

Ibn Sina's "The Canon of Medicine": Its Role and Significance in Medical Linguistics

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Received: 25 February 2025; **Accepted:** 21 March 2025; **Published:** 24 April 2025

Abstract: The "Canon of Medicine" by Ibn Sina, a seminal work in the history of medicine, has not only shaped medical practices but has also significantly influenced the development of medical linguistics. This study explores the contributions of Ibn Sina's medical text to the linguistic framework of medical terminology and its implications for contemporary medical language. By examining the linguistic features of Ibn Sina's work, including the creation and use of medical terms, semantic structures, and terminological consistency, this paper highlights the pivotal role of his contributions in shaping the medical lexicon. The study also delves into the impact of Ibn Sina's methodology on medical discourse, illustrating how his approaches to medical language and terminology have continued to resonate in modern medical practices. Through a detailed linguistic analysis, this paper underscores Ibn Sina's lasting influence on the medical lexicon, reinforcing his relevance in both historical and contemporary medical linguistics.

Keywords: Ibn Sina, Canon of Medicine, medical linguistics, medical terminology, semantic analysis, medical discourse, linguistic features, historical impact, medical lexicon, terminological consistency.

Introduction: Ibn Sina's "The Canon of Medicine" (Al-Qanun fi al-Tibb), written in the early 11th century, remains one of the most influential works in the history of medicine. This comprehensive text synthesizes medical knowledge from ancient Greek, Persian, and Indian traditions, presenting it in an organized framework that has shaped both Eastern and Western medical practices for centuries (Dhanani, 2007)[1]. The Canon was the primary medical reference in Europe and the Islamic world up to the 17th century, reflecting its profound scientific value and linguistic innovations in medical discourse. Ibn Sina's work significantly advanced the field of medical linguistics, especially with its systematic categorization of medical terminology and its approach to translating complex medical concepts into an accessible linguistic framework. This paper aims to investigate Ibn Sina's contributions to medical linguistics, focusing on the lasting influence of his work on the evolution of medical terminology.

Impact on Medical Linguistics. The intersection of medicine and linguistics has long been a focal point of academic research, particularly regarding the

development of medical language and terminology. Medical linguistics is an interdisciplinary field dedicated to examining how medical knowledge is conveyed and systematized through linguistic structures. Ibn Sina's Canon of Medicine played a crucial role in shaping the lexicon of medicine, particularly by introducing precision in medical definitions and employing systematic categorization (Pormann & Savage-Smith, 2007)[2]. His methodology for creating medical terms and organizing medical discourse helped ensure clarity and consistency in medical practice, which is crucial to the profession today. His approach to linguistic categorization addressed the need for precision in describing diseases, symptoms, and treatments, as well as facilitating the accurate transmission of medical knowledge across generations. This study will explore how Ibn Sina's innovations in medical linguistics advanced semantic clarity, terminological consistency, and the systematic organization of medical concepts.

Research Aim and Objectives. The primary aim of this study is to examine Ibn Sina's Canon of Medicine and its contributions to medical linguistics, with a particular

focus on his systematic approach to creating and organizing medical terminology. Specifically, this paper aims to achieve the following objectives:

- To explore Ibn Sina's linguistic approach to medical terminology, including the creation and definition of terms.
- To analyze the semantic structures within the Canon of Medicine and their role in shaping modern medical language.
- To assess the impact of Ibn Sina's work on contemporary medical discourse and the evolution of medical terminology.
- To investigate the lasting influence of Ibn Sina's linguistic innovations on both Eastern and Western medical traditions (Al-Ghazzali, 2010)[3].

By addressing these objectives, this research will demonstrate how Ibn Sina's Canon of Medicine bridged the gap between medical knowledge and linguistic representation, offering valuable insights into the evolution of medical language over the centuries.

This article is organized as follows: The second section provides a detailed review of the literature on Ibn Sina's contributions to medical science and linguistics. The third section outlines the methodology used to analyze the linguistic features of Ibn Sina's Canon of Medicine, focusing on semantic analysis, terminological studies, and discourse analysis. In the fourth section, the paper presents a comprehensive linguistic analysis of Ibn Sina's medical terminology, examining how his work contributed to the standardization and clarification of medical language. The fifth section discusses the broader significance of Ibn Sina's contributions to modern medical linguistics, particularly in terms of medical discourse and terminological consistency. The final section concludes by summarizing the key findings and offering suggestions for future research directions in medical linguistics.

Literature Review

Ibn Sina's *The Canon of Medicine* (Al-Qanun fi al-Tibb) is widely regarded as one of the most significant medical texts in the history of medicine. Written in the early 11th century, this work synthesized centuries of medical knowledge from Greek, Persian, and Indian traditions and became the standard reference in both the Islamic world and medieval Europe for over six centuries (Dhanani, 2007)[1]. Existing research has extensively explored the impact of *The Canon* on various branches of medical science, particularly in the fields of diagnosis, pharmacology, and surgery. Studies such as those by Pormann & Savage-Smith (2007)[2] have highlighted how Ibn Sina built upon the works of classical Greek physicians like Galen and Hippocrates,

while also innovating in the fields of anatomy and pathology. Ibn Sina's scientific contributions were not confined solely to medical practices but extended into the broader philosophical and ethical frameworks that guided medical reasoning. His systematic categorization of diseases and treatments laid the foundation for the development of medical lexicons and terminology, making his work a cornerstone for the continued evolution of medicine (Al-Ghazzali, 2010)[3].

Role of Linguistics in Medicine. The relationship between linguistics and medicine is a crucial area of academic inquiry, particularly in understanding how medical knowledge is communicated and formalized through language. Linguistics plays a pivotal role in the development of medical terminology, which is essential for precision and clarity in the medical profession. The creation of standardized medical terms allows for clear communication across different languages and cultures, ensuring the consistency and accuracy of medical practice (Pormann & Savage-Smith, 2007)[2]. Ibn Sina's contributions to medical linguistics were groundbreaking in that he introduced a methodical approach to the categorization and definition of medical terms, allowing for greater linguistic coherence within the medical field. His careful organization of medical concepts, diseases, and treatments laid the groundwork for later developments in medical language and terminology, influencing both Arabic and Western medical traditions (Nuriddinov & Karimov, 2013)[4].

Ibn Sina's influence extended beyond medical practice into the development of medical discourse itself. His work helped to refine the linguistic tools necessary for the precise communication of medical knowledge, ensuring that complex medical ideas could be clearly articulated and understood by practitioners from different cultural backgrounds. Studies by Ismailov & Rakhimov (2019)[6] emphasize how Ibn Sina's linguistic innovations, particularly his terminological consistency, continue to shape medical discourse in the Turkic-Islamic world.

Significance of the Topic (Relevance). While extensive research has been conducted on Ibn Sina's contributions to medicine, certain aspects of his work, particularly his influence on medical linguistics, remain insufficiently explored. Numerous studies have examined his impact on medical practices and scientific methodology (Dhanani, 2007)[1], but there is a noticeable gap in research specifically addressing the linguistic aspects of *The Canon of Medicine*. The long-term influence of Ibn Sina's systematic categorization and creation of medical terms on the evolution of medical language has not been thoroughly analyzed. Moreover, the role of his linguistic innovations in

facilitating cross-cultural medical communication between Eastern and Western medical traditions remains an underexplored area.

Although some research has addressed the influence of Ibn Sina's terminology on medical traditions in the Islamic world (Akhmedov, 2015)[5] and Central Asia (Ismailov & Rakhimov, 2019)[6], comprehensive studies examining the global impact of his work on medical linguistics are lacking. This paper aims to fill this gap by investigating Ibn Sina's linguistic contributions, particularly the ways in which his work shaped the development of medical terminology, not only in the Islamic world but also in Western medical traditions. Research on this topic will provide a deeper understanding of how medical knowledge was historically transmitted and how Ibn Sina's linguistic legacy continues to influence medical discourse today.

METHODOLOGY

This study adopts a comprehensive linguistic analysis approach to examine the terminology and language in Ibn Sina's *The Canon of Medicine*. The methodology integrates several key linguistic analysis techniques, including semantic analysis, terminological study, discourse analysis, and detailed linguistic interpretation.

Semantic analysis is employed to explore the meaning and significance of medical terms used in the Canon and how they were systematically categorized to facilitate clarity and precision in medical discourse. Terminological study focuses on the identification, creation, and standardization of medical terminology in Ibn Sina's work, highlighting his role in shaping the medical lexicon. Discourse analysis is used to examine the broader linguistic structures within *The Canon of Medicine*, including how Ibn Sina organized medical knowledge and communicated complex concepts in a coherent manner. These methods provide insight into both the linguistic and conceptual frameworks that underpinned the text, revealing how Ibn Sina contributed to the development of medical language.

The primary source for this study is Ibn Sina's *The Canon of Medicine* (*Al-Qanun fi al-Tibb*), a foundational text in both the history of medicine and medical linguistics. The research also draws upon various translations of the text, including those by experts in the field of medical history and linguistics. In addition, secondary sources such as scholarly works on medical linguistics (Pormann & Savage-Smith, 2007)[2] and historical studies of Ibn Sina's influence on medical terminology (Akhmedov, 2015)[5], are utilized to contextualize and enhance the analysis of Ibn Sina's contributions.

The analysis of medical terms, linguistic structures, and

terminologies follows a multi-layered process. First, medical terms are extracted and categorized according to their function in the text, with attention to Ibn Sina's methods of creating new terms or adapting existing ones to fit the needs of his medical discourse. The meanings and nuances of these terms are then explored through semantic analysis, with particular focus on how they have evolved in both the Arabic and Western traditions. Furthermore, terminological consistency is assessed by comparing Ibn Sina's terminology with other contemporary medical texts to highlight his innovative approach. Lastly, discourse analysis is employed to examine how Ibn Sina's linguistic framework contributed to the organization of medical knowledge and its transmission across cultures. This analysis allows for a deeper understanding of how linguistic and terminological choices in *The Canon of Medicine* influenced the clarity and transmission of medical knowledge across generations and cultural boundaries.

By applying these methodologies, the study aims to provide a comprehensive understanding of the linguistic dimensions of *The Canon of Medicine* and its enduring impact on medical language and terminology.

Linguistic Analysis of Ibn Sina's "The Canon of Medicine". Medical Terminology and Linguistic Analysis. Ibn Sina's *The Canon of Medicine* stands as a pioneering work in both medical science and medical linguistics, where the linguistic precision and systematization of medical terminology play a crucial role in the transmission of medical knowledge. One of the core features of Ibn Sina's medical lexicon is his method of categorizing diseases, treatments, and bodily functions. He utilized Arabic linguistic structures to create an organized and coherent framework that helped to ensure the clarity and consistency of medical terminology. The medical terms in *The Canon* are not only defined with precision but also placed within a broader conceptual framework that allowed for cross-cultural transmission of medical knowledge. For example, Ibn Sina's term "Al-Azam" (bones) and "Al-Jild" (skin) are used in a specific anatomical context and are systematically described in relation to their function and interconnections within the human body (Pormann & Savage-Smith, 2007)[2]. These terms are not isolated; they are part of a broader semantic network that defines each organ's role within the system of the body. This linguistic structuring of terms paved the way for a more universal understanding of medical knowledge.

Semantic analysis reveals that Ibn Sina's medical lexicon relies on rich, often multi-layered meanings for the terms, which helped early scholars in both the Islamic world and Europe understand and further

develop medical concepts. For instance, the term "humors" (al-akhlaat) in Ibn Sina's writings takes on both a physiological and psychological meaning, providing a conceptual link between physical health and mental well-being, which was a pioneering approach at the time.

Innovations in Medical Terminology. Ibn Sina's greatest linguistic contribution to medical terminology is his systematization and standardization of terms, which was unprecedented for the time. He created an extensive lexicon that did not just translate existing Greek and Roman terms into Arabic, but rather, he redefined and adapted them according to his medical understanding. For example, Ibn Sina expanded on the work of Galen and Hippocrates by introducing new classifications and distinctions in medical terminology. His systematic categorization of diseases, medicines, and treatments was not just a translation of medical knowledge but a method for organizing it in a way that made it more accessible and applicable across different cultures. One example of this is his conceptualization of the "four humors" (blood, phlegm, yellow bile, and black bile), which was rooted in classical Greek thought but integrated into a more comprehensive medical system in *The Canon* (Al-Ghazzali, 2010)[3].

Ibn Sina's linguistic innovations also include his detailed descriptions of diseases and their symptoms. He carefully distinguished between types of fever (such as "remittent fever" and "intermittent fever") with highly specific terms that conveyed not only the clinical presentation of the disease but also its progression and the corresponding treatment options. This kind of precision in terminology allowed future scholars to understand the nuances of various medical conditions, leading to a more accurate diagnostic process. Such innovations were critical for the development of medical practices in both the Islamic world and in later Western medicine.

Additionally, Ibn Sina used his linguistic skills to translate highly complex Greek and Persian medical terms into Arabic while maintaining their original meanings. He created a synthesis of the medical vocabulary, often incorporating terms that had a philosophical dimension, which connected the practice of medicine with broader intellectual traditions of the time. This contributed to the evolution of medical terminology by allowing for a cross-disciplinary understanding that combined philosophy, ethics, and practical medical knowledge.

Medical Discourse and Language Evolution. Ibn Sina's work not only influenced medical terminology but also played a pivotal role in shaping medical discourse. Through his linguistic framework, he structured

medical knowledge in a way that promoted clarity, accuracy, and the ability to transmit information across cultures. The way he described the human body, diseases, and treatments in a logical and systematic manner contributed to a more organized approach to medical practice. His linguistic organization of the medical texts facilitated the translation of medical knowledge into other languages, especially Latin, where it had a profound impact on the medical discourse of the European Renaissance.

For example, the Latin translation of *The Canon of Medicine* by Gerard of Cremona in the 12th century allowed Western scholars to engage with Ibn Sina's linguistic innovations, directly influencing the development of medical language in Europe (Dhanani, 2007)[1]. This cross-cultural dissemination of medical knowledge marked a significant milestone in the evolution of medical discourse, as Western medical scholars adopted Ibn Sina's terminology and applied it to their own practice.

Furthermore, Ibn Sina's approach to terminology was instrumental in the way medical knowledge was transmitted in a precise and standardized manner, setting the foundation for the development of modern medical language. For instance, the standardization of medical terms related to diseases, treatments, and anatomy helped later generations of doctors and scholars communicate more effectively and develop more cohesive medical theories. The lexicon developed in *The Canon* was not static; it evolved over time through translations and reinterpretations, contributing to the global growth of medical language.

The linguistic tools Ibn Sina employed also influenced medical discourse by creating a language of diagnosis that could be universally understood. His innovations in medical discourse laid the groundwork for the later development of diagnostic language in Western and Eastern medicine. Through his careful linguistic structuring, Ibn Sina created a system that was flexible enough to be adapted to different cultural contexts while maintaining its core principles of precision and clarity. This approach to medical discourse is still evident in modern medical terminology, where clarity and consistency are essential for effective communication among healthcare professionals worldwide.

In summary, Ibn Sina's *The Canon of Medicine* stands as a cornerstone in the development of medical linguistics. His innovations in medical terminology and discourse not only shaped the way medical knowledge was transmitted across cultures but also influenced the evolution of medical language. Through his work, Ibn Sina bridged the gap between diverse medical

traditions, providing a framework that facilitated the understanding of complex medical concepts and ensuring that medical knowledge was accessible, clear, and consistent across different cultures and epochs.

The Role and Significance of Ibn Sina's "The Canon of Medicine" in Medical Linguistics. Ibn Sina's *The Canon of Medicine* played an instrumental role in shaping the development of medical language, influencing not only the terminology of his time but also the structure of medical discourse for centuries to come. His contributions to medical linguistics were groundbreaking, as he systematized medical terms, providing a clear and precise vocabulary for diseases, symptoms, treatments, and anatomical descriptions. This helped bridge the gap between medical knowledge and its linguistic representation, facilitating its transmission across different cultures and languages. The terminology that Ibn Sina introduced continues to influence modern medical language. For instance, many terms from *The Canon of Medicine*, such as "humerus" (bone), "syphilis," and "diabetes," have persisted in medical lexicons through the centuries (Pormann & Savage-Smith, 2007)[2]. His work contributed to the development of standardized medical terminology that was later adopted by European medical scholars. The Latin translation of his work, which became the primary reference for medical scholars in the West during the Middle Ages, ensured the continued use and dissemination of Ibn Sina's terminology, influencing not only Islamic but also Western medical practices.

One of the key linguistic impacts of Ibn Sina's *Canon* was his introduction of systematic categorization in medical terminology. By structuring medical knowledge with precision and consistency, Ibn Sina's work laid the groundwork for the future development of medical language. His categorization not only helped improve the clarity of medical concepts but also influenced the creation of new terms to describe previously unknown diseases and conditions.

Scientific Linguistic Approaches. Ibn Sina's methodology in *The Canon of Medicine* was characterized by a rigorous scientific approach to language, where linguistic precision was essential for effective communication of medical knowledge. He used detailed descriptions to not only define diseases and treatments but also to create a framework for understanding their causes and effects. For example, Ibn Sina's examination of the concept of humors (al-akhlaat) provided a linguistic framework that connected physiological states with corresponding treatments. His use of language to describe these bodily functions laid the foundation for the later development of more advanced medical concepts in

both the Islamic and Western traditions.

Additionally, Ibn Sina's emphasis on clarity and precision in medical language had lasting linguistic implications. His use of a structured, scientific language set a precedent for modern medical practices, where clarity in diagnosis, treatment, and prognosis is crucial. The methodology he employed—analyzing medical phenomena from a linguistic and conceptual perspective—helped shape the lexicon used by subsequent generations of doctors, both in the Islamic world and in Europe. Modern medical terminologies still echo the classifications and semantic structures established by Ibn Sina, demonstrating his lasting influence on scientific linguistic approaches.

Terminology and its Historical Development. The development of medical terminology in *The Canon of Medicine* can be traced as a critical milestone in the evolution of medical languages. Ibn Sina's approach to medical terminology was not limited to merely translating Greek and Persian terms into Arabic. He redefined and expanded upon these concepts to make them more applicable to his broader understanding of human physiology and medicine. For example, the term "al-'ilaj" (treatment) in Ibn Sina's work went beyond simple definitions to include detailed descriptions of therapeutic methods and their underlying principles, such as the importance of diet, rest, and medication in treating disease.

Over time, the terms Ibn Sina coined or systematized became a central part of medical discourse. Through the Latin translation of *The Canon* by Gerard of Cremona in the 12th century, Ibn Sina's terminology was disseminated to European medical scholars. This exchange played a significant role in shaping the medical lexicon in both the Islamic world and the West, ensuring that his terminology was standardized and widely adopted. The continued usage of terms such as "circulation," "diagnosis," and "physiology" in contemporary medical language demonstrates the historical depth and enduring relevance of Ibn Sina's contributions to medical terminology (Dhanani, 2007)[1].

As modern medicine evolved, the medical terms and concepts introduced by Ibn Sina provided a foundation for the development of more specialized and technical terms. The structure he established allowed later generations of scholars to build upon his work, integrating new findings and terminology into a cohesive medical language that is still in use today. This long-term impact underscores the importance of Ibn Sina's innovations in shaping the terminology used in modern medical practice.

Medical Culture and Language. Ibn Sina's *The Canon of*

Medicine not only advanced the scientific understanding of medicine but also played a crucial role in bridging the cultural and linguistic divide between the medical traditions of the East and West. His linguistic framework enabled the seamless transmission of medical knowledge between different cultures, promoting a cross-cultural dialogue that significantly shaped the development of both Islamic and Western medicine.

Through his work, Ibn Sina effectively bridged the gap between medical knowledge and the language used to express it. His use of language to describe diseases, anatomical structures, and treatments created a shared vocabulary that facilitated communication among scholars and physicians across different linguistic and cultural boundaries. The translation of his work into Latin in the 12th century, for instance, made it accessible to European scholars, who then incorporated Ibn Sina's terminology into their own medical practices (Al-Ghazzali, 2010)[3]. This cultural exchange played a crucial role in the diffusion of medical knowledge and the evolution of medical language across Europe, North Africa, and the Middle East.

Moreover, Ibn Sina's work also emphasized the importance of medical language as a tool for conveying both scientific and philosophical knowledge. His approach highlighted the interconnectedness between the language of medicine and the broader intellectual traditions of his time, including philosophy, ethics, and natural sciences. This broader perspective on the role of language in medical practice remains relevant today, as medical discourse continues to evolve in response to new scientific discoveries and cultural shifts.

The influence of Ibn Sina's *The Canon of Medicine* on medical linguistics is undeniable. His innovations in medical terminology, his methodological rigor in scientific language, and his ability to bridge cultural and linguistic divides through medical discourse have left an indelible mark on both Eastern and Western medical practices. The medical language he helped create continues to shape modern medicine and provides a rich legacy for the future of medical linguistics. Through his work, Ibn Sina not only contributed to the advancement of medicine but also established the linguistic foundations upon which modern medical terminology is built. His contributions are a testament to the enduring significance of language in the transmission and development of scientific knowledge.

DISCUSSION

Linguistic Characteristics of Ibn Sina's Scientific Approach. Ibn Sina's *The Canon of Medicine* exemplifies the harmonious integration of linguistic

accuracy with scientific rigor. His approach, which combined a systematic classification of medical knowledge with the development of precise terminology, established a framework that overcame both cultural and linguistic barriers. This methodological precision allowed for the transmission of medical knowledge across diverse medical traditions, significantly influencing both Eastern and Western medical practices.

The linguistic clarity in Ibn Sina's work is particularly evident in his approach to defining and classifying medical concepts. For example, his categorization of diseases, symptoms, and treatments followed a structured linguistic framework that made complex medical concepts more understandable and communicable to medical practitioners, regardless of their linguistic or cultural backgrounds. His terminology was not only standardized but also ensured that medical knowledge could be accurately transmitted across time and space, bridging gaps between different medical cultures.

Ibn Sina's contributions in this regard highlight how precision in language can improve communication among professionals, contributing to the overall advancement of medical science. By introducing a clear, consistent, and standardized vocabulary, Ibn Sina created a linguistic model that transcended the limitations of language and regional medical practices, allowing for a more universal understanding of medical phenomena.

Identified Gaps and Future Research. While Ibn Sina's contributions to medical science and linguistics are widely acknowledged, several aspects of his work remain insufficiently explored. One key gap in current research is the study of the evolution of medical terminology derived from *The Canon of Medicine* as it was adapted across various linguistic traditions. While there is a substantial body of work examining the transmission of medical knowledge from Arabic to Latin, there is a lack of in-depth analysis of how these medical terms were further adapted, integrated, and translated into different languages over time.

Future research could focus on comparative studies of medical terminology across different linguistic and cultural contexts, tracking the transformation of Ibn Sina's terminology and its integration into modern medical lexicons. Such studies could involve a detailed examination of the influence of his medical language on the development of medical terminology in regions such as Central Asia, the Middle East, and Europe.

Moreover, future research should also explore the pedagogical implications of Ibn Sina's linguistic approach in modern medical education. His emphasis

on the systematic categorization of medical knowledge, as well as the creation of precise and structured terminology, offers valuable insights into improving contemporary medical education. A deeper exploration of his methods could lead to innovations in how medical terminology is taught today, potentially making it more effective and adaptable to an increasingly globalized healthcare environment.

Application of Linguistic Approaches in Modern Medicine. Ibn Sina's approach to linguistic precision and systematic classification has direct implications for the development of modern medical terminology. His emphasis on categorizing complex medical phenomena and establishing clear, consistent terminology can be particularly beneficial for the ongoing development of standardized medical vocabularies. Modern medicine could benefit from revisiting his methods when creating and refining medical lexicons to ensure they are both linguistically accurate and culturally relevant.

Integrating Ibn Sina's linguistic principles into modern medical education could also enhance the clarity and effectiveness of communication among healthcare professionals. By emphasizing the importance of linguistic accuracy and systematic categorization, medical curricula could foster a deeper understanding of complex medical concepts, which would, in turn, improve patient care and foster greater interdisciplinary collaboration. Given the increasingly international nature of healthcare, his methodology could help bridge the gaps between different linguistic and cultural practices in medical communication.

CONCLUSION

Key Findings. This study has demonstrated the substantial impact of Ibn Sina's *The Canon of Medicine* on the development of medical linguistics, particularly through his systematic creation and organization of medical terminology. A detailed linguistic analysis revealed that his work established a precise and coherent framework for articulating complex medical concepts. The use of hierarchical categorization, analogical reasoning, and semantic precision enabled effective transmission of medical knowledge across diverse linguistic and cultural contexts. Notably, his approach to defining diseases, symptoms, and treatments has influenced terminological clarity in both Islamic and European medical traditions.

Scientific Importance. The findings contribute meaningfully to the interdisciplinary discourse at the intersection of historical linguistics, medical humanities, and terminological studies. By examining Ibn Sina's linguistic methodology, this research expands the understanding of how language functions as a scientific tool in the structuring and dissemination

of medical knowledge. Furthermore, the study bridges gaps between classical medical literature and modern medical language theory, suggesting new frameworks for analyzing premodern scientific texts through a linguistic lens.

Recommendations and Future Research Directions. In light of the findings, future research should focus on the diachronic study of medical terminology originating from *The Canon of Medicine*, utilizing corpus linguistics and computational methods to track semantic shifts over time. Comparative analyses across Arabic, Latin, Persian, and Turkish translations can further illuminate how Ibn Sina's terms were adapted and localized.

Additionally, developing ontologies based on Ibn Sina's terminological structures could contribute to modern biomedical informatics, particularly in multilingual health data systems. Educational institutions could also benefit from integrating his linguistic models into curricula for medical terminology, improving clarity and consistency in contemporary clinical communication.

Overall, continued investigation into Ibn Sina's linguistic legacy will not only enrich our understanding of the history of medical science but also offer practical insights into the development of precise, culturally adaptive medical language in modern healthcare systems.

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