Original Researcher Article

Public Administration Strategies For Supporting Quality Education (SDG 4) In Developing Countries: A Systematic Literature Review

Nurasyid Adhi Pamungkas[1], Supriyatin[1], Arief Prayitno[1], Hery Nariyah[1], Ratna Andhika Mahaputri[2]*

[1]Graduate school program of Public Administration, Universitas Swadaya Gunung Jati, Indonesia
[2]Department of English Education, Universitas Swadaya Gunung Jati, Indonesia

*Corresponding Author: Ratna Andhika Mahaputri

ABSTRACT

The intersections of public administration and education policy have garnered significant attention as developed countries strive to maintain and improve the quality of education systems. Emmit is evolving associate challenges. This systematic literature review examines the strategies public administrations employ to support quality education, focusing on five key dimensions: public administration and governance; teaching and learning; COVID-19 impact and response; health and well-being; and artificial intelligence in the public sector. We identify gaps in the existing literature and synthesize findings to provide a comprehensive understanding of how the administrative framework adapts to educational demands. The review adapts the regard methodology, systematically analyzing. We refuse to study to trust automatic patterns. We followed the effectiveness of implemented policies, and the results reveal that governance models emphasizing centralization and stakeholder collaboration tend to enhance educational outcomes. At the same time, the pandemic has accelerated digital transformation and exposed inequalities in resource distributions, health, and well-being. Initiatives are increasingly integrated into education and policies, reflecting a holistic approach to student development. The adoption of artificial intelligence in public administration shows promise for personalized learning and operational efficiency but raises concerns about costs, ethics, and equity. The study concludes that while developed countries have made progress in aligning public administration with educational goals, persistent challenges remain in effective communication and sensitive solutions. This review contributes to policy discourse by highlighting best practices and areas for further research.

K E Y W O R D S: Public administration strategy; quality education; SDG 4; SLR

INTRODUCTION

Quality education remains a cornerstone of social progress and economic competitiveness in developed nations. As globalization and technological advancements reshape labor, markets, and governments, they face mounting pressure to ensure equitable access to high-quality education while addressing systemic inefficiencies [1]. Public administration plays a pivotal role in this endeavor. It acts as the bridge between policy formulation and implementation. The strategies adopted by administrative buddies, ranging from funding allocation to curriculum design, directly influence educational outcomes [2]. However, the dynamic interplay between governance structures, socioeconomic disparities, and emerging technologies complicated the pursuit of education and academic excellence.

The concept of quality education extends beyond academic achievement to encompass inclusivity, adaptability, and holistic development. The international framework, such as the United Nations Sustainable Development Goals, emphasizes the need for inclusivity and equity education system [3]. Developed countries, despite their advanced infrastructure, grapple with challenges such as demographic shifts, teacher shortages, and a digital divide [4]. For instance, while Finland's decentralized governance model fosters local innovation, centralized systems like France's face criticisms for rigidity in addressing regional disparities [5]. These constructing approaches underscore the importance of context and specific administrative strategies.

Despite extensive research on education policy, gaps persist in understanding precisely how public administration adapts to contemporary challenges. First, few studies systematically compare governance models across developing nations, leaving policymakers

without a consolidated evidence base [6]. Second, the rapid integration of artificial intelligence into education administration lacks critical scrutiny, particularly regarding ethical implications and equity [7]. Third, COVID-19 and pandemics exposed vulnerability in critics' responsive education system, yet long-term policy lessons remain unexplored [8]. Addressing these gaps is essential to inform future reforms and mitigate systemic risk.

This review is motivated by the urgent need to synthesize disparate findings into actionable insights for policymakers and scholars. By analyzing trends across governance, technology, and crisis management, we aim to identify scalable strategies that balance innovation with equity. The significance of this work lies in its disciplinary lens, bridging public administration theory with practical education policy challenges. Moreover, the findings will aid stakeholders in navigating trade-offs such as decentralization versus standardization while fostering resilience in education systems.

The remainder of this paper is organized as follows: Section 2 details the methodology, including the search, criteria, and analytical frameworks. Section 3 presents results across five areas: mathematics; research trends; public administration; governance, education, and learning; COVID-19 and its impact on health and well-being; and AI applications. Section 4 discusses implications for policy and theory, followed by concluding remarks in Section 5.

METHODOLOGY
1.1 Review Protocol
This systematic review adheres to the PRISMA (Preferred Reporting Items for Systematic Review and Meta-Analysis) guidelines [9] to ensure methodological rigor and transparency. Five databases were selected based on their relevance to public administration and education research. Web of Science (WoS) was prioritized for its comprehensive coverage of high-impact social science journals, followed by SCOPUS for its interdisciplinary breadth and robust citation matrix. ScienceDirect provided access to policy-focused studies, while Springer yielded theoretical and case-based research. Google Scholar supplemented these at the basis by capturing grey literature and recent preprints. The search string combines three core concepts: 1) public administration strategies ("public administration AND strategies OR governance frameworks); 2) quality education indicators ("quality education OR high-quality education"); and 3) geographic focus ("developing countries OR advanced economies). Boolean operators and field-specific syntax, for example, TS = in Web of Science; TITLE-

ABS-KEY in Scopus, refined the searches. To maintain contemporaneity, only studies published between 2020 and 2024 were considered, excluding systematic reviews and meta-analyses to avoid redundancy.

1.2 Analytical Framework
The review categorizes findings into five interconnected dimensions; public administration and governance examine how institutional structures, such as centralized versus decentralized models, affect policy, implementation, and resource allocation. Education and learning focus on pedagogical innovations, curriculum, standards, and equity measures. COVID-19 impact, and response assess adaptive strategies during the pandemic, including remote learning infrastructure and teacher training. Health and well-being explore the integration of mental health support and physical wellness programs into education systems. Lastly, in the public sector, artificial intelligence investigates AI-driven tools for administrative efficiency and personalized learning, alongside ethical concerns.

2.3 Inclusion and exclusion criteria
Studies were included if they 1. Explicitly addressed public administration's role in education within OECD or similarly classified developed nations. 2. Employed empirical, theoretical, or case study methodologies. 3. Were peer-reviewed and published in English. 4. Aligned with at least one of the five research dimensions. Exclusion criteria included studies based on primary data (e.g., opinion pieces), those focused solely on developing countries, and duplicate publications. Time constraints necessitated excluding non-English texts, which may introduce geographic bias.

2.4 Study selection process
The initial search yielded 1,040 records, reduced to 389 after removing duplicates and irrelevant results, for example, studies on corporate training. Title abstract screening excluded 189,286 papers for misalignment with research dimensions. A full-text review of the remaining 57 articles resulted in 35 exclusions due to insufficient methodological detail or tangential focus. The final corpus comprises 22 studies. As shown in Figure 1, the flowchart illustrates this attrition. The primary limitation is potential selection bias, as keyword-based searches may miss nuanced studies that use alternative terminology—moreover, the exclusions of non-peer-reviewed sources, risk, vomiting, and impactful policy reports. Nevertheless, the multi-database approach mitigates these biases by capturing diverse perspectives.
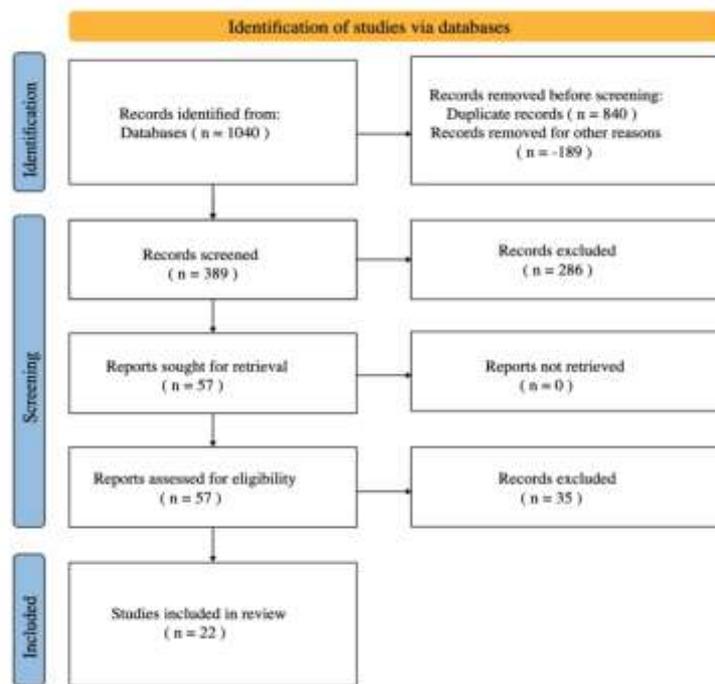
F I G U R E 1 PRISMA flowchart of study selection process
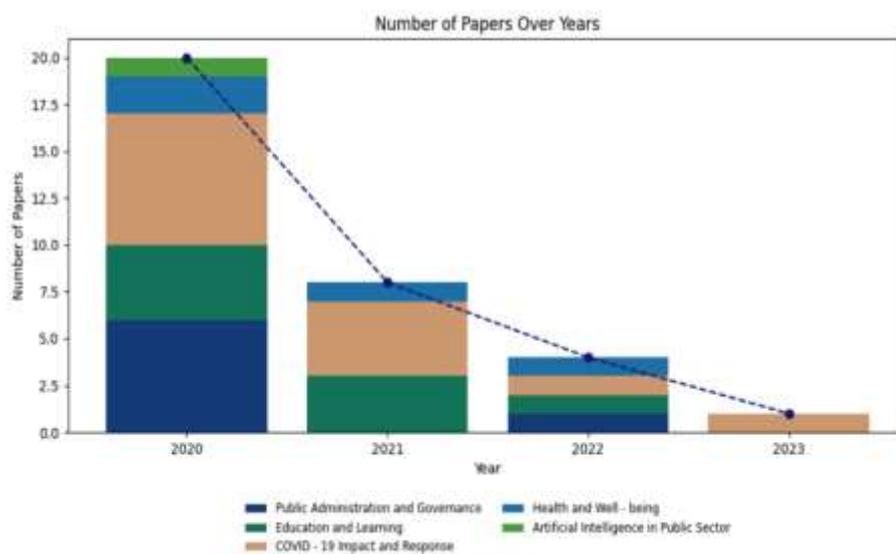
RESULT
1.3 Research Trends

F I G U R E 2 Research trends in public administration strategies

The temporal distribution of publications reveals a concentrated scholarly interest in public administration and quality education during the early 2020s. Over half of the analyzed studies (14 out of 22) were published in 2020, indicating a peak in research activity coinciding with global disruptions caused by the COVID-19 pandemic. These searches reflect the urgent need to examine how administrative systems responded to unprecedented educational challenges. The subsequent years show a marked decline, with only five studies in 2021, two in 2022, and one in 2023, suggesting either saturation of immediate post-pandemic analysis or a lack of scholarly documentation of longer-term policy adaptations.

Thematic analysis demonstrates an interconnected evolution of research. Priorities. Rations and governance emerged as themes in 2022, with six studies exploring institutional frameworks, followed by sporadic attention in later years. Education and learning maintained constant scholarly engagement with publications distributed from 2022 to 2022, reflecting ongoing concerns about Pago quality and equity. The pandemic's influence is evident in the prominence of COVID-19 impact research, with 7 studies in 2022 and continued

relevance through 2023. Health and well-being, while less frequently addressed, gain traction as education systems recognize the psychosocial dimensions of learning. Artificial intelligence in the public sector remained a niche area, with only one study identified, highlighting an underexplored frontier in administrative innovation.

The confidence in these trends underscored the paradigm shift in education governance. Early pandemic-era studies predominantly focused on exam crisis management, while subsequent research gradually reintegrated systemic issues such as governance, models, and student well-being. This trajectory suggests that while acute challenges initially dominated academic discourse, the field is recalibrating to address both emergent and persistent structural concerns. The limited explorations of AI applications present a critical gap, given its growing role in personalized education and administrative efficiency. These patterns collectively illustrate how public administration research adapts to societal shocks while maintaining focus on foundational educational objectives.

1.4 Governance, framework, and strategic approaches in public administration

The analysis of the governance framework reveals distinct strategic approaches employed by developed nations to support quality education. These approaches are characterized by their responsiveness to crises and an emphasis on innovation and the integration of emerging technologies. The studies demonstrate how public administration adapts to both structural challenges and sudden disruptions while maintaining educational quality. A taxonomy of governance strategies emerges from the included studies, organized across three levels: governance focus, strategy type, and implementation context. As shown in Table 1, crisis management strategy has been dominant in recent research, particularly in response to the COVID-19 pandemic. Norway's high-performance crisis response exemplifies agile governance, combining transparency with participatory policy decisions to maintain educational qontinuity [10]. Similarly, studies highlight how governments balance stringent measures with public trust, though effectiveness varied based on administrative capacity [11]. Fiscal governance's strategies, such as those observed in post-war reconstruction efforts, demonstrate the long-term rule of public administration in academic recovery and its indirect impact on education, funding stability [12].

Public service delivery constitutes the second central governance focus, with innovation strategies playing a pivotal role in enhancing service quality. Research identifies typologies of public surface innovation, distinguishing between strategy reforms and operational improvements [13]. For instance, Brazil's experience with political turnover reveals how bureaucratic stability influences the consistency of education services, suggesting that high personal turnover undermines long-term planning [14]. Technology governance represents an emerging frontier, as evidenced by studies on AI implementation in public-sector decision-making. While automations offer efficiency gains, ethical concerns persist regarding transparency and equity in educational applications [15].

T A B L E 1 Taxonomy of public administration strategy in education governance

Governance focus	Strategy types	Implementation context	Sources
Crisis Management	Agile governance	Pandemic response	[10], [11]
Public Service Delivery	Fiscal governance	Economic recovery	[12], [16]
	Innovation Strategies	Service quality improvement	[13] , [14]
	Technology governance	AI Implementation	[15]

The taxonomy illustrates how developed countries navigate the complex trade-off between governance capacity and legitimacy. Norway's success during COVID-19 derived from pre-existing trust in institutions and an adaptive policy framework, enabling rapid shifts to remote learning without significant quality deterioration [10]. Conversely, studies caution against overreliance on centralized control as seen in cases where top-down mandates stifled local innovation and curriculum delivery [11]. Fiscal strategies further reveal tensions between short-term crisis expenditures and long-term investments in education infrastructure, where some governments left raging emergencies as opportunities for systemic reform [16]. These findings collectively contextualize the nature of effective governance, where strategies must align with institutional histories and social expectations to sustain educational quality.

3.3 Transformative shifts in education systems

The included studies reveal significant transformations in education systems across developed countries, particularly in response to global disruptions and evolving pedagogical paradigms. These transformations manifest through institutional adaptations, quality assurance mechanisms, and effective teaching methodologies that collectively redefine the educational landscape. A comprehensive taxonomy of these educational shifts emerges from the analysis structure across education, academic context, and their corresponding focus areas. Higher education emerges as the most extensively studied context, with policy and institutional change representing a dominant theme.

Studies such as [17] and [18] highlight how traditional academic structures underwent rapid transformation during the pandemic, with accreditation systems and quality control mechanisms adapting to ensure continuity. The role of educational leadership in crisis management is prominent, as evidenced by [19]. This demonstrates how strategic decision-making preserved learning quality during institutional upheavals. Distance and remote education constitute another critical context in which emergency teaching protocols and infrastructure challenges emerge as pivotal concerns. Research by [20] and [21] contrasts the technological readiness of developed nations with persistent quality disparities in resource-constrained settings.

T A B L E 2 Taxonomy of educational transformation in developing countries

Education context	Key focus areas	Source
Higher education	Policy and institutional change	[17]; [18], [19]
	Quality control and accreditation	[17], [18]
	Crisis management strategies	[19], [18]
Distance/remote education	Emergency remote teaching implementation	[20], [21]
	Quality Challenges in Developing countries	[21]
Specialized Education	Health Profession Education	[22]
	Entrepreneurship Education	[23]
	Education for Sustainable development	[24]

Specialized education domains exhibit unique adaptation patterns that reflect sector-specific demands. The health proficient education study [22] underscores the criticality of faculty development programs in maintaining interprofessional education standards during a workforce crisis. Entrepreneurial education research [23] reveals how pedagogical approaches shifted to address post-pandemic economic realities, emphasising experimentation, experiential learning, and industry partnerships. Sustainability education emerges as a cross-cutting priority, with [24] demonstrating measurable impacts of sustainability curricula on teacher preparedness and student engagement. These specialized forces collectively illustrate how the education systems are increasingly integrating societal needs into their core missions, moving beyond traditional disciplinary boundaries.

The interplay between these education and educational contacts reveals systemic tensions and synergies. While higher education institutions demonstrated remarkable agility in adapting to policy changes, their reliance on pre-existing technological infrastructure created uneven implementation landscapes. Studies such as [21] expose how underinvestment in digital education, tools, and access leads to poor quality and disparities, particularly in vocational and continuing education sectors. Conversely, the pandemic accelerated pedagogical innovation in spatial domains, like health and education, where simulation-based training and telemedicine platforms gained unprecedented traction [22]. These findings suggest that future education strategies must balance institutional flexibility with targeted resource allocation to address both broad systemic needs and niche sectoral requirements.

3.4 Pandemic-driven Transformations in Education Governance

The COVID-19 pandemic precipitated unprecedented disruptions across global education systems, compelling public administrations to implement rapid and often innovative governance responses. This subsection examines how developed countries adapted their administrative strategies to maintain educational continuity while addressing emergent challenges related to remote learning, institutional resilience, and equity preservation.

The pandemic exposed critical vulnerabilities in the education governance frameworks, particularly regarding their capacity for agile policy implementation. Studies demonstrate that countries with pre-existing digital infrastructure and decentralised decision-making structures exhibited greater responsiveness during school closures [11]. For instance, agile governance models that emphasised transparency and stakeholder participation proved effective in maintaining educational quality while enforcing necessary public health measures [11]. However, fiscal constraints emerge as a persistent challenge, with local governments and nonprofits requiring substantial support to adapt their operations to pandemic conditions [16]. The crisis also catalysed institutional reform, prompting many higher education systems to reevaluate traditional accreditation processes and quality assurance mechanisms [17].

A comprehensive taxonomy of pandemic responses reveals distinct strategic approaches across administrative levels and educational sectors. As shown in Table 3, these strategies cluster around three primary objectives. 1) ensuring learning continuity, 2) protecting vulnerable populations, and 3) building long-term resilience. Remote learning implementation emerges as the most immediate priority, with studies highlighting significant disparities in technological access and pedagogical readiness between developed and developing nations [21], [25]. Equity-focused interventions represented another critical response area as evidenced by targeted policies to mitigate the disproportionate impact of school closures on marginalised communities.

T A B L E 3 Taxonomy of Public Administration Response to COVID-19

Response objective	Strategic Focus	Implementation Examples	Sources
Learning Continuity	Remote Learning System	Emergency remote teaching protocols	[20], [25]
	Quality assurance	Modified accreditation standards	[17], [18]
Equity Preservation	Vulnerable Populations	Targeted resource allocation	[26]
	Digital Inclusion	Device distribution programs	[21]
Institutional Resilience	Faculty Development	Pedagogical Training for Online Delivery	[22], [19]
	Fiscal Adaptation	Emergency Funding Mechanisms	[16], [27]
	Workforce Engagement	Remote Work Policies	[28]

The pandemic's lasting impact on education governance manifests through several emerging trends. First, the crisis accelerated the integration of technology into administrative processes with many institutions adopting hybrid models as permanent features [18]. Second, it highlighted the importance of academic leadership in crisis management, as effective communication and strategic planning were critical to maintaining educational quality during disruptions [19]. Third, the pandemic underscored the interconnectedness of education with broader public health and social welfare systems, prompting more holistic approaches to student support [26]. Entrepreneurship education simplifies this shift by increasingly emphasising adaptability, crisis management, and responses to labour market uncertainties [23]. These transformations suggest that while the pandemic posed challenges for sufferers, it also created opportunities for systemic improvements in education governance.

The studies collectively demonstrate that developed countries' responses to COVID-19 were shaped by both their institutional capacities and pre-existing policy frameworks. Nations with robust digital infrastructure and flexible governance systems could implement more effective continuous strategies, while those with centralized or under-resourced administrations faced greater difficulties [11], [12]. This variation highlights the importance of adaptive governance models that can balance immediate crisis response with long-term educational quality objectives. The pandemic experience thus offers valuable lessons for future public administration strategies, particularly regarding the need for resilience systems that can maintain educational equity during disruptive events.

3.5 Health and Well-being in Education Policy

The intersection of public health and education policy has gained prominence in developed countries, particularly as holistic approaches to student development become integral to quality education frameworks. The included studies reveal how public administration strategies address health disparities, professional education, and systemic well-being initiatives within an educational context.

A taxonomy of help focus strategies emerges from the analysis structure across three primary focus areas: global health challenges, health professional education, and health system strengthening. As shown in Table 4, these categories reflect the multifaceted role of public administration in integrating health and well-being into education systems. Global health challenges, such as end-stage kidney disease, disparities, and risk factor management, underscore the need for advocacy and policy interventions to mitigate systemic inequities [29]; [30]. For instance, effective public policy and healthcare delivery strategies are critical for addressing disparities in kidney replacement therapy across regions, including developed nations [29]. Similarly, disseminating information on risk factors to the public remains a cornerstone of preventive health education, as evidenced by the Global Burden of Disease Study [30].

Health professional education represents another critical dimension, with studies highlighting strategies to inspire and train the next generation of primary healthcare workers. In China, for example, exposing medical students to primary healthcare and community health services has been proposed as a method to address workforce shortages and improve service quality [31]. The development of teaching staff for interprofessional education is also a priority. Particularly in the context of post-pandemic recovery and the need for high-quality training programs [22].

T A B L E 4 Taxonomy of Health and well-being strategies in education policy

Health focus area	Key strategies	Source
Global health challenges	Advocacy for effective public policy	[29], [30]
	Information dissemination on risk factors	[30]
Health professional education	Development of teaching staff for interprofessional education.	[22]
	Strategies to inspire students' primary health care	[31]

| Health system strengthening | Addressing disparities in health service provision. | [29] |
| | Improving quality of Primary health care | [31] |

Health systems strengthening initiatives further demonstrate the role of education policy in addressing systemic gaps. Disparities in health service provision, particularly in specialised care such as kidney replacement therapy, highlight the need for interventions and resource allocation [29]. Improving the quality of primary healthcare through education and training programs also remains a priority, as seen in China's effort to align PHC standards with those of advanced economies [31]. These strategies collectively illustrate how public administration bridges the health and education sectors to foster well-being and equity.

The studies highlight the importance of context-specific approaches where policy effectiveness depends on local healthcare, infrastructure, and educational capacity. For example, while developed nations may focus on integrating health education into broader curricula, developing regions often prioritise basic service delivery and workforce training [29], [31]. This difference highlights the need for an adaptable framework that can address both immediate health challenges and long-term educational goals. The findings also suggest that interdisciplinary collaboration between health and education policymakers is essential for designing cohesive strategies that promote student well-being and systemic resilience.

3.6 Artificial intelligence in the public sector and education governance

The integration of artificial intelligence (AI) into public-sector education administration represents an emerging frontier of governance innovation, with significant implications for quality assurance and service delivery. The included studies reveal both the transformative potential and inherent challenges of automatic decision-making systems in democratic educational contexts. AI governance in the public sector manifests through three primary narratives as identified in [15]. First, the efficient narrative emphasizes AI's capacity to streamline administrative processes from student enrollment to resource allocation. Second, the equating narrative examines how an algorithmic system may either mitigate or separate existing educational disparities. Third, the ethical narrative interrogates transparency and accountability concerns in automatic decision-making. These narratives collectively framed the discourse around AI adoption in education and administration, highlighting tensions between technological promise and democratic values.

T A B L E 5 Framework of AI governance challenges in public education

Governance dimensions	Key Challenges	Policy Considerations	Sources
Transparency	Opaque algorithmic decision-making	Mandatory disclosure requirements	[15]
Accountability	Difficulty assigning responsibility for AI errors	Clear liability frameworks	[15]
Equity	Bias in training data reinforces disparities	Regular algorithmic auditors	[15]
Public Trust	Perceptions of AI as undemocratic	Participatory design processes	[15]

The implementation of AI systems in education administration raises critical questions about institutional readiness and ethical safeguards. While automated tools can enhance efficiency in areas such as plagiarism detection and personalised learning pathways, their deployment often outpaces the development of appropriate governance frameworks [15]. For instance, predictive analytics used for student performance evaluation may inadvertently disadvantage marginalized groups if training data reflect historical biases. This underscores the need for robust oversight mechanisms that align the technological adoption with education and educational equity goals.

The single included study on these topics suggests that democratic education systems face unique challenges in balancing AI's benefits with core public-sector values. Unlike corporate environments where efficiency often dominates decision-making criteria, in public education, administrators must weigh technological considerations against democratic principles like due process and equal protection [15]. This tension becomes particularly acute when AI systems influence high-stakes decisions, such as educational placements, funding allocations, or spatial education. The absence of additional studies in our review period indicates a significant lack of research on how different developed countries are navigating these challenges in practice.

DISCUSSION

The synthesis of findings across the reviewed studies reveals several critical patterns in how public administration strategies support quality education in developed countries. Taken together, the literature consistently demonstrates that governance models emphasising the centralization and stakeholder collaboration tend to yield more adaptive and equitable

education systems [10], [11]. For instance, Norway's agile governance framework during the COVID-19 pandemic enabled rapid policy adjustments while maintaining public trust, whereas centralized systems struggled with inflexibility [10], [11]. This pattern suggests that administrative structures balancing local autonomy with national standards are better positioned to address both systemic and emergent challenges.

The implications of these findings extend to both theory and practice. Theoretically, the review contributes to the growing discourse on adaptive governance by illustrating how education systems can institutionalise flexibility without sacrificing accountability [13], [16]. Practically, policymakers can leverage these insights to design contact-sensitive reforms, for example, by investing in digital infrastructure to reduce disparities exposed during the pandemic [21], [26]. The integration of health and well-being into education policy further highlights the need for cross-sector collaboration as student outcomes increasingly depend on holistic support systems [29], [31-32].

However, the review is subject to several methodological limitations. Excluding non-English studies may have omitted valuable perspectives from non-Anglophone developed nations, potentially skewing the findings toward Western governance models. The focus on peer-reviewed literature also risks overlooking effective practice documented in grey literature or policy reports. Moreover, the rapid evolution of AI in education administration means that the single included study [15] provides only a preliminary snapshot of a rapidly changing landscape. These limitations underscore the need for caution when generalizing the results across diverse national contexts. Future research should explore several under-examined areas. First, comparative studies of post-pandemic education reforms could elucidate which crisis response strategies have proven more sustainable. Second, the ethical dimensions of AI in public education demand rigorous empirical investigation, particularly regarding algorithmic bias and democratic accountability [15]. Third, longitudinal analysis of the centralised governance models would help determine their long-term efficacy in reducing inequities. There is also a pressing need for research on how teacher training programs adapt to evolving administrative technologies and pedagogical demands [22], [19].

The contradictions in the literature highlight areas requiring clarification. While some studies champion decentralization as a panacea for educational inequity [10], others caution that local autonomy can exacerbate disparities without robust fiscal equalization mechanisms [16], [26]. Similarly, the efficiency gains promised by AI in administration [15] must be weighed against its potential to erode the human-centric aspect of education. This tension suggests that future strategies must avoid one-size-fits-all solutions and instead adopt a hybrid approach tailored to specific institutional and cultural contexts.

The forward-looking implications of this synthesis are clear as developed countries navigate democratic and technological disruption and climate-related crises. Their education systems will require administrative frameworks that are both resilient and responsive. The pandemic has demonstrated that systems with strong governance capacity and inclusive design are more resilient. Principles can help with disruptions while maintaining educational quality [11], [18]. By addressing the gaps and contradictions identified in this review, policymakers and researchers can create strategies that not only respond to immediate challenges but also anticipate future needs in an increasingly complex world.

CONCLUSION

This systematic literature review has examined the multifaceted role of public administration in supporting quality education across developed countries, synthesizing insights from governance, models, crisis responses, help integration, and emerging technologies. The findings suggest that effective education systems require adaptive governance structures capable of balancing local autonomy with national standards, particularly in times of disruption. While the centralized models have demonstrated resilience during crises, such as the COVID-19 pandemic, their success depends on equitable resource distribution and stakeholder collaboration. The integration of health and well-being into education policy further underscores the need for cross-sector approaches to support holistic student development.

The review also refuses critical caps, particularly in understanding the ethical and operational implications of AI in education administration. Future research should prioritize comparative studies of post-pandemic reforms, long-term assessments of centralized governance, and empirical investigations into algorithm transparency. Policymakers must navigate these complexities by fostering innovation while safeguarding equity and ensuring the technological advancements do not exacerbate existing disparities. Ultimately, the synthesis presented here provides a framework for designing contact-sensitive strategies for deadline-driven administrative practices with filing educational demands, offering a foundation for both scholarly inquiry and policy reform

AUTHOR CONTRIBUTIONS

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Afterward, the authors reviewed and edited as needed and took full responsibility for the data and content.

CONFLICT OF INTEREST
The authors declare no potential conflict of interest.

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