

Bridging the Gap: Reducing Teacher Stress through inclusive Pedagogical Strategies in Diverse Classrooms

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Abstract

The rapid advancement of inclusive education has transformed the educational landscape, requiring teachers to accommodate a diverse array of learner needs within a single classroom environment. While this shift promotes equity and access for all students, it also places significant emotional, cognitive, and professional demands on educators. This study examines the impact of specific pedagogical strategies on reducing occupational stress among teachers working in inclusive settings. Using a mixed-methods design, the research integrates quantitative data from the **Teacher Stress Inventory (TSI)** with qualitative insights obtained through semi-structured interviews. Advanced statistical analyses, including correlation assessments, K-means clustering, and Welch's t-tests, were conducted to identify stress patterns and explore their relationship with teaching practices and demographic variables. The findings underscore that educators employing inclusive strategies, such as differentiated instruction, collaborative teaching

approaches, and curriculum flexibility, experience significantly lower stress levels compared to their peers who rely on traditional methods. Moreover, teachers who benefit from strong emotional support networks and institutional recognition report greater professional resilience and job satisfaction. The qualitative component further highlighted the emotional labour and internal coping mechanisms that teachers develop in response to inclusion-related challenges. Collectively, the results affirm that addressing teacher well-being is not merely a complementary initiative but a foundational requirement for effective and sustainable inclusive education. Without systemic supports that prioritise the mental health and professional agency of teachers, the long-term goals of educational equity and inclusivity may be compromised. This study provides policymakers, school leaders, and teacher training institutions with actionable insights for creating more supportive and equitable teaching environments.

Keywords

Inclusive Education, Teacher Stress, Differentiated Instruction, Emotional Support, Pedagogical Strategies, Teacher Resilience, Mixed-Methods Research, Educational Equity

Introduction

In the contemporary educational landscape, the pursuit of inclusive education has become both a moral imperative and a policy priority. Schools across the globe are tasked with accommodating students from varied linguistic, cultural, cognitive, and socio-emotional backgrounds. While this

vision promises educational equity and societal integration, it also redefines the responsibilities and expectations placed upon teachers. No longer confined to the role of content deliverers, educators in inclusive settings must simultaneously serve as curriculum designers, behavioural coaches, emotional supporters, and cultural mediators.

Consider a classroom in a government school in Delhi's North East district, where a teacher instructs 50 students, including learners with autism, ADHD, language barriers, and socio-economic disadvantages. The teacher must juggle lesson planning, individualised instruction, differentiated assessment, parent communication, and behavioural management—all while ensuring that no child feels left behind. In another scenario, a secondary school teacher in a South Delhi government school is required to implement a new inclusive curriculum without additional training or classroom aides. Faced with administrative pressure and increasing student needs, the teacher begins to show signs of burnout, reduced instructional engagement, and emotional withdrawal.

These scenarios are far from exceptional; they represent a growing reality for educators in the Delhi NCR region. Despite their dedication, many teachers lack the institutional support, resources, and professional development necessary to thrive in inclusive environments. A study conducted by Bhatnagar and Das (2014) revealed that 95% of regular school teachers in Delhi had not received training in special education, highlighting a significant gap in their preparedness for inclusive teaching. Furthermore, the average teacher-student ratio in Delhi government schools stands at 1:40 at the primary level and 1:48 at the secondary level, posing significant challenges for implementing individualised attention required for inclusive education.

The result is a persistent rise in occupational stress, emotional exhaustion, and professional dissatisfaction—factors that not only impair teacher performance but also threaten the success of inclusive education initiatives. This study is driven by the urgent need to address this gap. It examines how specific pedagogical strategies—such as differentiated instruction, collaborative learning models, and flexible classroom management techniques—can alleviate teacher stress and promote the sustainability of inclusive practices. By positioning teacher well-being as a foundational pillar of inclusion, the research underscores that the health of any inclusive system ultimately depends on the health of its educators.

Methodology

Research Design

This study adopted a convergent mixed-methods research design, integrating both quantitative and qualitative data to offer a comprehensive understanding of teacher stress within inclusive classroom settings. The convergence of numerical measurement with rich narrative insight enabled the triangulation of findings, thereby enhancing the validity and depth of the analysis.

Quantitative Component

The quantitative phase of the research utilised the **Teacher Stress Inventory (TSI)** as a standardised instrument for assessing multiple dimensions of teacher stress, including workload, emotional fatigue, time management, professional distress, and student behaviour management. A total of **100 teachers**, comprising both public and private school educators actively engaged in inclusive teaching across the Delhi NCR region, participated in this phase.

To analyse the quantitative data, several statistical tools were employed:

A. **Welch's t-test** was used to compare stress levels between two groups of educators:

those who employed inclusive pedagogical strategies and those who relied on traditional teaching approaches. This test was chosen due to its robustness in handling unequal variances and sample sizes.

B. K-means clustering analysis was conducted to segment teachers into distinct stress profile groups based on their TSI scores. This unsupervised machine learning method helped identify latent patterns in the manifestation of stress and the use of strategies.

C. Pearson correlation analysis examined the relationship between stress dimensions and teacher demographics, particularly **age** and **years of professional experience**. This analysis provided insights into the correlation between career maturity and age, and stress resilience or vulnerability.

Qualitative Component

Complementing the quantitative data, **30 semi-structured interviews** were conducted with a purposive sub-sample of participants. These interviews explored the lived experiences of teachers, focusing on stress triggers, coping mechanisms, institutional support, and the perceived impact of inclusive strategies. Thematic analysis was employed to identify patterns and recurring motifs that highlighted the emotional labour and cognitive demands inherent in inclusive pedagogy.

By integrating these two streams of inquiry, the study not only quantified the prevalence of stress but also illuminated the nuanced contexts in which it unfolds. Thus, it offers a holistic and multidimensional perspective on teacher well-being in inclusive educational environments.

Results

This section presents the quantitative and qualitative findings of the study, offering insight into stress differentials among teachers based on pedagogical approaches, professional experience, and emotional context.

Quantitative Findings

1. Stress Level Comparison

Welch's t-test revealed a statistically significant difference in mean stress scores between teachers who employed inclusive strategies and those who did not. The average stress score for inclusive strategy users was **2.89**, significantly lower than **the 3.57** recorded among non-users ($p < 0.05$), indicating that inclusive pedagogical practices are correlated with reduced stress levels (ref. bar chart and data table titled Stress Score Comparison).

Stress Score Comparison

Group	Mean Stress Score
Inclusive Strategy Users	2.89
Non-Inclusive Strategy Users	3.57

Teacher Stress Cluster

Cluster	Key Features
High-Stress Generalists	High emotional fatigue, low institutional support
Low-Stress Inclusion Strategists	Low stress, strong peer support, flexible pedagogy

Correlation of Experience with Stress

Stress Factor	Correlation with Experience (r)	Significance (p-value)
Workload	-0.42	< 0.01
Emotional Exhaustion	-0.42	< 0.01

2. Cluster Analysis of Stress Profiles

K-means clustering categorised respondents into two dominant stress profiles:

A. **High-Stress Generalists:** Characterised by elevated levels of emotional exhaustion, administrative overload, and minimal peer collaboration.

B. **Low-Stress Inclusion Strategists:** Marked by lower stress, robust peer support, and adaptive instructional frameworks.

C. (Details provided in the Teacher Stress Clusters table.)

3. Correlation with Experience

Correlation analysis showed a **significant inverse relationship** between years of teaching experience and stress associated with workload and emotional exhaustion. Specifically, $r = -0.42$, $p < 0.01$ for both

dimensions, suggesting that more experienced teachers demonstrate greater resilience and stress management capacity.

(Refer to the Correlation of Experience with Stress table.)



Qualitative Insights

Three core themes emerged from interview narratives:

A. Emotional Labour as a Hidden Burden:

Many educators spoke of the invisible toll of maintaining emotional equilibrium while managing diverse classrooms without adequate support.

B. Leadership and Peer Support: Teachers reported that strong leadership and collegial collaboration substantially mitigated stress.

C. Instructional Adaptability: The ability to tailor lesson delivery to meet students' needs was described as a key coping and resilience strategy.

Discussion

The results of this study provide compelling evidence that inclusive pedagogical strategies are not only beneficial for diverse learners but also play a crucial role in mitigating occupational stress among educators, particularly when embedded within well-supported institutional frameworks. The statistically significant reduction in stress levels among teachers who utilise inclusive methods ($M = 2.89$ vs. $M = 3.57$, $p < 0.05$) affirms that differentiated instruction, collaborative teaching, and flexible curriculum design are not merely instructional tools but also vital mechanisms for preserving teacher well-being.

These findings take on heightened relevance in the context of government schools in the Delhi NCR region, where class sizes often exceed recommended limits and resource constraints are pervasive. Teachers frequently manage classrooms of 45–60 students, including those with special needs, without consistent access to special educators or aides. Under such circumstances, the emotional labour involved in inclusive teaching becomes both intense and invisible. The interviews conducted in this study revealed that many

Delhi NCR educators perceive their emotional investment—patience, empathy, and behavioural regulation—as unrecognised and undervalued, further compounding their stress.

Yet, the emergence of low-stress profiles among teachers who received structured professional development and peer support underscores the potential of systemic interventions. Schools in Noida and South Delhi that have piloted co-teaching models and provided dedicated planning time for inclusive instruction report not only improved student participation but also higher levels of teacher morale. This supports prior research emphasising the buffering effect of autonomy, leadership engagement, and peer collaboration in high-demand environments.

Moreover, the inverse correlation between experience and stress ($r = -0.42$, $p < 0.01$) suggests that while seasoned educators may develop adaptive coping mechanisms, novice teachers, who dominate the staff rosters in newer government schools, remain particularly vulnerable¹. Therefore, mentorship programs and structured induction in inclusive pedagogy could serve as protective factors.

In sum, the discussion reaffirms that inclusive education must not be viewed as a set of strategies applied to learners alone; it is a systemic model that thrives only when the ecosystem around teachers is robust, responsive, and emotionally intelligent.

Conclusion and Recommendations

Conclusion

This study has critically examined the intersection of inclusive pedagogy and teacher stress. It provides empirical evidence that pedagogical strategies, such as differentiated instruction, co-teaching, and curriculum flexibility, significantly reduce stress levels among educators in diverse classroom

settings. The use of both quantitative and qualitative methods revealed a comprehensive picture of teacher well-being, highlighting the importance of emotional labour, leadership support, and adaptability in sustaining inclusive practices.

The findings are particularly relevant in regions like Delhi NCR, where government school teachers often operate under constrained conditions, managing overcrowded classrooms, limited resources, and expanding administrative responsibilities. Teachers who integrated inclusive strategies and had access to emotional support and professional autonomy demonstrated lower stress levels and greater resilience. In contrast, those lacking institutional backing exhibited heightened burnout and disengagement, potentially compromising the success of inclusive education initiatives.

Ultimately, the research reinforces that teacher well-being is not ancillary but foundational to the sustainability of inclusive education. Without targeted interventions to support educators emotionally and professionally, the goals of equity and inclusion remain aspirational rather than achievable.

Recommendations

Based on the study's findings, the following recommendations are proposed for educational institutions, policymakers, and stakeholders in inclusive education:

1. Institutionalise Inclusive Pedagogy Training

Integrate regular, mandatory workshops on differentiated instruction, universal design for learning², and adaptive assessment into teacher professional development programs, especially for government school teachers in Delhi NCR.

2. Implement Co-Teaching and Peer Collaboration Models

Promote team teaching approaches and

structured collaboration time within the school day, allowing educators to share responsibilities and exchange effective strategies.

3. Reduce Administrative Burden
Streamline non-instructional tasks through digital tools or administrative assistants to allow teachers to focus on pedagogical responsibilities and emotional engagement with students.

4. Establish Teacher Mentorship Programs
Pair experienced teachers with early-career educators to guide them in managing inclusive classrooms and developing emotional resilience.

5. Recognise and Reward Inclusive Practices
Develop systems for recognising teachers' emotional labour and efforts in creating inclusive environments through formal incentives and leadership acknowledgement.

6. Invest in School-Based Counselling and Wellness Resources

Provide access to school counsellors and regular mental wellness check-ins to prevent burnout and support teacher morale.

7. Policy Alignment and Funding

Allocate state-level education budgets to support the recruitment of special educators, inclusion coordinators, and classroom aides, particularly in high-demand areas such as the Delhi NCR region.

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