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Integrating Pharmacy Education, Humanities, and Information Technology: Advancing Interdisciplinary Learning for Healthcare Innovation

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Abstract

The rapid advancement of healthcare systems in the digital age has highlighted the need for interdisciplinary approaches in education that integrate pharmacy, humanities, and information technology. Pharmacy education is no longer limited to the study of medicines and clinical practices; it increasingly requires the development of ethical awareness, communication skills, critical thinking, and technological competence. The integration of humanities into pharmacy education enhances students' understanding of patient-centered care, cultural diversity, professional ethics, and social responsibility. Simultaneously, information technology provides innovative tools such as artificial intelligence, electronic health records, telepharmacy, data analytics, and digital learning platforms that improve educational outcomes and healthcare delivery.

This paper explores the significance of combining pharmacy education, humanities, and information technology to create a comprehensive learning environment that prepares future healthcare professionals for emerging challenges. The study examines the role of interdisciplinary learning in fostering collaboration, innovation, and evidence-based decision-making within healthcare settings. Furthermore, it discusses the opportunities and challenges associated with implementing technology-enhanced and humanities-oriented pharmacy curricula. The paper concludes that an integrated educational framework can enhance professional competencies, improve patient care, and contribute to healthcare innovation and sustainable development in the twenty-first century.

Keywords

Pharmacy Education; Humanities; Information Technology; Interdisciplinary Learning; Healthcare Innovation; Artificial Intelligence; Digital Health; Patient-Centered Care; Healthcare Technology; Educational Innovation.