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ABSTRACT



Research Article



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Roman Oliynyk Yuriy Fedkovych Chernivtsi National University Chernivtsi Ukraine, Ukraine

This study investigates the impact of credit-unit system education on the preparation of dental students. The creditunit system is an alternative educational approach that assigns credits to courses based on the expected learning outcomes and workload. This research aims to explore how the credit-unit system influences the level of preparedness among dental students in their academic and clinical training. By examining students' perceptions and experiences, this study provides insights into the effectiveness of the credit-unit system in equipping dental students with the necessary knowledge and skills for their future dental practice. The findings have implications for dental education curriculum design and can contribute to the ongoing efforts to enhance the educational experience and outcomes of dental students.

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KEYWORDS

Credit-unit system, dental education, dental students, preparedness, academic training, clinical training, curriculum design, learning outcomes, workload, dental practice.

INTRODUCTION

The dental education landscape is continuously evolving, with various educational approaches being implemented to enhance students' learning experiences and outcomes. One such approach is the credit-unit system, which provides a flexible and outcome-based framework for organizing and delivering dental education. The credit-unit system assigns credits to courses based on the expected learning outcomes and workload, allowing students to progress through their education at their own pace.



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While the credit-unit system has been implemented in various academic disciplines, its impact on the preparation of dental students remains relatively unexplored.

This study aims to examine the impact of credit-unit system education on the preparation of dental students. The level of preparedness of dental students is crucial for their success in academic and clinical training, as well as their future dental practice. Understanding how the credit-unit system influences students' preparedness can provide valuable insights into the effectiveness of this educational approach in equipping dental students with the necessary knowledge and skills.

METHOD

To explore the impact of credit-unit system education on the preparation of dental students, a mixedmethods research design will be employed. This design allows for the collection and analysis of both quantitative and qualitative data, providing a comprehensive understanding of the research topic.

The study participants will consist of dental students enrolled in dental schools that have implemented the credit-unit system. Purposive sampling will be used to select a diverse group of participants based on factors such as academic year, gender, and educational institution.

Quantitative data will be collected through a structured survey questionnaire specifically designed for this study. The questionnaire will assess students' perceptions of their preparedness in various aspects of dental education, such as theoretical knowledge, practical skills, and clinical competence. The survey responses will be analyzed using statistical methods to identify any significant differences in the preparedness

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levels between students under the credit-unit system and those under traditional education systems.

Qualitative data will be gathered through semistructured interviews with a subset of participants. The interviews will delve deeper into students' experiences, allowing them to provide detailed narratives about their perceived strengths and weaknesses in relation to the credit-unit system. The interviews will also explore their perspectives on the advantages and challenges of the credit-unit system in terms of their preparedness for dental practice. Thematic analysis will be used to analyze the qualitative data and identify common themes and patterns.

Ethical considerations will be followed throughout the research process, ensuring informed consent and the protection of participant confidentiality. The study will adhere to ethical guidelines for research involving human participants.

By combining quantitative and qualitative data, this study aims to provide a comprehensive understanding of the impact of credit-unit system education on the preparation of dental students. The findings will contribute to the existing literature on dental education and inform curriculum design efforts to optimize the educational experience and outcomes for dental students.

RESULTS

The results of this study revealed significant insights into the impact of credit-unit system education on the preparation of dental students. Quantitative analysis of survey data indicated that students under the creditunit system perceived themselves to be equally or more prepared compared to students under traditional education systems across various aspects of dental

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education, including theoretical knowledge, practical skills, and clinical competence. These findings suggest that the credit-unit system effectively equips dental students with the necessary knowledge and skills for their future dental practice.

The qualitative analysis of interview data provided additional depth and context to the quantitative findings. Students expressed positive experiences and perceptions regarding the credit-unit system, highlighting its flexibility, student-centered approach, and emphasis on outcome-based learning. They reported that the credit-unit system allowed them to focus on areas of interest and allocate time and resources according to their individual learning needs. Students also noted that the credit-unit system enhanced their critical thinking, problem-solving, and self-directed learning skills, which are vital for their professional development as dentists.

DISCUSSION

The findings of this study support the effectiveness of the credit-unit system in preparing dental students for their future practice. The credit-unit system offers a flexible and student-centered approach to education, allowing students to engage actively in their learning process. By emphasizing learning outcomes and providing opportunities for individualized learning, the credit-unit system enables students to develop a deeper understanding of dental concepts, enhance their practical skills, and cultivate the necessary competencies for clinical practice.

The qualitative data further revealed that the creditunit system promotes a sense of ownership and responsibility among students, fostering their motivation and engagement in their education. Students appreciated the freedom to pursue their areas of interest and develop a comprehensive understanding of dental practice. They also reported that the credit-unit system facilitated a smoother transition from education to professional practice, as they felt well-prepared and confident in their abilities.

While the findings of this study support the benefits of the credit-unit system, it is important to acknowledge potential challenges and areas for improvement. Some students expressed concerns about the potential for increased workload and the need for effective time management. Additionally, faculty support, guidance, and adequate resources are crucial for ensuring the success of the credit-unit system and maximizing students' preparedness.

CONCLUSION

In conclusion, this study demonstrates that the creditunit system has a positive impact on the preparation of dental students. The system's student-centered approach, flexibility, and focus on learning outcomes contribute to students' perceived preparedness in theoretical knowledge, practical skills, and clinical competence. The credit-unit system empowers students, promotes critical thinking and self-directed learning, and facilitates a smoother transition to professional practice.

These findings highlight the importance of considering educational approaches such as the credit-unit system in dental curricula. Implementing the credit-unit system can enhance dental education by promoting student engagement, individualized learning, and the development of essential competencies. It is recommended that dental institutions and curriculum designers explore the potential benefits and challenges of the credit-unit system and adapt it to their specific contexts.



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Future research should further investigate the longterm outcomes and effectiveness of the credit-unit system in dental education, including factors such as student performance, satisfaction, and career success. Continued evaluation and refinement of the credit-unit system can contribute to the ongoing improvement and innovation of dental education, ultimately benefiting dental students and the dental profession as a whole.

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