Journal of Current Medical Research and Opinion

Received 30-03-2024 | Revised 31-03-2024 | Accepted 18-04-2024 | Published Online 20-04-2024

ISSN (O) 2589-8779 | (P) 2589-8760 DOI: https://doi.org/10.52845/CMRO/2024/7-4-21



Original Research

knowledge and Attitude of Nursing Students' towards Palliative Care

Nasir Muwfaq Younis¹ | Mahmoud Mohammed Ahmed²

¹Prof, PhD. College of Nursing / University of Mosul/IRAQ ²Assist.Prof, PhD. College of Nursing / University of Mosul/ IRAQ



Abstract:

Background: Palliative care refers to the comfort care that is given to terminally ill person so as to promote comfort and relieve pain.

Objective: To assess the knowledge and attitude of Nursing students' towards palliative care.

Methods: A descriptive study that conducted during the period of 2/2/2024 to 1 /3/ 2024 at college of nursing / university of Mosul. Probability (simple random sample) was selected for the present study. A sample of students college of nursing in Mosul university (100 students). The subject's acceptance to participate in the study was through the use of a specialized consent form.

Results:This study finding the shows that most of the sample participating in the study amounted to 100 nursing students, that most of the study sample was from 24 to 27 years old, at a rate of 77%, and that the sample of female was higher than that of male by (71%), Most of the sample was unmarried, with a high percentage (88%).

Conclusion: The findings of this study showed that nursing student are not knowledgeable about palliative care in college of nursing and was the moderate attitude towards palliative care. This study emphasize the need for developing all nursing school curricula as well as continuing nursing and medical education program offerings.

Keywords: knowledge, attitude, Nursing students', palliative care.

Copyright: ©2024 The Authors. Published by Publisher. This is an open access article under the CC BY-NC-ND license (https://creativecommons.org/licenses/by-nc-nd/4.0/).

Introduction:

Life-threatening diseases cause a decrease in the quality of life and they bring about various problems including physical, psychosocial, and spiritual, and especially pain. In patients with diseases that cannot be treated despite the advances in medicine, approaches aiming at reducing the patient's distress and improving the quality of life should be applied. In accordance with this view, the approach of palliative care has been developed in order to meet the needs of patients and their relatives ⁽¹⁾. Palliative care refers to the comfort care that is given to terminally ill person so as to promote comfort and relieve pain. The goal of this care is to provide comfort and highest-quality life; and to not only cure patients, but also address their mental and spiritual needs along with the physical ones ⁽²⁾. Theterm 'palliative'isderivedfromthe



Latinword 'pallium',meaning apiece of cloth or a curtain ⁽³⁾. One essential characteristics of palliative care is the necessity of the team approach.

Thenursewhospendsalongtimewithpatientsandaim stogivethemthebest-qualitcare has a prominent place in this team. This is because a nurse is the one member of the health discipline who deals with the life-threatening diseases most closely and directly provides care to patients whose death is imminent ⁽⁴⁾. Nurses are highest in number when it comes to the healthcare providers in almost every country; they often primary caregivers. are the Nursesbeenhistoricallyinvolvedintheprovisionofpa lliativecare. They have played various roles in the deve lopment of palliative care, offering leadership, support, and focus for the movement ⁽⁵⁾. It is necessary for the palliative patients to be admitted to hospital because the problems cannot be handling d at home due to the insufficient family care. More than half of the home patients move in their last month's only to die because of acute medical problems, lack of professional homecare, or an overload of the informal care ⁽⁶⁾. A very important value for palliative care is to enable people to make decision regarding the selection of their end-of-life care and the place of death. Data also suggest that most people with advanced illnesses prefer to be cared for and die at home or close to it⁽⁷⁾. Nurses as well as other healthcare workers often feel unprepared for their tasks in palliative care and a rein much need of more expert ise in the field of pain and symptom management, communication, and dealing with ethical dilemmas (8)

Methods and Materials:

A descriptive study that conducted during the period of 2 /2/ 2024 to 1 /3/ 2024 at college of nursing / university of Mosul. The present study was conducted at Nineveh Governorate. It is a governorate in northern Iraq, with Mosul as its capital. Mosul is Iraq's second largest city, located 465 kilometers north of Baghdad. The sample was collected from students of the College of Nursing -

University of Mosul. The study has been conducted in a period of three months extending from 2/2/2024 to 1 /3/ 2024 at college of nursing / university of Mosul. Probability (simple random sample) was selected for the present study. A sample of student's college of nursing in Mosul university (100 students). The subject's acceptance to participate in the study was through the use of a specialized consent form. The interview was conducted to fill out the questionnaire with in students nursing colleges in university of Mosul included and each one of them needed approximately (15-20) minutes to complete the interviewing and answering the questionnaire. The information of data was collected through a questionnaire used to assessment knowledge and attitude of Nursing students towards palliative care. The instruments of the study were composed of (3)parts, which included the following: Part One: Demographic characteristics that include (ages, class, gender and martial status).Part Two: To to assessment knowledge of Nursing students' towards palliative care. It consisted of (10) multiple choice questions, in three answer(Yes, No, I don't know).Part three: To to assessment attitude of Nursing students' towards palliative care. It consisted of (12) multiple choice questions, in five answer (strong agree, agree, neutral, disagree, strong disagree). The Statistical Package for Social Sciences (SPSS) version 26 was used to analyze the statistical results. A descriptive approach was applied. Using percentages and frequencies to calculate student's demographic description characteristics ⁽⁹⁻⁶⁰⁾. To estimate the value of the data, means and standard deviation $(\pm SD)$ were used. Using of Pearson coefficient correlation (test-retest) for testing the study tools reliability.

Variables	No.	Frequency (%)	Mean +SD
(A):Age		·	
20 – 23 Years	10	10%	Mean (25.1)
24 – 27 Years	77	77%	SD (1.88)
28 years and more	13	13%	
(B):Sex			
Male	29	29%	
Female	71	71%	
(C): Class			
3 stage	41	41%	
4 stage	59	59%	
(D): Marital status			
Married	8	8%	
Single	88	88%	
Divorced	4	4%	

 Table (1): Distribution of Demographical Characteristics of sample (100)

Table No. 1 shows that most of the sample participating in the study amounted to 100 nursing students, that most of the study sample was from

24 to 27 years old, at a rate of 77%, and that the sample of female was higher than that of male by (71%), Most of the sample was unmarried, with a high percentage (88%).

 Table (3): Nursing students knowledge towards palliative care (N=100)

	knowledge	Yes	NO	I do not
				know
1	Palliative care is specialized medical care that focuses on relieving pain and	15	56	29
	other symptoms in people with serious illnesses.			
2	The palliative care team seeks to provide comfort and improve the quality of	30	25	45
	life for the patient and their families.			
3	Palliative care services are provided by a team of specially trained doctors,	44	12	44
	nurses, social workers, clergy and other specialists.			
4	Palliative care can be provided to people with serious or life-threatening	23	43	34
	illnesses of all age groups			
5	A palliative care plan is designed to fit your life and needs	21	39	40
6	Palliative care services include support for many difficult situations and	44	15	39
	decisions that you and your family face as a result of a serious illness.			
7	Referrals: A palliative care specialist may refer you to other doctors, such as	27	13	60
	a psychiatrist or complementary medicine specialist.			
8	Advance care planning A member of the palliative care team can talk with you	22	30	48
	about the goals and things you want to achieve from your care.			
9	The palliative care team collaborates with your doctors to ensure good	55	10	35
	coordination of your care.			
10	Research suggests that utilizing palliative care services early can improve the	30	25	45
	quality of life for people with serious illnesses.			

Younis and Ahmed / knowledge and Attitude of Nursing Students' towards Palliative Care

Table 3. Assessment of the nursing student	t' knowledge levels of palliative care
--	--

Knowledge level	Frequency	Percent
Poor Knowledge	51	51%
Fair Knowledge	33	33%
Good Knowledge	14	14%
Total	100	100%

Table No:(3)A shows that nursing students' knowledge about palliative care was very weak.

Table (4):Nursing students	attitude	towards palliative care (N=100)
----------------------------	----------	---------------------------------

	Attitude	Strong	Agree	Natural	Dis-	St-dis-
		agree			agree	agree
1	Palliative care is provided only to the	14	22	44	12	8
	hospitalized patient					
2	As a patient nearing death, the nurse should	33	9	15	27	16
	withdraw from involvement with the patient					
3	It is helpful for a person with a chronic illness	11	25	23	22	18
	to express feelings.					
4	The length of time required to provide	44	5	0	2	49
	nursing care. A dying person will love me					
5	The family should maintain as natural an	67	7	12	13	1
	environment as possible for their dying					
	members					
6	The family should participate in the physical	21	44	22	7	6
	care of the dying person.					
7	It is difficult to form a close relationship with	15	13	21	43	8
	the family of a dying member					
8	Nursing care should be provided to the	11	14	33	12	30
	patient's family throughout the period of grief					
	and bereavement					
9	Nursing care must extend to the family of a	7	13	20	33	27
	dying patient					
10	When a patient asks, "Nurse, am I going to	11	15	2	70	2
	die?" I think it is best to change the topic to					
	something cheerful					
11	I fear I will become chronically friends with	14	7	33	32	14
	the sick and dying					
12	I would be uncomfortable if I entered the	24	25	1	20	30
	room of a terminally ill person and found him					
	crying					

Table 5. Assessment of the nursing student' attitude of palliative care

Attitude level	Frequency	Percent
Poor attitude	36	36%
Moderate attitude	59	59%
Good attitude	5	5%
Total	100	100%

Table No.5.A shows that nursing students' attitude about palliative care was moderate .

Discussion:

This is the first study of its kind conducted in Iraq. Literature review does not indicate any comprehensive study for palliative care knowledge targeting nurses' practices anywhere in our country. Nurses are the most important first contacts of patients. It is necessary to first establish nursing students baseline knowledge and beliefs so that relevant educational programs can be initiated. Assessing nursing knowledge is also important because knowledge plays a causal role in attitude or behavioral consistency (61. In this study the description of knowledge scores has shown that 14 % had good knowledge, about palliative care. To the contrary this study finding in ⁽⁶²⁾. showed that 30.5% of nurses had as good knowledge; However, ⁽⁶³⁾ study found in Thai general physicians more knowledgeable 55.7% than this study. The low level of nursing student's knowledge about palliative care in this study could also be associated with the lack of specific palliative care units in Iraq. The description of attitude scores shows that 59% of them had moderate attitude towards palliative care. This finding agreed with the findings of Kassa et al that 259 (76%) had favorable attitude towards Palliative care. And ⁽⁶⁴⁾ indicated 92.8% of nursing students had favorable attitude (56.7 \pm 8.5) towards palliative care.A favorable attitude towards the care of dying patients was observed in the current study. Attitude has a pivotal influence on the quality of palliative care provided ⁽⁶⁵⁾; this result is in line with previous studies conducted In Muslim countries, including Palestine ⁽⁶⁶⁾ and Turkey ⁽⁶⁷⁾; however, the attitude scores are slightly lower than those reported in China Mainland⁽⁶⁸⁾, the USA ⁽⁶⁹⁾ and Sweden⁽⁷⁰⁾; however, it contradicts another study conducted in China which reported negative attitudes among nursing students⁽⁷¹⁾. The differences across studies might be attributed to educational, religious and cultural differences across nations (72). The favorable attitude among Iraq nursing students justified the Islamic religious beliefs that acknowledge the inevitability of death and accept death as a normal process; however, the attitudes of Iraq students could be strengthening through enhancing their knowledge about Palliative care.

The variability between countries suggests how culture can influence the formation of attitudes regarding death and dying. The slightly high score of attitudes in the USA, Sweden, and China might be ascribed to the long development history of Palliative care research and policies. For instance, in Sweden, most universities provide Palliative care education for nursing students.

Conclusion:

The findings of this study showed that nursing student are not knowledgeable about palliative care in college of nursing and was the moderate attitude towards palliative care. This study emphasizes the need for developing all nursing school curricula as well as continuing nursing and medical education program offerings.

Reference:

1. Çatıker A, Uğur HG, Bülbül İ, Koçer E. The relationship between caregiver burden and anger level of informal caregivers of patients in palliative care centre. International Journal of Palliative Nursing. 2023 Aug 2;29(8):385-92.

2. Ayed A, Sayej S, Harazneh L, Fashafsheh I, Eqtait F. The Nurses' Knowledge and Attitudes towards the Palliative Care. Journal of Education and Practice. 2015;6(4):91-9.

3. Pastrana T, Jünger S, Ostgathe C, Elsner F, Radbruch L. A matter of definition–key elements identified in a discourse analysis of definitions of palliative care. Palliative medicine. 2008 Apr;22(3):222-32.

4. Prem V, Karvannan H, Kumar SP, Karthikbabu S, Syed N, Sisodia V, Jaykumar S. Study of nurses' knowledge about palliative care: a quantitative cross-sectional survey. Indian journal of palliative care. 2012 May;18(2):122.

5. Allen D, Marshall ES. Children with HIV/AIDS: A vulnerable population with unique needs for palliative care. Journal of Hospice & Palliative Nursing. 2008 Nov 1;10(6):359-67.

6. Visser G. Mantelzorg in de palliatief terminale fase. Lemma; 2006.

7. Tang ST. When death is imminent: where terminally ill patients with cancer prefer to die and why. Cancer nursing. 2003 Jun 1;26(3):245-51.

8.Armes, P. J. and Addington-Hall, J. M. (2023). Perspectives on symptom control in patients receiving community palliative care. Palliative Medicine, vol. 17, no. 7, pp. 608–615.

9.Alkaisy MS, Ahmed SS, Alsydan MS, Suleiman AA, Younis NM, Ahmed MM. Post-Traumatic Stress Disorder Following Wars and Repression at Mosul City-Iraq. Indian Journal of Forensic Medicine & Toxicology. 2021 May 17;15(3):1240-5.

10. Younis NM. Nursing students' attitudes towards older adult people. Zagazig Nursing Journal. 2015 Jul 1;11(2):151-9.

11.Ahmed AS, Younis NM. Assessment of Nurses Knowledge Regarding Blood Exchange Transfusion at Mosul Neonatal Care Units. Journal of Current Medical Research and Opinion. 2024 Apr 12;7(04):2285-8.

12.Younis NM, Ahmed MM. Knowledge and Compliance with Standard Precautions among Nursing Students in Mosul University. Assiut Scientific Nursing Journal. 2014 Jun 1;2(3):152-9. 13.Jasem WM, Younis NM. Assessment of Nurses' Performance Regarding Nursing Documentation in Pediatric Wards at Mosul Hospitals. Journal of Current Medical Research and Opinion. 2024 Apr 12;7(04).

14.Younis NM. Prevalence of Electronic Hookah and Risk Factors among University Students in Mosul City/Iraq. International Journal of Membrane Science and Technology. 2023 Jul 2;10(2):1422-7.

15. Younis NM, Ahmed MM, Dhahir NM.
Prevalence of coronavirus among healthcare workers. International Journal of Medical Toxicology & Legal Medicine.
2021;24(1and2):267-70.

16. Ahmed MM, Younis NM, Hussein AA. Violence towards nurses staff at teaching hospitals in Mosul City. Indian Journal of Forensic Medicine & Toxicology. 2020 Jul 30;14(3):2598-603.

17. Younis NM, Ahmed MM, Hussein AA. Nurses' knowledge, attitude and practice towards preparedness of disaster management in emergency of mosul teaching hospitals. Medico-Legal Update. 2020 Jul;20(3):775-9.

18. Naji AB, Ahmed MM, Younis NM. Adherence the preventive measure against for covid-19among teachers at university of mosul. International Journal of Medical Toxicology & Legal Medicine. 2021;24(3and4):273-7.

19.Younis NM, Taher AK. Efficacy of Trans Theoretical Model Intervention for Improving Behaviors related to Electronic Hookah Smoking among Healthcare Workers in Mosul Hospital: A Randomized Control Trail. International Journal of Membrane Science and Technology. 2023 Jul 2;10(2):1433-9.

20. Ahmed MM, Younis NM, Hussein AA. Prevalence of tobacco use among health care workers at primary health care centers in Mosul City. Pakistan Journal of Medical and Health Sciences. 2021;15(1):421-4.

21. Younis NM, Mahmoud M, Ahmed A.University Students' Attitude Towards E-Learning.Bahrain Medical Bulletin. 2021;43(2):460-2.

22.Muwfaq YN, Ahmed MM, Abdulsalam RR. Assessing Quality of Life in Palliative Care. Bahrain Medical Bulletin 2021;43(3):594-6.

23. Ahmed MM, Younis NM, Dhahir NM, Hussain KN. Acceptance of Covid-19 vaccine among nursing students of Mosul University, Iraq. Rawal Medical Journal. 2022 Apr;47(2):254-.

24. Muwfaq Younis N. Efficacy of Health Beliefs Model-Based Intervention in Changing Substance Use Beliefs among Mosul University Students: A Randomized Controlled Trial. Revis Bionatura 2022; 7 (2) 35.

25. Al-Ghurairi SA, Younis NM, Ahmed MM. Prevalence of weight gain among students of Mosul University, Iraq during quarantine 2020. Rawal Medical Journal. 2022 Jul;47(3).

26. Abbas AS, Younis NM. Efficacy of Pender's Health Promotion-based Model on Intervention for Enhancing University of Mosul Hypertensive Employees' Eating Behaviors: A randomized Controlled Trial. Revis Bionatura. 2022;7(3):35.

27. Ahmed MM, Younis NM, Abdulsalam RR. Assessment of changes in sleep habits in elementary students during covid_19 lockdown. International Journal of Medical Toxicology & Legal Medicine. 2022;25(1and2):76-80.

28. Adea MK, Lefta RM, Younis NM. Impact of psychosocial aspect parameters on psoriasis patients' quality of life at outpatient clinic in Al-

Dewania City, Iraq. Rawal Medical Journal. 2022 Dec 11;47(4):892-.

29. Ibrahim RM, Idrees NH, Younis NM. Epidemiology of leukemia among children in Nineveh Province, Iraq. Rawal Medical Journal: 2023 Jan. Vol. 48, (1):137-.

30.Taher AK, Younis NM.Assessment the Effect of a Trans theoretical Model in Improving Behaviors Health Care workers related Electronic Hookah in Mosul City /Iraq. Rawal Medical Journal: 2023 Jan. Vol. 48, (1):228-.

31.Mohammad FH, Noori LK, Younis NM.Assessment of Nutritional habits among Mosul University Students regarding breakfast. 2023 Jan. Vol. 48, (1):96-.

32. Younis NM, Ibrahim RM, Idrees NH.Prevalence of snake bite among children in Nineveh Governorate/Iraq: A retrospective study. International Journal of Medical Toxicology & Legal Medicine. 2022;25(3and4):169-172.

33. Ali HA, Abbas FF, Younis NM. Mothers' knowledge and attitudes towards breastfeeding in Thi-Qar City, Iraq. Rawal Medical Journal. 2023 May 27;48(2):514-.

34.Younis NM, Ahmed MM, Abdulsalam RR. Assessing quality of life in palliative care. International Journal of Medical Toxicology & Legal Medicine. 2021;24(3and4):115-8.

35.Bura'a LN, Younis NM. Nurses knowledge regarding to phototherapy at neonatal care units in Mosul City, Iraq. Rawal Medical Journal. 2023 May 27;48(2):379-.

36. Ahmed M M, Naji A B, Younis N M. Efficacy of an educational program based on health belief model to enhancing weight control behaviors among employees in the University of Mosul: a randomized controlled trial. Revis Bionatura 2023;8 (3) 28.

http://dx.doi.org/10.21931/RB/2023.08.03.28

37.Younis NM. Evaluation the health lifestyle of kindergarten students at Mosul city/Iraq. International Journal of Medical Toxicology & Legal Medicine. 2023;26(1and2):148-52.

38.Bura'a LN, Younis NM. An Interventional Program on Nurses Knowledge and Practice towards Phototherapy in Neonatal Care Units. International Journal of Membrane Science and Technology. 2023 Jul 2;10(2):1428-32. 39.Younis NM. Epidemiology of Hepatitis B-virus in Nineveh province: Retrospective Study. International Journal of Membrane Science and Technology. 2023 Jul 2;10(2):1440-4.

40. Ayed AY, Younis NM, Ahmed MM. Comparison of infection severity of vaccinated and unvaccinated health workers with Corona Virus: A cohort study. Journal of Education and Health Promotion. 2023 Sep 1(1):336.

41.Younis N. M., Ahmed M. M., Ayed A. Y. HIV knowledge and preventive Standards Precautions Among Healthcare Workers in Blood Transfusion Centers. Revis Bionatura 2024; 9 (1) 44. http://dx.doi.org/10.21931/RB/2024.09.01.44.

42.Abbas AS, Younis NM. Assessing the effect Pender's Model in changing employees' Eating Behaviors suffer hypertension at Mosul University Iraq. Pakistan Journal of Medical & Health Sciences. 2022 Jul 29;16(06):476-.

43.Younis NM, Ahmed MM, Dhahir NM. Knowledge and Attitude toward older adults among Nursing Students.2021.P J M H S Vol. 15, NO. 3,pp:683_685.

44.Hussein AA, Younis NM, Ahmed MM. Health Promoting Lifestyle profile Among Nursing Students in Mosul University. International Journal of Psychosocial Rehabilitation. 2020;24(09).

45.Younis NM, Naji AB. Assessing the effect of an educational intervention based on health belief model on preventive behaviors of addiction. Pakistan J Med Health Sci. 2021;15(3):813-7.

46.Ahmed MM, Younis NM, Hussein AA. Association between Internet Addiction and Sleep disturbance Among Nursing Students. International Journal of Psychosocial Rehabilitation. 2020;24(09).

47. Younis NM, Naji AB. Evaluation of preventive behaviors of addiction among students: Application of health belief model. Indian J Forensic Med Toxicol. 2021 May 17;15(4):1273-8. 48. Bura'a LN, Younis NM. Educational Program of Nurses Practices Towards to Phototherapy at Neonatal Care Units. Pakistan Journal of Medical & Health Sciences. 2023 Jun 9;17(04):530-.

49.Younis NM, Naji A. Efficacy of Health Belief Model-Based Training in Changing the Beliefs about Substance use. Kufa Journal for Nursing Sciences. 2021 Jun 25;11(1):221-9. 50.Suleiman AA, Abed SM, Ahmed SS. Assessment the Levels of Depression among Patients with Hemodialysis at the Dialysis Centers in Mosul City. Pakistan Journal of Medical & Health Sciences. 2023;17(08):67-.

51.Younis NM, Naji AB. The effect of health education based on the health belief model about changing the belief related to substance use among university students in Mosul city-Iraq. Annals of the Romanian Society for Cell Biology. 2021 May 4:14687-98.

52.Abed SM, Suleiman AA, Ahmed SS, Younis NM, Ahmed MM. Road Traffic Accident Characteristics And Injury Outcomes Among Victims In Mosul City. Journal of Pharmaceutical Negative Results. 2023 Sep 15:4102-8.

53.Younis NM, Hussein AA, Ahmed MM, Younis NM. Quality of life and occupational hazards among cement factory workers in Mosul city. QoL and Occupational Hazards among Cement Factory Workers. 2021;24(2):1-8.

54.Saad WI, Kumait AS, Younis NM. Workplace challenges and violence against nurses: subject review. Pakistan Journal of Medical & Health Sciences. 2023 Mar 2;17(01):509-.

55.Younis NM. Assessment for Mortality Rate Children Under Five Years in Mosul City. Journal of Kufa for Nursing Science Vol. 2014;4(1).

56.Younis NM, Ahmed MM, Hussein AA. Epidemiology Of Deaths From Injuries In Nineveh Governorate (2008_2012). kufa Journal for Nursing sciences. 2014;4(2).

57.Taher AK, Younis NM. Evaluation Of Processes Of Change Related To Trans Theoretical Model Of Enhancing Behaviors Of Healthcare Workers User Electronic Hookah. Journal of Pharmaceutical Negative Results. 2023 Mar 16:3190-3.

58.Younis NM, Ali MT, Hasan MK, Khalaf MS, Abdullah MN, Ahmed YL, Abdulkadir MN. Knowledge and attitude of collegians at university in Mosul towards the prevention and control of COVID-19. Turkish Journal of Physiotherapy and Rehabilitation. 2021:7975-8.

59. Younis NM, Salih YH. Nursing Students' Knowledge about Caring for the Elderly. Journal of Current Medical Research and Opinion. 2024 Apr 15;7(04):2320-7.

60. Coghlan R, Leng M, Shamieh O, Elessi K, Grant L. A role for palliative care in advancing health in conflict settings. The Lancet. 2019 Oct 12;394(10206):1324.

61. Fabrigar LR, Petty RE, Smith SM, Crites Jr SL. Understanding knowledge effects on attitudebehavior consistency: the role of relevance, complexity, and amount of knowledge. Journal of personality and social psychology. 2006 Apr;90(4):556.

62. Kassa H, Murugan R, Zewdu F, Hailu M, Woldeyohannes D. Assessment of knowledge, attitude and practice and associated factors towards palliative care among nurses working in selected hospitals, Addis Ababa, Ethiopia. BMC palliative care. 2014 Dec;13:1-1.

63. Budkaew J, Chumworathayi B. Knowledge and attitudes toward palliative terminal cancer care among Thai generalists. Asian Pacific Journal of Cancer Prevention. 2013;14(10):6173-80.

64. Karkada S, Nayak BS. Awareness of palliative care among diploma nursing students. Indian journal of palliative care. 2011 Jan;17(1):20.

65. Abu-Odah H, Molassiotis A, Liu JY. Assessment of the educational and health care system–related issues from physicians' and nurses' perspectives before developing a palliative care program within the Palestinian health care system: a cross-sectional study. Journal of Hospice & Palliative Nursing. 2022 Jun 1;24(3):E59-75.

66. Abu-El-Noor NI, Abu-El-Noor MK. Attitude of Palestinian nursing students toward caring for dying patients: A call for change in health education policy. Journal of Holistic Nursing. 2016 Jun;34(2):193-9.

67. Arslan D, Akca NK, Simsek N, Zorba P. Student nurses' attitudes toward dying patients in central a natolia. International Journal of Nursing Knowledge. 2014 Oct;25(3):183-8.

68. Zhou Y, Li Q, Zhang W. Undergraduate nursing students' knowledge, attitudes and selfefficacy regarding palliative care in China: A descriptive correlational study. Nursing open. 2021 Jan;8(1):343-53.

69. Kirkpatrick AJ, Cantrell MA, Smeltzer SC. Relationships among nursing student palliative care knowledge, experience, self-awareness, and Younis and Ahmed / knowledge and Attitude of Nursing Students' towards Palliative Care

performance: An end-of-life simulation study. Nurse education today. 2019 Feb 1;73:23-30.

70. Henoch I, Melin-Johansson C, Bergh I, Strang S, Ek K, Hammarlund K, Hagelin CL, Westin L, Österlind J, Browall M. Undergraduate nursing students' attitudes and preparedness toward caring for dying persons–a longitudinal study. Nurse education in practice. 2017 Sep 1;26:12-20.

71. Jiang Q, Lu Y, Ying Y, Zhao H. Attitudes and knowledge of undergraduate nursing students

about palliative care: An analysis of influencing factors. Nurse education today. 2019 Sep 1;80:15-21.

72. Glass AP, Chen LK, Hwang E, Ono Y, Nahapetyan L. A cross-cultural comparison of hospice development in Japan, South Korea, and Taiwan. Journal of cross-cultural gerontology. 2010 Mar;25:1-9.