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Integrating Teacher Training for Educational Resilience: A Viable Approach to Covid-19 and Future Outbreaks

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ABSTRACT

Received date: July 24, 2023 **Accepted date**: October 02, 2023 The present study explores the aftermath of the COVID-19 pandemic, with an emphasis on Bangladesh's educational system. It digs into the difficulties that educators confront in crisis management and the shift to e-Learning. This study attempts to provide solutions for improving teacher readiness in crisis management and e-Learning by examining lessons learned from the epidemic. It focuses on how instructors might be better prepared for crisis management and the incorporation of e-Learning. The report offers significant ideas to improve teacher preparation by drawing insights from the problems faced during the pandemic. This research proposes concrete strategies to strengthen education's resilience in the face of similar future problems through a focused investigation of the Bangladesh setting. This study's research methodology incorporates both qualitative and quantitative techniques. Interviews with educators, administrators, and policymakers are used to acquire a full picture of their experiences in the post-COVID-19 era. This method provides more detailed insights into the difficulties experienced and tactics employed. Quantitative data is acquired through surveys delivered to a representative sample of teachers in various locations in Bangladesh. This quantitative data provides statistical insights into the magnitude of the issues encountered as well as the effectiveness of various crisis management and e-Learning tactics. The acquired data is then examined qualitatively using theme analysis and quantitatively using statistical analysis. This study intends to provide a holistic view of the lessons learned and effective strategies for enhancing teacher readiness for crisis management and e-Learning in the specific context of Bangladesh by triangulating findings from both approaches.

Keywords: Adaptability, Covid-19, Education, Teacher Training, Teaching technology

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1. INTRODUCTION

In an era defined by the unpredictability of pandemics, integrating teacher training for educational resilience emerges as a research frontier with the potential to redefine the educational landscape (Shohel et al., 2022). Educational institutions, from bustling university campuses to the echoing halls of elementary schools, had to confront an

unforeseen crisis that led to the closure of physical classrooms and the abrupt transition to online learning (Roy et al., 2021). As educators, students, and parents grappled with this sudden shift, the spotlight shone on the teaching profession in a way never seen (Moorhouse, 2020). The resiliency, adaptability, and dedication of teachers became both a source of inspiration and a focal point for addressing the challenges posed by the pandemic (Westphal et al.,

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2022). The COVID-19 crisis exposed vulnerabilities within our education systems in Bangladesh, demanding swift adaptation and innovative solutions (Shrestha et al., 2021). As we delve into this research, several key points come to light (Kalloo et al., 2020).

Immediate Crisis Mitigation: This study delves into how teacher training can function as a critical tool for immediate crisis management, ensuring the continuity of education even in the face of unforeseen disruptions like COVID-19 on Bangladeshi Higher Education institutes (Khan & Abdou, 2021).

Long-term Resilience: Beyond crisis response, the research explores the long-term benefits of integrating teacher training, highlighting its role in fortifying education systems against future outbreaks and other challenges (Parvej et al., 2021).

Innovation and Adaptation: Through case studies and empirical evidence, we uncover how teacher training can foster innovation within the education sector, enabling educators to adapt rapidly to evolving circumstances (Ellis et al., 2020).

Sustainable Educational Growth: By equipping teachers with the skills to navigate crises effectively, this research sheds light on how education can not only recover but thrive in the aftermath of disruptions (Petrila et al., 2022).

This paper embarks on a journey to explore the profound impact of the COVID-19 pandemic on education, specifically focusing on the role of teacher training in fostering educational resilience. We seek to unravel the multifaceted dimensions of teacher training in a time marked by uncertainties and disruptions, with a particular emphasis on its relevance not only during the pandemic but also in preparing the educational sector for potential future outbreaks and evolving paradigms of learning.

The first few months of 2020 witnessed a domino effect of lockdowns and closures, leading to an exodus from physical classrooms. In the wake of this abrupt transformation, teachers worldwide found themselves at the frontline of an educational revolution (Whalen, 2020). They were thrust into the daunting task of adapting their teaching methods to virtual platforms, grappling with issues related to digital literacy, technological infrastructure, and a sense of uncharted territory. For educators who had long thrived in the traditional classroom setting, this abrupt transition was akin to learning a new language on the fly (Klusmann et al., 2022).

The challenges posed by the sudden shift to remote learning were manifold. Educators had to swiftly acquire new skills and competencies to engage students through screens and ensure that the quality of education did not falter (Ibna et al., 2022).

The integration of digital tools, the development of online content, and the ability to maintain student-teacher interactions in a virtual space became pivotal aspects of this adaptation. Thus, the pandemic highlighted the need for effective teacher training programs that could equip educators with the skills necessary to thrive in this new educational landscape (Khan & Abdou, 2021).

The term 'resilience' took on a profound significance during the pandemic. In the context of education, it referred not only to the ability of institutions and systems to withstand shocks but also to the fortitude of individual teachers who were the cornerstones of the educational edifice. Teachers displayed remarkable resilience by embracing the challenges posed by the pandemic, despite the turbulence and uncertainty that enveloped their lives (Assunção & Gago, 2020).

Teacher resilience encompassed the ability to remain adaptable, innovative, and compassionate in the face of adversity. It involved the capacity to navigate the complexities of remote teaching, assuage the anxieties of students and parents, and provide a sense of continuity in the lives of learners. For educators, resilience became synonymous with dedication, as they tirelessly sought ways to ensure that education remained accessible and meaningful in a rapidly evolving environment (Ferdig et al., 2020).

However, this resilience did not emerge in a vacuum. It was, to a significant extent, the result of teacher training programs that equipped educators with the skills, knowledge, and mindset needed to surmount the challenges presented by the pandemic (Donitsa-Schmidt & Ramot, 2020). Effective training empowered teachers to confront uncertainties with confidence, to adapt to new teaching modalities, and to continue inspiring their students during trying times (Ellis et al., 2020).

This paper embarks on a journey to explore the profound impact of the COVID-19 pandemic on education, specifically focusing on the role of teacher training in fostering educational resilience. We seek to unravel the multifaceted dimensions of teacher training in a time marked by uncertainties and disruptions, with a particular emphasis on its relevance not only during the pandemic but also in preparing the educational sector for potential future outbreaks and evolving paradigms of learning.

2. MATERIALS AND METHODS

In this study, we aimed to gain insight into teachers' experiences with teacher training during the COVID-19 pandemic and its impact on educational resilience. To achieve this, we employed a mixed-methods approach that combined a questionnaire-based survey with qualitative analysis of open-ended responses. This methodology allowed us to gather quantitative data to identify trends and patterns while also delving deeper into the qualitative aspects of teachers' stories and experiences.

2.1 Participants

The participants in this study consisted of a diverse group of teachers from various educational settings, including primary and secondary schools, higher education institutions, and Universities. To ensure a well-rounded representation, we targeted teachers from different geographic locations, including urban and rural areas. The sample was drawn from both public and private educational

institutions to encompass a wide spectrum of teaching experiences.

2.2 Data Collection

Questionnaire Survey: The primary data collection method involved a structured questionnaire survey distributed electronically through google forms. The questionnaire consisted of a series of closed-ended questions designed to collect quantitative data regarding various aspects of teacher training during the pandemic. These questions covered topics such as:

The nature of the educational institution (public or private).

Types of teacher training required for facing crisis periods.

Use of new innovative methods.

Perceived effectiveness of the training.

Challenges faced during the training.

The impact of training on teaching practices and educational resilience.

To ensure the clarity and comprehensibility of the questionnaire, it underwent a pilot testing phase with a small group of teachers. Based on their feedback, minor adjustments were made to refine the survey instrument.

2.3 Qualitative Open-Ended Questions

Alongside the closed-ended questions, the questionnaire also included open-ended questions. These questions were designed to elicit teachers' narratives and qualitative insights regarding their training experiences during the pandemic. Participants were encouraged to share their personal stories, challenges, and strategies they used to adapt to the new teaching paradigm.

3. RESULTS AND DISCUSSION

Our questionnaire got 30 responses. In answer to whether the education system of the educational institutions been able to move forward from the proper position during Covid-19, in Fig. 1, 56% respondents said it did not. This indicates the unpreparedness of our education system in times of emergency. In another question displayed in Fig. 2, "Is there a need to have a separate training module for crisis management?" 83 % of the responds agreed.

Another question we asked our respondents "Can elearning play a role in dealing with such crises?" 90% of our respondents said yes. It also involved some insights like improving teaching module and how to keep them updated, data is displayed in Fig. 3.

The overwhelmingly positive agreement, with 68% of respondents highly agreeing and an additional 28% agreeing, underscores the critical importance of continuing teacher training programs. This broad consensus highlights that such programs are not only vital but also integral to addressing the ongoing education crisis and ensuring the resilience of the educational system in the face of future challenges data is displayed in Fig. 4.

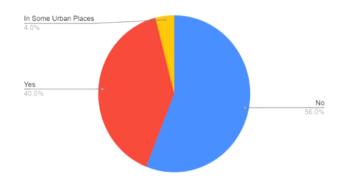


Fig. 1 Has the education system of the educational institutions been able to move forward from the proper position during Covid-19?

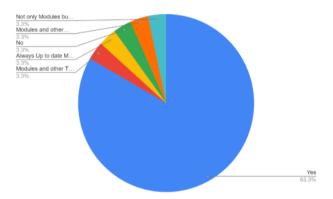


Fig. 2 Is there a need to have a separate training module for crisis management?

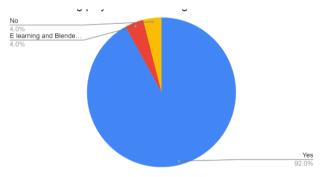


Fig. 3 Role of E-learning.

The substantial agreement, with 52% of respondents highly agreeing and an additional 40% agreeing, indicates strong support for making e-learning training mandatory for teachers. This consensus emphasizes the urgency of incorporating e-learning skills into teacher training programs to effectively address the education crisis, reflecting the growing significance of digital competence in modern education (Fig.5).

The responses indicate a diverse range of opinions regarding the usefulness of current teacher training in crisis management. While a significant proportion (60%) either disagreed or highly disagreed, the sizeable minority (52%) who highly agreed underscores the potential value of

existing training programs, suggesting that enhancements and adaptations may be necessary to address the concerns of those who expressed doubts (Fig.6).

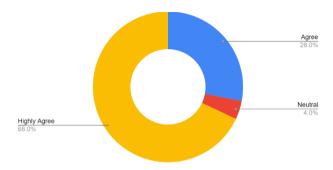


Fig. 4 Teacher training in education crisis.

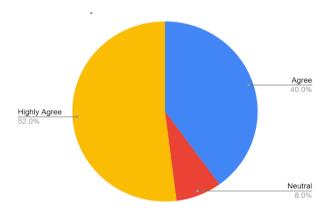


Fig. 5 E-Learning in education crisis.

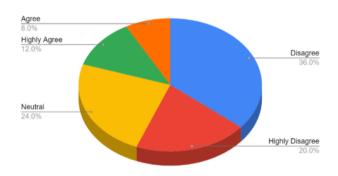


Fig. 6 Current teacher training is useful in any crisis.

The responses reveal a moderate level of confidence among teachers in their capability to handle disaster situations, with a combined 56% agreeing or highly agreeing. However, it's notable that a significant minority (32%) expressed doubt or strong disagreement, indicating the need for bolstering teacher training and preparedness to ensure that educators feel adequately competent to navigate crisis scenarios effectively (Fig.7).

In Fig. 8, the diverse responses reflect a multifaceted view of the need for coordination between education policy and teacher training. While 28% emphasized the importance

of preparing teachers for crises, an equal percentage recognized the significance of ensuring the effectiveness of e-learning and blending teaching methods. This suggests that any coordinated effort should encompass a comprehensive approach, balancing crisis management, technological proficiency, and the motivation of various stakeholders, underscoring the multifaceted nature of modern education challenges.

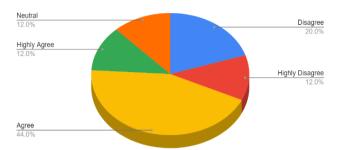


Fig. 7 As a teacher you are competent or capable enough to deal with any disaster situation.

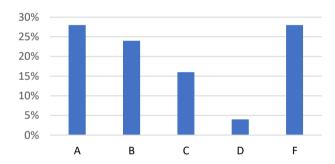


Fig. 8 Policy regarding teacher training.

- A. Teachers should be prepared for any crisis.
- B. Crisis management should be prioritized in the training program.
- C. Importing teacher educators through excellence training.
- D. Student parents and public should also take up the motivational program.
- E. Effectiveness of e-learning and blending teaching and learning must be ensured.

When the respondents were asked about the importance of the teaching learning process the data underscores the evolving priorities in the teaching and learning process displayed in Fig. 9. The substantial 44% who prioritize adapting to student needs and efficient resource management reflects a growing recognition of individualized education and efficient allocation of resources, key components of a responsive and effective education system. Furthermore, the 20% emphasizing the use of technology for assessment and feedback highlights the role of digital tools in providing tailored support to students, an aspect that has gained prominence in modern pedagogy. Additionally, the 16% endorsing collaboration and excelling in ICT integration signifies the importance of educators working collectively to harness technology for enhanced teaching practices, aligning

with the increasingly collaborative nature of education. 12% of the people who stress community engagement recognize that the involvement of parents, local communities, and other stakeholders is integral to a holistic educational experience, emphasizing the importance of a supportive ecosystem.

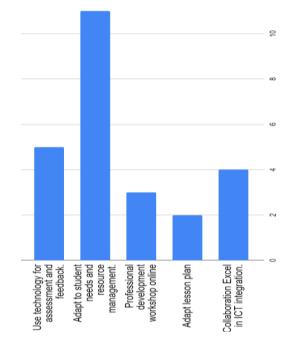


Fig. 9 Teaching learning process requirement.

Finally, the 8% focused on adapting lesson plans indicates the necessity for educators to remain flexible in their teaching methods, acknowledging that the ability to tailor lessons is an essential aspect of addressing the diverse needs of students and evolving educational paradigms. Together, these responses reflect the multifaceted nature of modern teaching and learning, emphasizing adaptability, technology integration, collaboration, community involvement, and lesson plan customization as key priorities for education stakeholders.

5. CONCLUSION

The data points illustrate the complex landscape of modern teaching and learning, emphasizing a shift towards adaptability, technology integration, and collaboration in education. The primary importance placed on adapting to student needs and efficient resource management (44%) underscores the growing recognition of individualized education and resource allocation efficiency. The data highlights the need for educators to embrace innovation and adaptability to effectively address the evolving needs of students in a technology-driven and interconnected world.

Bangladesh, like all other countries, encountered significant challenges during the COVID-19 pandemic in the education sector. However, the experiences and lessons from this period offer valuable prospects for reshaping

teacher training programs in the country. The COVID-19 pandemic has profoundly impacted education, reshaping the way teachers teach, students learn, and educational institution's function. As the pandemic unfolded, the education sector faced unprecedented challenges, from the abrupt shift to remote learning to the need to ensure continuity in the face of disruption. In this dynamic and evolving landscape, teachers stood at the forefront, demonstrating unparalleled resilience and adaptability in the face of adversity.

This paper has sought to delve into the transformative role of teacher training in fostering educational resilience during the COVID-19 pandemic. The evidence presented highlights the importance of effective teacher training programs in equipping educators with the competencies and mindsets needed to thrive in a rapidly changing educational environment. The resilience displayed by teachers is a testament to the impact of training that goes beyond pedagogical techniques to instill adaptability, innovation, and empathy.

In conclusion, Bangladesh has the potential to restructure teacher training programs to meet the demands of future crises, building on the experiences of the COVID-19 pandemic. By focusing on digital competence, adaptability, resilience, community engagement, and preparedness, Bangladesh can create a robust and adaptable education system that can withstand challenges and continue to provide quality education even in the face of uncertainty. The prospects are promising, and the nation can lead the way in reshaping teacher training for a more resilient educational future.

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