

PROFESSIONAL ETHICS IN CONTEMPORARY MEDICINE. PRINCIPLES, CHALLENGES AND PERSPECTIVES ON MEDICAL RESPONSIBILITY

Cristina-Magdalena TOTEANU^{1,2,5,†,*}, Alex-Constantin PARASCHIV^{1,3},
Aurelian-Cătălin LECA⁸, Coralia Adina COTORACI⁴,
Alciona SASU⁴, Simona Maria BORTA⁴, Cristiana-Susana GLAVCE⁵,
Suzana TURCU¹, Ana Maria Alexandra STĂNESCU^{2,3,†},
Daniela MĂNUC^{1,3,†}, Andrei KOZMA^{6,7}.

¹ School of Advanced Studies of the Romanian Academy, Bucharest, Romania.

² „Dr. Carol Davila” Central Military Emergency University Hospital, Bucharest, Romania.

³ University of Medicine and Pharmacy „Carol Davila”, Bucharest, Romania.

⁴ „Vasile Goldiș” Western University of Arad, Romania.

⁵ „Francisc I. Rainer” Institute of Anthropology, Bucharest, Romania.

⁶ „Alessandrescu-Rusescu” National Institute for Mother and Child Health, Bucharest, Romania.

⁷ Academy of Romanian Scientists, Bucharest, Romania.

⁸ „Saint Luca” Hospital for Chronic Diseases, Bucharest, Romania.

* Cristina-Magdalena TOTEANU; e-mail: dr.cristinatoteanu@gmail.com

† These authors contributed equally to this work.

Abstract: This paper is a review article that analyzes the evolution of medical responsibility, from ancient imperatives to contemporary legal and deontological paradigms. Medical responsibility has transcended the sphere of simple pragmatic imperatives, evolving from the implacable punitive rigor of the Code of Hammurabi to contemporary legal frameworks, reflected in essential normative instruments such as the Nuremberg Code, the Declaration of Helsinki, and the Oviedo Convention. Testimonies and, at the same time, evidence of medical evolution are represented by fascinating discoveries such as the Sumerian tablets dating from the end of the third millennium BC (preserved at the Penn Museum, Philadelphia), which record the earliest known medical prescriptions; the Egyptian papyri Edwin Smith (c. 1600 BC) and Ebers (c. 1550 BC), held respectively by the New York Academy of Medicine and the University of Leipzig; as well as the botanical illustrations contained in the manuscript *De Materia Medica* by Dioscorides, preserved in the Library of the Topkapi Palace Museum in Istanbul. This evolution attests to the transformation of the medical act from a simple provision of services into a legal and ethical commitment to life, with the legislative framework becoming the primary guarantor of patient safety. At present, medical responsibility extends beyond the narrow framework of the obligation of means (which does not guarantee the attainment of a favorable outcome of the medical act), emerging as a normative pillar that recalibrates the balance between techno-scientific progress and the imperative of protecting the fundamental rights of the individual. The paper argues for the necessity of reconfiguring moral responsibility, shifting the emphasis beyond the sphere of sanctions toward a preventive perspective centered on ethical leadership and systemic optimization. In conclusion, the ethical architecture, grounded in scientific integrity and aligned with a partnership-based model of care, constitutes the invisible capital of public trust — an

indispensable premise for the sustainability and effectiveness of any reform within the healthcare system.

Keywords: medical ethics, public health, professional ethics, medical responsibility, biomedical evolution.

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Introduction

Medical ethics constitutes the compass and the axiological and normative foundation of professional deontology, contributing to the configuration of medical practice and to the dynamics of the physician – patient relationship, thus projecting the convergence between science, moral responsibility, and human values.

In the context of contemporary medicine, ethics is not limited to an individual moral dimension but also constitutes a normative framework capable of guiding the development of public policies, professional standards, and the interaction between medicine and society.

The modern medical sphere evolves in consonance with technological progress, the development of bioengineering, and the expansion of services through telemedicine — realities that require the continuous adaptation of professional responsibility in relation to innovation, the best interests, and the well-being of the patient.

This review paper analyzes the role of professional ethics in contemporary medicine, the fundamental principles that guide it, the emerging challenges, and the perspectives for the development of medical responsibility. Emphasis is placed on the context of the Romanian healthcare system, with reference to the values of organizational culture, in accordance with the norms governing professional conduct, with the aim of ensuring medical services at the standards established by the legislative framework.

Why is ethics fundamental in medicine?

Medical ethics is not an immutable field; rather, it constantly evolves in line with technological progress, a dynamic that requires the continuous adaptation of professional responsibility in relation to innovation, the best interests, and the well-being of the patient. Its fundamental framework is based on the four cardinal principles established by Tom Beauchamp and James Childress: autonomy, beneficence, non-

maleficence, and justice. These principles, first outlined in their seminal 1979 work „Principles of Biomedical Ethics”, have become the dominant paradigm for ethical analysis in clinical practice, research, and public health across much of the Western world. [1]

Respect for personal autonomy implies recognizing the individual’s right to participate in an informed manner in decisions concerning their health and life. Informed consent, informational transparency, and authentic physician–patient dialogue thus become concrete expressions of this principle. Complementary to autonomy, the principles of beneficence and non-maleficence continue to define the fundamental responsibility of healthcare professionals through the promotion of the patient’s well-being and the avoidance of harm. In contemporary medicine, where technologies can amplify both benefits and risks, the balance between these two dimensions acquires increased complexity.

Another essential principle is justice, reflected in equitable access to medical services, the responsible distribution of resources, and the reduction of health inequalities — an element of primary importance that gains particular relevance in contexts of health crises, systemic reform, or limited resources.

Last but not least, contemporary ethics emphasizes professional responsibility and scientific integrity, including in research, the communication of results, and the relationship with society. Public trust in the medical system depends directly on transparency, competence, and adherence to deontological standards. [2]

These principles are considered *prima facie* duties, which means that they are binding unless overridden by a stronger moral obligation, and their application often requires careful balancing and specification in particular contexts. Beyond these fundamental principles, dignity, virtue, and solidarity are also regarded as important considerations in medical ethics. [3]

Thus, contemporary ethics does not represent merely a set of abstract norms, but a dynamic framework that mediates the relationship between science, society, and human values, contributing to the consolidation of responsible medical practice, centered on the patient and oriented toward the common good.

The evolution of medical ethics from the Code of Hammurabi and the Hippocratic Oath to modern codes

The origin of structured medical thought is inseparably linked to the great riverine civilizations of the Ancient Near East, particularly the Nile Valley and Mesopotamia, the region between the Tigris and Euphrates rivers, where the

foundations of civilization and early forms of systematic clinical observation were established. Documents such as Mesopotamian cuneiform tablets and papyri from Ancient Egypt represent not only historical artifacts but also some of the earliest evidence of the recording of medical knowledge, including descriptions of surgical techniques and therapies based on medicinal plants. [4]

The Edwin Smith Papyrus and the Ebers Papyrus represent the “two hemispheres” of the ancient medical mind, one being rational and surgical, the other considered encyclopedic and pharmacological. Other evidence includes the Assyrian Herbal, which described the use of belladonna (deadly nightshade), cannabis, and mandrake — with rudimentary anesthetic effects prior to surgical interventions — as well as the anti-inflammatory effects of cinnamon. [4]

In the ruins of the city of Nippur, an important religious center of ancient Sumer, one of the oldest written testimonies of medical practice was discovered: a clay tablet dating back more than 4,000 years, in which remedies and therapeutic prescriptions used in Sumerian medicine are recorded. This document reflects not only a concern for treatment but also the beginnings of the empirical systematization of medical knowledge. [4]

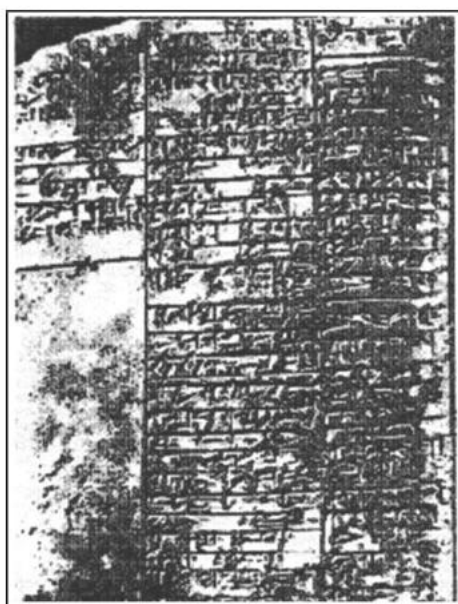


Fig. 1. Clay tablet with a pharmacological cuneiform inscription discovered at Nippur, dating from the end of the third millennium BC, considered among the oldest known medical texts. University Museum, University of Pennsylvania, Philadelphia, USA. [4]



Fig. 2. The Edwin Smith (A) and Ebers (B) papyri originating from ancient Egypt, which document the practice of surgical techniques and the use of opium. [4]



Fig. 3. Mandrake plant illustrated in the manuscript of Dioscorides, Baghdad – 1224, preserved in the Library of the Topkapı Palace Museum in Istanbul. [4]



Fig. 4. Illustration of the cinnamon tree presented in the „De Materia Medica” manuscript by Dioscorides, from Baghdad, Iraq, dating from 1224 AD (621 AH). Archival reference: often identified as belonging to the collection of the Metropolitan Museum of Art (or as part of the famous Topkapı manuscript). [5]

On the other hand, the Code of Hammurabi may be interpreted as the conceptual origin of contemporary healthcare systems. The code comprised 282 laws regulating all aspects of public life, the rights and limits of citizens, as well as the system of justice of the Babylonian Kingdom.

Hammurabi, a pioneer of medical responsibility, left humanity what may be considered the first proclamation of human rights, anchoring the exercise of power in the service of justice: “Let justice prevail in the land... so that the strong may not oppress the weak.” Within this legislative framework, medical practice ceased to be a discretionary activity, becoming a profession rigorously regulated by the state. [6]

For the first time in history, the concept of malpractice was legally codified, imposing upon the surgeon a direct and often radical responsibility for the outcome of the medical act. The provisions were extremely severe: “If a surgeon performs a major operation on an awelum (noble) with a scalpel and causes his death, his hands shall be cut off.” This symbolic and physical sanction underscored the supreme value attributed to bodily integrity under the authority of the law. [6]

At the same time, the Code established an equitable system for the stratification of fees, adapted to the financial capacity of each social class, thereby guaranteeing an early form of accessibility to life-saving surgical services. Payment was clearly hierarchical: ten shekels of silver for an awelum (aristocrat), five shekels for a mushkenu (a free man of modest status), and two shekels for a slave (paid by the slave's master). Through these regulations, Babylonian civilization laid the foundations of a medical ethic in which success was rewarded proportionally, while failure was assumed under the rigor of an implacable law. [6]

Hammurabi's Laws dealing with bodily harm from strike or other activity.
[notice that the grammar of verbs is present in King's translation]

„If a man put out the eye of another man, his eye shall be put out. [An eye for an eye]

If he breaks another man's bone, his bone shall be broken.

If he put out the eye of a freed man, or break the bone of a freed man, he shall pay one gold mina.

If he put out the eye of a man's slave, or break the bone of a man's slave, he shall pay one-half of its value.

If a man knock out the teeth of his equal, his teeth shall be knocked out. [A tooth for a tooth]

If he knocks out the teeth of a freed man, he shall pay one-third of a gold mina.

If any one strikes the body of a man higher in rank than he, he shall receive sixty blows with an ox-whip in public.

If a free-born man strikes the body of another free-born man or equal rank, he shall pay one gold mina.

If a freed man strikes the body of another freed man, he shall pay ten shekels in money.

If the slave of a freed man strike the body of a freed man, his ear shall be cut off.

If during a quarrel one man strike another and wound him, then he shall swear, "I did not injure him wittingly," and pay the physicians.

If the man dies of his wound, he shall swear similarly, and if he (the deceased) was a free-born man, he shall pay half a mina in money.

If he was a freed man, he shall pay one-third of a mina.

If a man strikes a free-born woman so that she lose her unborn child, he shall pay ten shekels for her loss.

If the woman die, his daughter shall be put to death.

If a woman of the free class lose her child by a blow, he shall pay five shekels in money.

If this woman dies, he shall pay half a mina.

If he strike the maid-servant of a man, and she lose her child, he shall pay two shekels in money.

If this maid-servant die, he shall pay one-third of a mina.

Hammurabi's Laws dealing with conditions necessitating surgical activity mainly on humans or animals [notice that the grammar of verbs is present in King's translation]

If a physician make a large incision with an operating knife and cure it, or if he open a tumor (over the eye) with an operating knife, and saves the eye, he shall receive ten shekels in money.

If the patient be a freed man, he receives five shekels.

If he be the slave of someone, his owner shall give the physician two shekels.

If a physician make a large incision with the operating knife, and kill him, or open a tumor with the operating knife, and cut out the eye, his hands shall be cut off.

If a physician make a large incision in the slave of a freed man, and kill him, he shall replace the slave with another slave.

If he had opened a tumor with the operating knife, and put out his eye, he shall pay half his value.

If a physician heals the broken bone or diseased soft part of a man, the patient shall pay the physician five shekels in money.

If he were a freed man he shall pay three shekels.

If he were a slave his owner shall pay the physician two shekels.

If a veterinary surgeon perform a serious operation on an ass or an ox, and cure it, the owner shall pay the surgeon one-sixth of a shekel as a fee.

If he perform a serious operation on an ass or ox, and kill it, he shall pay the owner one-fourth of its value.

If a barber, without the knowledge of his master, cut the sign of a slave on a slave not to be sold, the hands of this barber shall be cut off.

If anyone deceive a barber, and have him mark a slave not for sale with the sign of a slave, he shall be put to death, and buried in his house. The barber shall swear: "I did not mark him wittingly," and shall be guiltless. [6]

Viewed from another perspective in the history of medicine, Hippocrates (460 BC – 370 BC) marks the moment in the history of civilization when medicine separated from mysticism, transforming from a ritualistic practice into a profession governed by a self-regulated ethical conscience. [7]

In the history of medical ethics, the Hippocratic Oath stands as the most significant and venerable expression of the commitment that the physician assumes toward patients, symbolizing absolute dedication and the moral responsibility that governs the practice of medicine. This oath represents a fundamental ethical code through which physicians solemnly dedicate themselves to the service of humanity, committing to act exclusively in the interest of the patient, to strictly maintain professional confidentiality, and to practice their profession with conscience, dignity, and nobility of spirit. It always subordinates all other considerations to the well-being of the patient and establishes unconditional respect for life as the supreme principle of the medical act.

The Geneva Declaration of the World Medical Association (WMA) — the "Modern Hippocratic Oath"

The Declaration of Geneva stands among the oldest and most representative policies of the World Medical Association (WMA), having been adopted by the Second General Assembly held in Geneva in 1948. Grounded in the principles of the Hippocratic Oath, it is today recognized as its modern version. It also remains one of the most consistent and enduring documents issued by the WMA, having undergone only a few carefully elaborated revisions over the decades. Through its continuity, the Declaration safeguards the fundamental ethical principles of the medical profession, remaining relatively unaffected by the transient influences of the spirit of the age and by modernist currents. [8]

„Adopted by the 2nd General Assembly of the World Medical Association, Geneva, Switzerland, September 1948, and amended by the 22nd World Medical Assembly, Sydney, Australia, August 1968; by the 35th World Medical Assembly, Venice, Italy, October 1983; by the 46th WMA General Assembly, Stockholm, Sweden, September 1994; editorially revised by the 170th WMA Council Session, Divonne-les-Bains, France, May 2005; and by the 173rd WMA Council Session, Divonne-les-Bains, France, May 2006.” [8]

Consequently, the modern form of the Hippocratic Oath emerges as a normative expression of the physician's fundamental ethical commitment, synthesizing the principles of professional responsibility, respect for human life, and unconditional dedication to the patient. Its text is formulated as follows:

„AT THE TIME OF BEING ADMITTED AS A MEMBER OF THE MEDICAL PROFESSION:

I SOLEMNLY PLEDGE to consecrate my life to the service of humanity;

I WILL GIVE to my teachers the respect and gratitude that is their due;

I WILL PRACTISE my profession with conscience and dignity;

THE HEALTH OF MY PATIENT will be my first consideration;

I WILL RESPECT the secrets that are confided in me, even after the patient has died;

I WILL MAINTAIN by all the means in my power, the honour and the noble traditions of

the medical profession;

MY COLLEAGUES will be my sisters and brothers;

I WILL NOT PERMIT considerations of age, disease or disability, creed, ethnic origin,

gender, nationality, political affiliation, race, sexual orientation, social standing or any

other factor to intervene between my duty and my patient;

I WILL MAINTAIN the utmost respect for human life;

I WILL NOT USE my medical knowledge to violate human rights and civil liberties, even

under threat;

I MAKE THESE PROMISES solemnly, freely and upon my honour.”[8]

While earlier systems imposed conduct through the force of law, the Hippocratic model proposes an ethic assumed from within, grounded in a sacred covenant (the Oath) and in irreproachable moral conduct. Central to this period is the physician's duty to act exclusively for the benefit of the patient, a principle synthesized in the imperative to help or, at the very least, to do no harm („primum non nocere”), thereby laying the foundations of clinical prudence and devotion to life.

Thus, Hippocratic medicine defined the modern pillars of the physician-patient relationship by introducing professional secrecy and the absolute moral integrity of the healer. The physician is no longer merely a technician of the body

but a custodian of human vulnerability, obliged to refuse any form of abuse of power, exploitation, or intervention that contradicts human dignity. This symbiosis between technical competence and profound empathy established a universal standard: medicine is a noble art in which the well-being of the patient represents the sole measure of professional success.

The contemporary understanding of medical ethics has its roots in profound historical experiences, among which the defining events of the Second World War highlighted the necessity of universal normative frameworks intended to protect the integrity of human subjects. The Nuremberg Code, adopted in 1947, established voluntary informed consent as an absolute condition in biomedical research. This premise was further expanded and refined through the Declaration of Helsinki, issued by the World Medical Association in 1964, which reaffirmed the priority of patient well-being in relation to scientific objectives and introduced an essential mechanism of independent ethical oversight through Research Ethics Committees or Institutional Ethics Committees. [9]

„The voluntary consent of the human subject is absolutely essential. This means that the person involved should have the legal capacity to give consent; should be so situated as to be able to exercise free power of choice, without the intervention of any element of force, fraud, deceit, duress, overreaching, or other ulterior form of constraint or coercion; and should have sufficient knowledge and comprehension of the elements of the subject matter involved to enable them to make an understanding and informed decision. This latter element requires that, before the acceptance of an affirmative decision by the experimental subject, the subject be made aware of the nature, duration, and purpose of the experiment; the method and means by which it is to be conducted; all inconveniences and hazards reasonably to be expected; and the effects upon the subject's health or person that may possibly result from participation in the experiment. The duty and responsibility for ascertaining the quality of the consent rests upon each individual who initiates, directs, or engages in the experiment. It is a personal duty and responsibility which may not be delegated to another with impunity.” [10]

In Europe, medical ethics is influenced by supranational instruments such as the Oviedo Convention (Convention on Human Rights and Biomedicine, 1997), which establishes binding standards for member states regarding consent, confidentiality, genetic testing, and human dignity in biomedicine. [11]

Thus, these structures define a fundamental role in ensuring methodological validity, in assessing the balance between risk and benefit, and, above all, in

protecting the rights and safety of participants before the initiation of any research.

In conclusion, the evolution of medical ethics — from the implacable Law of Talion, through the surgical rationalism preserved over the centuries in the Egyptian papyri, to the humanism of the Hippocratic School — essentially reflects the very development and maturation of human civilization.

History shows that the ancient heritage of the earliest steps that would later shape the Nuremberg Code, the Declaration of Helsinki, and the Oviedo Convention laid the foundations of modern medicine. Thus, the genesis of civilization on the banks of the Euphrates and the Nile has today evolved into a global system for the protection of human dignity, where the patient is not an abstract identity but a unique universe deserving absolute respect.

Moral responsibility in the physician–patient relationship

The physician–patient relationship constitutes the essence, the core of the medical act, and its moral dimension extends beyond the strictly technical framework of therapeutic intervention. The physician’s moral responsibility involves not only professional competence and adherence to deontological norms but also the assumption of conduct grounded in empathy, integrity, and respect for the dignity of the person in suffering. This responsibility is built within the space of dialogue, mutual trust, and informational transparency.

„The great calling of the physician is to do good, a calling that must be interpreted as a privilege shared by no other profession. The physician must be in the service of all, exposing his life in order to save the lives of others. Anyone has the right to knock on his door; he must respond without hesitation to the call of suffering. The physician must believe in, and inspire in the patient, confidence in the effectiveness of cooperation. Alongside therapeutic intervention, the physician must remove from the patient’s mind the dissolving specter of death. No law and no professional standard can diminish or abolish the moral and human dimension of medical conduct.” [12]

The physician–patient relationship as the foundation of the medical act

In the context of modern medicine, marked by technological progress, the influence of institutional pressures, and socio-cultural diversity, moral responsibility acquires a complex dimension that requires balancing professional

standards, the constraints of the healthcare system, and the individual needs of the patient. Thus, the physician–patient relationship represents not merely a therapeutic contract but an ethical space in which scientific knowledge, professional responsibility, and fundamental human values converge.

The physician–patient relationship represents one of the defining elements of medical practice, and the way in which it is configured significantly influences the quality of the therapeutic act, adherence to treatment, and the patient’s level of trust in the healthcare system. The literature traditionally describes three main models of this relationship: the paternalistic model, the service-oriented model, and the partnership model. [13]

The paternalistic model, dominant in classical medicine, presupposes a central position of the physician in the decision-making process, the physician acting in the patient’s interest on the basis of professional expertise and the principle of beneficence. Although this model may be effective in acute situations or in contexts where the patient cannot actively participate in decision-making, it raises ethical challenges related to personal autonomy and the individual’s right to information and participation.

The service-oriented (informative) model, characteristic especially of modern healthcare systems and societies that emphasize individual autonomy, redefines the patient as a beneficiary of medical services with the right to choose and evaluate therapeutic interventions. This model promotes transparency and professional accountability; however, it may sometimes lead to an excessive commercialization of the medical act and to a diminishment of the relational dimension of care.

In contrast, the partnership (deliberative/participatory) model promotes a collaborative relationship based on dialogue, mutual respect, and active participation in medical decision-making. It reflects the orientations of contemporary ethics, which value patient autonomy without diminishing the physician’s professional responsibility. The therapeutic partnership involves integrating scientific expertise with the patient’s values, preferences, and life context.

The humanistic dimension of the physician–patient relationship is strongly supported by the principles of person-centered psychotherapy developed by Carl R. Rogers, which emphasize the role of empathy, authenticity, and unconditional acceptance in building an effective therapeutic relationship. [14] [15]

Thus, the choice of an appropriate relational model is not rigid but must be adapted to the clinical context, the particularities of the patient, and the complexity of the medical situation. The integration of professional competence with ethical sensitivity and relational skills contributes to the consolidation of a patient-centered practice in which the therapeutic act becomes the expression of a symbiosis between science, responsibility, and humanity.

Respect for patients' rights and informed consent

Respect for patients' rights represents an essential pillar of contemporary medical ethics, reflecting both the moral requirements of the profession and the legal framework established in Romania through Law No. 46/2003 on patients' rights and Law No. 95/2006 in the field of healthcare. These regulations establish the patient's right to complete and intelligible medical information, to the expression of free and informed consent for any medical intervention, as well as to the confidentiality of personal data and respect for private life. They also recognize rights related to reproductive health, freedom of decision-making, and equitable access to treatment and appropriate medical care. In this context, respect for patients' rights extends beyond the strictly legal dimension, becoming an expression of professional responsibility, respect for human dignity, and the consolidation of a therapeutic relationship based on trust, transparency, and empathy. [16]

A central place in the ethics of the physician-patient relationship is occupied by the concept of informed medical consent, representing a mechanism for respecting the autonomy and dignity of the individual. „Informed medical consent emerged from the need to eliminate the vulnerability of the physician-patient relationship by directly involving the patient in therapeutic decision-making. The patient has the right to be informed about their state of health, the proposed medical interventions, the potential risks of each procedure, the existing alternatives to the proposed procedures, including the option of refusing treatment and not following medical recommendations. The information must be communicated to the patient in a respectful language, in terms that they can understand, ensuring that no questions remain unanswered.” [17]

Thus, in medical practice, decision-making regarding risk, as well as its appropriate description and explanation, represent complex processes for both patients and healthcare professionals. Risk assessment involves not only the analysis of scientific data and clinical probabilities but also their interpretation in

relation to the particularities of each patient. The communication of risk within the framework of informed consent entails a major ethical responsibility, as the manner in which information is conveyed can significantly influence the patient's perception, level of trust, and final therapeutic decision. In this regard, informational clarity, transparency, and the adaptation of medical discourse to the patient's level of understanding become essential for respecting patient autonomy and for achieving authentic informed consent.

Physicians frequently face uncertainties inherent in the medical act, which requires maintaining a constant balance between scientific rigor, professional responsibility, and the human dimension of the therapeutic relationship. In situations where therapeutic outcomes are less favorable, careful consultation of the medical documentation becomes essential in order to analyze how clinical decisions, therapeutic interventions, and the information provided to the patient were recorded. Furthermore, verifying the patient's capacity to express informed consent constitutes a fundamental aspect, both from an ethical and a medico-legal perspective, as it reflects respect for patient autonomy and the legitimacy of the medical intervention. [18]

Incomplete information, with omissions or gaps regarding certain probable situations that could influence the therapeutic decision, may expose the physician to the risk of malpractice accusations, even when the outcome of the intervention is favorable. However, there are borderline situations in which it becomes necessary to adopt an immediate therapeutic decision in the absence of the patient's consent, under the imperative of absolute urgency or the extreme severity of the clinical condition. [17]

The interdependence of medical ethics and institutional responsibility. Ethical conflicts in resource allocation and the dissonance of institutional policies

The interdependence between medical ethics and institutional responsibility reflects the fact that medical practice does not occur exclusively at the individual level but within an organizational framework that influences the decisions of healthcare professionals. Medical institutions play the role of creating an ethical environment through policies, protocols, and support mechanisms that facilitate the observance of the fundamental principles — patient autonomy, beneficence, non-maleficence, and justice. In the absence of coherent institutional structures,

the physician may be exposed to tensions between professional moral obligations and administrative, economic, or legal constraints.

Ethical conflicts frequently arise in situations where resources are limited, the prioritization of cases becomes necessary, or institutional interests may come into conflict with the individual needs of the patient. The management of these situations requires decision-making transparency, consultation with ethics committees, and the cultivation of an organizational culture based on responsibility, interdisciplinary dialogue, and respect for human dignity. Thus, institutional responsibility becomes an essential factor in the prevention and resolution of ethical conflicts in contemporary medical practice. [19]

The recent pandemic has shown that decision-makers in health policy require solid, scientifically validated information, as well as well-tested operational strategies to support responsible decisions regarding the management and distribution of limited resources. In the context of emergency situations, this need becomes even more acute, as mass-casualty events may occur suddenly — such as earthquakes, floods, or terrorist attacks — or may evolve progressively over the course of hours or days, as in situations generated by epidemic outbreaks or even pandemics. [19]

Regardless of the pace of onset, the scale, complexity, and unpredictability of such events can overwhelm even well-developed healthcare systems equipped with advanced technology and supported by experienced personnel. When the resources immediately available become clearly insufficient to meet medical needs at the usual standards of modern care, healthcare institutions are compelled to activate contingency plans and adaptive response mechanisms designed to ensure the continuity of essential care. This situation inevitably requires a recalibration of the ethical paradigm of the medical act — from the traditional model centered on providing optimal care to each individual patient toward an approach oriented toward maximizing collective benefit, namely achieving the greatest possible good for the greatest number of people under the conditions of available resources. Such a transition requires not only managerial and logistical competence but also profound ethical reflection aimed at maintaining the balance between the efficiency of intervention, equity in access to care, and respect for human dignity. [19]

Ethical challenges in modern medical practice

An illustrative situation highlighting the imperative need for a judicious management of therapeutic resources is represented by the systemic shortage of medicines. This chronic vulnerability, encountered in both advanced and emerging economies, constitutes a focal point of concern for governments, the academic environment, and international organizations. When a pharmaceutical agent becomes unavailable, a disruption occurs in the continuity of the medical act. Patients are thus compelled to resort to suboptimal therapeutic alternatives, burdened by uncertain efficacy, increased iatrogenic risks, or prohibitive costs, with the imminent risk that fundamental clinical needs remain entirely unmet. This availability crisis is particularly acute in the field of antibiotic therapy. The causes are multidimensional, revolving around fragmented supply chains and profit margins that discourage investment. The consequences extend beyond the individual sphere, as antibiotic shortages become a dangerous catalyst for antimicrobial resistance — one of the most severe threats to global public health. [20]

The root of this dysfunction lies in the asymmetry between market mechanisms and public safety requirements, namely that the current system does not provide adequate incentives for manufacturers to ensure a sustained supply. In a competitive environment that does not reward reliability beyond the minimum regulatory threshold, procurement policies based exclusively on the lowest price criterion exert a devaluing pressure. By neglecting stringent requirements regarding reserve stocks and continuity of distribution, society, through its regulatory bodies, implicitly encourages the minimization of operational costs at the expense of systemic resilience. Although this approach appears to maximize budgetary efficiency in the short term, it generates profound negative externalities, undermining pharmaceutical security and the ethical principles of long-term health protection. [20]

On the other hand, within the contemporary medical landscape, the relationship between practitioners and administrative structures is often marked by ethical dissonance, generated by the obligation to comply with institutional policies that frequently collide with the fundamental values of the profession. The literature emphasizes that the mere presence of administrative regulations that contradict professional conscience constitutes a persistent source of tension, undermining the moral integrity of healthcare providers. A major barrier to optimal medical care is the insufficiency of resources, a phenomenon perceived

by physicians not only as a logistical limitation but also as a factor contributing to the degradation of the quality and safety of patient care. This reality is further amplified by the tendency toward the “commercialization” of hospital institutions, which increasingly adopt management models specific to economic entities. The consequences are reflected in the stability of human capital, where the numerical shortage of medical personnel undermines team cohesion and weakens the continuity of the therapeutic process. [21]

Another critical dimension of ethical conflict reported by physicians lies in the attenuation of preventive orientation. From an institutional perspective, there is a prevalence of the curative, reaction-based model to the detriment of clinical projection. This reactive approach — which imposes intervention only in stages of manifest deterioration, while ignoring the proactive monitoring of anticipated risks — contradicts the fundamental principle of prevention and the patient’s well-being. This phenomenon manifests among physicians in the form of moral distress, defined as a state of psychological and ethical tension that arises when the healthcare professional, although recognizing the correct deontological course of action, is prevented from implementing it due to extrinsic systemic barriers. This dissonance between the individual moral imperative and external constraints — such as rigid institutional policies, power asymmetries, or resource scarcity — transforms medical practice into a space of continuous conflict. In this context, the collision between the values of the healthcare provider and organizational directives represents the primary catalyst for the erosion of ethical integrity. [21]

Another contemporary issue is represented by institutional religious policies that may introduce additional barriers, forcing the transfer of patients and generating iatrogenic delays in the case of time-sensitive interventions. Such religious considerations that influence medical attitudes can be observed in the context of emergency contraception and unwanted pregnancies and may generate ethical conflicts. Thus, the patient’s dignity and their right to care may become secondary to organizational ideology. [21]

The resolution of these conflicting paradigms requires a recalibration of medical management. The proposed solutions aim at the co-participation of physicians in the development of administrative policies, the establishment of formal mechanisms for mediating ethical dilemmas, and increased transparency toward patients in the pre-therapeutic phase. [21]

Ultimately, only by harmonizing administrative objectives with deontological imperatives can the transition be ensured from purely bureaucratic

management to a genuine system for the protection of human health. Such structural synergy is intended not only to reduce ethical divergences but also to restore trust in the clinical environment, transforming the hospital from a space of logistical constraints into a guarantor of human dignity.

Perspectives and recommendations in the context of the reform of the Romanian healthcare system

The reform of the Romanian healthcare system represents not only an administrative necessity or a reconfiguration of financial flows but, fundamentally, an imperative of an ontological and deontological nature. In an era of accelerated technological progress, the medical system must balance pragmatic efficiency with unconditional respect for human dignity, having as essential vectors: the sustainability of ethical decision-making, leadership as a cultural driver, and the rigor of scientific research.

Between resource limitations and moral duty, a sustainable reform requires the transition from reactive management to one based on predictive ethics. In the context of chronic resource scarcity — whether referring to workforce shortages or the discontinuity in the supply of essential medicines — medical decision-making ceases to be a mere clinical act, becoming a form of moral arbitration.

Sustainable ethical methods and decisions applied in the healthcare system

Ethical sustainability involves the implementation of decision-making models that harmonize the principle of beneficence with that of distributive justice. It is imperative that procurement policies and triage protocols are not governed exclusively by the criterion of the lowest price, but by long-term therapeutic value. A sustainable ethical decision is one that protects patient safety without exhausting future resources, thus avoiding negative externalities such as antimicrobial resistance or the erosion of trust in public institutions.

Promoting an ethical culture and the role of professional leadership

Organizational culture within a hospital is not a statistical given, but a construct shaped by professional leadership. For reform to be authentic, leaders within the healthcare system (managers, department heads, academics) must act as mentors, not merely as administrators of budgets. The transition from the paternalistic model to the partnership model requires leadership that encourages

values such as integrity, equity, and transparency, and that mediates ethical conflicts between the institution's economic imperatives and the physician's deontological values. [22]

Authentic leadership promotes an environment in which the voice of medical staff is heard, thereby reducing ethical dissonance and professional burnout. Only through the establishment of consultative mechanisms and the co-participation of physicians in the development of institutional policies can the stage of purely bureaucratic management be overcome, transforming the medical institution into a space of moral safety. [23]

Ethical leadership extends beyond the sphere of exercising administrative power, being grounded in a symbiosis between the assumed value system and operational conduct. By maintaining an unwavering ethical conduct, decision-makers (managers or department heads) establish a climate of psychological safety for all medical and auxiliary staff. Within such an organizational culture, defined by equity, medical staff are motivated to report incidents without fear of sanction, thereby directly optimizing the safety of the therapeutic act. The prestige and trust thus consolidated are transformed into a resilient psychological capital, capable of protecting the emotional resources of employees against burnout, even under conditions of severe logistical constraints. [24]

Scientific integrity and the responsibility of publication. The foundation of evidence-based medicine

An important facet of reform concerns scientific research, the connecting element between fundamental gnoseology and clinical practice. In a modern healthcare system, research integrity is not an option but constitutes the very guarantor of the safety of the medical act. [23]

In the context of contemporary medical research, particularly in the case of accelerated clinical studies, ethics and academic integrity transcend the status of mere formal requirements and become real challenges, especially in the context of global crises. The authenticity of clinical results lies in methodological rigor and the exhaustive transparency of data. Without these premises, efforts toward rapid therapeutic innovation lose both their societal relevance and their foundation of scientific legitimacy. In situations of health crises, when the fragmentation of efforts may occur, competition for resources and support structures (personnel, facilities, bureaucratic systems, and logistics) is inevitably generated — as

evidenced by the recent pandemic — which may lead to wasted efforts and underpowered studies. [24]

Responsibility of dissemination and normative rigor

The obligation to publish data derived from clinical studies carries a dual ethical burden: a duty toward the participating subjects and a responsibility toward the international scientific community. Full transparency in the communication of results, including non-conclusive or negative findings, is imperative to prevent distortions in evidence-based medicine. From this perspective, adherence to international standards must be strengthened through rigorous mechanisms for monitoring conflicts of interest and combating any form of academic misconduct. Only research governed by integrity can generate resilient solutions in the face of systemic dysfunctions or the inefficiency of current therapeutic strategies.

Thus, in periods of health emergencies, the relevance of research and the level of trust in studies become the central pillars upon which not only medical and pharmacological progress is founded, but also the evolution toward a framework of equitable clinical research. This evolution requires a transition from centralized decision-making models to participatory and inclusive governance. Thus, in order to ensure genuine social and epistemic justice, decision-making processes must integrate the voices and representatives of research subjects, transforming the scientific endeavor into a democratic process oriented toward the global common good. [24]

Conclusions

Medical responsibility has transcended the boundaries of mere pragmatic necessity, evolving from the repressive severity of the Code of Hammurabi to complex contemporary legal frameworks such as the Nuremberg Code, the Declaration of Helsinki, and the Oviedo Convention. [8] This transformation reflects the legal recognition that the medical act is not merely a provision of services, but a legal commitment to life, in which the law becomes the guarantor of patient safety.

Today, moral medical responsibility is not merely an obligation of means, but a legislative pillar that regulates the interaction between science, technology, and the protection of fundamental rights. [25]

Medical ethics acts as a force that prevents the dehumanization of medicine in the face of rapid technological progress, anchoring scientific rigor in humanistic compassion. It serves as a “moral filter” through which clinical data and surgical procedures are translated into real benefits for the patient, ensuring that the patient is not perceived as an “abstract identity,” but as a unique universe.

Through the Hippocratic School and modern international documents (Nuremberg, Helsinki), ethics has become the universal language that enables science to serve humanity without compromising its dignity.

Moral responsibility must be redefined beyond the sphere of legal sanctions, being understood as a preventive mechanism that guides the physician’s conduct before the occurrence of risk. On the other hand, the preventive dimension lies in the capacity of ethical leadership and organizational culture to identify systemic vulnerabilities (such as resource shortages or ethical dissonance) before they generate clinical errors. [24]

A preventive approach to moral responsibility aims to transform error from a cause for punishment into an opportunity for learning and the optimization of systemic safety, even though physicians are reluctant to disclose errors to patients due to concerns related to malpractice litigation or financial losses claimed as compensation. The disclosure of medical error is an imperative duty, regardless of obstacles, as the prompt acknowledgment and reporting of the error directly influence the speed with which it can be rectified, thereby ensuring the patient’s well-being and safety, in accordance with the best interests stipulated within the legislative framework. [26]

Ultimately, the ethical architecture of the healthcare system — built on transparency, scientific integrity, and a partnership-based model of care capable of ensuring treatment adherence and social cohesion — constitutes nothing other than the invisible capital of public trust upon which the entire healthcare system relies, without which no administrative reform can achieve lasting success.

„In the face of the patient and their illness, from the earliest times to the present, with only minor variations from one period to another, the attitude of physicians has been one of absolute understanding and compassion, assumed out of an unbounded desire to alleviate the suffering of their fellow human beings.” [27]

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