

Education Inequality in the Post-Pandemic Era: Recovery Policies and Their Effectiveness

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ABSTRACT

The COVID-19 pandemic significantly disrupted education systems worldwide, exacerbating existing inequalities in access, participation, and learning outcomes. This paper examines the effectiveness of post-pandemic education recovery policies in addressing these inequalities and promoting equitable educational outcomes. It explores major policy interventions implemented across different countries, including equity-focused funding, curriculum and assessment reforms, digital infrastructure expansion, targeted support for vulnerable learners, teacher professional development, and governance reforms. The paper further analyzes the mechanisms through which these policies influence educational equity, emphasizing the importance of evidence-based implementation, monitoring, and contextual adaptation. Drawing on comparative country experiences, the study highlights both successful and less effective recovery strategies, identifying key factors that determine policy effectiveness. It argues that while many education systems have introduced short-term measures to mitigate learning loss, sustainable recovery requires long-term investments in resilience, inclusive governance, and continuous policy evaluation. The paper concludes that equitable education recovery depends not only on increased financial investment but also on targeted resource allocation, robust accountability systems, inclusive policy design, stakeholder engagement, and adaptive governance capable of responding to future crises. These findings provide valuable guidance for policymakers, educators, and development partners seeking to build more resilient, inclusive, and equitable education systems in the post-pandemic era.

Keywords: Education inequality, COVID-19 recovery policies, Educational equity, Post-pandemic education and Education policy implementation.

INTRODUCTION

The COVID-19 pandemic disrupted education worldwide and exacerbated pre-existing inequalities. Governments have launched recovery programs to mitigate the impact of the prolonged crisis [1]. Although the extent of recovery varies across countries, policy measures have been enacted to address the challenges identified. Analyzing the design and effectiveness of these measures can help ensure that recovery and resilience-building efforts genuinely improve equity, rather than inadvertently widening already sizeable gaps [2]. This study aims to deepen the understanding of policy design and implementation in the recovery phase following the pandemic. Specific focus is placed on country trajectories, highlighting both successes and failures, and identifying relevant lessons for other systems facing similar challenges [3]. Within this overarching objective, the following research questions guide the analysis: What recovery policies have been implemented in education systems? What were the conditions that shaped their design, implementation, and outcomes? What common lessons can be derived from these trajectories? [4]. The investigation covers education recovery measures that aim to redress the impacts of the pandemic on students' learning [1]. Policies addressing pre-existing or unrelated issues, such as curriculum reforms or system-wide changes, are thus excluded [2]. Given the widespread variability in educational responses and the ambition of the study, an initial selection of 38 countries has been established [3]. Additional research has been undertaken using publicly available data sources in 14 countries, with particular attention directed to policy measures introduced during the pandemic, indicators for measuring the impacts of the crisis, and the embedding of education within the broader recovery agenda [1, 2].

The Landscape of Education Inequality before and During the Pandemic

Education inequality was already pronounced before the pandemic and has intensified during the crisis. Governance disparities accentuated the divide across enrolled students, particularly between pre-primary and higher education [3]. The pandemic led to an unprecedented global disruption of education systems, resulting in restricted instruction time and higher drop-out rates. Students from disadvantaged backgrounds were disproportionately affected, underscoring the urgent need for tailored recovery efforts [4]. Data restrictions restrict comparability and preclude comprehensive measurement of access, opportunities, and attainment across countries [2]. Yet many nations exhibit significant within-country variation whereby select regions may provide informative insights for broader assessments [4]. Disparities in populations, governance frameworks, recovery trajectories, and vulnerability characteristics allow for substantive comparisons with applications beyond education. While exposure to remote learning varied considerably on the supply side, the demand side was shaped by prevalent socio-economic, demographic, and contextual factors. Children with limited access to private tuition, digital tools, and learning resources encountered substantial hindrances [2].

Policy Responses in the Post-Pandemic Period

In the immediate aftermath of pandemic disruptions, education systems around the world began implementing a range of policies to support recovery [3]. These interventions addressed several areas simultaneously: funding to restore depleted resources, adjustments to curriculum and assessment to focus on priorities, improvement of digital infrastructure to expand access, social support both inside and outside school to ensure students' basic needs were met, and governance measures to enhance coordination and community engagement [4]. Some of these policies were short-term or one-off initiatives aimed at remedying immediate and urgent setbacks, while others targeted deeper and longer-standing issues for which the crisis presented an opportunity [5]. Policies were also organised according to the scope of their intended effects. Some were designed to bring about immediate changes in financing, teaching and learning activities, or service provision, whereas others sought to stimulate changes in subsequent gains or outcomes [1]. At a broad level, a number of policies at national, subnational, and local scales encompass considerable variation within and across countries. Gaps remain in the equitable distribution of time, finance, resources, and opportunities between different students and learners [3]. Education authorities face genuine questions about how far and in what ways to resume normal operations after an extraordinary period of disruption and adaptation. Collectively, the range, emphasis, and timing of recovery policies underway provide rich and timely opportunities to examine effects on inequality during the pandemic and beyond. Examination of country policy measures also presents opportunities to inform further action [4].

Mechanisms of policy effectiveness and measurement

Policies are hypothesized to affect outcome indicators through one or more causal pathways. The proposed theory of change suggests that education recovery policies implemented following the COVID-19 pandemic affect post-pandemic education inequality through changes in funding and resource allocation, directly influencing learning gains, equity gaps, and overall education attainment [1]. Funding and resource inputs are proposed to affect learning gains through multiple mediating channels, including home learning environment, school readiness, instruction quality, and exposure to technology [3]. Outcome indicators can be assessed through equity gap measures, such as enrolment and completion rates, progression rates between school and post-school education, test scores in lower secondary education, upper secondary graduation rates, and long-term outcomes reported in the Programme for International Student Assessment (PISA) [2]. Understanding the impact of education recovery policies on education inequality requires specifying an evaluation design that includes an appropriate counterfactual. Where a similar area can serve as a counterfactual for the area implementing recovery interventions, difference-in-difference estimation can be applied to make causal inferences about the impact of the policies implemented. The availability of pandemic-related time-stamped global datasets enables analysis of recovery policies and education inequality [4].

Country Case Studies: Contrasting Trajectories

The pandemic has had a complex impact on the education systems of countries across the world, as patterns of educational access, attainment, and progression have nevertheless continued to differ significantly [1]. A number of countries have managed to narrow inequities that were already in place before the pandemic by implementing policies adaptable to their specific national contexts [2]. By contrast, other countries facing wider pre-existing education gaps have seen these increases even further [3]. The policies implemented in these nations have varied considerably in terms of funding, curriculum and assessment approaches, resources investment in digital infrastructure and social supports, and the nature of subsequent governance reforms [1].

Equity-focused Funding and Resource Allocation

Post-pandemic recovery processes for education, especially those seeking to address the loss in equity outlined above, have broadly focused on four areas: additional financing and new funding allocations; adjustments to the national curriculum, national assessments, and related policies; renewal of the digital realm (availability of equipment and connectivity); and targeted supports for children facing additional learning needs [2]. Specific

recovery policy options available to address each of these areas have been organized and catalogued [4]. These options can also be classified according to the main types of funding and resource management decisions they entail, enabling a more precise assessment of their relevance to post-pandemic recovery and positioning them within an emerging framework for policy analysis [7]. Equity-focused funding and resource allocation occupy a central position in the post-pandemic recovery agenda. They are one of the earliest equity-focused measures to be adopted in the wake of the pandemic and one of the few areas where education systems failed to advance prior to the crisis. Hence, they offer a timely opportunity to assess policy design and implementation. The effectiveness of funding and resource deployment decisions depends on multiple factors [1]. Four interrelated dimensions of financing and resource distribution are especially important: alignment with and precision of targeting; transparency, efficiency, and the risk of leakage; sufficiency, duration, and adaptability; and accompanying accountability and monitoring frameworks [2]. A preliminary mapping exercise seeks to identify which groups of children are the stated beneficiaries of various funding and resource policies introduced in different national and subnational contexts. It further investigates the distribution of resources across these targeted groups and the extent to which the actual distribution aligns with the declared intentions of these measures [3].

Curriculum, Assessment, and Digital Divide Considerations

Educational recovery measures introduced during and after the peak of the COVID-19 pandemic reflect a premise of large and urgent learning deficits; yet, they largely ignore the specific distribution and characteristics of such deficits and accompanying inequalities [4]. The retention and systematic analysis of various and extensive global data sets have documented coefficients of variation in progress or attainment three to four times larger than pre-pandemic norms between different countries and social groups [5]. Explain the actions of education authorities, many observers treat the themes of curriculum and assessment as correspondingly fundamental components of recovery efforts [5], being either the first to require adjustment or unadjustable for substantial periods until the resumption of regular schooling [6]. Curriculum considerations must, therefore, acknowledge current imbalances. Pandemic years have witnessed official recommendations to reduce quantity, retain core, emphasize basic, and overlook socialization. Various options for adjusting the timing of subject delivery have been proposed but seldom adopted [1]. The spacing of contents across widely different systems appears lower than previously, however, and significant post-pandemic proportions of dedicated teaching or time spent reviewing former content continue to emerge. Movements to narrow, omit, or exclude subjects, materials, or expenditure on specific types altogether, by contrast, have been frequent and vocal [2].

Support for Learners with Additional Needs

Individuals with additional needs, including specific disabilities, special educational requirements, social and emotional difficulties, behaviour and language issues, and other circumstances, require different formats, access points, content, and inputs depending on their circumstances [2]. Broadly, these needs can be differentiated following the broad categories set out in the United Nations Convention on the Rights of Persons with Disabilities, as recommended in Guidance Document [7]. Regular, affirming communication is essential, and in the absence of this, trauma-informed practices are often required to allow learners to return to any form of partial engagement [1]. Led by the World Bank and the Global Education Recovery Network, national and regional stakeholders, including governments, civil society, teacher unions, and private-sector organisations, came together to advance a global Education Recovery Framework and inform country policies and practices [2]. The first of three policy guidance documents, Policy Framework for Education Recovery provided a systematic overview of principal recovery challenges, including those related to equity and inclusion primarily considered during an emergency response, in all regions of the world to develop a reference point for identifying key recovery policies relevant in each context [2]. The Policy Framework emphasised the need to respect and preserve human rights and fundamental freedoms, and focused on the particular needs of vulnerable learners immediately following school closures [3]. Accelerating learning recovery for students at risk of drop-out required targeted remedial programmes or second-chance opportunities, while support for the most disadvantaged students aimed to maintain progress towards a safe return to in-person education [4]. At the same time, many additional needs compounded existing vulnerabilities, including mental health challenges, loss of schooling or skills development, and lack of access to technology and safe learning environments. Additional language support also became crucial, especially in multilingual societies, where access to learning in a native tongue had been disrupted in many cases through lockdowns or social restrictions [5].

Teacher Development and School Leadership in Recovery

Despite advances in the past two decades, many countries are yet to achieve an equitable education system, and the pandemic exposed disparities that were previously hidden [3]. Remote learning during this period, made possible by digital technologies, accentuated existing inequalities [4]. Response measures implemented by governments in the aftermath of the health crisis show that addressing inequalities and ensuring that no child is left behind remain a priority [5]. Educational stakeholders endorse policies aimed to narrow the gap in educational opportunities among learners from different backgrounds, which is considered a long-term socio-economic objective that

influences economic growth and fosters social cohesion [6]. The pandemic required reflection upon aspects of schooling that contributes to resilient and equitable education systems. Teacher professional development, school leadership and collaborative practices impact policy implementation [1]. As teachers are the primary provider of pupils' learning opportunities, they require well-delineated curriculum goals, appropriate pedagogies and ongoing support from leadership [2]. Steady growth has been reported in teacher engagement in professional development, the proportion of teachers indicating a light workload, and the existence of collaborative opportunities [3]. Governance reach, leadership support and extra funding for identified population groups to accommodate burden-sharing are facilitators of learner recovery [4].

Temporal Dimensions of Recovery: Short-term Relief vs. Long-term Resilience

Most recovery efforts address short-term learning loss without considering long-term resilience. Such "catch-up" measures prioritize restoration over adaptation; meaningful transformation is unlikely if the goal remains "2110". Proposals for a second compact to strengthen systems may inadvertently reinforce this pattern [5]. Resilience depends on anticipatory capacity to adapt and transform [6]. Authorities must expand long-term objectives, monitor relevant indicators, reflect on accompanying shifts, and communicate intentions clearly. In the education sector, adapting to shifting demands involves responding to changing skills, knowledge, and values, along with evolving patterns of learning [4]. Education systems lacking such flexibility will struggle to maintain relevance and legitimacy. Resilient systems therefore support broader, longer-horizon objectives alongside immediate recovery goals [5]. Generalizing across public services, four resilience indicators describe anticipated conditions post-disruption: the system retains legitimacy and support, contributes to long-term prosperity and equity, engages stakeholders and continues to evolve, and retains capacity to allocate resources effectively [6, 7]. These apply directly to education, where resilience encompasses stakeholder trust, responsiveness to diversity and digitalization, equitable resource allocation, and the ability to build on previous systems. Perspectives on vulnerability can enrich understanding of resilience [1]. While recovery remains the primary focus in several contexts, long-term objectives are progressively surfacing on the policy agenda [2]. Planning across different horizons avoids excessive immediacy and contrived long-term aspirations [1]. Systems tend to concentrate on narrowly defined catch-up periods, then either revert to business as usual or succumb to pressures for unfeasible transformations [3]. Introducing multiple phases facilitates handling divergent timeframes and reducing the psychological load of a singular, distant objective [4]. It also clarifies the evolution of priorities across phases, helping stakeholders anticipate future directions and stimulating ideas for novel initiatives. Initial recovery goals typically revolve around reinstating service delivery to pre-disruption levels [4].

Policy Implementation Challenges and Governance

Policy implementation challenges hamper the response to education disruption, as observed previously during the adoption of remote learning [1]. The current situation is also marked by mismatches between policy objectives and the policy instruments introduced, leading to uneven attention at different governance levels, lack of coordination, and time-consuming procurement processes [3]. Many countries nevertheless have the opportunity to enact transformative policies and close the implementation gap left by previous policies. Addressing these challenges could further affect the scale and equity of recovery efforts, especially if certain groups struggle to recover fully [3]. Two particular implementation challenges deserve special emphasis. First, the post-pandemic period presents an opportunity to rethink governance coordination mechanisms, given the complexity and multi-level nature of the education sector. Designing the recovery trajectory has often proved as difficult as managing the health and social dimensions of the pandemic [4]. The situation is compounded by changing financing cycles and procedures across different funding sources, which makes the reallocation of funds towards recovery more difficult after period of capture. Enabling significant shifts requires considerable policy adjustment, planning, funding, and stakeholder engagement efforts across all levels of governance [5]. Without broad engagement, policies are unlikely to gain sufficient legitimacy and ownership for effective and sustained implementation. Second, in terms of scale and trajectory, attention is continuing to the same groups and areas that had already received significant effort before and during the pandemic [6]. For recovery to be equitable, it cannot simply reactivate and concentrate on earlier adjustment models that were never fully implemented and were already inadequate for vulnerable learners [7].

Data, Monitoring, and Evidence Bases for Policy Adjustment

The extent to which education systems recover from COVID-19 disruptions and succeed in narrowing pre-existing inequalities varies widely across countries and regions [1]. To identify the characteristics of effective measure, it is crucial to understand the specific types of recovery policies adopted in systems showing progress [2]. Specific arrangements can be systematically explored through country case studies, which reveal significant differences in recovery trajectories and highlight policy designs, implementation capacities, and contextual factors that shape outcomes. Analysis of diverse examples can generate lessons and recommendations translatable to different contexts [3]. Post-2020 policy measures to accelerate recovery and limit deepening of educational inequalities have been introduced across countries at national, subnational, and local levels, encompassing a variety

of funding modalities, curricular and assessment adjustments, support for disadvantaged learners, and enhancements of digital access [4]. Comparing specific measures and progress towards intended objectives enables more focused investigations of how policies function and the barriers to effective implementation. Recovery policies operate through a variety of direct and indirect mechanisms that ultimately seek to reduce existing learning equity gaps. Funding injections to compensate for pandemic-related learning losses constitute a dominant approach in numerous systems [5]. However, as financing is rarely sufficient to address all needs, the manner in which, and to whom, these funds are allocated critically influences their impact. Modifications to curricula, assessments, and governance systems also represent substantial policy areas, yet mechanisms linking these adjustments to equity remain less clearly articulated [6]. In many systems, post-pandemic educational inequalities remain as severe as those observed prior to the crisis. The opportunity to leapfrog and build more equitable systems from the start has not yet materialized in most countries [7]. Persistent inequities underline the need to monitor post-COVID responses and adjust recovery policies accordingly, undertaking course corrections wherever necessary. Close examination of funding arrangements illustrates the importance of defining intended beneficiaries and identifying feasible means of assisting them [1]. The degree of targeting accuracy, transparency surrounding the criteria used for fund allocation, the extent of resources mobilized relative to requirements, and the duration for which additional funds are made available all merit careful assessment. Adequate follow-up on the conditions for sustaining or extending financial support helps avoid disruptive disruptions [2]. Curricular and assessment measures frequently serve a dual purpose of addressing educational and broader socio-emotional recovery objectives, with accompanying risks of misalignment. The extent to which post-COVID curricular adjustments signal a narrowing versus an enriching device remains contested [1]. Wherever remedial instruction is prioritized, consideration must be given to learners already falling behind in the subjects receiving intensified attention [2]. Provisions for students with additional needs, encompassing inclusive and individualized strategies, assistive materials, and specialist services, constitute another pivotal focus to increase educational fairness [2]. Identification processes often concentrate exclusively on specific disabilities, leaving other groups such as learners affected by the pandemic and requiring extra support, those needing flexible hours alongside family responsibilities, and children deficit in foundational skills beyond diagnostic assessment insufficiently considered. Recovery remains incomplete without addressing conditions surrounding school attendance and learning participation [3]. The capacity of teachers and school leaders to provide effective support during the recovery period plays a central role in determining the types and intensity of reintegration measures implemented. Periods free from student presence offer crucial opportunities to design and improve pedagogical approaches informed by newly acquired data on learning gaps [4]. A conducive environment for innovation and reflection precedes and facilitates the adoption of further approaches once regular sessions resume [5].

Ethical Considerations and Inclusivity

The whole education ecosystem, from access to learning outcomes, stands to be influenced by the rights-based framing of measures to address the COVID-19 crisis and its negative effects on education [2]. Such approaches protect the privacy of learners and their families and are based on ensuring that educational measures do not incur any undue unforeseen consequences [6]. A rights-based approach promotes cultural responsiveness and actively prevents risks related to early-tracking curricula development and unfair assessment practices [3]. Vulnerable groups, such as forced migrants or displaced populations, who do not enjoy home-to-school resources and support from their families, add further complexity to educational planning for recovery [4]. Integrating mechanisms for consultation, participation, and accountability involving children, families, educators, and community actors into policies and measures can help create approaches aligned with stakeholders' rights and needs. Addressing ethical considerations with these additional inclusive practices adds significant value [5].

Synthesis of best Practices for Effective Recovery

While the recovery period continues and trajectories vary considerably, lessons are emerging about effective approaches to counteracting pandemic-related education disruptions [5]. Drawing upon available evidence from diverse contexts, ten principles can be distilled that, if followed, enhance the probability of improving both equity and overall learning outcomes during recovery [6]. These principles concern expenditures, curriculum and assessment, attention to diverse needs, teacher development, the short- versus long-term nature of interventions, implementation challenges, data use, ethics and inclusivity, stakeholder engagement, and the importance of maintaining or strengthening broader reforms [7]. The principles are intended as actionable guidance for practitioners and policymakers involved in recovery implementation. They are grouped into two clusters: policy design features, which address “what” to implement, and contextual conditions relevant to “how” to implement. While the formulation of policy design features draws from cross-country generalizations, the contextual conditions remain sensitive to local circumstances [1].

CONCLUSION

The COVID-19 pandemic exposed and intensified longstanding inequalities within education systems, making equitable recovery a central policy priority across the globe. This review demonstrates that although governments

have implemented diverse recovery measures including increased funding, curriculum adjustments, digital infrastructure development, targeted learner support, teacher professional development, and governance reforms their effectiveness has varied considerably depending on the quality of policy design, implementation capacity, and contextual realities. Countries that adopted evidence-based, equity-focused, and inclusive approaches have generally achieved better outcomes in reducing learning loss and narrowing educational disparities. The analysis further reveals that short-term interventions alone are insufficient to address the structural inequalities that existed before the pandemic. Sustainable educational recovery requires long-term investment in resilient education systems capable of adapting to future disruptions while ensuring that vulnerable and marginalized learners remain at the centre of policy decisions. Effective recovery also depends on transparent resource allocation, robust monitoring and evaluation systems, meaningful stakeholder engagement, strong institutional leadership, and continuous policy learning informed by reliable data. Ultimately, post-pandemic education recovery should be viewed not merely as an effort to restore pre-pandemic conditions but as an opportunity to transform education systems into more inclusive, equitable, and resilient institutions. Policymakers should therefore prioritize strategies that strengthen educational equity, promote digital inclusion, enhance teacher capacity, and institutionalize adaptive governance mechanisms. By doing so, education systems will be better positioned to improve learning outcomes, reduce inequalities, and ensure that no learner is left behind in future emergencies.

REFERENCES

1. Recch F, Petherick A, Hinton R, Nagesh R, Furst R, Goldszmidt R. Education data needs and challenges for building back from COVID-19. *Epidemics*. 2023;43:100673. doi:10.1016/j.epidem.2023.100673. Available from: OSF Preprints and Elsevier.
2. Sahlberg P. Does the pandemic help us make education more equitable? *Educ Res Policy Pract*. 2021;20(1):11-18. doi:10.1007/s10671-020-09284-4.
3. Lewin KM. Contingent reflections on coronavirus and priorities for educational planning and development. *Prospects*. 2020;49(1-2):17-24. doi:10.1007/s11125-020-09480-3.
4. van de Werfhorst HG, Kessenich E, Geven S. The digital divide in online education: inequality in digital readiness of students and schools. *Comput Educ Open*. 2022;3:100100. doi:10.1016/j.caeo.2022.100100.
5. Batra P. Re-imagining curriculum in India: charting a path beyond the pandemic. *Prospects*. 2021;51(1-3):503-522. doi:10.1007/s11125-021-09538-y.
6. Amin N, Mahabeer P. Curriculum tinkering in situations of crises and inequalities: the case of South Africa. *Prospects*. 2021;51(1-3):699-716. doi:10.1007/s11125-020-09511-z.
7. Côté SM, Geoffroy MC, Haeck C, Ouellet-Morin I, Séguin JR, Japel C, et al. Understanding and attenuating pandemic-related disruptions: a plan to reduce inequalities in child development. *Paediatr Child Health*. 2022;27(2):111-118. doi:10.1093/pch/pxab067.

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