



**HISTORY AND PHILOSOPHY OF MEDICINE: A SCIENTIFIC AND THEORETICAL
ANALYSIS**

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Abstract

This article provides a comprehensive analysis of the stages of development of the history of medicine and its philosophical foundations. The evolution of medical science from ancient times to modern medicine, the development of scientific thinking, and the ethical and normative aspects of medical practice are examined. In addition, the role of philosophy in medicine, as well as the theoretical foundations of human health and disease concepts, are analyzed.

Keywords: history of medicine, philosophy, bioethics, health, disease, physician, scientific thinking

Introduction

Medicine is one of the oldest and most important fields in human history. It is not only concerned with the treatment of diseases but also represents a complex system directly related to human life, health, and quality of living. The development of medicine has been closely interconnected with societal progress, scientific achievements, and philosophical perspectives.

Philosophy, as a discipline that studies the general laws of existence, knowledge, and values, has enriched the theoretical foundations of medicine. Its role is particularly significant in addressing issues such as human life, health, disease, death, and ethical decision-making.

The ancient Greek physician Hippocrates laid the foundations of a scientific approach to medicine, while the Eastern scholar Avicenna elevated medicine to a new level by integrating it with philosophy.

Methods

This study was conducted using the following methods:

- Historical-analytical method – studying the stages of medical development
- Comparative method – comparing views from different periods and schools
- Philosophical analysis – examining concepts related to health, disease, and human nature
- Systemic approach – identifying the interconnection between medicine and philosophy

Analytical Data Based on Research Methods

Historical-Analytical Method: Studying the Stages of Medical Development

The historical-analytical method allows for the examination of the formation and evolution of medicine across different periods. It helps to identify how medical knowledge emerged, developed, and improved.



Analytical aspects:

• **Ancient period (empirical-initial stage):**

- Diseases were associated with divine forces or spirits
- Treatment methods were based on experience and traditions
- Hippocrates introduced natural explanations of diseases
- Observation and logical reasoning emerged in medicine

• **Medieval period (systematization stage):**

- Medicine developed significantly in the East
- Avicenna systematized diseases and developed diagnostic methods
- Clinical observation became scientifically grounded

• **Modern period (scientific-experimental stage):**

- Anatomy, physiology, and pathology were established
- Experimental methods became widespread
- Scientific validation became essential in medicine

• **Contemporary period (innovative stage):**

- Molecular biology, genetics, and artificial intelligence advanced
- Evidence-based medicine (EBM) became dominant
- Medicine evolved into a multidisciplinary field

Conclusion:

The historical-analytical method shows that medicine has evolved from empirical practices to scientific systems and, later, to technological innovations.

Comparative Method: Comparing Views of Different Periods and Schools

The comparative method identifies similarities and differences between medical theories, schools, and approaches.

Comparative analysis:

Ancient Greek medicine vs Eastern medicine

- Greek medicine (Hippocrates):
 - Natural causes of diseases
 - Theory of four humors
- Eastern medicine (Avicenna):
 - Holistic view of the organism
 - Comprehensive treatment approaches

Conclusion: Eastern medicine developed a more systematic and integrative approach.

Traditional medicine vs modern medicine

- Traditional medicine:
 - Based on experience and customs
 - Emphasis on individual approach
- Modern medicine:
 - Based on scientific evidence
 - Uses standardized protocols and technologies

Conclusion: Modern medicine increased accuracy and reliability, but individualization remains relevant.

Biomedical model vs biopsychosocial model

- Biomedical model:
 - Disease viewed purely as a biological process
- Biopsychosocial model:
 - Includes psychological and social factors



Conclusion: Modern medicine increasingly views humans as complex systems.

Philosophical Analysis: Studying Health, Disease, and Human Nature

Philosophical analysis deeply examines the key concepts of medicine.

Concept of Health

- Biological approach: normal functioning of the organism
- Philosophical approach: harmony of physical, mental, and social well-being
- Modern interpretation: quality of life and well-being

Health is not merely the absence of disease but a state of complete well-being.

Concept of Disease

- Objective approach: physiological disorder
- Subjective approach: personal experience of illness
- Philosophical issue: where does disease begin?

Disease is the result of complex interactions between biological and social factors.

Philosophical View of Human Nature

- Dualism: separation of body and mind
- Monism: unity of human existence
- Modern view: biopsychosocial unity

Medicine should consider humans not only as biological organisms but also as conscious and social beings.

Epistemological Analysis (Problem of Knowledge)

- Diagnosis is probabilistic knowledge
- Clinical decisions are made under uncertainty
- Integration of physician experience and scientific evidence is crucial

Axiological Analysis (Values)

- Human life is the highest value
- Physician responsibility is an ethical category
- The principle of “do no harm” (non-maleficence) is fundamental

RESULTS

Main Stages in the History of Medicine

Medicine has developed through the following stages:

Ancient medicine

- Connected with religious and mystical views
- Diseases interpreted as divine punishment
- Foundations of scientific medicine laid by Hippocrates

Medieval medicine

- Development of Eastern medicine
- Avicenna introduced a scientific system through *The Canon of Medicine*
- Diagnostic and treatment methods improved

Modern medicine

- Development of anatomy and physiology
- Emergence of experimental medicine
- Strengthening of scientific methodology

Contemporary medicine

- Development of technologies (AI, robotic surgery)
- Wide application of evidence-based medicine
- Emergence of bioethics as a distinct field



Philosophical Foundations of Medicine

Medicine is closely related to the following philosophical domains:

- **Ontology (study of being):**
 - Nature of health and disease
 - Unity of body and mind
- **Epistemology (theory of knowledge):**
 - Diagnostic processes
 - Scientific knowledge and experience
- **Axiology (theory of values):**
 - Value of life
 - Medical ethics

Medicine and Ethical Issues

Modern medicine faces important ethical challenges:

- Euthanasia
- Organ transplantation
- Medical confidentiality
- Artificial reproduction
- Use of artificial intelligence

DISCUSSION

The analysis shows that medicine is not merely a biological science but a complex system with deep philosophical foundations. In every historical period, the development of medicine has been shaped by human worldview, scientific thinking, and ethical values.

For example, while diseases were associated with divine forces in ancient times, they are explained scientifically in modern medicine. However, ethical issues—such as life and death—still require philosophical reflection.

Moreover, the development of artificial intelligence and biotechnology raises new philosophical questions:

- The boundary between humans and machines
- The problem of artificially prolonging life
- Ethics of genetic modification

CONCLUSION

The history and philosophy of medicine are integral parts of human development. The progress of medicine is determined not only by scientific discoveries but also by philosophical perspectives.

The following conclusions can be drawn:

- Medicine and philosophy are closely interconnected disciplines
- Studying the history of medicine helps understand modern problems
- Philosophical approaches are essential in medical decision-making
- Bioethics and technology play a crucial role in modern medicine

References (Sample)

1. Avicenna – *The Canon of Medicine*
2. Hippocrates – *Aphorisms*
3. Modern bioethics sources
4. Scientific articles on philosophy of medicine



5. Turdimuratov, B.K. (2022). *Teaching Medical Sciences Using Innovative Methods and ICT*. Tashkent: Uzbekistan Medical Publishing House.
6. Kurbonovich, T.B., & Bahodirovich, B.B. (2026). Step-by-step acquisition of practical skills in studying information technologies in medicine. *Global Science Review*, 17(1), 203–209.
7. Kurbonovich, T.B., & Nurhayat, M. (2026). Compilation and steps of the medical situational issues algorithm. *American Journal of Applied Medical Science*, 4(2), 59–63.
8. Turdimurodov, B.K., et al. The essence of electronic textbooks in medical education. *European Journal of Humanities and Educational Advancements*, 3(4), 48–50.