CHANGES IN THE ENGLISH MEDICAL TERMINOLOGY: TEACHING UP-TO DATE MEDICAL VOCABULARY TO PROSPECTIVE MEDICAL WORKERS

Horzhui Dmytro,
Lecturer
Professional College of Medicine and Pharmacy
of Poltava State Medical University

The journey of medical terminology over the centuries is a fascinating reflection of the evolution of medicine itself. Originating from Greek and Latin, the roots of medical vocabulary are deeply entrenched in history, showcasing over 2,500 years of development [1]. This historical depth underscores the complexity and richness of the language used by healthcare professionals today. Greek and Latin, being classical languages, have provided a stable foundation for medical terms. However, the inherent adaptability and ongoing changes in the English language have introduced a dynamic aspect to medical vocabulary, ensuring it evolves in response to new discoveries and societal shifts [1]. The historical perspective on medical vocabulary not only highlights its classical origins but also sets the stage for understanding how and why it continues to change.

The reasons for changes in medical terminology are multifaceted, encompassing several key factors that drive its evolution. A significant reason is the need to improve comprehension and reduce the complexity that often characterizes medical communication. The existence of "medical jargon" can create barriers to understanding, particularly for patients and healthcare professionals with low medical literacy [1]. Additionally, the development of new technologies and scientific advancements necessitates the creation of new terms to describe novel concepts, procedures, and tools. This continuous influx of new terminology is essential for ensuring accurate and effective communication within the medical community and with patients. Moreover, the push towards standardization and classification, as seen with the development of tools like MeSH terms, aims to equate and classify medical terminology to enhance communication and comprehension within the global medical community [2].

The impact of technology and globalization on medical vocabulary is profound, significantly influencing its evolution in recent years. The rapid advancement of medical technology introduces new techniques, treatments, and devices, necessitating the creation or adaptation of terms to describe these innovations accurately [2]. Globalization further compounds these changes by facilitating the international exchange of medical knowledge and practices, which requires a common language to ensure effective communication across different linguistic and cultural backgrounds [2]. This global interaction has led to a noticeable shift in how medical English is taught, emphasizing the need to approach it from the perspective of medicine and

healthcare first, reinforced by linguistic proficiency [3]. Such changes are indicative of the ongoing transformation in medical education and practice, driven by technological progress and the interconnectedness of the global medical community.

The rapid pace of changes in medical terminology presents a significant challenge to the field of medical education. With roots deeply embedded in Greek and Latin, medical terminology has historically been stable and uniform. However, the advent of new medical technologies, procedures, and the necessity for new terms to describe these advancements have led to an accelerated evolution of medical vocabulary. In 2022 alone, major changes were observed in primary healthcare terminologies, underscoring the dynamic nature of the medical language landscape [4]. This evolving terminology is not just a matter of linguistic interest but has profound implications for medical practice, requiring educators and practitioners to continuously update their knowledge to ensure accurate and effective communication.

Integrating new medical terms into curricula is a complex process that requires a strategic approach to ensure that the future workforce is well-prepared. The integration process, as proposed in various frameworks, involves not just updating textbooks but also adapting teaching methodologies to include the latest terminological advancements [5]. For instance, the use of intuitive systems for learning medical vocabulary, which builds terms from word parts, has been highlighted as an effective strategy. Such systems, often color-coded for ease of learning, ensure that students not only memorize terms but also understand their construction and meaning, thereby facilitating a deeper understanding of the subject matter [5]. This approach is particularly important in a field where precision in language can significantly impact patient care and outcomes.

Ensuring uniform understanding and usage of medical terminology across different regions poses another layer of complexity. The diversity in linguistic backgrounds among medical professionals and students necessitates a teaching approach that acknowledges and addresses these differences. Recent studies emphasize the importance of teaching medical English from the perspective of medicine and healthcare first, reinforcing learning with linguistic structures afterward [5]. This method acknowledges the primary role of medical terminology in effective patient care and seeks to bridge the gap between different linguistic norms within the medical community. Moreover, this approach aligns with the broader educational objective of not merely teaching a language but ensuring that it serves its fundamental purpose of facilitating clear and precise communication in healthcare settings.

Utilizing digital tools and resources for real-time updates in the medical field has become an indispensable strategy for teaching up-to-date medical vocabulary to prospective medical workers. With the advancements in technology, educators now have the flexibility to create and deliver dynamic content through digital platforms [6]. These platforms offer access to leading evidence-based clinical and drug decision support solutions, which are trusted by over two million health professionals worldwide [6]. Furthermore, numerous applications are available to assist healthcare practitioners (HCPs) with a variety of tasks, including information and time management, as well as health record maintenance and access [7]. This digitization of

resources ensures that medical students and professionals are always in touch with the latest terminology and practices in their field.

Incorporating case studies and recent research findings into the curriculum is another effective method for teaching current medical vocabulary. The implementation of the case study approach plays a vital role in medical education, as it presents medical topics in a practical context that is more easily understood by students. This approach is supported by the new paradigm, which advocates for teaching medical English from the perspective of medicine and healthcare first, thereby reinforcing the importance of up-to-date terminology through real-world applications [8]. By engaging with the latest research findings and case studies, students gain exposure to the most recent medical terminology and concepts, preparing them for successful careers in the healthcare industry.

Encouraging participation in professional forums and conferences is a valuable strategy for keeping prospective medical workers informed about the latest developments in medical vocabulary. These platforms provide an opportunity for students and professionals to engage with peers and experts in the field, facilitating the exchange of knowledge and experiences. Participation in such forums and conferences supports the professional development needs of healthcare practitioners by offering continuing medical education (CME) and maintenance of certification (MOC) opportunities [9]. This exposure not only enhances their understanding of current medical practices but also allows them to stay abreast of the dynamic changes in medical terminology, ensuring their proficiency and effectiveness in patient care.

The importance of lifelong learning in the medical field cannot be overstated, particularly when it comes to the mastery of medical terminology. This proficiency is not only crucial for effective communication among healthcare professionals but also plays a significant role in ensuring positive patient outcomes [9]. As medical science evolves, so does the language used to describe it, making continuous education a necessity. Lifelong learning in medicine is recognized globally as essential for keeping up with the rapid advancements in the field [10]. This ongoing process of learning helps healthcare providers stay knowledgeable about the latest terminologies, treatments, and technologies, thereby enhancing the quality of patient care[11].

Opportunities for ongoing education and certification in the medical field are abundant, with various platforms and institutions offering courses specifically designed to update medical professionals on the latest terminology and practices. Continuing education or continued professional development (CPD) programs are pivotal in this regard, enabling healthcare professionals to update their skills regularly [11]. For example, UpToDate's continuing medical education program allows healthcare professionals to earn CME/CE/CPD credits while searching for the answers they need, effectively linking learning with practice [11]. These educational opportunities not only ensure that medical practitioners are up-to-date with the latest medical vocabulary but also facilitate the integration of new knowledge into patient care, thereby improving healthcare outcomes.

Networking and collaboration for knowledge exchange are invaluable tools for medical professionals seeking to stay informed about changes in medical terminology

and practices. By engaging with peers, attending seminars, and participating in professional forums, healthcare workers can share insights and learn from each other's experiences. This collaborative approach to learning encourages the dissemination of innovative ideas and practices, fostering a culture of continuous improvement within the medical community. Moreover, it offers a platform for discussing the implications of new terminologies and how they can be effectively taught and applied in clinical settings, ensuring a collective move towards enhanced patient care and satisfaction.

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