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"Effectiveness Of Vedio Assistant Teaching **Programme On The Safe Handling Of Cancer Chemotherapeutic Drugs For GNM Nursing** Students In Selected Index Nursing College **Indore Year 2023"**

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Abstract:

Background of the study: Through these years chemotherapy nurses have mastered clinical expertise in areas which contribute to patient care.

Research Methodology: An evaluatory research approach was used to find out the effectiveness of VAT on safe handling of cancer chemotherapeutic drugs for GNM nursing students is pre experimental one group pre-test post-test design.

Dependent variables: Knowledge level of nursing officers cancer chemotherapeutic drugs.

Independent variables: Video teaching programme.

Data collection: Demographic variables and structured knowledge questionnaire was developed.

Results: Descriptive and inferential statistics. The effectiveness of VAT was identified using frequency and percentage. Paired 't' test was used to find out the significant difference between the pre-test and posttest knowledge scores and the mean post-test knowledge scores (32.was higher than the mean pre-test knowledge scores (16. 2). The computed 't' value is 18.87 .is higher than the tabled value t 49 at p<0.05 .level of significance the association between pre-test knowledge scores and selected variables were calculated using Chi square test.

Conclusion: The nurse carries personnel responsibility for nursing practice and for maintaining competence by continuous learning. Video teaching programme enhance the knowledge of GNM nursing students.

Key words: Effectiveness, Safe Handling, Cancer Chemotherapeutic Drugs, Nursing Officers, PTP.

INTRODUCTION: The modern era of chemotherapy was first initiated by discovery of oestrogen to treat prostate and breast cancer. Through these years chemotherapy nurses have mastered clinical expertise in areas which contribute to patient care. Recent studies show an increase in the potential risk due to occupational exposure to cytotoxic drugs.

NEED OF THE STUDY: The investigator herself during her clinical experience, observed nursing students complaining about skin rashes, itching, dyspnoea etc, after the administration of the cancer chemotherapeutic drugs. The unsafe handling of the drugs is the major cause for these complaints. The above studies suggest that if appropriate safety measures are employed potential health hazards will be minimized. Keeping in view the above fact, the investigator planned to conduct the gallery walk intervention on nursing students after assessing their knowledge on the safe handling of cancer chemotherapeutic drugs and its side effects.

OBJECTIVES OF THE STUDY:

- 1. To determine the level of pre-test knowledge of GNM nursing students regarding the safe handling of cancer chemotherapeutic drugs before and after the planned teaching programme.
- 2. To evaluate the effectiveness of video assistant teaching programme in terms of gain in knowledge.
- 3. To find out association with selected demographic variables.

ASSUMPTIONS

- 1. The GNM nursing students has some knowledge regarding safe handling of cancer chemotherapeutic drugs.
- 2. Video teaching programme enhances the knowledge of nursing students.

HYPOTHESIS

H₁ The mean post-test knowledge scores of nursing students attending video assistant teaching programme on safe handling of cancer chemotherapeutic drugs will be significantly higher than their mean pretest knowledge scores.

H₂: There is a significant association between pre-test knowledge scores and their selected demographic variables.

CONCEPTUAL FRAMEWORK: The conceptual framework of the present study was developed by the investigator based on Imogine King's Goal Attainment model.

The research design used in this study is pre experimental one group pretest post-test design which is represented in the figure given below.

Group	Pretest	Intervention	Post test
I	O ₁	X_1	O_2

Group: GNM nursing students

O₁: Pretest before administering the VAT

X: Administration of VAT

O₂: Post testing of the group after administration of the VAT

Dependent variable: In the present study it refers to the knowledge level of GNM nursing Students regarding cancer chemotherapeutic drugs.

Independent variable: In this study it refers to the Vedio assistant teaching programme on safe handling of cancer chemotherapeutic drugs.

Description of the final tool

The final tool consisted of structured knowledge questionnaire. The tool consists of two parts. a, Baseline proforma b. Structured knowledge questionnaire.

- **A. Baseline proforma:** It consists of items for obtaining baseline information about the nursing officers.
- **B. Structured Knowledge Questionnaire:** The tool consists of 40 items and the items were developed so as to cover three different areas: cancer and cell division (1-16 questions), chemotherapy and side effects (17-21) and safe handling of cancer chemotherapeutic drugs (22-40).

DATA ANALYSIS AND INTERPRETATION:

Range, Mean, Median, Mean Percentage Score of Pretest And Post Test of Knowledge Scores : Mean, Mean Difference, Standard Deviation And 't' Value Between Pre And Post-Test Scores

Group	Mo	ean	– Mean	Standard	't' value	
	Pre-test	Post-test	difference	deviation of difference		
GNM	16.2	32.6	16	5.865	18.87	
nursing students						

't' value - The calculated value of 't' (49) = 18.87 is greater than the tabled value t (49) = 1.699 (P < 0.05) So VAT was effective in increasing the knowledge scores and study was significant.

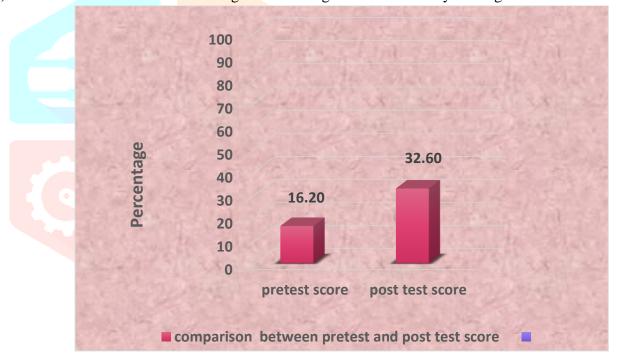


Figure:1 comparison between pretest score and posttest mean score of GNM Nursing students

Table no:03 Area Wise Paired 't' Test Showing Significant Difference Between The Pretest and Post Test Knowledge Scores on Safe Handling of Cancer Chemotherapeutic Drugs.

n=50	
11-5	L

n = 50

	e	Mean		. ه	e	<u> </u>	4)		
Areas	Max. score	Pretest	Posttest	Mean	SD of differenc	SD Error SD/√n	t' Value	Degree o freedom	
Cancer and cell division	29	9.96	24.42	14.46	3.467	.3467	41.45	49	
Chemotherapy& side effects	7	3.02	5.72	2.697	1.134	.1134	23.71	49	
Safe handling of cancer chemotherapeutic drugs	32	14.26	28.2	13.94	4.036	.4036	33.32	49	

(t49 = 3.396P < 0.001)

Table no:04Association Between Level of Pretest Knowledge Scores and Selected Variables.

Variables	Pretest Knowled	df	χ^2	Inference	
v at lables	≤ mean	> mean	- ui	χ	interence
Age	- Y - X -				
≤18yrs	41	32	1	0.1481	NS
≥20 yrs	14	13	1		149
Regularity in class					
Irregular	18	23	1	0.2670	NS
Regular	29	30	1	0.2070	No
$(\chi^2_1 = 3.84)$	NS: Not	t Signi <mark>ficant</mark>			

Nursing Implications: The findings of the present study has implications in the field of nursing education, nursing practice, nursing administration and nursing research.

Nursing Education: study also gives priority for the continuing education programme as it upholds and maintain the knowledge, and thus making them more competent. Continuing education programmes should be conducted for the need awareness of the nursing students. Every student should be encouraged to do the safe handling techniques of cancer drugs and thus will get acquainted to this method. The skill will also be developed by practicing it. The topic can also be included in the curriculum.

Nursing practice: Information's about safe handling of hazardous drugs is always not available in drug resource books commonly used by the nurses. Nurses working in the hospital as well as in the community should be equipped with skill and knowledge in handling the chemotherapeutic or antineoplastic drugs. The gap between the existing knowledge and expected levels indicates the need for continuing educations programme on safe handling of cancer chemotherapeutic drugs.

Nursing Administration: They should plan for manpower, money, material, methods and time to conduct successful educational programmes. Health administration should make the education department aware about the prevailing health problems and assign the staff for conducting the Vedio teaching programme in hospital and also in the community.

Nursing research: Nurse researchers should be aware about the health care system and status of nursing profession. If the nurses are serious about their impact of cancer care, they should ensure research based practice in the future. The ability to identify the complementary roles, and the areas of role overlap with the nurses will empowered them to acknowledge, define, accept, and practice their role with less ambiguity and frustration.

Limitations

- 1. Sample was from only one institution. This restricts the generality of the results.
- 2. Study did not assess the practice of nursing students.
- 3. Study was delimited to GNM nursing students
- 4. Randomization could not be obtained.

Recommendations

On the basis of study findings, following recommendations have made for further study.

- 1. The study could be conducted on a larger sample thereby findings can be generalized for a larger population.
- 2. An exploratory study could be conducted to identify the knowledge and practices of staff nurses regarding safe handling of cancer chemotherapeutic drugs.
- 3. An experimental study could be undertaken with a control group.

Conclusion: the researcher a new experience, a chance to widen the knowledge and a venue to interact with nursing students, The directions from the guide, various experts and co-operation of GNM nursing students played a major role in successful completion of the study.

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