Journal of Research in Medical and Dental Sciences Volume 5, Issue 2, Page No:61-66 Copyright CC BY-NC-ND 4.0 Available Online at: www.jrmds.in eISSN No. 2347-2367: pISSN No. 2347-2545



# Nursing Professional Ethics Education Using a Superior Method: Lecture or Multimedia

# Khalili Arash<sup>1</sup>, Habibi pour Behzad<sup>1</sup>, Saeedeh Almasi<sup>1</sup>, Neda Alimohammadi<sup>2</sup>, Mohammad Zoladl<sup>3</sup> and Fariba Ebrahimi Horyat<sup>1\*</sup>

<sup>1</sup> Instructor, Department of Pediatrics Nursing, school of Nursing and midwifery, Hamadan University of Medical Sciences, Hamadan, Iran <sup>2</sup> Instructor, Department of medical surgicla Nursing, school of Nursing and midwifery, Hamadan

<sup>2</sup> Instructor, Department of medical surgicia Nursing, school of Nursing and midwijery, Hamadan University of Medical Sciences, Hamadan, Iran

<sup>3</sup>Associate Professor, Social Determinants of Health Research Center, Yasuj University of Medical Sciences, Yasuj, Iran

#### DOI: 10.5455/jrmds.20175210

### ABSTRACT

Professional ethics implies abiding by ethical standards of nursing profession; to achieve this, there is a need for an appropriate method of teaching ethics. The aim of this study is to select a preferred method to train nursing professional ethics. A quasi-experimental study of two groups of before and after was used while nursing students were trained into two groups of multimedia software and Lecture. At first, all students were selected based on a census method; then random assignment was used to allocate them to the two groups. The number of samples in each group was 30. Using the nursing professional ethics questionnaire and after verifying the content validity and reliability, the tests were performed in three time spans of before training, immediately after training and four weeks after training. Data analysis was performed using t-test and variance analysis via SPSS software version 20. No statistically significant difference was observed between sex, academic semester, field interest, and knowledge but statistically significant difference was observed between age(p=0/000). The findings a statistically significant difference in mean scores of pre-test and post-test in multimedia group (p=0.025), mean scores of post-test in multimedia and durability of multimedia (p=0.001) and mean score of durability in Lecture and multimedia (p=0.009). Multimedia method is indicated to be more effective to teach professional ethics and can be used as such.

Keywords: Professional ethics, Lectures, multimedia, nursing students

HOW TO CITE THIS ARTICLE: Khalili Arash, Habibi pour Behzad,	Saeedeh Almasi, Neda Alimohammadi, Fariba Ebrahimi Horyat,				
Nursing Professional Ethics Education Using a Superior Method: Lect	ture or Multimedia, J Res Med Dent Sci, 2017, 5 (2): 61-66, DOI:				
10.5455/jrmds.20175210					
Corresponding author: abrahymyfryba94@gmail.com	[1]. Paying attention to ethical issues, sharing				
e-mail Ibrahim_naseem@yahoo.com					
Received: 25/02/2017	them with other colleagues, identifying various				
Accepted: 20/05/2017					
	solutions to solve ethical issues, and consulting				
INTRODUCTION	with experts in the field are among major principles which should be considered nursing				
Professional ethics implies abiding by ethical standards of nursing profession; in order to comply with these standards, nurses maintain and promote their opinions, behaviors, and beliefs according to professional and ethical standards	professional ethics [2]. Observance of ethical standards in nursing practice leads to improvement of nursing services, subsequently, quality improvement of nurses' practice has such a significant impact on improving patient recovery process to the extent that some researchers in				

Journal of Research in Medical and Dental Science | Vol. 5 | Issue 2 | April - June 2017

clinical nursing consider caring consistent of three basic principles of ethics, clinical judgment and care [3]. Different researches have examined nursing practice from ethics aspect in particular. Some has defined ethical performance as contacts with colleagues and patients, medication administration, following patient's rights, accountability, moral reasoning, and etc. but the scope of nursing ethics encompasses all nursing duties and job descriptions [4]. Of the five fundamental and epistemological elements of nursing (including nursing knowledge, nursing art, personal knowledge, nursing ethics and sociopolitical knowledge), Winson defined nursing ethics as using critical thinking and logical reasoning in the face of philosophical and ethical

situations [5]. So far, in terms of morality, nurses were largely subordinated to medical specialties and focusing on nursing ethics as an independent subject has been paid less attention to [3].

But in fact, not only the ethics is an academic subject matter but also a professional manner. Ethics training should be more than acquiring knowledge in this area [6]. Nurses need to be aware of moral language and become familiar with some of its relevant concepts, but they do not have to be a specialist in ethics. They should be able to realize when an unethical action has taken place or under what circumstances may the human rights of a person be undermined [7].

The results of a study in Iran suggest that nurses do not consider ethical principles properly in their decisions: the reason is lack of nursing ethics education. nurses' lack of awareness. and lack of ethical principles codification in the country [8]. Though recently, more attention has been paid to the issue of nursing ethics education but not enough data is yet available on regards to ethics education and methods and patterns of such that would reinforce nursing education competence and qualification [9]. Lack of information on professional ethics education has made accepted methods - that can be useful and practical in training nursing professional ethics not to be used; this goes on to the extent that despite international community's increasing emphasis on the importance of nursing and the importance of ethics as the fundamental virtue of this career, the concept has not found its proper place in nursing education. One of the issues amplifying the case is absence or lack of pattern

recognition and nursing ethics training methods [10]. Therefore, and due to the progressive increase in summoning nurses to the legal communities, this study aimed to choose a superior method to teach nursing professional ethics.

# MATERIALS AND METHODS

This was a quasi-experimental study containing two before and after groups and the study population consisted of nursing students in Hamadan University of Medical Sciences. Study inclusion criteria were students' tendency to participate in the study and being a nursing student of Hamadan University of Medical Sciences in semester 6 or 8 while exclusion criterion was being a guest student at this school for less than 2 semesters. After preparing the list of students from the faculty of Education, students of semesters 6 and 8 were selected via a draw and were assigned randomly into two groups. After assigning Lecture and multimedia groups with a draw, the name of each individual student (each semester separately) was written on a piece of paper and put in a box; by picking the papers, the students were assigned to the pre-determined groups continuously / until the completion of sample size. In the Lecture group, subjects were educated by lecturing by researcher and the number of subjects in each group was 30 [11]. Data collection instrument used in this study was a two-section questionnaire Khalili and et al [10] that the first section (5 questions) included personal information and the second section contained 21 Yes/No statements to evaluate knowledge (1 score for correct answer 0 score for wrong answer). The questionnaire validity and reability consist of content validity ratio 0.73, content validity index 90/0 and Kuder Richardson 0.65. Also the Pearson correlation coefficient is 0.73. The researcher received the necessary introduction letter from Hamadan University of Medical Sciences and Health Services after obtaining approval from the Research Council and getting Code of Ethics Committee (IR.UMSHA.REC.1394.567). After getting consent of authorities of the institute, the researcher explicitly explained the objectives of the study to the students of both groups. Educational file of the multimedia group was a combination of photos, PowerPoint, films, and presentations, along with some video clips designed in the hospital

Journal of Research in Medical and Dental Science | Vol. 5 | Issue 2 | April - June 2017

environment and by nurses based on each questionnaire's questions, it was burnt on a CD. In the first session of the Lecture group, the questionnaire was firstly submitted to them and after completion and collection of the questionnaire, the intended content (the exact questions in the questionnaire) was read and explain individually for all the groups in a quiet environment.

After reviewing each questionnaire's content, post-test was performed. The first post-test was to measure their knowledge level after having trained and the second post-test was to measure recalling level of taught information. sessions of Lecture took 1 hours. Recalling post-test was taken a month later. After completing required sessions for Lecture group, in a separate session for multimedia group, firstly pre-test was taken and after collecting the questionnaire, the multimedia content provided for this group was broadcasted in a very quiet environment for 45 minutes. The researcher didn't offer any explanation during and/or after playback to this group and the post-test was conducted immediately after the broadcast. This groups had also taken recalling post-test after a month. The findings were analyzed by the statistical software SPSS version 20 using descriptive and analytical analysis. Descriptive statistics of the study were collected by using frequency distribution tables and percentages, minimum and maximum, mean and standard deviation to describe the participants. In order to compare the two independent groups, t-test was used while for comparing the mean of both groups before and after the intervention, paired t-test was utilized and ANOVA test was used for the mean comparison of the two independent groups. All ethical issues such as subjects' free will to

participate in the study, respect for integrity, benefiting from the findings for the study, and compliance with research framework was fully observed.

#### RESULTS

According to the findings of this study, gender distribution into two groups showed no significant difference (p=0/555). The results of the age distribution into two groups showed significant difference (0/000). Participants' semester distribution indicated academic homogeneous groups. Regarding field interest, data analysis also showed the majority of subjects in both Lecture (56/3 %) and multimedia (84/4 %) groups were interested in their field of study. Pre-test and post-test comparison of Lecture showed no statistically significant group difference (p = 0.541).

Pre-test and post-test comparison of multimedia group also showed a statistically significant difference (p = 0.025).

Pre-test and post-test comparison of Lecture group and multimedia group showed no significant difference between students' knowledge level before and after the intervention (p = 0.572, p=0/178).

#### DISCUSSION

Post-test score of students in professional ethics issue in the Lecture group was higher than multimedia group and the difference was significant; the results corresponded to the study of Daneshmandi [11], Ramezani [12], Meshki [13], Fani [14] but didn't correlate with the study of Farshi, et al. [16].

Table 1: Prevalence and demographic characteristics of (gender and age) nursing students participating in the study

Variable	Specifications	Lecture	Lecture group Multimedia group		Chi square	df	P value	
		Number	percent	Number	percent			
Sex	Female	18	47.4	20	52.6	0.349	1	0.555
	Male	19	54.3	16	45.7			
		Mean	SD	Mean	SD	T test		
	Age	22/64	2.11	20.69	1.59	4.11	71	0.000

Table 2: Mean and standard deviation of ethics in nursing, speech and multimedia in both groups before and after intervention

	_	<b>Before intervention</b>	After intervention	p-value (Paired t-test)
Ethic	lecture	$13.21 \pm 1.65$	$13.61 \pm 3.07$	0.541
	multimedia	$12.94 \pm 2.34$	14.53±2.56	0.025
	p-value(t-test)	0.572	0.178	

Journal of Research in Medical and Dental Science | Vol. 5 | Issue 2 | April - June 2017

Furthermore, the results showed a significant difference in knowledge level of students towards ethical issues in nursing practice before and after training via Lecture method and the findings were in accordance with those of Baghcheghi [11], Hekmatpou [15], Daneshmandi [17], Asgari [18], and Mei-Ling, Yeh, et al. [19] but not with Nik kar [20] and Aloraini [21]. The reason for this nonconformance can be that in Lecture method, factors like accurate hearing, paying attention, following others' rights, respecting others' opinions, acceptance of the opposition, observing conversational etiquette, and keeping silence when necessary would be considered by the students. Thus, compared to other methods, motivation and learning will be increased in this method. It is also notable that in Lecture method, both strong and weak have consultation together in one group and profit from each other's thoughts and beliefs; this will result in development in weak students. Consequently, the post-test scores have increased in the Lecture group while the sense of collaboration and consultation was not among multimedia group.

The comparison of knowledge level mean scores of nursing students before and after training via multimedia method indicated no statistically significant difference in multimedia training before and after the intervention which is compatible with the findings of Vahabi [13], Mei-Ling, Yeh [19], and Adib-Hajbaghery [22] but not with those of Chenkin [23] and Chaikoolvatana [24]. Being silent and merely a listener, student's inactivity, lack of active participation of students in education, not being able to use other students' opinions, lack of focus on the subjects, and not challenging the issue can justify the learning rate lower than expected.

The comparison of knowledge level mean scores of nursing students before and after training via the two methods of multimedia and Lecture showed a difference between the two in regards to knowledge level which is related to both first preand post-tests. The result is correspondent to studies such as Liyaghat dar [12], Hekmatpou [15], Adib-Hajbaghery [22], and Rahmati [25] but not to those of Gomes [26] and Reynolds [27]. Communication and social skills are very important and valuable in Medical Sciences, especially nursing, and it can be achieved to through Lecture method. In this method, on one hand students are inevitable to have a clear understanding of other members' opinions and on the other hand they are obliged to provide logical and reasonable answer in order to accept or reject others' ideas. Both of these require observing specific frameworks to have logical and principled communication among the group's members. So learning life skills such as cooperation and interaction skills will be better through multimedia.

Examining the mean score of durability of knowledge levels in both methods indicated higher durability score in multimedia group but the difference was not significance which is similar to findings of Mokhtari Nouri [28], Mollazadeh [16], vahabi [13], Aloraini [21], and Gomes [26] but not to those of Samiei [29] and Barrass [30]. The inconsistency, in the researcher's viewpoint, is due to the fact that just as memories of a movie remains in mind for a long time, the multimedia content designed as film, PowerPoint, etc. will also last longer in the memories of the students.

## CONCLUSION

The results of this study showed that both multimedia and Lecture methods have been effective in training nursing professional ethics and both can be used for the aim of education. However, a significant difference was observed between Lecture and multimedia methods implying superiority of the former; though the positive impact of multimedia method on the knowledge durability on the students' minds should not be neglected. Therefore, according to the findings of this study, one can benefit from Lecture method as the more effective way in training nursing professional ethics; meanwhile multimedia method can be useful in enhancing knowledge durability.

**Conflict of Interest:** The presented study has no conflict of interest.

# Acknowledgement

This study is the result of a thesis (IR.UMSHA.REC.1394.567) in master of nursing on Hamadan University of Medical Sciences approved project. I would like to express my sincere gratefulness to the honorable deputy head of research of Hamadan University of Medical

Journal of Research in Medical and Dental Science | Vol. 5 | Issue 2 | April - June 2017

Sciences and all of the students willing to cooperate and participate in the study.

#### REFERENCES

- 1. Ali Mohamadi N, Almasi S. shayan A, Dehghan M, Hassan Ahmadi Nia and Arash Khalili. Investigating the Emergency Nurse's awareness of professional ethics of nursing. International Journal of Advanced Biotechnology and Research (IJBR). 2016; 7(3): 1424-29.
- JahanJahanpour F, Khalili A, Ravanipour M, Nourouzi L, Khalili M, Dehghan F. Investigating Awareness Amount of Nursing Students of Medical Sciences University of Bushehr about Ethic in Nursing Profession-2013. Armaghane danesh. 2014; 19(3): 223-32.
- 3. Khalili A, Almasi S, Joonbakhsh F, Ahmadinia H, Davodi M. Comparative study of the impact of professional ethics education using lecture and multimedia software on knowledge of nursing students. Research Journal of Pharmaceutical, Biological and Chemical Sciences 2017; 8(2): 212-216.
- Khalili A, Davodi M, Pouladi S, Paymard A, Shayan A, Azodi P, Azodi F, Molavi Vardanjani M, Jahanpoor F. Comparative Study on the Effect of Professional Ethics Education Using Two Methods, Group Discussion and Multi-Media Software on the Knowledge of Nursing Students. Research Journal of Pharmaceutical, Biological and Chemical Sciences 2016; 7(4): 1-7.
- Hazavehei SM, Khani Jeihooni A, Hasanzadeh A, Amini S. The effect of educational program based on BASNEF model for eye care in noninsulin dependent diabetic patients. Journal of research in health sciences 2010; 10(2) :81-90.
- Bekhradian N, Khalili A, Bargrizan S, Motlagh AH, Paymard A, Vahdatnejad J. Comparison of Knowledge of Medical and Paramedical Intern about of CPR, 2015. Health Sciences 2016; 5(9): 128-31.
- Karimi M, Eslami Z, Shamsi F, Moradi J, Ahmadi AY, Baghianimoghadam B. The Effect of Educational Intervention on Decreasing Mothers' Expressed Breast Milk Bacterial Contamination Whose Infants Are Admitted to Neonatal Intensive Care Unit. Journal of

Research in Health Sciences 2012; 13(1): 43-7.

- 8. The effect of using of Ergonomics Knowledge in Preventing Occupational Hazards of Medical Emergency Personnel, and Nurses Working in Intensive Care Units in Teaching Hospitals of Hamedan. Afshari A, Khalili A, Afshari R, Setvati Bassir M.R, Alazmani Noodeh F. Research Journal of Pharmaceutical, Biological and Chemical Sciences 2017; 8(2): 195-199.
- Khalili A, Paymard A, Bargrizan S, Motlagh AH, Rasaei MA, Javadi M. Investigating the Status of Respect Patient's Safety from Nurse's View in Imam Sajad Educational and Therapy Hospital, Yasuj in 2015. International Journal of Medical Research & Health Sciences 2016; 5 (7S): 273-76.
- Jahanpour F, Khalili A, Pouladi S, Zoladl M, Dehghanian H. Construction and Evaluation of Nursing Ethics Questionnaire. Armaghanedanesh 2014; 19(9): 788-796.
- 11. Baghcheghi N, Kouhestani H, Rezaei K. Comparison of the effect of teaching through lecture and group discussion on nursing students' communication skills with patients. Iranian Journal of Medical Education. 2010; 10 (3): 211-18.
- Liyaghat DM, Abedi M, jafari A, Bahrami F. Compare the effectiveness of teaching methods, teaching methods, lectures, group discussion on students' academic achievement and communication skills. Institute for Humanities and Cultural Studies Portal Comprehensive Human Sciences 2004; 5(3): 54-59.
- 13. Siavash Vahabi Y, Tadrisi SD, Ghayyem S, Ebadi A, Daneshmandi M, Saghafi Nia M. Comparing the effect of triage education in lecture and multimedia software on nurses learning. Journal of Critical Care Nursing. 2011; 4(1): 7-12.
- 14. Meshki M, Shafaghi KH, Sayedi Sani, KH, Comparing the effectiveness of nutrition education and group discussion in two ways, depending on the area of multimedia learning for pregnant women. SUMS journal 2014; 21(3): 441-453.
- 15. Hekmatpou D., Seraji M, Ghaderi T, Ghahremani M, Naderi M. Comparison of Group Discussion and Lecture Method in Students' Learningand Satisfaction of Life

Journal of Research in Medical and Dental Science | Vol. 5 | Issue 2 | April - June 2017

Instructions Unit. Qom University of Medical Sciences Journal 2013; 7(1): 10-16.

- 16. Mollazadeh H, Kameli A, Mirhosseini F, SHoja M. Comparing the effect of education by lecture and multimedia software on learning of fundamental of nursing in nursing students. Journal of North Khorasan University of Medical Sciences 2014; 6(1): 151-9.
- 17. Daneshmandi M, Asgari A, Tadrisi SD, Ebadi A, Mokhtari Nouri J. Effect of self-and buddy-aid education by lecture and multimedia software package methods on the knowledge level of personnel. Journal Mil Med 2011; 13(1): 7-10.
- 18. Asgari A, Khaghani Zadeh M. Multimedia teaching methods: Education Strategies in Medical Sciences 2009; 2(4) :173-176.
- 19. Yeh ML, Chen HH, Liu PH. Effects of multimedia with printed nursing guide in education on self-efficacy and functional activity and hospitalization in patients with hip replacement. Patient education and counseling. 2005; 57(2):217-24.
- 20. Nik kar J, Nosrati S. Teaching Ethics and teaching professional ethics in Nursing Proceedings of ethics in nursing. Tehran, 2013;164.
- 21. Aloraini S. The impact of using multimedia on students' academic achievement in the College of Education at King Saud University. Journal of King Saud University-Languages and Translation 2012; 24(2):75-82.
- 22. Adib-Hajbaghery M, Aminoroayaei-Yamini E. Nurses Perception of professional support. Feyz Journal of Kashan University of Medical Sciences, 2010;14(2):140-53.
- 23. Chenkin J, Lee S, Huynh T, Bandiera G. Procedures Can Be Learned on the Web: A Randomized Study of Ultrasound-guided Vascular Access Training. Academic Emergency Medicine. 2008; 15(10): 949-54.
- 24. Chaikoolvatana A, Kitiwongsoonthorn U. Evaluation of a computer interactive multimedia program in smoking cessation counseling (CIMPSCC) for pharmacy students. Journal of the Medical Association of Thailand= Chotmaihet thangphaet. 2009; 92(11): 1516-23.
- 25. Rahmati A, Etemadi A. Impact of coping skills training in group discussion on students' attitude towards drug abuse. Journal of Tabriz University of Medical Sciences 2006; 1(4): 1-25.

- Gomes AV, Santiago LC. Interactive multimedia in nursing: a technology for teaching-learning semiology. Revista gaucha de enfermagem 2008; 29(1): 76-82.
- 27. Reynolds M. Group work in Education and Training-Ideas in Practice. Kogan Page Limited 2009; 3(6): 42.
- Mokhtari Nouri J, Khademolhosseini SM, Ebadi A, Moradi E. Effectiveness of lecture method on nurses' learning levels in nursing education in nuclear accidents. Quarterly Journal of Nursing Management 2012; 1(2): 29-36.
- 29. Samiei Z. The concept of teaching and learning methods. Technical training and professional development courses, 2012; 7(2): 30.
- Barrass R. Study! A Guide to Effective Learnin Revision and Examination Techniques. Rutledge. 2009; 2: 59.

Journal of Research in Medical and Dental Science | Vol. 5 | Issue 2 | April - June 2017