS
	No	_	4	50	55		2.302		

ANALYSIS OF DEMOGRAPHIC DATA-

- Maximum number of students were in the age group of - 18 to 20 years (78.3%)
- Majority of students were female - 40(66.6%)
- Maximum number of students who attended the class were unmarried -59(98.3%)
- Students having family background of medical field - 15(25%)
- Students who do not have family background of medical field - 45(75%)
- Numbers of students who have knowledge and who do not have knowledge are equal 50(50%)
- Maximum number of students do not attended the seminar workshop 55(91%)

FINDING RELATED TO ASSESS THE PRE TEST KNOWLEDGE REGARDING -

- The number of students had a knowledge about analgesic test (50%)
- The number of students who do not had knowledge about analgesic test (50%)

FINDING RELATED TO ASSESS THE POST TEST KNOWLEDGEREGARDING-

- The number of students had good knowledge about analgesic patch (30%)
- The number of students had average knowledge about analgesic patch (68.3%)
- The number of student had poor knowledge about analgesic patch (1.6%)

FINDING RELATED TO ASSESS THE PRE & POST TEST PRACTICE SCORE REGARDING -

SUMMARY AND CONCLUSION

The aim of the study is to assess the knowledge of students regarding analgesic patch .

The study also spread knowledge regarding analgesic patch by demonstration .

The reason of this study was to spread knowledge regarding analgesic patches among students

CONCLUSION:-

1. The aim of the study was to "A STUDY TO ASSESS THE



EFFECTIVENESS OF DEMONSTRATION ON ANALGESIC PATCH REGARDING KNOWLEDGE AND PRACTICE AMONG B.SC NURSING 2ND YEAR STUDENTS AT SELECTED COLLEGE OF NURSING JABALPUR (M.P.)”

2. The study spread the knowledge regarding Analgesic patch.
3. The reason for taken this study was to assess the knowledge on Analgesic patch in the students of B.Sc. nursing 2nd year through questionnaire model.
4. Study was carried out on 13 / 9 / 23 to 16 / 9/ 23 Amar Jyoti Nursing College Jabalpur
5. The research result showed significant improvement of the knowledge of B.Sc. Nursing 2nd year students on demonstration of Analgesic Patch.
6. the effectiveness of planned teaching programme is calculated by t-test and association between demographic variable and knowledge is calculated by chi – square test.

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