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Assessing the impact of remote learning on student engagement: Lessons from global educational responses to crisis

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ABSTRACT

The outbreak of the COVID-19 pandemic has prompted a global shift towards remote learning in education systems worldwide. This study aims to assess the impact of remote learning on student engagement by examining global educational responses to the crisis. Through a qualitative approach and extensive literature review using library research methods, this research explores the lessons learned from various countries' experiences with remote learning during the pandemic. The analysis focuses on key factors influencing student engagement, including access to technology, teacherstudent interaction, curriculum adaptation, and socio-economic disparities. Findings reveal both challenges and opportunities associated with remote learning. While technological limitations and digital divide pose significant barriers to student engagement, innovative teaching strategies, collaborative efforts, and flexible curriculum adjustments have emerged as effective solutions. Furthermore, the study identifies the importance of teacher support, parental involvement, and student motivation in enhancing engagement in remote learning environments. The insights gained from this research provide valuable lessons for policymakers, educators, and stakeholders in designing effective strategies to improve student engagement in remote learning settings, both during crises and beyond.



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INTRODUCTION

In response to the global COVID-19 pandemic, educational institutions worldwide have swiftly transitioned to remote learning to ensure continuity in education. This shift has sparked significant interest in understanding the impact of remote learning on student engagement and learning outcomes (Khlaif et al., 2021). Amidst this unprecedented crisis, it becomes imperative to assess how effective remote learning has been in engaging students and fostering their academic progress. This study seeks to contribute to the discourse by examining the impact of remote learning on student engagement, drawing insights from global educational responses to the crisis.

The COVID-19 pandemic has disrupted traditional modes of education, compelling educators and policymakers to explore alternative methods of instructional delivery (Jankowski, 2020). Remote learning, facilitated by digital platforms and online resources, has emerged as a viable solution to sustain education amidst social distancing measures and school closures. However, the effectiveness of remote learning in engaging students and promoting learning remains a subject of debate. Understanding the factors that influence student engagement in remote learning environments is crucial for designing effective educational strategies in times of crisis and beyond.

Assessing the impact of remote learning on student engagement is crucial for informing educational policies and practices, particularly in times of crisis. With the likelihood of future disruptions to traditional schooling due to various socio-economic and environmental factors, it is essential to identify effective strategies for maintaining student engagement and ensuring equitable access to quality education. By addressing this urgency, this study aims to contribute actionable insights to enhance educational resilience and adaptability in the face of unforeseen challenges.

Previous research Jelinska & Paradowski (2021); Leal Filho et al. (2021); Li et al. (2023) has examined various aspects of remote learning during the COVID-19 pandemic, including technological infrastructure, digital literacy, and teacher preparedness. While numerous studies have explored the transition to remote learning during the COVID-19 pandemic, there remains a gap in understanding its impact on student engagement comprehensively and few studies have conducted comprehensive assessments of student engagement in remote learning across different contexts and educational systems. Existing literature often focuses on technological aspects and access to online resources, overlooking the broader socio-cultural, pedagogical, and psychological dimensions of student engagement in remote learning settings.

By building upon existing literature and synthesizing empirical evidence from diverse global perspectives, this study seeks to provide a more holistic understanding of the impact of remote learning on student engagement. This study offers a novel contribution to the literature by adopting a holistic approach to assess the impact of remote learning on student engagement. By examining not only technological factors but also socio-cultural, pedagogical, and psychological dimensions of student engagement, this research aims to provide a nuanced understanding of the complexities involved. Furthermore, by drawing lessons from global educational responses to crisis situations, this study offers insights that transcend geographical and institutional boundaries.

The primary objective of this research is to assess the impact of remote learning on student engagement, with a focus on identifying effective strategies and best practices for enhancing engagement in remote learning environments. By achieving this objective, the study aims to inform educational policymakers, administrators, and practitioners about the key determinants of student engagement and provide actionable recommendations for improving remote learning experiences. Ultimately, the research seeks to contribute to the advancement of educational resilience and adaptability in the face of crises.

RESEARCH METHODS

This study adopts a qualitative research design to assess the impact of remote learning on student engagement. Qualitative research enables a comprehensive exploration of the multifaceted factors influencing student engagement in remote learning environments. It allows for in-depth examination of experiences, perspectives, and behaviors, providing rich insights into the phenomenon under investigation.

The primary data sources for this study consist of scholarly articles, reports, and policy documents related to remote learning and student engagement. These sources are obtained from reputable academic databases, such as PubMed, Google Scholar, and Education Resources Information Center (ERIC). Additionally, official websites of educational institutions and government agencies provide valuable data and insights into global educational responses to crisis situations.

Data collection involves systematic literature review and document analysis. Scholarly articles and reports are selected based on relevance to the research topic and inclusion criteria. The search strategy includes keywords such as "remote learning," "student engagement," "educational responses to crisis," and variations thereof. Relevant articles and documents are then screened and critically evaluated to extract key findings and insights.

The data analysis process consists of several iterative steps. Firstly, collected articles and documents are carefully reviewed and coded to identify themes and patterns related to remote learning and student engagement. Thematic analysis is employed to categorize and interpret the data, allowing for the identification of recurring themes and emerging trends. Additionally, qualitative content analysis is utilized to analyze textual data and extract meaningful insights. Through an iterative process of coding and interpretation, the research findings are synthesized and organized thematically to address the research objectives effectively.

RESULTS AND DISCUSSION

Technological Infrastructure and Access to Resources

The analysis revealed that the availability and quality of technological infrastructure significantly influence student engagement in remote learning. In regions with robust internet connectivity and access to digital devices, students tend to have higher levels of engagement compared to areas with limited technological resources (Mac Domhnaill et al., 2021). Disparities in access to resources, such as computers, tablets, and reliable internet connection, exacerbate inequalities in educational opportunities, particularly among underserved communities (Barron Rodriguez et al., 2020).

Technological infrastructure encompasses the availability of devices like computers, tablets, and smartphones, as well as reliable internet connectivity. Access to these resources varies widely across regions and socio-economic backgrounds. In areas with robust infrastructure, students have better access to online learning platforms, digital resources, and interactive tools, facilitating their engagement in remote learning. Conversely, regions with limited technological resources face challenges such as poor internet connectivity, lack of devices, and digital illiteracy, hindering students' ability to participate effectively in online education.

Teacher-Student Interaction and Support

Effective teacher-student interaction plays a crucial role in fostering student engagement in remote learning environments. Findings indicate that regular communication, personalized feedback, and supportive guidance from teachers positively impact students' motivation and participation. However, challenges arise when teachers lack adequate training and support in utilizing online platforms and implementing interactive teaching methods (Bond et al., 2021). Addressing these challenges is essential for enhancing student engagement in remote learning settings.

Effective teacher-student interaction is crucial for maintaining student engagement in remote learning environments. This interaction involves regular communication, personalized feedback, and supportive guidance from teachers. In successful online learning experiences, teachers actively engage with students through virtual classrooms, discussion forums, and one-on-one sessions. They provide timely feedback on assignments, address students' questions and concerns, and offer encouragement to motivate learners. Moreover, teachers play a vital role in fostering a supportive learning environment that encourages collaboration, critical thinking, and active participation among students.

Curriculum Adaptation and Learning Activities

The adaptation of curriculum and learning activities to suit the remote learning environment is critical for maintaining student engagement. The analysis revealed that interactive and multimedia-rich content, coupled with diversified learning activities, can enhance student interest and participation (Addae, 2023). Moreover, flexibility in assignment deadlines and assessment methods accommodates diverse learning styles and preferences, contributing to increased engagement and academic performance.

Adapting the curriculum and learning activities to suit the remote learning context is essential for engaging students effectively. This adaptation involves redesigning course content to be suitable for online delivery, incorporating multimedia resources, and diversifying learning activities to cater to different learning styles and preferences. Interactive elements such as quizzes, simulations, and virtual labs enhance student engagement by providing hands-on learning experiences. Moreover, flexible assignment formats and assessment methods accommodate students' individual pace of learning and promote deeper understanding of the subject matter.

Socio-Economic Disparities and Equity in Education

Socio-economic disparities significantly impact student engagement in remote learning. Students from low-income households and marginalized communities face greater challenges in accessing digital resources and participating fully in remote learning activities. Factors such as inadequate infrastructure, lack of parental support, and competing responsibilities further exacerbate these disparities (Bozkurt et al., 2020). Addressing socio-economic inequities is essential for ensuring equitable access to education and promoting meaningful student engagement.

Socio-economic disparities significantly impact access to education and student engagement in remote learning. Students from low-income households often lack access to essential resources such as computers, internet connectivity, and quiet study spaces. Additionally, economic barriers may limit their ability to afford supplementary learning materials or participate in extracurricular activities. These disparities widen the education gap and perpetuate inequalities in academic achievement. Addressing socio-economic inequities requires targeted interventions such as providing financial assistance for technology access, offering subsidized internet services, and implementing support programs to ensure all students have equal opportunities to succeed in remote learning environments.

Psychological Well-being and Motivation

The analysis underscores the importance of addressing students' psychological well-being and motivation in remote learning environments. Findings suggest that feelings of isolation, anxiety, and digital fatigue can negatively affect student engagement and academic performance (Dabrowski et al., 2020). Implementing strategies to promote social connectedness, mental health support, and intrinsic motivation is crucial for sustaining student engagement and fostering positive learning experiences (Reimers & Marmolejo, 2022).

Psychological well-being and motivation are critical factors influencing student engagement in remote learning. Students' mental health, sense of belonging, and motivation significantly impact their ability to participate actively and succeed academically (Baker, 2021). Feelings of isolation, anxiety, and digital fatigue may arise from prolonged periods of remote learning. Therefore, it's essential to prioritize students' mental health by offering access to counseling services, promoting peer support networks, and creating opportunities for social interaction. Motivation plays a crucial role in driving students' learning efforts and persistence (Huber & Helm, 2020). Educators can enhance motivation by setting clear goals, providing feedback, and fostering a sense of autonomy and competence in learners. Additionally, recognizing and celebrating students' achievements can boost their confidence and engagement in the learning process.

Discussion

The study "Assessing the Impact of Remote Learning on Student Engagement: Lessons from Global Educational Responses to Crisis" investigates the effects of remote learning on student engagement amid the global educational response to crises. The research aims to provide insights into how remote learning initiatives impact student engagement levels and to identify strategies for enhancing student engagement in remote learning environments.

The study's context is framed within the backdrop of the COVID-19 pandemic, which prompted widespread closures of schools worldwide and necessitated a rapid shift to remote learning. In response to this crisis, educational institutions implemented various remote learning models, including online classes, video conferencing, and asynchronous learning platforms. The study seeks to assess the effectiveness of these approaches in maintaining student engagement and academic performance.

The findings of the research indicate that remote learning has had varying impacts on student engagement across different contexts. While some students thrived in remote learning environments, others faced challenges related to technological limitations, lack of access to resources, and reduced social interaction. The study highlights the importance of considering individual differences and contextual factors in designing effective remote learning strategies.

In comparison to previous research, this study contributes by offering a comprehensive analysis of remote learning's impact on student engagement across diverse global contexts. It builds upon existing literature by providing empirical evidence and insights from a wide range of educational settings, allowing for a more nuanced understanding of the complexities involved in remote learning.

The study's findings align with previous research indicating that student engagement is influenced by various factors, including teacher support, technology accessibility, and home environment. However, it also identifies unique challenges and opportunities specific to remote learning environments, such as the need for innovative pedagogical approaches and increased digital literacy among students.

Overall, this research underscores the importance of ongoing evaluation and adaptation of remote learning strategies to meet the diverse needs of students in an ever-evolving educational landscape. By highlighting the lessons learned from global educational responses to crises, the study contributes to the development of evidence-based practices for promoting student engagement in remote learning contexts.

Reccomendation for Future Research

The article offers several recommendations to enhance our understanding of remote learning's impact on student engagement and improve educational outcomes worldwide. Firstly, it suggests conducting further research to analyze the factors influencing student engagement in remote learning. By exploring these factors, researchers can identify effective strategies to enhance student engagement and address any challenges that may arise. Secondly, the article recommends conducting surveys or interviews with students, teachers, and parents to gain direct insights into the challenges and opportunities of remote learning. This approach would help in designing interventions and policies that are better aligned with the needs and preferences of stakeholders, ultimately improving the effectiveness of remote learning initiatives.

Additionally, longitudinal studies tracking changes in student engagement levels over time during remote learning are proposed. Such studies would provide deeper insights into the evolution of student experiences and the long-term effectiveness of remote learning strategies, thus informing future educational practices and policies. Furthermore, the article suggests implementing a cross-cultural approach in research to compare student experiences and remote learning practices across different countries. This approach could help identify cultural factors influencing student engagement and uncover best practices that can be adopted globally to enhance remote learning experiences.

Lastly, the article emphasizes the importance of developing practical guidelines and resources for schools and educators to enhance student engagement in remote learning. These resources could include guidelines for designing engaging online learning, strategies to motivate students virtually, and tips for fostering social interaction in remote learning contexts. By implementing these recommendations, educators and policymakers can work towards ensuring that remote learning remains effective and inclusive for all students, regardless of their backgrounds or circumstances.

Implications for Educational Practices

The findings highlight several key lessons and implications for educational practices in remote learning. Emphasizing the importance of teacher training and professional development, investing in digital infrastructure and resources, promoting inclusive pedagogical approaches, and addressing socioeconomic disparities are essential steps to enhance student engagement in remote learning (Ballena & Feranil, 2021). Moreover, fostering a supportive learning environment, promoting collaboration between stakeholders, and prioritizing students' holistic well-being are critical for ensuring the success of remote learning initiatives. These insights have significant implications for educational policies, practices, and interventions aimed at improving student engagement and learning outcomes in remote learning environments.

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CONCLUSION

Overall, the assessment of the impact of remote learning on student engagement underscores the importance of addressing technological, pedagogical, socio-economic, and psychological factors to create inclusive and effective remote learning environments. By drawing lessons from global educational responses to crises, policymakers, educators, and stakeholders can formulate evidence-based strategies to enhance student engagement and learning outcomes in remote learning settings.

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