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PEDAGOGICAL MODEL FOR DEVELOPING FOREIGN LANGUAGE COMPETENCE AMONG MEDICAL EDUCATION STUDENTS

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Abstract

This article examines the process of developing foreign language competence among medical students from a pedagogical perspective. In the context of globalization and international integration, proficiency in foreign languages, particularly English, has become an essential component of medical education. It is required not only for accessing scientific literature and participating in international conferences but also for effective professional communication and research activities. A pedagogical model was developed that integrates target, content, methodological, technological, and assessment components into the language training process. The research employed theoretical, comparative, and empirical methods, including pedagogical modeling, observation, experiments, surveys, and interviews. Results demonstrated that communicative approaches, CLIL (Content and Language Integrated Learning), interdisciplinary integration, and innovative technologies significantly enhanced students' linguistic competence, motivation, and ability to apply foreign languages in professional contexts. Despite challenges such as limited resources, varied proficiency levels, and insufficient teacher training, the model proved effective in preparing students for international collaboration and professional growth.

Keywords: Medical education, foreign language competence, pedagogical model, communicative approach, CLIL, interdisciplinary integration, innovative technologies, professional communication, medical terminology.

Introduction

In the era of globalization and international integration, the role of foreign languages in higher medical education has become increasingly significant. Medical professionals are now expected to meet international standards, which requires not only advanced clinical knowledge and practical skills but also proficiency in foreign languages, especially English. English has become the lingua franca of science and medicine, serving as the primary medium for accessing the latest scientific literature, engaging in international conferences,

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collaborating with global colleagues, and participating in research networks. Consequently, medical students who lack foreign language competence face challenges in keeping pace with scientific advancements and integrating into the global medical community.

Foreign language competence in medical education should therefore be understood as a comprehensive construct. It is not limited to mastering linguistic forms but extends to the ability to communicate effectively in professional contexts, to participate in international academic and research activities, and to acquire and apply innovations in modern medicine. Developing such competence requires a pedagogical approach that combines linguistic knowledge with medical content, thus ensuring that language learning is directly relevant to students' future professional roles. This study introduces and analyzes a pedagogical model designed to cultivate foreign language competence among medical students.

RESEARCH METHODS

The methodological framework of the study was built upon a combination of theoretical, comparative, and empirical approaches. Theoretical analysis involved the examination of national and international literature on pedagogy, linguistics, and language teaching methodologies, with particular attention to communicative approaches and the CLIL (Content and Language Integrated Learning) framework. This analysis also included a review of the historical development of language teaching in medical education and current global trends.

Comparative analysis was conducted to benchmark local practices against international experiences. For instance, foreign language teaching in medical institutions in countries such as the United States, Germany, South Korea, and Turkey was studied. These countries were chosen for their advanced integration of English into medical education and their use of innovative pedagogical technologies. This comparison revealed both strengths and weaknesses of the local system and informed the development of practical recommendations.

Pedagogical modeling was employed to design a structured model for developing foreign language competence. This model incorporated target, content, methodological, technological, and assessment components, each tailored to the specific requirements of medical education. The model was further tested through pedagogical observation and experimentation. During these stages, students' participation in classroom activities, their communicative engagement, and their ability to engage in independent learning were closely monitored.

Empirical methods included surveys and interviews with both students and instructors, aimed at identifying challenges, difficulties, and successful practices in foreign language teaching. Experimental methods were also applied, whereby selected student groups were exposed to innovative methods such as role-plays, case studies, CLIL-based lessons, and interactive simulations. Their performance was compared to control groups to measure the effectiveness of these methods.

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RESULTS

The research produced a number of significant outcomes. First, a comprehensive pedagogical model was designed to structure the process of developing foreign language competence in medical students. The target component of the model identified language training as an inseparable part of professional preparation. The content component included not only the acquisition of medical terminology in English, Latin, and Russian but also the practice of analyzing clinical dialogues, reading scientific articles, and discussing professional texts.

The methodological component emphasized communicative techniques, interactive group work, role-plays, and CLIL-based integration of language learning with clinical subjects such as anatomy, pharmacology, and pathology. The technological component encouraged the use of online learning platforms (such as Coursera and Medline), mobile applications (such as Medscape and Visual Anatomy), multimedia resources, and virtual simulations to enhance the learning process. Finally, the assessment component introduced a comprehensive evaluation system, including tests, presentations, translation assignments, and clinical simulations to measure students' progress.

As a result of implementing this model, students demonstrated marked improvements in communicative competence. They became more confident in engaging in professional conversations, conducting clinical dialogues, and delivering presentations in English. Their ability to use medical terminology in multiple languages improved significantly, which facilitated access to international literature. Interdisciplinary integration strengthened students' understanding of the practical relevance of language learning, while innovative teaching methods motivated them to participate more actively in classes. Moreover, online platforms and virtual tools expanded opportunities for independent study, allowing students to continue learning beyond the classroom.

DISCUSSION

The study confirms that traditional methods of language teaching, which focus primarily on grammar and vocabulary memorization, are insufficient in the context of medical education. Modern pedagogical approaches are required to address the practical and interdisciplinary nature of medical training. The communicative approach, for example, encouraged students to use language as a living tool for real interactions. Role-plays simulating doctor – patient and doctor –colleague conversations improved their fluency and ability to adapt to clinical contexts.

The CLIL approach proved particularly effective, as it integrated medical content with language instruction, enabling students to simultaneously acquire professional knowledge and linguistic skills. By studying anatomy, pharmacology, or clinical cases in English, students were able to internalize medical terminology faster and apply it in real scenarios. Interdisciplinary integration, in turn, helped increase the professional value of language classes, enhancing student motivation by demonstrating the direct relevance of language skills to their future careers.

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The use of innovative technologies further expanded students' independent learning capacity. Virtual simulations allowed them to practice professional dialogues in risk-free environments, while online platforms gave them access to up-to-date international resources. However, several challenges were identified, such as the shortage of specialized learning materials, varying levels of language proficiency among students, the need for teacher training in CLIL and innovative methodologies, and limited time allocated to foreign language instruction due to the heavy focus on clinical subjects.

CONCLUSION

The findings of the study demonstrate that the formation of foreign language competence is a fundamental element of medical students' professional training. The pedagogical model developed through this research successfully combines target-oriented, content-based, methodological, technological, and assessment elements, thereby providing students with both theoretical and practical skills. Its implementation equips students with the ability to effectively communicate in professional contexts, engage in international scientific activities, and access global medical knowledge.

The introduction of this model into the educational process will enable students to apply foreign languages effectively in their professional practice, prepare them for active participation in international conferences and research collaborations, enhance their skills in working with foreign sources of scientific information, and strengthen their competitiveness as future medical specialists in a globalized world. Nevertheless, addressing the identified challenges – such as insufficient learning resources, differences in student proficiency levels, and the need for continuous teacher training – is essential for further development. In conclusion, the integration of communicative methods, CLIL, interdisciplinary approaches, and innovative technologies represents a sustainable pathway toward improving foreign language teaching in medical education and ensuring the preparation of globally competent healthcare professionals

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