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THE USE OF DIGITAL EDUCATIONAL RESOURCES IN THE FORMATION OF MEDICAL PROFESSIONAL SKILLS

Bakhriddinova Yorkinoy Numanovna,
Andijan College of Public Health named after Abu Ali Ibn Sina,
Teacher of the Department of General Education Subjects,
yorqinoybaxriddinova@gmail.com

Abstract
This paper explores the role of digital educational resources (DERs) in developing professional skills in medical education. It discusses how tools such as virtual simulations, interactive platforms, and multimedia content enhance learning, engagement, and skill development. The integration of English-medium DERs not only improves access to global medical knowledge but also strengthens communication and terminology usage. The paper outlines benefits, classroom applications, and challenges associated with DER implementation, emphasizing the need for a blended, pedagogically sound approach in modern medical training.

Keywords: Digital educational resources; medical education; professional skills; simulation; English for medical purposes; online learning; multimedia; virtual anatomy; blended learning; healthcare training.

Introduction

In recent years, digital technologies have rapidly transformed the landscape of education, particularly in the field of medicine. As medical science continues to evolve, so too does the need for innovative and flexible approaches to professional training. The development of medical skills requires not only theoretical knowledge but also hands-on experience and critical thinking. In this context, digital educational resources—such as e-learning platforms, virtual simulations, instructional videos, interactive modules, and mobile applications—play a vital role in shaping the professional competencies of future healthcare providers. This paper explores the

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application of digital educational tools in medical education and how they contribute to the effective formation of professional skills among medical students.

Professional skills in medicine go beyond textbook knowledge; they include clinical reasoning, communication with patients, teamwork, decision-making, and ethical behavior. Developing these competencies is essential for delivering quality healthcare services. Traditional classroom-based teaching methods are often insufficient to fully equip students for the demands of real-world clinical settings. Therefore, integrating digital tools into medical training allows educators to bridge the gap between theory and practice by providing learners with interactive, scenario-based learning experiences that mirror real-life medical challenges.

Digital educational resources encompass a wide range of tools designed to support different aspects of learning. These include:

- **Virtual simulations** (e.g., simulated surgeries, patient interaction scenarios)
- **3D anatomical models** accessible via augmented or virtual reality
- **Learning Management Systems (LMS)** such as Moodle or Canvas for structured coursework
- **Mobile apps** that provide quick access to medical references and quizzes
- **Video lectures and case-based tutorials**

Such tools cater to diverse learning styles, enhance student engagement, and allow repeated practice in a risk-free environment[1].

The integration of digital resources into medical education offers several benefits:

- **Flexibility**: Students can learn at their own pace and revisit complex topics as needed.
- **Interactivity**: Simulations and virtual labs foster active participation and critical thinking.
- **Accessibility**: Educational materials are available anytime and anywhere, especially important for remote or blended learning.
- **Improved retention**: Visual and interactive content helps learners retain information more effectively.
- **Personalization**: Adaptive learning platforms adjust the content according to the learner's performance and needs.

[1] Cook, D. A., & Triola, M. M. (2009). Virtual patients: A critical literature review and proposed next steps. *Medical Education*, 43(4), 303–311.

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These advantages collectively contribute to the deeper and more effective formation of medical professional skills.

Despite the numerous benefits, the use of digital resources is not without challenges. These include:

- **Lack of technical infrastructure** in some institutions
- **Limited digital literacy** among students or educators
- **Potential overreliance** on technology, reducing hands-on clinical practice

To overcome these barriers, institutions should invest in reliable infrastructure, provide training for both faculty and students, and adopt a blended learning approach that combines digital tools with real-world clinical exposure.

Conclusion

Digital educational resources have become an indispensable component of modern medical training. They provide innovative ways to teach, practice, and assess essential professional skills in a flexible and engaging manner. By incorporating simulations, multimedia content, and interactive tools, medical educators can create dynamic learning environments that prepare students for real-world medical practice. As technology continues to evolve, its role in shaping competent, confident, and capable healthcare professionals will only become more significant.

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