COMPARATIVE STUDY TO ASSESS THE KNOWLEDGE REGARDING TOPICAL
APPLICATION AMONG STAFF NURSES AND NURSING STUDENTS IN NARAYANA
MEDICAL COLLEGE HOSPITAL, NELLORE

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Research Article

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ABSTRACT

A study the level of knowledge regarding nebulization among staff nurses and nursing students in narayana medical college in Nellore. A descriptive design was used to assess the level of Knowledge regarding nebulization among staff nurses and nursing students. The total sample size of 30 out of which 15 staff nurses and 15 nursing students was selected using convenience sampling technique. The study showed that the level of knowledge among staff nurses,6 (40%) had adequate knowledge, 6 (40%) had moderately adequate knowledge , 3 (20%) had inadequate knowledge and level of knowledge among nursing students,1 (7%) had moderately adequate knowledge, 14 (93%) had inadequate knowledge with the mean score for staff nurses with 18.7 13.8 and standard deviation of 5.9 and the mean score for nursing students with 11.6 and standard deviation of 3.0. There was a significant association between the level of knowledge regarding nebulization with their selected socio demographic variables like professional qualification and source of information. The study concluded that staff nurses had adequate knowledge than the nursing students regarding nebulization

INTRODUCTION

Nebulization is used to deliver medications along the respiratory tract and is indicated to various respiratory problems and diseases such as bronchospasms, chest tightness, and excessive and thick mucus secretions. Nebulization is the process of medication administration through inhalation. It utilizes a nebulizer which transports medication to the lungs by means of moist inhalation. Nebulizer offer painless delivery method ideal for children and vulnerable patients, these machines turn the medicine into direct entry. In global level the incidence rate of number of people with respiratory disease, continue to grow, 1 in 12 people had asthma in 2010. As a nurse, it is important to teach the patients the proper way of doing the therapy to facilitate effective results and prevent complications.

Objectives of the Study

- To assess the level of knowledge regarding nebulization among staff nurses
- To assess the level of knowledge regarding nebulization among nursing students
- To compare the level of knowledge regarding nebulization between staff nurses and nursing students

- To associate the level of knowledge regarding nebulization among staff nurses with their selected socio demographic variables
- To associate the level of knowledge regarding nebulization among nursing students with their selected socio demographic variables

MATERIALS AND METHODS

Study Design: Descriptive Design
Study Population: Staff nurses and Nursing students
Study Size: 15 staff nurses and 15 nursing students
Study Duration: 15 days
Plan for Data Analysis:

Section I: A) Frequency and percentage distribution of socio demographic variables of staff nurses
B) Frequency and percentage distribution of socio demographic variables of nursing students

Section II: Comparison of level of knowledge regarding nebulization between staff nurses and nursing students

Section III: Comparison of mean and standard deviation of knowledge score between staff nurses and nursing students
Section IV: A) Association between the level of knowledge regarding nebulization among staff nurses with their selected socio demographic variables

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B) Association between the level of knowledge regarding nebulization among staff nurses with their selected socio demographic variables

Results: Section I: A) With regard to frequency and percentage distribution of socio demographic variables of staff nurses

- With regard to age, 10(66.7%) staff nurses were between 23 – 25 years of age
- With regard to gender, 15(100%) staff nurses were females
- With regard to professional qualification, 9(60%) staff nurses had B.Sc (N) qualification
- With regard to years of experience, 9(60%) staff nurses had between 4 – 6 years of experience
- With regard to source of information, 9(60%) staff nurses gained information from curriculum
- **Section: I B)** With regard to frequency and percentage distribution of socio demographic variables of nursing students
- With regard to age, 12(80%) nursing students were between 21 – 22 years of age
- With regard to professional qualification, 9(60%) nursing students were studying B.Sc(N)
- With regard to course of study, 6(40%) nursing students were studying 2nd year
- With regard to source of information, 8(53.3%) nursing students gained information from journal, curriculum, internet and mass media

Section II: Comparison of level of knowledge regarding nebulization between staff nurses and nursing students

(N=30)

Level of knowledge	Staff nurses		Nursing students	
	F	%	F	%
Adequate Knowledge	6	40	0	0
Moderately Adequate Knowledge	6	40	1	7
Inadequate Knowledge	3	20	14	93
TOTAL	**15**	**100**	**15**	**100**

Section III: Comparison of mean and standard deviation of knowledge score between staff nurses and nursing students

(N=30)

Sample categories	Mean	Standard deviation
Staff nurses	18.7	5.9
Nursing students	11.6	3.0

(N=15)

Demographic variables	Adequate knowledge		Moderately adequate		Inadequate		Chi – square
	F	%	F	%	F	%	
Professional qualification							C=12.6
a)　　GNM	1	6.7	2	13.4	3	20	T=5.99
b)　B.Sc(N)	4	26.7	5	33.4	-	-	Df=2
							P=0.05
							S**
Sources of information							C=13.87
1.　curriculum	4		3	20	2	13.4	T=12.59
2.　Journals	-	26.7	1	6.7	-	-	Df=6
3.　Mass media	-	-	2	13.4	1	6.7	P=0.05
4.　All the above	2	13.4	-	-	-	-	S**

Section IV: A) Association between the level of knowledge regarding nebulization among staff nurses with their selected socio demographic variables

Section IV: B) Association between the level of knowledge regarding nebulization among nursing students with their selected socio demographic variables

(N=15)

Demographic variables	Moderately adequate		Inadequate		Chi square
	F	%	F	%	
Year of Study					
a)　　1st year		-			C=12.6
b)　　2nd year	-	-	3	20	T=5.99
c)　　3rd year	-	-	6	40	Df=2
	-	-	4	26.7	P=0.05
d)　4th year	-		1	6.7	S**

DISCUSSION

Major findings of the study for staff nurses

- With regard to age, 10(66.7%) staff nurses were between 23 – 25 years of age
- With regard to gender, 15(100%) staff nurses were females
- With regard to professional qualification, 9(60%) staff nurses had B.Sc (N) qualification
- With regard to years of experience, 9(60%) staff nurses had between 4 – 6 years of experience
- With regard to source of information, 9(60%) staff nurses gained information from curriculum
- With regard to level of knowledge , 6(40%) staff nurses had adequate knowledge and 6 (40%) of staff nurses had moderately adequate knowledge
- There was a significant association between the level of knowledge regarding nebulization with their selected socio demographic variables like professional qualification and source of information

Major findings of the study for nursing students

- With regard to age, 12(80%) nursing students were between 21 – 22 years of age
- With regard to professional qualification, 9(60%) nursing students were studying B.Sc(N)
- With regard to course of study, 6(40%) nursing students were studying 2nd year

- With regard to source of information, 8(53.3%) nursing students gained information from journal, curriculum, internet and mass media
- With regard to level of knowledge, 14(93%) nursing students had inadequate knowledge
- There was a significant association between the level of knowledge regarding nebulization with their selected socio demographic variables like Year of study

CONCLUSION

The study concluded that comparison of the level of knowledge between staff nurses and nursing students revealed that staff nurses had more and adequate knowledge than the nursing students regarding nebulization

References

1. Anitha Collins, Text book of medical surgical nursing, second edition, front line publication,page no: 367 – 389
2. B.J. Basavanthappa, Text book of medical surgical nursing, second edition jaypee publication, Page no: 1175 – 1182

Net References

1. https://www.google.co.in & http://en.wikipedia.org
2. http://www.sparkpe.org/wp-content

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