

Optimism, Communication Skills and Its Related Factors in Midwifery Students

SAFOURA TAHERI¹, SABA FARZI², AZITA TIZNOBAIK³, HAMID TAGHINEJAD⁴, NAZANIN REZAEI⁵, ZAINAB SUHRABI⁶, TAYEBEH AZADI⁷, MAHNAZ SHAFIEIAN⁸

ABSTRACT

Introduction: Optimism is a tendency towards life and its events. It can affect health via the promotion of social relationships.

Aim: To investigate optimism, communication skills, and its related factors in midwifery students.

Materials and Methods: This descriptive-analytical study was conducted on 115 midwifery students from Ilam University of Medical Sciences who were enrolled in this study through census sampling. Data were collected using questionnaire including demographic characteristics, communication skills, and life-orientation questionnaires. Data were analysed using descriptive and analytical statistics in SPSS version 16.

Results: The mean score of communication skills and optimism was 108.9 ± 10.9 and 13.9 ± 3.5 , respectively. Pearson's correlation

coefficient showed that there was a direct correlation between communication skill and optimism scores ($r=0.477$, $p<0.001$). Analytical statistical analysis showed a direct relation between age and communication scores ($p=0.01$) and there was a significant relation in the mean score of communication skills in married people than in single ones ($p=0.02$). Also, there was a significant correlation between optimism score and the level of awareness of the field of study ($p<0.001$).

Conclusion: In this study, the level of communication skills in midwifery students in Ilam University of Medical Sciences, Iran was moderate and comprehensive training is required to improve the skills. The level of optimism towards life in most midwifery students was relatively good, but further studies are suggested in this regard.

Keywords: Agents, Collegian, Ilam, Intercommunication, Iran, Life orientation

INTRODUCTION

Optimism is a kind of orientation towards life and its events. Optimists look to the future more positively and experience a positive life [1]. Optimism leads to a lack of pessimistic interpretation of the realities and others behaviour, avoidance of negative and imaginative thoughts, avoidance of personalizing problems and civility, hoping for the future, and expressing satisfaction with life [2].

Research has shown a positive relationship between optimism and academic success; optimistic people are able to see their future in a positive state that is relevant to academic success and also has a positive impact on perseverance and more effective problem solving [3]. It is also anticipated that optimism can affect health via the promotion of social relationships [4].

Many researchers consider the ability to establish right communication as one of the most important characteristics of health workers. Members of the health team need accurate and consistent information on the patient's circumstances, appropriate analysis, considering the possible choices and outcome of each of them to make the right decisions and this process is not possible without the participation of the health team [5]. Hence, lack of cooperation and communication between the team members has been reported as the main cause of medical errors [6].

Acquisition of communication skills for effective communication of the health team plays an important role in improving professional communication and quality of health services. Among the staff in the health sector, midwives have important responsibilities in health counseling and education not only for women, but also for the family and society, and are responsible for maintaining and improving maternal and child health, providing high-quality care and accurate information to the recipient [7]. An experienced midwife

need to have an effective communication with clients and their families, colleagues and people working in other specialties in order to achieve these goals.

Perhaps acquisition of professional competencies, including communication skills of health team members, can be said to be formed mainly during the university period. Therefore, it is necessary to examine the communication skills and optimism in life at university level to improve professional status and service planning can be done properly at student level. It should be noted that no study has investigated optimism in life and its relation with communicative skills in any medical sciences group in Iranian society. Now, with regard to its importance and research gap, this study was conducted with the aim to evaluate optimism and communication skills of midwifery students.

MATERIALS AND METHODS

This descriptive-analytical study was carried out during September to December, 2016 including all undergraduate midwifery students from the first to eighth semester of Nursing and Midwifery Faculty of Ilam University of Medical Sciences, Iran. After coordinating with college officials, the researchers asked participants to complete the questionnaires. The questionnaire was completed by students in Training place (hospital, health center and classrooms).

Inclusion criteria were studying midwifery in Ilam University of Medical Sciences and willingness to participate in the study. Patients of Drug addiction, history of medical illness, history of referral to a psychiatrist or psychologist, drug use or hospitalization due to mental illness in recent years, and severe tension during the past six months such as the death of the closest relatives were excluded.

The data gathering tool used was a three-part questionnaire including demographic characteristics (age, total grade, semester, participation in communication skills, workshops, etc.), optimism questionnaire, and communication skills questionnaire. A life-orientation questionnaire was used to assess optimism, which is characterized by personal desires in the future. This version was designed by Scheier MF et al., and its reliability was confirmed by Cronbach's alpha of 0.7 [8]. The validity and reliability of this test has been analysed by Hassanshahi MM [9]. We also tested the reliability of the tool by Cronbach's alpha. The reliability of the tool was tested with the participation of 10 midwifery students. Cronbach alpha coefficient for optimism questionnaire was 0.75. Life-orientation questionnaire consists of Optimism and Pessimism scales, with 10 items (three items assess optimism, three assess pessimism, and four of them are fillers). The respondents indicated the extent to which they agreed with each item on a 5-point Likert scale (0 for completely disagree, 1 for disagree, 2 for no opinion, 3 for agree, and 4 for completely agree). Questions 3, 7, and 9 had a reverse score. Questions 2, 5, 6, and 8 can be ignored. The overall score was from 0 to 24 with six questions in life-orientation questionnaire and scores closer to 24 show higher optimism.

Queendom communication skills test-revised questionnaire (2004) was designed to measure communication skills [10]; the validity and reliability of this test has been analysed by Hosseinchari M and Fadakar M [11]. Subcategory communication skills that are considered on this scale include the listening skill, the skill to receive and send messages, insight into communication, emotional control, and assertion communication. The questionnaire had 34 items with a Likert scale of 1 to 5: never (1 point), rarely (2 points), sometimes (3 points), often (4 points), and always (5 points). The total score of each person was from 34 to 170. The low score indicates weakness in communication skills. The reliability of the tool was tested with the participation of 10 midwifery students. Cronbach alpha coefficient for communication skills questionnaire was 0.83.

In order to observe ethical considerations, the researcher, provided a full explanation on the purpose of research and confidentiality of the information. Also, entrusted the students' satisfaction and trust to complete the questionnaire and to sign the consent form. An anonymous questionnaire was used for confidentiality of information and each questionnaire was assigned a separate code. This study is a research project with the number 90936 approved by Ilam University of Medical Sciences.

STATISTICAL ANALYSES

Data were analysed by descriptive statistical methods (frequency distribution, percentage, and mean) and analytical statistics (Pearson's correlation coefficient, Spearman's correlation coefficient and ANOVA) using SPSS version 16 (SPSS Inc, Chicago, IL, USA). $p < 0.05$ was considered as Statistically significant. Kolmogrov-Smirnov test showed that distribution of quantitative variables followed the normal distribution. Therefore, parametric tests were used.

RESULTS

Out of the total 126 midwifery students in the research period, 115 students completed the questionnaire. The mean age, total grade and number of exercise sessions per week of the participants was 23.4 ± 5.5 years, 15.90 ± 1.31 and 1.53 ± 1.43 , respectively. Most students were single (71.3%), semester 6 (25.2%). Students (42.6%) had a history of participation in communication skills workshops. Also, 60% of the people were aware of the degree before they chose the course.

The mean score of communication skill was 108.9 ± 10.9 , with the lowest being 84 and the highest was 132. The mean score of

optimism was 13.9 ± 3.5 , with the lowest being 5 and the highest was 21. Pearson's correlation coefficient showed that there was a direct correlation between communication skill and optimism scores ($r = 0.477$, $p < 0.001$).

Pearson's correlation coefficient showed that the communication scores had a direct relation with age ($r = 0.238$, $p = 0.01$), but there was no significant relationship with other variables. Spearman's correlation coefficient showed that optimism score had a reverse relation with the level of awareness of the field of study ($r = -0.336$, $p < 0.001$), but there was no significant relationship with other variables [Table/Fig-1].

Independent sample t-test showed that the mean score of communication skills in married people was significantly higher than in single ones ($p = 0.02$), but there was no significant relationship with history of participation in communication skills workshops ($p = 0.18$). Independent sample t-test showed that the mean score of optimism was not relation with marital status ($p = 0.98$) and history of participation in communication skills workshops ($p = 0.38$) [Table/Fig-2].

Variable	Optimism		Communication skills	
	p	r	p	r
Age	0.75	0.031	0.01	0.238
Total grade	0.11	-0.084	0.42	0.094
Exercise per week	0.10	-0.182	0.08	-0.194
Term of semester	0.24	0.112	0.25	0.108
Degree knowledge from the field	<0.001	-0.336	0.12	0.146

[Table/Fig-1]: Correlation coefficients between communication skills scores and optimism with demographic characteristics. Pearson's correlation coefficient, Spearman's correlation coefficient. Statistically significant: $p < 0.05$

	Variable		Mean±SD	p-value
Communication skills	Marital status	Unmarried	108±10.2	0.02
		Married	113.3±12.5	
	History of participation in communication skills workshops	Yes	107.3±11.6	0.18
		No	110.3±10.9	
Optimism	Marital status	Unmarried	13.94±3.5	0.98
		Married	13.92±3.7	
	History of participation in communication skills workshops	Yes	13.9±4.1	0.38
		No	14.4±3.1	

[Table/Fig-2]: Comparison of mean scores of communication skills and optimism according to demographic characteristics. Independent sample t-test. Statistically significant: $p < 0.05$

DISCUSSION

According to the results of the study, the mean of the students' optimism scores was 13.9 ± 3.5 , with the lowest of 5 and the highest was 21. In the study of Ozdemir M et al., the average score of optimism in nursing and midwifery students was 18.5 ± 4.54 [12], which is close to the average score in the present study. They reported moderate levels of optimism among students which is consistent with the findings of the present study. Taati F et al., evaluated the role of optimism on the relationship between stressful academic experiences and the response to these experiences in students; the average score of optimism in women was 3.75 ± 19.19 [13] which was consistent with the average score of optimism among midwifery students.

In the present study, the mean score of communication skills among midwifery students was 108.9 ± 10.9 . In a study conducted by Ozdemir M et al., among midwifery and nursing students in Turkey, the results showed that the overall mean score of communication skills was 165.15 ± 15.39 , which was reported at the average level [12]. In a descriptive-analytical study conducted by Salimi

M et al., the average score of interpersonal communication skills was 99.22 ± 9.91 [14]. In a similar study by Mahmoudi GH et al., the communication skills of midwifery students were reported at a moderate level and higher than nursing students [15]. Although some studies have used different questionnaires, the results of these studies are consistent with the average score of communication skills reported in the present study.

In the present study, Pearson's correlation coefficient showed that there was a direct correlation between communication skill and optimism scores ($r=0.477$, $p<0.001$). In the study of Ozdemir M et al., there was a correlation between the level of communication skills and the mean score of optimism, too [12]. This finding suggested that students who were optimists can have higher communication skills.

In the present study, the findings showed that optimism score was significantly correlated with the level of knowledge of the field ($p<0.001$). Independent t-test also showed that life orientation score was not significantly correlated with other variables ($p=0.18$). It can be concluded that students who are well-informed about the field of study and the issues are capable of self-control and proper management when faced with the challenges in their studies. Thus, a person does not exhibit pessimism and disappointment towards the future. Students may also face problems such as separation from the family, inability to adapt to living in a dormitory, meeting their expectations of life, and not being compatible with the environment at the time of entering the university [16]. Such a negative feeling and a stressful life can lead to a variety of psychological problems, a decline in academic success, and emotional feelings, such as disappointment for the future [17]. Steptoe A et al., observed that optimism is related to healthy behaviours such as fast walking and regular physical activity, while in the present study, the amount of optimism does not have a meaningful relationship with the number of exercise per week [18].

In the present study, the findings showed that there was a direct relationship between communication skills and age ($p=0.01$). Independent t-test also showed that the mean score of communication skills in married people was significantly higher than single ones ($p=0.02$), but had no relationship with history of participation in communication skills workshops ($p>0.05$). In the study of Mirhaghjoo N et al., there was a significant difference between marital status, communication skills, training history, and mean score of communication skills, such that married people and people with a history of communicative skills training had a higher mean of communication skills scores. The increase in age in this study also had a significant relationship with the amount of communication skills [19]. These findings, in terms of age ($p=0.01$) and marital relationship ($p=0.02$), had a significant relationship in the present study. This finding may be due to the fact that married people have higher communication abilities, because they are more mature in their individual relationships seeking to acquire more roles. The findings of Rezaiean M et al., showed that with aging, the amount of communication skills increased significantly [20], which is consistent with the result of the present study, such that the score of communication skills is in direct relation with age, but in the findings of a study by Barati M et al., communication skills decreased with aging [21].

In the present study, the relationship between communication skills and the term of semester of midwifery students has not been meaningful. Also, Fellowes D et al., showed that experience does not increase the amount of communication skills [22]. But Barati M et al., found that there was a positive and significant relationship between communication skills of medical students and their term of semester [21].

Salimi M et al., found out that there was no relationship between the total average and history of participation in communication skills workshops with communication skills [14], which is in

line with the present study. However, in a study by Makoul G in nursing students, there was a significant difference between trained and untrained students about communication [23], this was not consistent with the present study and the study by Salimi M et al., [14]; One of the reasons that can be noted for this discrepancy with the findings of other studies is the difference in measurement tools, the difference in the student's academic discipline, the difference in the quality of education provided, and the willingness of students to learn non-syllabus materials, experiencing them, and ultimately, the use and application of these experiences. Mirhaghjoo M et al., reported the mean score of communication skills of people with a history of communication skills training to be significantly higher than those without communication skills training [19]. However, in the present study there was no significant relationship between passing interpersonal communication skills workshop and communication skills level among the students ($p=0.18$). It seems that the reason for this difference is due to different educational environments and differences in the quality of teaching. Since the appropriate communication skills and positive orientation in life are considered as a basic and special need for students and as they shape their lifestyle, it is necessary to emphasize on the importance of learning and applying these skills during study in the university and promote these skills through workshops held by experts in these fields.

LIMITATION

The limitation of the present study was the use of self-report questionnaire. Therefore, a possibility of bias in completing the questionnaires could be there, which was outside the control of the researcher.

CONCLUSION

In this study, the communication skills of midwifery students were measured as moderate. Therefore, a comprehensive training is needed to improve these skills in order to increase the quality of care and education in clinical settings and universities. Also, optimism towards life was relatively adequate in most midwifery students. Considering the lack of studies in this field and the newness of this issue in medical sciences, further research is suggested in order to design programs to improve the proper orientation towards life in different groups of students.

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REFERENCES

- [1] Kivimaki M, Elovainio M, Singh Manoux A, Vahtera Y, Helenius H, Pentti Y. Optimism and Pessimism as predictors of change in health after death or onset of severe illness in family. *Health Psychol.* 2005;24(4):413-21.
- [2] Farzand vahi J, Joshan A. The effect of optimism in individual life with approach to verses, traditions and psychology. *Int J Public Opin Res.* 2013;2(5):72-83.
- [3] Harris JS. The effects of a social-emotional skills training program on optimism in elementary students. *Educational Specialist.* 2014. Paper 51.
- [4] O'Shea ER, Pagano M, Campbell SH, Caso G. A descriptive analysis of nursing student communication behaviours. *Clin Simul Nurs.* 2013;9(1):e5-e12.
- [5] Despina LA. Patient safety and collaboration of the Intensive Care Unit team. *Crit Care Nurse.* 2009;29:85-91.
- [6] Farzi S, Irajpour A, Saghaei M, Ravaghi H. Causes of medication errors in Intensive Care Units from the perspective of healthcare professionals. *J Res Pharm Pract.* 2017;6(3):158-65.
- [7] Jones Sh. *Ethics in midwifery.* 2nd Edition. London: Mosby Ltd; 2000.
- [8] Scheier MF, Carver CS, Bridges MW. Distinguishing optimism from neuroticism (and trait anxiety, self-mastery, and self-esteem): A reevaluation of the life orientation test. *J Pers Soc Psychol.* 1994;67(6):1063-78.
- [9] Hassanshahi MM. The relationship between optimism and coping strategies in university students. *Q J Fundam Mental Health.* 2002;4(15&16):86-98.
- [10] Queendom. Communication skills Test-Revise. 2004. Available online by internet: <http://www.queendom.com/cgibin/transfer.cgi>.

- [11] Hosseinchari M, Fadakar M. The effect of university on communication skills based on comparison of high school students and University students. *Daneshvar Raftar*. 2005;12(15):21-32.
- [12] Ozdemir M, Kaya H. Midwifery and nursing students communication skills and life orientation: correlation with stress coping approaches. *Nurs Midwifery Stud*. 2013;1(4):198-205.
- [13] Taati F, Shokri O, Shahidi S. The mediating role of optimism on the relationship between experience of and reaction to stressful academic experiences. *Contem Psychol*. 2013;8(1):73-90.
- [14] Salimi M, Peyman H, Sadeghifar J, Toloui Rakhshan S, Alizadeh M, Yamani N. Assessment of interpersonal communication skills and associated factors among students of allied medicine school in Tehran University of Medical Sciences. *Iranian Journal of Medical Education*. 2013;12(12):895-902.
- [15] Mahmoudi GH, Jahani MA, Naghavian M. The communicating skills and mental health of nursing and midwifery students in north of Iran. *Int J Nurs Sci*. 2013;3(2):33-37.
- [16] Inanc N, Savas HA, Tutkun H, Herken H, Savas E. The clinical and socio-demographic characteristics of the students psychiatrically examined at the Medico-Social Center of Gaziantep University. *Anatolian J Psychiat*. 2004;5: 222-30.
- [17] Fadaei Z, Valizadeh L, Rahkar-Farshi M, Zamanzadeh V, Farnam A. Coping with stress in Iranian School-Age Children. *Nurs Midwifery Stud*. 2012;1(1):31-35.
- [18] Steptoe A, Wright C, Kunz SR, Iliffe S. Dispositional optimism and health behaviour in community dwelling people association on switch healthy ageing. *Br J Health Psychol*. 2006;11:71-84.
- [19] Mirhaghjoo N, Nayebi N, Majdtemiri R, Kazemnejadlyli E. Relationship skills with patients and related factors in nursing students. *J Holist Nurs Midwifery*. 2104;25(75):93-101.
- [20] Rezaiean M, Zare bidaki M, Bakhtar M, Kargar S. Studying the communication skills of the faculty members of Rafsanjan University of Medical Sciences in 2014. *JRUMS*. 2014;14(13):417-26.
- [21] Barati M, Moeni B, Samavati E, Salehi F. Assessment of communication skills of medical students: verbal skills, listening and feedback. *J Urmia Nurs Midwifery Fac*. 2012;10(2):145-55.
- [22] Fellowes D, Wilkinson S, Moore P. Communication skills training for health care professionals working with cancer patients, their families and/or carers. *Cochrane Database syst Rev*. 2003;2:CD003751.
- [23] Makoul G. Communication skills education in medical school and beyond. *JAMA*. 2003;289:93.

PARTICULARS OF CONTRIBUTORS:

1. PhD Candidate of Reproductive Health, Department of Midwifery and Reproductive Health, Faculty of Nursing and Midwifery, Tehran University of Medical Sciences, Tehran, Iran; MSc of Midwifery, Department of Midwifery, Faculty of Nursing and Midwifery, Ilam University of Medical Sciences, Ilam, Iran.
2. PhD Student of Nursing, Faculty of Nursing and Midwifery, Isfahan University of Medical Science, Isfahan, Iran.
3. PhD Candidate of Reproductive Health, Department of Midwifery and Reproductive Health, Faculty of Nursing and Midwifery, Tehran University of Medical Sciences, Tehran, Iran; MSc of Midwifery, Department of Midwifery, Maternity and Child Care Research Center, Faculty of Nursing and Midwifery, Hamadan University of Medical Sciences, Hamadan, Iran.
4. Assistant Professor, Department of Nursing, Faculty of Nursing and Midwifery, Ilam University of Medical Sciences, Ilam, Iran.
5. MSc of Midwifery, Department of Midwifery, Faculty of Nursing and Midwifery, Ilam University of Medical Sciences, Ilam, Iran.
6. MSc of Midwifery, Department of Midwifery, Faculty of Nursing and Midwifery, Ilam University of Medical Sciences, Ilam, Iran.
7. Students Research Committee, Ilam University of Medical Sciences, Ilam, Iran.
8. MSc of midwifery, Department of Midwifery, Faculty of Nursing and Midwifery, Ilam University of Medical Sciences, Ilam, Iran.

NAME, ADDRESS, E-MAIL ID OF THE CORRESPONDING AUTHOR:

Mahnaz Shafieian,
Department of Midwifery, School of Nursing and Midwifery, Ilam University of Medical Sciences, Ilam, Iran.
E-mail: sh.mahnaz1@yahoo.com

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