Identifying and Prioritizing Ethical Challenges in Clinical Services of Patients With Confirmed COVID-19 in Iran's Hospitals

Mohsen Keshavarz¹ , Zohrehsadat Mirmoghtadaie², Maliheh Ahmadian² and Davood Rasouli³

¹Department of E-Learning in Medical Sciences, School of Paramedical Sciences, Torbat Heydariyeh University of Medical Sciences, Torbat Heydariyeh, Iran. ²Department of eLearning in Medical Sciences, School Medical Education and Learning Technologies, Shahid Beheshti University of Medical Sciences (SBMU), Tehran, Iran. ³Center for Educational Research in Medical Sciences (CERMS), Department of Medical Education, School of Medicine, Iran University of Medical Sciences, Tehran, Iran.

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ABSTRACT

AIM: Since COVID-19 has set the state of health of the country in an emergency, it is natural that in such circumstances, violation of some principles of professional ethics is inevitable. This study aimed to identify and prioritize ethical challenges in the clinical services of patients with confirmed coronavirus disease in Iran's hospitals.

DESIGN: This study was a mixed method with an exploratory sequential design.

METHODS: This study was done in 2 qualitative and quantitative phases. In the qualitative phase, a systematized review was conducted and in the quantitative phase, a questionnaire of 35 questions based on the results of Phase 1 was formulated and completed.

RESULTS: The challenges related to the provider of clinical services (physicians and nurses), the recipients of clinical services (patients), and the organizational challenges had the most significant importance, respectively (P < .05, $\chi 2 = 6.23$).

KEYWORDS: COVID-19, clinical service, ethical challenges, mixed methods research

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CORRESPONDING AUTHOR: Zohrehsadat Mirmoghtadaie, Department of eLearning in Medical Sciences, School Medical Education and Learning Technologies, Shahid Beheshti University of Medical Sciences (SBMU), Toraj Alley, Valiasr St, Tehran 1966645643, Iran. Email: mirmoghtada@sbmu.ac.ir

Introduction

The expression "ethical challenges" mainly refers to ethical dilemmas and ethical conflicts as well as other scenarios where difficult choices have to be made. Ethical dilemmas are described as situations that cannot be solved; decisions made between 2 options may be morally plausible but are equally problematic due to the circumstances. Ethical conflicts, on the contrary, arise when one is aware of the necessity of proper actions but he or she may have trouble exercising these actions because of certain internal or external factors.¹

The medical staff is obliged and committed to present health care with high quality as to the ethical standards related to their profession.² As well as medical staff, as well as 1 of the most important providers of health services, must be aware of and respect the ethical aspects of care.³ Although ethical challenges were and are an inseparable part of the medical profession,⁴ the outbreak of emerging diseases and the crisis that is made due to them create other new ethical challenges.⁵ Actually, with the emergence of emerging diseases, the need for an ethical approach in medicine has become an undeniable necessity.

The term "emerging diseases" refers to diseases that are caused by unknown new infectious agents or by known

infectious agents that are geographically spread or have undergone drug resistance and are increasing in prevalence and are practically infectious diseases.³

The COVID-19 pandemic is 1 of the new crises that all countries around the world are challenging with up to now.⁶ This emerging infectious disease is spreading and has disrupted the treatment and care system of countries. Iran is 1 of the countries where the amount of infected cases has been increasing day by day so many beds in hospitals have been allocated to these patients.

Building positive relationships between nurses and patients is crucial for quality care. Nurses play an important role as advocates for their patients, but challenges can sometimes damage these connections, leading to poorer outcomes. The role of medical staff in the treatment and care of patients is incredibly important. These dedicated individuals are not just the front-line providers of medical services; they also play a crucial role in enhancing patients' quality of life. Through their specialized skills and knowledge, they effectively identify and manage clinical conditions, ensuring that patients receive the best possible care. The COVID-19 pandemic significantly affected healthcare delivery, presenting unprecedented challenges for

healthcare providers, particularly nurses. These professionals encountered heightened stress and faced resource constraints, leading to ethical dilemmas stemming from inadequate protective equipment and elevated infection risks. As a result, many nurses reported job dissatisfaction and contemplated leaving the profession. Research revealed that numerous nurses experienced fear and anxiety while caring for COVID-19 patients, highlighting an urgent need for attention to their safety and mental health. Ethical challenges were widespread, with many nurses feeling compelled to compromise the quality of care due to limited resources and external pressures. This underscored the critical importance of organizational support during such crises.⁹

Since COVID-19 sets the state of health in an emergency, violation of some principles of professional ethics is inevitable. The outbreak of COVID-19 has challenged the treatment staff-to-patient ratio and the weakness of the surveillance system has made some imbalances. The treatment staff does not have the necessary opportunity to pay attention to the patient, and it will only be focused on the implementation of routine operations and instructions. In such cases, considering clinical ethics will gradually decrease. The lack of ethics will bring about challenges and Unpleasant consequences that will result made the decline of patient consent and the health care quality. Therefore, due to the importance of ethics in medical care for COVID-19-infected patients, the present study aimed at identifying and prioritizing ethical challenges in clinical care services for these patients from the perspective of medical experts and health staff in Iran's hospitals.

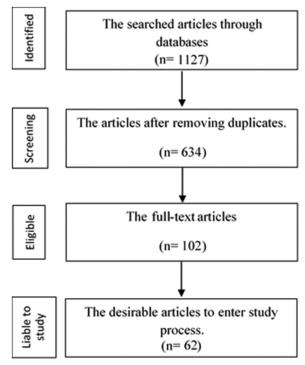


Figure 1. Articles review process with PRISMA 2020 flow diagram.

To achieve the mentioned goal, the following questions were designed:

- What are the most important ethical challenges in the clinical services of COVID-19-infected patients in Iran's hospitals?
- Which of the ethical challenges in the clinical services of COVID-19-infected patients is of more importance from the perspective of medical experts and health staff?

Methods

This study was mixed methods research with an exploratory sequential design that has been done in 2 qualitative and quantitative phases. The reporting of this study conforms to the Standards for Reporting Qualitative Research (SRQR).¹⁰

The qualitative phase

In the qualitative phase, we followed the Preferred Reporting Items for Systematic Reviews and Meta-Analyses (PRISMA) statement by the Cochrane Collaboration to conduct this systematized review. A comprehensive and transparent systematic review forms a strong foundation for qualitative analysis, providing a deep understanding of the topic backed by credible evidence. This enhances the robustness of qualitative analyses and informs new research questions.

We conducted an advanced search in PubMed, Google Scholar, Scopus, Web of Science, ProQuest, and Medline databases and considered original peer-reviewed articles published in scientific journals from 1990 to 2020. The search operators included Boolean operators (AND, OR, and NOT), parenthesis, and truncation and the keywords were "Clinical ethics," "Medical ethics," "Ethical consideration," "Moral issues," "Ethical issues," and "Clinical moral." "Problem*," "barrier*," "challenge*." An example of a search query used to retrieve the papers was as follows: TS = (("Clinical ethics" OR "Medical ethics" OR "Ethical consideration" OR "Moral issues" OR "Ethical issues" OR "Clinical moral") AND ("Problem*" OR "barrier*" OR "challenge*")). After extracting the articles, duplicated ones were excluded using Endnote X8.2.

Inclusion criteria

The inclusion criteria for this review were as follows: (1) English language, (2) peer-reviewed Peer-reviewed journal articles (3) and after 1990.

Screening process, critical appraisal, and data extraction

In the first search, 1127 resources were found. In these searches, articles that had conceptualized and introduced clinical ethic challenges, articles that had offered solutions to eliminate the clinical ethics challenges, as well as articles that directly and

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Table 1. Identified categories, subcategories, and themes.

Theme	Category	Subcategory		
The challenges related to the recipients of clinical services (patients)	The challenges related to the quality of clinical	Delay in treatment and timely care		
	services	The lack of proper medical measures		
		unnecessary medical measures		
		The lack of a safe and healthy environment for patients		
	Communicational challenges	Improper doctor-patient relationship		
		Insult to patients on behalf of nurses		
	The challenges related to autonomy and human dignity	Failure to respond to patients' requests and questions.		
		Defects of patients' privacy		
		The lack of adequate and accurate information on disease and treatment processes.		
		The lack of proper training for empowerment and self-care after release		
		The lack of keeping justice In triage.		
		Keeping confidential of patient's information and defect in secrecy		
		Informed consent		
	Immorality in quarantine	The lack of keeping of the least limitation and patient's independence		
		The lack of transparency of the patient's situation		
		The lack of attention to physical and spiritual needs in quarantine		
The challenges related to the providers of clinical	The challenges of professional relationship	The physician's aggressive behaviors toward the nurse		
services (physicians and nurses)		The lack of professional trust		
		Interdisciplinary interventions		
		Defect of teamwork		
	The challenges related to knowledge and	The lack of timely diagnosis and proper follow-up		
	professional qualification	Failure to perform professional duties properly		
		The lack of responsibility and work conscience		
		Writing of physicians' vague and incomprehensible instructions		
	The support challenges of the staff	The lack of sufficient support to motivate the staff to perform their assigned tasks		
		The lack of council and mental support		
		The lack of screening and medical council		
		The lack of staff's skill		
Organizational challenges	Managerial /structural challenges	Structural problems		
		Equipment and technological problems		
		The lack of surveillance to perform commitments		
		The lack of remedial protocols		
		The lack of stable infrastructure		
		The lack of keeping of physician and nurse's ratio to patient		
		The lack of adequate equipment and resources for personal protection and a safe environment		

indirectly emphasized paying attention to clinical ethics challenges were reviewed, and anonymous, unscientific articles, those that did not conform with the research and the articles written in languages other than English and Persian were left out from the study.

After studying the abstracts of articles and deleting irrelevant articles, 62 articles existed, all of them were reviewed by the research team, and their codes and categories were extracted (Figure 1). Data analysis in this step was performed by using MAXQDA software (version 12).

The quantitative phase

In the second stage of research, a questionnaire of 35 questions was formulated. The questionnaire includes 2 sections: Demographic characteristics and observed ethical challenges in patients' clinical services, including challenges related to the recipients of clinical services (patients) (15 questions), challenges related to the providers of clinical service providers (physicians and nurses) (13 questions), and organizational challenges (7 questions). To validate the instrument, face, and content validity, the level of difficulty in understanding expressions, words, and ambiguous cases, was examined so that 10 medical experts gave their corrective comments and after applying the comments the instrument was used. The questionnaire used is designed with a 5-point Likert scale (very much, much, no opinion, little, very little).

The reliability of the instrument was measured using Cronbach's Alpha equal to 0.7. Then it was asked the 120 nursing experts to rate each item on a 5-point Likert spectrum from where they seemed not very important to very important

Table 2. The main challenges in clinical services.

Challenges	The studies related to the literature of the theme
The challenges related to the recipients of clinical services	The challenges related to the quality of clinical services. 21–23
(patients)	Communicational challenges. ^{21,24–26}
	The challenges related to autonomy and human dignity. ^{27–}
	Immorality in quarantine.31,32
The challenges related to the providers of clinical services	The challenges of professional relationship. 33–35
(physicians and nurses)	The challenges related to knowledge and professional qualification. ^{36–38}
	The support challenges of the staff. ^{39–41}
Organizational challenges	Managerial/ structural challenges. 42,43

ones, of which 102 questionnaires were completed (response rate of 85%). The participants were selected by convenience sampling. The analysis of data was done by SPSS software (version 21) and by using descriptive (mean, standard deviation) and inferential statistics (1 sample t-test, Friedman test). To consider the ethics in the research, first, the purpose and process of the study were explained to all participants and then informed consent was obtained.

Results

The results in the qualitative and quantitative phases are as follows:

The results of the qualitative phase

The purpose of the study in the qualitative phase was to identify ethical challenges in the patients' clinical services. The results of the qualitative phase in 8 categories and 35 subcategories in 3 domains are shown in Table 1. Also, the studies related to the literature of the theme are presented in Table 2.

The results of the quantitative phase

Sample demographic information is presented in Table 3.

The results of the 1-sample t-test showed that the calculated mean for each challenge in the sample group was significantly higher than the test value (P < .001). (Table 4). So, it can be said the challenges of patients, the challenges of physicians, and nurses, and the organizational challenges are considered important challenges from the participant's point of view.

Table 3. Sample demographic information.

Variable	Number (%)		
Gender	Female	68 (66.7)	
	Male	34 (33.3)	
Level of education	Bachelor's	71 (69.6)	
	Master's	23 (22.5)	
	PHD	8 (7.8)	
Employment status	Full-time job	32 (31.4)	
	Temporary job	36 (35.3)	
	Contract job	19 (19.6)	
	Corporate job	14 (13.7)	
Marital status	Married	86 (84.3)	
	Single	16 (15.7)	
The age average (standard deviation)	The age average (standard deviation) 36.98 (6.29) years		
Job record average (standard deviation)	9.1 (4.9) years		

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Table 4. One-sample t-test to compare the mean scores of challenges (n = 102).

Variable	Mean	Standard deviation	Test value	df	t	Р
The challenges of patients	3.56	0.40	3	101	14.16	<i>P</i> < .001
The challenges of physicians and nurses	3.65	0.44	3	101	14.76	P < .00
The organizational challenges	3.39	0.57	3	101	6.87	P < .001

Also, the Friedman test was used to find out which challenges have the higher priority to respondents. The results of the Friedman test showed that there was a significant difference between the prioritization of the importance of each identified challenge (P < .05, $\chi 2 = 6.23$).

Discussion

the coronavirus highlighted many of the complicated ethical issues that healthcare professionals face in dealing with patients and families. Pandemics and patients' remedial services have caused a series of medical ethical conflicts at different levels. In their article titled "Triage in Medicine: Concept, History and Types," Kent et al have distinguished between the 3 concepts of "triage," "rationing," and "allocation." Firstly, the concept of allocation defines the distribution of all medical facilities, devices, and resources disregarding the principle of scarcity. Secondly, the concept of rationing deals with the distribution of medical resources while taking into account the availability and sufficiency of resources to satisfy patients' needs. Thirdly, the concept of "triage" has a limited scope. It is used in the healthcare field to focus on decision-making about the distribution and utilization of scarce medical resources. The use of the triage concept must fulfill 3 conditions. Firstly, the omnipresence of scarce medical resources. The level of rarity or scarcity can vary significantly. It could be low when a patient comes for care to the emergency department (ED) and is not served immediately. Scarcity also could be very high, as after the COVID-19 pandemic when hundreds of patients came to the hospital and could not be treated owing to the shortage of life-saving ventilators or the absence of a bed in the Intensive Care Units (ICU). Consequently, if medical resources are sufficient, there will be no triage, but if these resources are unavailable, triage becomes inevitable. 11 The initial wave of COVID-19 has set the pressure on health systems around the world and has made hotter international debates on triage ethics, allocation of scarce resources, and medical decisions based on care standards in crisis conditions. However, these debates are not new and there has always been controversy over appropriate criteria and processes to

allocate scarce critical care resources during pandemics among ethicists, healthcare institutions, and public health agencies such as Control and Prevention Centers of Diseases. 12,13 However, each pandemic has its particular traits. The COVID-19 pandemic raises a wide range of concerns for the healthcare systems of the global community including initial remedial care to allocation of scarce care resources. These issues have made the pandemic more complicated. The shortage of ventilators has led some health systems to use 1 ventilator for several patients, which is challenging clinically and ethically. This pandemic has clarified the gaps that Haimer (2013) calls "ethics in books versus ethics in practice." Some ethical challenges described in this article aren't limited to COVID-19, but the current situation has new limitations and requires new solutions. The purpose of this study was to identify and prioritize ethical challenges in the clinical services of COVID-19-infected patients in Iran's hospitals. Several studies were done to examine ethical challenges associated with the outbreak of coronavirus that we can refer to. 14,15

Morley et al (2020) in their research have stated that the most important ethical challenges that nurses face during the outbreak of coronavirus include the nurses' safety and health, the change of nature of nurses' relationships and treatment staff with patients and their families, and the allocation of limited resources to patients, especially ventilators with keeping the prioritization.¹⁵ In the present study, 1 of the main components is the challenges related to the providers of services which are consistent with that research.

McGuire et al (2020) in their research have stated the most important ethical challenges arising in the coronavirus pandemic include 2 general categories: (1) Issues related to the health system, including the prognostic scoring system, child-care standards, prioritization, and protection of medical staff, providing noncritical, non-COVID-19 medical cares, informed consent from the patient, moral distress of providers of health services, hospitals financial vulnerability. (2) Social issues include social participation, critical capacity in rural and remote communities, discrimination health equality, and legal considerations. ¹⁶

In the research of Kaur et al (2022), titled Ethical Challenges in Clinical Practice during the COVID-19 Pandemic in an academic healthcare institution in Malaysia Three main themes emerged. Firstly, there was deprioritisation of care for non-COVID-19 patients resulting from resource limitations. HCPs raised concerns that there was curtailed access to various healthcare services by non-COVID-19 patients. There was also a trade-off between protecting individual patient safety and public health interests. Secondly, patients were disempowered from decision-making; the decision to segregate suspected COVID-19 patients to high-risk areas without seeking patients' approval may result in an increased risk of infection. Lastly, HCPs expressed internal conflicts when balancing the professional duty of care against concerns

about contracting COVID-19 and spreading it to their family members. ¹⁷

In their research, Ulrich et al (2023) identified 5 major themes: ethical issues that were increasingly more complex, moral distress that was "endemic," shifting ethical paradigms from the focus on the individual to the population, fostering a supportive environment, and organizational ethics: variation in the value, roles, and policy input of clinical ethicists. ¹⁸

Melaku et al (2023) have explored the ethical challenges, and dilemmas encountered by frontline health workers amid the coronavirus disease-19 (COVID-19) pandemic in Ethiopia. The result indicated that front-line health workers have encountered ethically challenging situations during the COVID-19 pandemic. A critical ethical issue in the COVID-19 pandemic is the equitable distribution of limited available resources among patients. With limited resources such as ventilators and hospital beds, healthcare providers have been faced with the difficult task of deciding who gets access to these resources and who does not. Outpatient and inpatient health care services, including routine hospitalization and elective surgery, have been severely curtailed or postponed. Overall, the COVID-19 pandemic has presented numerous ethical challenges for healthcare providers, highlighting the importance of ethical considerations in healthcare delivery. By being aware of these dilemmas and having policies in place to address them, healthcare providers can ensure that they are providing the best possible care to their patients while upholding ethical standards.¹⁹

Haghighat et al (2024) in their research have stated the collected content was divided into 2 areas: the most important challenges raised in the articles include 2 categories: ethical challenges of patients with emerging diseases and ethical challenges of healthcare providers with emerging diseases. It seems that in addition to dealing with the ethical needs of serving patients, dealing with issues related to the medical staff, especially the ethical aspects of their service, should also be considered.³

Azimi et al (2024) in their research have explained the process of ethical care of patients with COVID-19 in detail. The results indicated that starting the process with a problem means a challenge of how to do the correct thing for the patient. This process is driven by the feeling of duty and inner commitment to do the right thing. The sense of responsibility or commitment is directly related to the degree of faith in a person. The actions that a nurse takes to fulfill her sense of commitment are called the faith-based behavior process. The process of behavior based on faith is done through 2 steps. Attaining the satisfaction of God and as well as the satisfaction of one's conscience is the nurses' ultimate goal of doing the right work and being committed.²⁰

Conclusion

In most countries, front-line physicians have been faced with demands beyond the available resources and have been forced to make decisions about which patients to be hospitalized and prioritization for the use of ventilators. Also, during the COVID-19 pandemic, adjusting treatment policies may lead to raising ethical issues. The challenges of pandemics are affected by time constraints, logistical issues, and social distances, and as a result, there is limited opportunity to gather information. Patient informed consent is a key element of the principle of moral respect, but in a pandemic, it's more likely that the mentioned principle to be violated due to diffident conditions. On the other hand, raising the number of severely ill patients and the clinical consequences of COVID-19 disease can reduce the quality of medical care. Separating the patient from the family without permission to take preventive measures for Infection control violates the basic principles of clinical ethics. Therefore, all of these cases require a review of ethical considerations in an emergency.

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Author Contributions

Conception or design of the work, Data collection, data analysis, and interpretation: Z.M. and D.R. Drafting the article: Z.M. Critical revision of the article, and final approval of the version to be published: M.A, M.K.

Consent Statements

To consider the ethics of the research, first, the purpose and process of the study were explained to all participants and then informed consent was obtained.

Ethical Approval

All ethical considerations are considered in this study. The proposal for this research was confirmed by the ethical committee at Shahid Beheshti University of Medical Sciences IR.SBMU.SME.1403.027.

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REFERENCES

- Jia Y, Chen O, Xiao Z, Xiao J, Bian J, Jia H. Nurses' ethical challenges caring for people with COVID-19: a qualitative study. *Nurs Ethics* 2021;28(1):33-45.
- Ghanem M, Megahed H, Aly N, Branch M. Practice of patient's rights among physicians and nurses in two Egyptian hospitals from patients' perspective. Practice 2015;5(16):6
- Haghighat S, Montazeri AS, Zare A, Aghdam NF. Ethical challenges for patients and healthcare providers with the approach to COVID-19 context: a review. West Kazakhstan Med J 2023;66(1): 16–29.
- Doherty RF. Ethical Dimensions in the Health Professions-E-Book. Elsevier Health Sciences; 2020.
- Jo-Yun L. Communication ethics for risk, crises, and public health contexts. In: Risk and health communication in an evolving Media environment. Routledge; 2018:227-248.

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 Khamees D, Brown CA, Arribas M, Murphey AC, Haas MR, House JB. In crisis: medical students in the COVID-19 pandemic. AEM Educ Train 2020;4(3):284.

- Kwame A, Petrucka PM. A literature-based study of patient-centered care and communication in nurse-patient interactions: barriers, facilitators, and the way forward. BMC Nurs 2021 Sep 3;20(1):158.
- Sekse RJ, Hunskår I, Ellingsen S. The nurse's role in palliative care: a qualitative meta-synthesis. J Clin Nurs 2018;27(1-2):e21-e38.
- Chaudhary P P, Nain P P, Rana P, et al. Perceived risk of infection, ethical challenges and motivational factors among frontline nurses in COVID-19 pandemic: prerequisites and lessons for future pandemic. BMC Nurs 2024;23(1):5.
- O'Brien BC, Harris IB, Beckman TJ, Reed DA, Cook DA. Standards for reporting qualitative research: a synthesis of recommendations. Acad Med 2014;89(9):1245-1251.
- Jaziri R, Alnahdi S. Choosing which COVID-19 patient to save? The ethical triage and rationing dilemma. Ethics. Med Public Health 2020;15:100570.
- Biddison LD, Berkowitz KA, Courtney B, et al. Ethical considerations: care of the critically ill and injured during pandemics and disasters: CHEST consensus statement. Chest 2014;146(4):e145S-ee55S.
- Persad G, Wertheimer A, Emanuel EJ. Principles for allocation of scarce medical interventions. *Lancet* 2009:373(9661):423-431.
- Lapid MI, Meagher KM, Giunta HC, et al. Ethical challenges in COVID-19 Biospecimen research: perspectives from institutional review board members and Bioethicists. Mayo Clinic Proceedings 2021;96(1):165-173.
- Morley G, Grady C, McCarthy J, Ulrich CM. COVID-19: ethical challenges for nurses. Hastings Center Rep 2020;50(3):35-39.
- McGuire AL, Aulisio MP, Davis FD, et al. Ethical challenges arising in the COVID-19 pandemic: an overview from the association of bioethics program directors (ABPD) task force. Am J Bioeth 2020;20(7):15-27.
- Kaur S, Tan M, Ng S, Ng C. Ethical challenges in clinical practice during the COVID-19 pandemic in an academic healthcare institution in Malaysia: A qualitative study. Clin Ethics 2024;19(3):243–251.
- Ulrich CM, Deatrick JA, Wool J, Huang L, Berlinger N, Grady C. Ethical challenges experienced by clinical ethicists during COVID-19. AJOB Empir Bioeth 2023;14(1):1-14.
- Melaku T, Zeynudin A, Suleman S. Ethical challenges and dilemmas in the rationing of health commodities and provision of high-risk clinical services during COVID-19 pandemic in Ethiopia: the experiences of frontline health workers. Philos Ethics Humanit Med 2023:18(1):6.
- Azimi H, Rezapour-Nasrabad R, Borhani F, Sadat Hoseini AS, Bolourchifard F. Ethical care in patients with COVID-19: a grounded theory. *Plos one* 2024;19(3): a0300156
- Pedersen R, Akre V, Førde R. Barriers and challenges in clinical ethics consultations: the experiences of nine clinical ethics committees. *Bioethics* 2009;23(8):460-469.

 Gaudine A, Lamb M, LeFort SM, Thorne L. Barriers and facilitators to consulting hospital clinical ethics committees. *Nurs Ethics* 2011;18(6):767-780.

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- Dehghani A, Dastpak M, Gharib A. Barriers to respect professional ethics standards in clinical care; viewpoints of nurses. 2013.
- Van Teijlingen ER, Douglas F, Torrance N. Clinical governance and research ethics as barriers to UK low-risk population-based health research? BMC Public Health 2008;8(1):1-7.
- Tayebi N, Omidi A, Chahkhoei M, Najafi K, Aliravari H, Haghshenas A. Barriers standards of professional ethics in clinical care from the perspective of nurses. Rev Latinoam Hipertens 2019;14(3):265-270.
- Borhani F, Alhani F, Mohammadi E, Abbaszadeh A. Nursing students perception of barriers of acquiring professional ethics: qualitative research. 2011.
- 27. Ye ZJ, Zhang XY, Liang J, Tang Y. The challenges of medical ethics in China: are gene-edited babies enough? *Sci Eng Ethics* 2020;26(1):123-125.
- Breslin JM, MacRae SK, Bell J, Singer PA. Top 10 health care ethics challenges facing the public: views of Toronto bioethicists. BMC Med Ethics 2005;6(1):1-8.
- Elsayed DE, A RE. Medical ethics: what is it? Why is it important? Sudan J Public Health 2009;4(2):284-287.
- Milanifar A. Legal challenges in medical ethics. Iran J Med Ethics Hist Med 2011;4(3):1-8.
- Kuroyanagi T. Historical transition in medical ethics-challenges of the world medical association. Japan Med Assoc J 2013;56(4):220-226.
- Brown I, Adams AA. The ethical challenges of ubiquitous healthcare. Int Rev Inform Ethics 2007;8(12):53-60.
- 33. Mortimer R. Moral issues in medicine. Br Med J 1960;2(5192):128.
- 34. Fulford KWM. Moral theory and medical practice. Cambridge University Press; 1989.
- Sabone M, Mazonde P, Cainelli F, et al. Everyday ethical challenges of nursephysician collaboration. Nurs Ethics 2020;27(1):206-220.
- Lysaught MT, Kotva J, Lammers SE, Verhey A. On moral medicine: theological perspectives on medical ethics. Wm. B. Eerdmans Publishing; 2012.
- 37. Palmer M. Moral problems in medicine: a practical coursebook. James Clarke & Co; 2005.
- Sajjadi S, Norena M, Wong H, Dodek P. Moral distress and burnout in internal medicine residents. Can Med Educ J 2017;8(1):e36.
- Verweij M. Medicalization as a moral problem for preventive medicine. *Bioethics* 1999;13(2):89-113.
- Sperry WL. Moral problems in the practice of medicine: with analogies drawn from the profession of the ministry. N Engl J Med 1948;239(26):985-990.
- 41. Gorovitz S. Moral problems in medicine. 1976.
- Mahon J. Moral matters ethical issues in medicine and the life sciences. J Med Ethics 1996;22(1):61.
- Werhane PH, Rorty MV. Organization ethics in healthcare. Camb Q Healthc Ethics 2000;9(2):145-146.