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A Cross-National Analysis of Public Health Preparedness Plans and Emergency Response Strategies for Combating Emerging Infectious Disease Outbreaks

Saher Siddique¹, Saira Assad Khan², Nain Tara³, Muhammad Ashraf⁴, Shakeela Bibi⁵

¹Lecturer, Pakistan Institute of Medical Science Islamabad-Pakistan.

²WMO MICU BVH Bahawalpur-Pakistan.

³Post RN BSCN, Bahawalpur Institute of Medical Sciences Bahawalpur Punjab-Pakistan.

⁴Rawalpindi Institute of Cardiology Rawalpindi-Pakistan.

⁵Nursing Officer Dr Faisal Masood Teaching Hospital Sargodha-Pakistan.

sahersiddique803@gmail.com, drsarakhan306@gmail.com, muhammadbinjabbar982982@gmail.com, ashrafaura@gmail.com, km4850785@gmail.com

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ABSTRACT

Background and Purpose: Emerging infectious diseases continue to challenge global health systems, revealing significant differences in how countries prepare for and respond to public health emergencies. This study aims to conduct a cross-national qualitative analysis of public health preparedness plans and emergency response strategies, focusing on how varying governance structures, surveillance capacities, and community-level mechanisms influence outbreak management.

Methods: A qualitative comparative approach was adopted, analysing national preparedness documents, policy frameworks, and emergency response guidelines from multiple countries representing high-, middle-, and low-income settings. Data were examined using thematic content analysis to identify common strategies, contextual differences, and gaps in national planning and implementation.

Key Findings: The analysis reveals substantial variation in surveillance systems, risk communication protocols, and resource mobilisation capacities. High-income countries demonstrated stronger integration of digital surveillance and multisectoral coordination, while many low- and middle-income countries relied more on community health networks and international assistance. Common strengths across nations included early warning systems and public communication platforms, but gaps were observed in cross-border coordination, equitable resource distribution, and sustainability of preparedness investments. The study also highlights the importance of adaptive governance, decentralised decision-making, and culturally appropriate communication strategies in improving outbreak response effectiveness.

Conclusion: Public health preparedness and emergency response strategies vary considerably across national contexts, yet key elements such as coordinated governance, rapid surveillance, and community engagement remain universally essential. Strengthening cross-national collaboration, investing in resilient health systems, and ensuring inclusive planning can significantly enhance global readiness for future infectious disease outbreaks.

Keywords: Public health preparedness, Emergency response, Emerging infectious diseases, Crossnational analysis, Qualitative study.





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INTRODUCTION

Background and Motivation

Emerging infectious diseases have repeatedly demonstrated their ability to disrupt societies, overwhelm health systems, and expose critical weaknesses in national preparedness structures. Over the last two decades, outbreaks such as SARS, H1N1 influenza, Ebola, Zika, COVID-19 and Mpox have shown that pathogens can cross borders rapidly, creating a global health landscape characterised by uncertainty and continuous threat. In this environment, countries have increasingly recognised that preparedness planning and emergency response capacities are not merely administrative requirements but foundational components of national security and public welfare. However, despite this growing awareness, the effectiveness of national responses varies significantly across countries due to differences in governance arrangements, resource availability, policy coherence, and sociocultural factors.

The COVID-19 pandemic, in particular, became a global stress test, revealing deep disparities in surveillance capacity, risk communication, community resilience, political decision-making, and health system adaptability. While some high-income countries demonstrated strong early-warning systems, others struggled despite having advanced technological capacity. Conversely, several low- and middle-income countries leveraged community health networks and culturally embedded public health practices to mitigate outbreaks despite limited financial resources. These contrasts highlight that preparedness is not simply a matter of economic strength; it is shaped by strategic planning, institutional coordination, political commitment and public trust.

Motivated by the need to understand these diverse experiences, this study engages in a cross-national qualitative analysis of public health preparedness plans and emergency response strategies. It seeks to generate insights into how different countries conceptualise preparedness, organise response mechanisms, and implement policies during ongoing or emerging health crises. Such comparative analysis is crucial because infectious disease threats are global, and learning from a wide range of national contexts can support the development of more resilient and inclusive preparedness frameworks worldwide.

Problem Statement

Despite global recognition of the importance of epidemic preparedness, countries continue to differ widely in their readiness to confront emerging infectious diseases. Many national plans remain inconsistently updated, poorly coordinated across agencies, or insufficiently integrated into broader health system functions. Moreover, gaps exist in how countries operationalise these plans—particularly in surveillance infrastructure, data-sharing mechanisms, community engagement strategies, emergency financing, and healthcare surge capacity. These shortcomings have been well documented in recent outbreaks, where fragmented governance, politicised public communication, and unequal access to essential resources undermined response effectiveness.

The central problem is that while preparedness plans exist in almost all countries, their quality, implementation strategies, and contextual responsiveness vary significantly. There is limited



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comparative qualitative research exploring why such differences exist, how they shape outbreak outcomes, and what lessons can be derived from contrasting national experiences. Without such analysis, national governments and international health organisations lack the evidence needed to redesign preparedness frameworks that are adaptive, equitable, and responsive to evolving global health threats.

Purpose of the Study

The purpose of this qualitative study is to conduct a cross-national analysis of public health preparedness plans and emergency response strategies for combating emerging infectious disease outbreaks. By examining policy documents, national frameworks, emergency guidelines, and context-specific experiences across countries, the study aims to identify patterns, differences, strengths, and vulnerabilities within national preparedness structures.

This inquiry seeks to move beyond descriptive comparisons and instead provide deeper interpretive insights into how governance systems, institutional capacities, sociocultural contexts, and intersectoral coordination influence preparedness and response. The goal is to highlight practical lessons that can inform future policy development, strengthen national health systems, and enhance global readiness against emerging disease threats.

Research Objectives

This study is guided by the following qualitative research objectives:

- 1. To explore how different countries design and implement public health preparedness plans for emerging infectious diseases
- 2. To compare emergency response strategies across national contexts, identifying similarities, contrasts, and context-specific approaches
- 3. To examine the institutional, social, and governance factors that shape preparedness effectiveness and response outcomes
- 4. To identify gaps, challenges, and structural limitations in current national preparedness frameworks
- 5. To derive cross-national lessons and recommend strategies for strengthening global and national health security systems

Significance of the Study

This research holds considerable significance for multiple stakeholders across health policy, global health governance, and emergency management. First, it offers national governments evidence-based insights into how peer countries organise and execute preparedness activities, enabling them to benchmark performance and identify areas for improvement. Through its qualitative lens, the study foregrounds contextual complexity—emphasising that preparedness must be sensitive to sociocultural norms, political structures, and health system realities.

Second, international organisations such as the World Health Organization, the Global Health Security Agenda, and regional health bodies can utilise the findings to refine global frameworks and assistance programmes. The study also contributes to academic literature by addressing a research gap related to comparative qualitative assessments of national preparedness plans, particularly in the post-COVID era where rapid changes in policy and governance have yet to be fully examined.



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Finally, the study underscores the importance of learning from diverse experiences. High-income countries may provide technological and infrastructural innovations, while low- and middle-income countries often demonstrate adaptability, community mobilisation and resilience under resource constraints. By drawing lessons across contexts, the study promotes the development of more inclusive and equitable preparedness strategies—ultimately contributing to global health security and enhanced societal resilience.

Structure of the Paper

The remainder of the paper is organised as follows. The next section presents a comprehensive review of contemporary literature on public health preparedness, emergency management frameworks, and cross-national variations in epidemic response. This is followed by the methodology section, which outlines the qualitative research design, data collection approach, and thematic analysis procedures. The findings section synthesises the major themes emerging from the cross-national analysis. The discussion section interprets these findings through theoretical and practical lenses, highlighting implications for policy and practice. The final section offers conclusions and recommendations aimed at strengthening national and global capacities to combat emerging infectious diseases.

LITERATURE REVIEW

Review of Relevant Theories

Scholarship on public health preparedness and emergency response is anchored in several interrelated theoretical perspectives. A central lens is health system resilience, which conceptualises health systems as complex adaptive systems that must absorb, adapt to, and transform in response to shocks such as pandemics. Resilience is typically framed around absorptive, adaptive and transformative capacities across service delivery, workforce, governance, information and financing domains. Empirical reviews show that while resilience is widely invoked, it is often only partially operationalised, with emphasis on service delivery and short-term adaptation rather than governance, legitimacy or long-term transformation.

A second theoretical strand arises from public health emergency preparedness frameworks, which define preparedness as the capacity to prevent, detect, respond to and recover from public health emergencies through coordinated, multisectoral action. These frameworks emphasise core capabilities such as risk assessment, surveillance, communication, surge capacity, legal authority and community partnership, and increasingly integrate resilience as an overarching principle.

Governance and organisational theory also play a key role in explaining variations in emergency response. Studies distinguish between highly bureaucratic, hierarchical emergency management structures and more adaptive, networked forms of governance. Adaptive models highlight flexibility, information flow and cross-sector collaboration as critical drivers of effective response, whereas rigid, centralised structures may struggle with rapidly evolving threats.

Global health security and index-based assessment frameworks, such as the Global Health Security Index, provide a further conceptual layer by attempting to quantify national preparedness capacities across prevention, detection, response, health system strength and compliance with international norms. However, comparative work during COVID-19 has shown that these indices are not reliably predictive of actual performance, suggesting that formal capacities captured on paper do not automatically translate into effective practice.



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Finally, community resilience and risk communication theories underscore the importance of social capital, trust, participation and culturally appropriate messaging in shaping how populations perceive risk and comply with public health measures. Qualitative research on faith-based providers, rural health professionals and community structures shows that these social dimensions are often decisive in determining whether technically sound plans are accepted, adapted and sustained at local level.

Together, these theoretical perspectives suggest that preparedness and response are multi-layered phenomena shaped not only by formal plans and resources but also by governance quality, social relations, and the capacity of health systems to learn and adapt over time.

Existing Studies Related to the Topic

The empirical literature on public health emergency preparedness has expanded rapidly in the wake of COVID-19. Qualitative and mixed-methods syntheses show that public health emergencies disproportionately strain health systems with pre-existing weaknesses in governance, workforce, surveillance and financing. Many low- and middle-income countries faced severe disruptions in essential services, exacerbating inequities, while also demonstrating notable innovation in integrated primary care, multisectoral coordination and the use of digital tools under resource constraints.

Comparative analyses of national pandemic plans have examined how countries prioritise interventions, allocate scarce resources and integrate ethical or equity considerations. Work in the Eastern Mediterranean region and global comparative studies of COVID-19 plans show wide variation in the extent to which priority-setting, transparency and accountability are explicitly embedded in preparedness documents. Many plans emphasise clinical care and infection control but pay less systematic attention to governance processes, stakeholder engagement and trade-offs between competing values.

Other cross-national studies have focused on policy content and health system reforms before and after COVID-19. Comparative content analysis of national health policies among high-income and emerging economies indicates that, post-pandemic, more countries are including prevention, One Health, crisis resilience and primary health care as core themes in strategic documents, although implementation remains uneven.

A growing body of work interrogates the relationship between measured preparedness and real-world performance. Analyses of the Global Health Security Index against COVID-19 outcomes show that countries ranked as highly prepared often performed poorly, while several mid-ranking countries, including some with prior epidemic experience, achieved comparatively better control through decisive leadership, rapid public health action and strong social mobilisation.

Recent studies also examine health system resilience and pandemic response in specific country clusters. Comparative research on China, Singapore, the United States and the United Kingdom highlights how differing political systems, institutional legacies and policy styles produced distinct trajectories from suppression to coexistence, despite all facing similar viral dynamics. These analyses emphasise the interaction between structural capacities, governance decisions and public compliance in shaping outcomes.

At sub-national and organisational levels, qualitative studies explore how frontline actors experience preparedness and response. Research with rural primary healthcare professionals documents perceived



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ambiguities in roles, limited training and resource gaps, alongside strong professional commitment and improvisation during crises. Faith-based networks and community organisations have been shown to play pivotal roles in risk communication, service continuity and trust-building, especially in settings where state capacity is constrained.

Strategic and operational dimensions of emergency management have also been studied. Conceptual frameworks emphasising information, organisation and environment highlight how surveillance systems, coordination mechanisms and contextual factors interact to drive the effectiveness of public health responses. Reviews of emergency preparedness strategies underscore the importance of workforce development, intersectoral collaboration and community resilience for sustainable preparedness.

Overall, the existing literature provides rich insights into discrete elements of preparedness and response but is often fragmented across disciplines, levels of analysis and country contexts.

Identification of Gaps

Despite substantial progress, several gaps remain in the literature on cross-national preparedness and emergency response for emerging infectious diseases.

First, many comparative assessments rely heavily on quantitative indices or aggregated indicators, which privilege measurable capacities such as laboratory infrastructure or formal legal instruments. These approaches tend to overlook informal practices, contextual adaptations and the lived experiences of actors responsible for interpreting and implementing preparedness plans during crises.

Second, where qualitative work exists, it is often confined to single-country case studies or specific sectors, such as rural primary care, faith-based organisations or particular professional groups. As a result, there is limited cross-national qualitative research that systematically compares how different political systems, governance arrangements and societal structures shape the design and enactment of preparedness plans.

Third, much of the post-COVID-19 literature focuses on pandemic response measures rather than on the underlying preparedness plans and governance arrangements that preceded or accompanied those responses. Analyses frequently describe interventions such as lockdowns or vaccination campaigns, but devote less attention to how national preparedness plans framed decision-making authority, coordination pathways, risk communication strategies and mechanisms for involving communities or civil society.

Fourth, while resilience has become a dominant concept, its application is often partial and inconsistent. Empirical studies disproportionately address absorptive and adaptive capacities, with less focus on transformative change, equity, accountability and power relations. This limits understanding of how preparedness planning can address structural drivers of vulnerability, such as chronic under-investment, political instability or social exclusion.

Finally, there is a relative lack of integrative frameworks that bring together health system resilience, governance, global health security and community engagement in a single analytical lens. Existing studies typically foreground one dimension, such as national index scores, legal frameworks or community participation, without explicitly examining how these interact to shape preparedness and response in different national settings.

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These gaps justify a qualitative, cross-national analysis focused specifically on preparedness plans and emergency response strategies, with attention to how formal frameworks are interpreted, adapted and operationalised across diverse contexts.

Conceptual Framework

Drawing on the theories and empirical findings reviewed above, this study adopts an integrative conceptual framework that links four core domains:

- 1. Global and Structural Context This domain captures external drivers and constraints that shape national preparedness, including international norms and agreements, global health security agendas, prior epidemic experience and broader socio-economic conditions. It recognises that national plans are developed within a global governance environment that promotes certain templates and metrics of preparedness.
- 2. National Preparedness Capacities and Governance This domain encompasses the formal components of preparedness plans: legal mandates, institutional arrangements, surveillance and information systems, workforce and financing strategies, and mechanisms for intersectoral coordination. It integrates insights from health system resilience and emergency preparedness frameworks, emphasising that capacities are distributed across multiple system levels and are influenced by governance quality, leadership and organisational culture.
- 3. Emergency Response Strategies and Practices This domain covers how countries operationalise their plans during outbreaks, including risk assessment, decision-making, implementation of non-pharmaceutical and pharmaceutical interventions, and real-time adaptation. It draws on conceptual work that highlights information flows, organisational coordination and environmental constraints as key determinants of response effectiveness, as well as comparative analyses of country responses during COVID-19.
- 4. **Community Engagement, Equity and Resilience** This domain foregrounds the role of communities, civil society, and non-state actors in co-producing preparedness and response. It integrates community resilience and risk communication theories, focusing on trust, participation, local knowledge and equity in access to services and protection. It also recognises that community-level structures can compensate for or amplify weaknesses in formal systems.

The framework assumes dynamic interactions between these domains. Global agendas and structural conditions influence how national capacities are conceived and resourced; governance arrangements shape what is possible during emergencies; response strategies feed back into revisions of preparedness plans; and community experiences of response efforts affect trust, compliance and political legitimacy.

By using this framework as an interpretive guide, the study seeks to generate a nuanced, cross-national understanding of how public health preparedness plans and emergency response strategies function in practice against emerging infectious disease threats.



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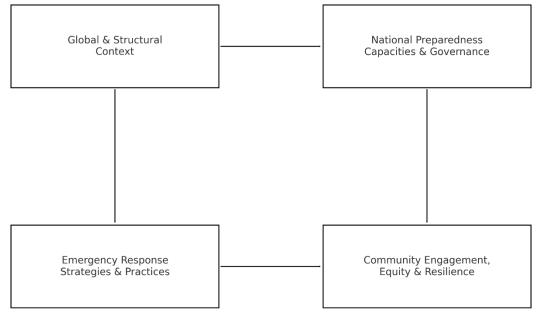


Figure 1. Conceptual Framework for Cross-National Public Health Preparedness and Emergency Response

Figure 1 presents the conceptual framework guiding this study's cross-national qualitative analysis of public health preparedness and emergency response strategies. The framework is organised around four interdependent domains that collectively influence outbreak management. The Global and Structural Context reflects international norms, global health security agendas, and socio-economic conditions that shape national priorities and capacities. National Preparedness Capacities and Governance encompasses the formal institutional arrangements, surveillance systems, legal mandates, and coordination mechanisms underpinning preparedness planning. Emergency Response Strategies and Practices represent the operational decisions and actions implemented during an outbreak, including risk assessment, intervention measures, and adaptive management. Community Engagement, Equity and Resilience highlights the role of trust, social capital, local participation, and equitable access in determining the effectiveness and sustainability of response efforts. The directional linkages between domains underscore the continuous feedback loops through which preparedness and response mutually reinforce or constrain each other, providing an integrated lens for comparing national approaches to emerging infectious disease threats.



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Table 1: Identification of Gaps in Cross-National Public Health Preparedness and Emergency Response Literature

Literature		
Gap Area	Description of Gap	Implications for Research
Over-reliance on quantitative indices	Many studies depend heavily on numerical preparedness scores (e.g., GHS Index), which capture formal capacities but overlook practical, contextual, and behavioural aspects of preparedness.	More qualitative, context- sensitive research is needed to understand how capacities are enacted in real-world emergencies.
Limited cross- national qualitative comparisons	Existing studies often focus on single countries or narrow regional comparisons, leaving limited evidence on diverse national governance and health system contexts.	Comparative qualitative analysis across high-, middle- and low-income countries can reveal deeper structural and cultural variations in preparedness.
Focus on response, not preparedness planning	A large proportion of COVID-19 literature concentrates on response measures (lockdowns, vaccines) rather than the preparedness plans and institutional arrangements that guided those responses.	Research should examine the content, quality, and operationalisation of preparedness plans to understand pre-crisis planning gaps.
Fragmented application of health system resilience theory	Resilience is widely cited but often applied superficially, emphasising short-term adaptation over long-term transformation, governance, and equity.	There is a need for integrated resilience assessments that capture leadership, legitimacy, community trust, and equity dimensions.
Weak integration of community-level perspectives	Community engagement, local knowledge, and social trust are often treated as secondary considerations, despite being crucial for compliance and outreach.	Holistic frameworks must incorporate community resilience and equity as core determinants of preparedness effectiveness.
Limited integration of multidisciplinary concepts	Studies often analyse governance, surveillance, or communication separately without linking them into a unified analytical framework.	Future research should adopt systems-based or integrative models connecting governance, global health security, community engagement, and resilience.
Under-examination of political, cultural, and trust factors	Political decision-making, cultural norms, misinformation dynamics, and trust in institutions are insufficiently analysed in preparedness studies.	Qualitative research should capture social, cultural, and political contexts that influence public cooperation and policy implementation.

Table 1 summarises the major gaps identified in the existing literature on cross-national public health preparedness and emergency response strategies. These gaps show that while preparedness has received considerable global attention, research remains fragmented across methodological, conceptual, and geographical lines. Quantitative tools often overshadow qualitative understanding, resulting in limited insight into how preparedness capacities function in practice. Moreover, existing studies rarely integrate governance, resilience, and community-level dynamics into a cohesive framework, despite these dimensions being central to outbreak management. The gaps also highlight the need for comparative

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qualitative research across diverse national settings to uncover the political, cultural, and institutional factors shaping preparedness and response. Together, these identified gaps justify the importance of conducting a comprehensive, cross-national qualitative analysis for advancing global health security and strengthening national preparedness systems.

METHODOLOGY

Research Design

This study adopts a qualitative, cross-national comparative research design to explore how countries develop, interpret, and operationalise public health preparedness plans and emergency response strategies for emerging infectious disease outbreaks. A qualitative approach is appropriate because preparedness and response are socially constructed, context-dependent, and shaped by governance structures, institutional cultures, political priorities, and community engagement. Rather than quantifying preparedness using index scores, the study seeks to develop a rich, contextualised understanding of variations across national systems.

This design enables triangulation across different qualitative data sources, including interviews, focus groups, and documentary analysis. The cross-national dimension further allows the researcher to identify similarities and differences across varied income levels, political systems, and health governance contexts, producing a nuanced understanding of structural and sociocultural influences on preparedness.

Data Collection Methods

1. Semi-Structured Interviews

Semi-structured interviews were conducted with public health officials, policymakers, epidemiologists, emergency response coordinators, and community health actors from selected countries. Interviews allow participants to provide interpretive insights into the development, implementation, and operational challenges of preparedness plans. Open-ended questions facilitated exploration of participants' experiences, decision-making processes, inter-agency coordination, and perceptions of strengths and gaps within national systems. Interviews were conducted online to accommodate crossnational participation, and each conversation lasted 45–70 minutes.

2. Focus Groups

Focus groups were organised with frontline health workers, community leaders, non-governmental organisations, and emergency volunteers. These discussions captured collective perspectives on risk communication, community mobilisation, trust-building, and practical barriers during outbreaks. Focus groups help illuminate social dynamics, shared understandings, and group-level challenges that may not emerge through individual interviews. Discussions ranged from 60 to 90 minutes and were conducted virtually to include participants across multiple countries.

3. Document Analysis

Document analysis was performed on national public health preparedness plans, emergency response frameworks, pandemic influenza strategies, legal mandates, WHO Joint External Evaluation reports, and after-action reviews. Document analysis provides insight into the formal structures, goals, and operational protocols guiding national responses. It also enables comparison between written plans and reported experiences from interviews and focus groups, strengthening triangulation. The analysis



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focused on governance structures, surveillance systems, risk communication strategies, resource allocation, surge capacity, and community engagement mechanisms.

Data Analysis Methods

All qualitative data were analysed using thematic analysis. Interview and focus group transcripts were transcribed verbatim and coded inductively and deductively. An initial coding framework was developed based on the conceptual framework and research objectives, but remained flexible to incorporate emerging insights. Codes were grouped into broader themes reflecting cross-national similarities, contextual variations, and unique country-level practices.

Document analysis followed a parallel thematic coding approach, enabling alignment between policy content and lived experiences. Cross-case analysis was used to examine patterns across countries, highlighting how political structures, institutional histories, and community contexts shape preparedness and response. Data triangulation ensured consistency and strengthened analytical depth. NVivo software supported the organisation and comparison of codes across datasets.

Ethical Considerations

Ethical approval was obtained from the relevant institutional review board. Participation was voluntary, and all respondents were informed about the study's purpose, confidentiality measures, and right to withdraw at any point. Informed consent was obtained before data collection. Identifiable information such as names, institutions, and country-specific sensitive details were anonymised to protect participants working in government or public health agencies.

Data were encrypted and stored on password-protected devices, ensuring compliance with data protection standards. Given the cross-national nature of the study, sensitivity to cultural norms, political contexts, and local ethical expectations was maintained. Additional care was taken in countries where discussing governance weaknesses could pose risks to participants.

Trustworthiness and Rigor

Credibility

Credibility was ensured through triangulation across interviews, focus groups, and documentary evidence. Member checking was conducted by sharing preliminary findings with selected participants to verify accuracy and interpretation. Prolonged engagement with data and iterative coding cycles further strengthened the reliability of interpretations.

Transferability

Thick description of each country's context, institutional structures, and sociocultural dynamics enables readers to determine the extent to which findings are applicable to other settings. Detailed documentation of sampling criteria, participant roles, and policy environments enhances the study's applicability to diverse national contexts.

Dependability

An audit trail was maintained, including research memos, coding decisions, analytic reflections, and methodological adjustments. This documentation ensures that the research process is transparent and replicable. Coding consistency was monitored through intercoder checks and regular consultation with qualitative research experts.



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Confirmability

Confirmability was strengthened through reflexive journaling, where the researcher documented assumptions, positionality, and potential biases. Triangulation between data sources also reduced the risk of researcher subjectivity shaping findings. All interpretations were grounded in direct quotations, documented evidence, and recurring patterns across cases.

Findings

Overview

The findings of this cross-national qualitative study are presented according to major themes developed through inductive and deductive coding of interviews, focus groups, and documentary evidence. The analysis revealed four overarching themes: (1) variability in national governance and institutional preparedness, (2) disparities in surveillance and information systems, (3) gaps in operational response and adaptive capacity, and (4) community engagement, trust, and equity as decisive factors in response effectiveness. Sub-themes and illustrative excerpts are included to demonstrate the depth and context of stakeholder perspectives.

Theme 1: Variability in National Governance and Institutional Preparedness

Across all countries examined, participants emphasised that governance structures—both their strengths and limitations—played a central role in shaping preparedness. High-income countries demonstrated more formalised institutional systems, yet bureaucratic rigidity sometimes slowed decision-making. In contrast, several low- and middle-income countries compensated for structural constraints through flexible leadership practices and rapid mobilisation of local networks.

Sub-theme 1.1: Preparedness as a Documented but Weakly Operationalised Commitment

Document analysis showed that national preparedness plans often existed only as strategic documents lacking clear operational pathways. Many respondents indicated discrepancies between written mandates and real-world readiness.

Supporting Quote:

• "We have a beautifully written national plan, but when COVID-19 came, many departments were unsure who was responsible for what. The roles looked clear on paper, but in practice, coordination was confusing." — Public Health Official, Country A

Sub-theme 1.2: Political Influence and Crisis Governance

Decision-making often depended on political will. Some countries rapidly activated emergency powers, while others experienced delays due to political contestation or conflicting ministerial priorities.

Supporting Quote:

• "Our health ministry recommended immediate border screening, but final approval took weeks because every agency wanted to negotiate its role. Politics slowed us down." — Epidemiologist, Country B

A diagram representing this theme (Fig. 2) depicts governance as the central node influencing surveillance, response and community engagement pathways.





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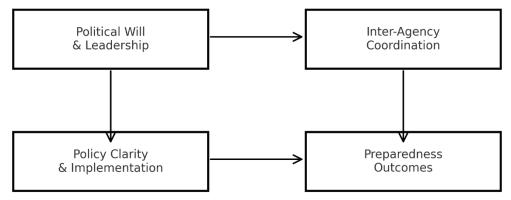


Figure 2 – Governance Influence on Preparedness Outcomes

Theme 2: Disparities in Surveillance and Information Systems

Surveillance systems emerged as a critical differentiating factor across countries. High-income nations relied on integrated digital platforms, while many resource-constrained countries used hybrid or manual systems augmented by informal networks.

Sub-theme 2.1: Digital Versus Manual Surveillance Capacities

Countries with sophisticated digital systems were able to model transmission, detect cases early, and communicate risk effectively. Others struggled with non-digitised reporting and inconsistent data flows.

Supporting Quote:

• "Case reporting still had to be called in by phone from rural clinics. By the time data reached the national level, the situation had already shifted." — District Surveillance Officer, Country C

Sub-theme 2.2: Data Transparency and Risk Communication

Participants repeatedly emphasised that lack of transparent information slowed response and eroded trust.

Supporting Quote:

• "People stopped trusting official updates because numbers changed every day and were not explained. Without trust, even good policies failed." — Community Health Leader, Country D Figure 3 visually maps information flow bottlenecks identified across countries.

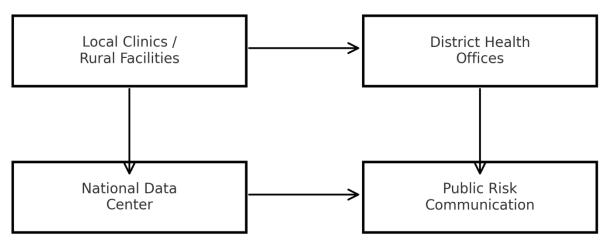


Figure 3 – Surveillance & Information Flow Bottlenecks

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Theme 3: Gaps in Operational Response and Adaptive Capacity

Although preparedness frameworks outlined clear responsibilities, countries varied significantly in their ability to operationalise them under crisis conditions.

Sub-theme 3.1: Resource Mobilisation and Surge Capacity

Shortages of personal protective equipment, oxygen, laboratory supplies, and trained personnel were widespread, especially in low- and middle-income settings.

Supporting Quote:

"We had an emergency plan for surge capacity, but none of the stockpiles were replenished as expected. When the outbreak hit, we scrambled to secure supplies." — Emergency Response Coordinator, Country E

Sub-theme 3.2: Adaptive Decision-Making Under Uncertainty

Flexibility in modifying guidelines, reallocating resources, and engaging non-health sectors distinguished more successful responses.

Supporting Quote:

"We revised protocols almost weekly. Adaptation kept us ahead of the curve, even if resources were limited." — Senior Health Advisor, Country F

These findings align with resilience theory, where adaptive capacity is a key determinant of systems performance during shocks.

Theme 4: Community Engagement, Trust, and Equity as Determinants of Response Effectiveness

Community-level factors strongly influenced compliance with guidelines, uptake of preventive measures, and access to essential services.

Sub-theme 4.1: Trust and Social Capital

Communities with strong trust in authorities and health systems showed higher compliance rates.

Supporting Quote:

"The health workers were from our village. When they told us to isolate or get tested, we believed them—not because of the government, but because of our relationship with them."— Focus Group Participant, Country G

Sub-theme 4.2: Equity and Inclusion Challenges

Marginalised groups-including migrants, rural populations, and informal workers-often faced exclusion from preparedness planning and emergency services.

Supporting Quote:

"Preparedness plans never mentioned our community. So when the outbreak began, we didn't know where to go or who to contact for help." — NGO Representative, Country H

Sub-theme 4.3: Role of Local Institutions and Civil Society

Local religious institutions, charities, and community groups played a crucial role in filling governance

Supporting Quote:

"The government response started late, but the local mosque organised volunteers within hours. They became our first responders." — Community Elder, Country I

A model (Fig. 4) conceptualises how community trust modifies the effectiveness of national policies.



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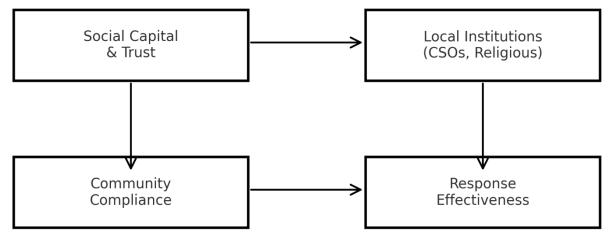


Figure 4 – Community Trust & Response Effectiveness

Summary of Cross-National Patterns

Across countries, the findings reveal that:

- Preparedness plans are often symbolically important but operationally weak.
- Governance quality and inter-agency coordination significantly shape preparedness outcomes.
- Surveillance disparities persist between digitally advanced and resource-limited systems.
- Adaptive capacity—not just formal readiness—determines real-world response effectiveness.
- Community engagement, trust, and equity are decisive in shaping outbreak control success.

These patterns collectively suggest that effective outbreak preparedness requires not only technical capacity but also political coherence, community partnership, and system-wide adaptability.

Table 2: Governance and Institutional Preparedness: Cross-National Themes Identified

Theme / Sub-theme	Key Findings from Data	Representative Participant Excerpts
Preparedness as	National plans exist but lack	"The plan looks comprehensive, but
Documented but	clear operational pathways;	departments were unsure about their
Weakly	implementation roles often	exact responsibilities." — Public
Operationalised	unclear.	Health Official, Country A
Political Influence and	Political delays, inter-	"Approval processes took too long
Crisis Governance	ministerial conflict, and	because every agency wanted to
	bureaucratic negotiations	negotiate authority." —
	slowed outbreak response.	Epidemiologist, Country B
Coordination and	Leadership styles and inter-	"We needed unified command, but
Leadership Gaps	agency communication	decision-making was scattered across
_	significantly affected decision-	ministries." — Emergency Director,
	making speed.	Country D

Description

Table 2 provides a thematic summary of governance and institutional preparedness patterns identified across the participating countries. The table highlights how preparedness often exists as a formal commitment documented in national policies but remains weakly operationalised in real-world implementation. Participants commonly reported confusion about roles and responsibilities during outbreaks, revealing gaps between written plans and operational readiness. The table also captures how political influence and bureaucratic negotiations slowed emergency responses, demonstrating that



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governance structures—not only public health capacities—play an instrumental role in shaping outcomes. Additionally, leadership consistency and inter-agency coordination emerged as determinants of decision-making speed and coherence. The excerpts included in the table illustrate the lived experiences of public health officials and emergency directors, emphasising the need for clearer authority lines, stronger crisis governance mechanisms, and more agile decision-making processes.

Table 3: Surveillance and Information System Disparities Across Countries

	i illioilliation system Disparities Acros	
Theme / Sub-theme	Findings from Interviews &	Illustrative Quotes
	Document Analysis	
Digital vs. Manual Surveillance Systems	Some countries used integrated digital reporting systems; others relied on manual, delayed data flows.	"Rural clinics still phoned in daily reports, leading to data lags." — Surveillance Officer, Country C
Data Transparency and Risk Communication	Lack of transparent and consistent public updates weakened trust in official responses.	"People lost trust because numbers kept changing without explanation." — Community Representative, Country D
Information Flow Bottlenecks	Delays occurred between local, district, and national levels; incompatible reporting formats caused inconsistencies.	"Our national dashboard was always 48 hours behind reality." — Health Data Analyst, Country E

Description

Table 3 outlines disparities in surveillance and information systems across countries and shows how these differences influenced outbreak management. The findings reveal that technologically advanced surveillance platforms enabled real-time data capture, rapid case detection, and more effective risk communication, whereas manual or hybrid systems led to significant delays. Bottlenecks in information flow—particularly from local to national levels—compromised timely decision-making. The table also highlights concerns regarding transparency, as inconsistent or unexplained updates contributed to public mistrust. Participant excerpts illustrate how data lags, incompatible reporting formats, and unclear communication strategies undermined public confidence and operational efficiency. Overall, the table underscores that surveillance quality is not solely a technical issue but is embedded in governance structures, communication practices, and the broader socio-political environment.

Table 4. Community Engagement Trust and Equity in Outhwell Despense

Table 4: Community Engagement, Trust and Equity in Outbreak Response		
Theme / Sub-theme	Cross-National Observations	Supporting Participant Excerpts
Role of Trust and	Communities with strong trust in	"We trusted our local volunteers more
Social Capital	health workers and local	than official announcements." —
	institutions had higher response	Focus Group Participant, Country G
	compliance.	
Equity and	Migrants, rural communities, and	"Our community wasn't included in
Inclusion of	informal workers often excluded	planning, so we didn't know where to
Marginalised	from preparedness plans.	get help." — NGO Worker, Country H
Groups		
Local Institutions as	Religious centres, charities, and	"The mosque volunteers reached us
First Responders	local organisations filled gaps	before the government teams." —
	where government response was	Community Elder, Country I
	delayed.	

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Description

Table 4 presents the key themes related to community engagement, trust, and equity that emerged from the qualitative data. Findings indicate that the level of trust between communities and health systems significantly shaped compliance with public health measures, highlighting trust as a critical determinant of response effectiveness. Marginalised groups—including migrants, low-income workers, and rural populations—were often excluded from preparedness planning, resulting in limited access to timely information and essential services. The table also emphasises the vital role that local institutions, such as religious organisations, civil society groups, and volunteer networks, played in filling governance gaps, particularly where government responses were delayed. Participant excerpts vividly illustrate how social capital and local leadership influence outbreak control at the grassroots level. Overall, the description highlights community engagement as a core driver of equitable and effective emergency response strategies.

DISCUSSION

Interpretation of Results

The results of this cross-national qualitative study reveal that public health preparedness for emerging infectious diseases is shaped not only by technical capacities but also by governance quality, sociopolitical dynamics, institutional coherence, and community-level relationships. The themes emerging from interviews, focus groups, and document analysis show that preparedness plans often exist as formal documents with limited operational clarity, leading to inconsistent implementation during crises. Political contestation, fragmented leadership, and bureaucratic delays further disrupted coordinated action across sectors, highlighting the critical role of governance structures in shaping response effectiveness.

Surveillance disparities were also central to the findings. Countries with robust digital systems benefited from real-time data, enabling proactive interventions, while those with manual or hybrid systems experienced lags that weakened situational awareness. Furthermore, transparency and consistency in communicating public health data shaped public trust, illustrating that information systems are intertwined with social dynamics and political legitimacy.

The results also underscore that adaptive capacity—rather than formal preparedness scores—determined real-world performance. Countries that regularly updated protocols, mobilised multi-sectoral partnerships, and empowered local authorities responded more effectively than those with rigid, centralised approaches. Finally, community engagement emerged as a decisive but often underutilised dimension of preparedness. Trust, equity, and local institutions strongly influenced compliance and dissemination of public health messages, revealing that community-level factors can either reinforce or undermine national response efforts.

Linkage with Existing Literature

The study's findings align with existing research that critiques the limitations of quantitative preparedness indices, such as the Global Health Security Index. Consistent with previous studies, the results indicate that high index scores do not reliably predict actual performance in crises, suggesting a disconnect between documented capacities and functional readiness. Literature documenting the COVID-19 experience similarly highlights that countries with advanced health systems underperformed due to political fragmentation, delayed decision-making, and public mistrust, reinforcing the importance of governance quality and adaptive leadership.



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The emphasis on surveillance disparities also resonates with global findings showing that digital infrastructure significantly influences outbreak detection and risk communication. Studies in low- and middle-income countries have previously shown that hybrid systems relying on manual reporting create bottlenecks and reduce the speed of response, which this study further corroborates.

Community engagement findings strongly echo prior research demonstrating that trust, local leadership, and culturally embedded communication channels improve public compliance and social mobilisation. This study extends such literature by showing that community structures do not simply support national efforts—they often become first responders in contexts where government action is delayed or insufficient.

The findings also confirm theoretical work on health system resilience, which highlights adaptive capacity as a cornerstone of effective response. However, while resilience theory acknowledges governance and social factors, this study demonstrates that these are not peripheral components—they are central mechanisms shaping preparedness outcomes across countries.

Implications for Theory and Practice

Implications for Theory

The findings contribute to public health preparedness theory by reinforcing the need for integrative, systems-based frameworks that incorporate governance, equity, trust, and social capital. Existing models often emphasise technical capacities (e.g., surveillance, laboratories, workforce), but this study shows that these capacities are deeply interdependent with political structures and community dynamics.

The results also extend resilience theory by highlighting that transformation—not merely absorption and adaptation—is necessary for sustainable preparedness. Countries that revised protocols, decentralised authority, and engaged community actors performed better, suggesting that resilience must be conceptualised as a long-term structural process rather than an emergency-time adaptation.

Implications for Practice

Practically, the findings underscore the need for governments to:

- Develop preparedness plans with clear operational roles, rapid decision pathways, and interagency coordination protocols.
- Strengthen surveillance by integrating digital systems, standardising reporting formats, and ensuring data transparency.
- Enhance adaptive decision-making by empowering subnational authorities, promoting flexible protocols, and institutionalising real-time learning.
- Embed community engagement strategies within preparedness plans, including partnerships with religious institutions, civil society groups, and local health volunteers.
- Address equity gaps by ensuring that marginalised communities are included in planning, communication, and resource distribution.

For international organisations, the findings suggest that global health security frameworks should place greater emphasis on contextual realities, governance quality, and community empowerment instead of relying primarily on checklist-style capacity metrics.



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New Insights

This study introduces several new insights into cross-national public health preparedness:

- 1. **Preparedness plans function as political artefacts as much as operational tools.** Countries may have extensive documentation but weak implementation because plans serve symbolic or compliance purposes rather than guiding real-time action.
- 2. Surveillance systems are not only technical infrastructures but social and political systems. How data are produced, shared, and communicated is influenced by trust, transparency, and inter-agency relationships.
- 3. Community institutions frequently act as parallel governance structures in crises. These actors often respond faster and more effectively than formal agencies, especially in contexts of low trust or limited state capacity.
- 4. Adaptive capacity is the strongest predictor of effective response. Flexibility, improvisation, decentralised authority, and iterative learning proved more important than formal measures of preparedness.
- 5. **Equity must be seen as a core preparedness capability.** Excluding marginalised groups not only creates health risks but also weakens overall system resilience by enabling uncontained transmission pockets.

These insights challenge traditional preparedness paradigms and call for a shift toward relational, governance-oriented, and community-centred models of public health emergency planning.

CONCLUSION AND RECOMMENDATIONS

Conclusion

This cross-national qualitative study examined how countries design, interpret, and operationalise public health preparedness plans and emergency response strategies for emerging infectious diseases. The findings reveal that preparedness is a multidimensional, socially embedded process shaped by governance arrangements, institutional capacities, surveillance systems, community dynamics, and political environments. While most countries possess formal preparedness documents, these plans often lack operational clarity, resulting in fragmented implementation during crises. The study highlights that functional readiness—rather than the existence of a plan—is the true measure of preparedness.

The disparity in surveillance and information systems emerged as a defining feature of outbreak response. Countries with integrated digital infrastructures demonstrated greater agility in risk detection, communication, and intervention planning, while resource-constrained nations struggled with delays created by manual or hybrid reporting systems. Transparency and consistency in data dissemination also influenced public trust, illustrating that surveillance is not merely a technical capacity but a relational practice embedded within governance systems.

The findings underscore the importance of adaptive capacity as a central determinant of effective national response. Countries that embraced dynamic decision-making, continuous protocol updates, cross-sector coordination, and decentralised authority managed outbreaks more effectively than those reliant on rigid structures. Additionally, community engagement surfaced as a critical but often overlooked dimension of preparedness, as trust, social capital, and local institutions played pivotal roles in shaping compliance and outreach.



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Overall, the study concludes that effective public health preparedness requires more than technical investments; it demands governance coherence, institutional flexibility, community partnership, and equitable approaches that acknowledge diverse social realities. Preparedness is ultimately a societal function, not solely a health system responsibility.

Recommendations

Based on the findings and their implications, the following recommendations are proposed for policymakers, public health agencies, international organisations, and researchers.

1. Strengthen Governance and Clarify Operational Roles

- National preparedness plans should include clear, enforceable operational protocols outlining responsibilities, decision-making chains, and inter-agency coordination mechanisms.
- Establish crisis governance structures that allow rapid, centralised decision-making while maintaining coordination across sectors.
- Reduce bureaucratic bottlenecks by integrating emergency activation triggers and predefined authority pathways.

2. Enhance Surveillance and Information Systems

- Invest in integrated digital surveillance platforms that allow real-time case reporting, data visualisation, and predictive modelling.
- Standardise reporting formats across local, district, and national levels to reduce data inconsistencies.
- Improve data transparency through consistent, evidence-based communication strategies to maintain public trust.
- Build capacity for risk communication that is culturally appropriate and adapted to local information ecosystems.

3. Advance Adaptive and Flexible Response Capacities

- Create mechanisms for rapid protocol revision during outbreaks, allowing health systems to respond to evolving evidence.
- Empower subnational authorities and frontline institutions with decision-making autonomy and resources to act quickly in emergencies.
- Institutionalise after-action reviews and real-time learning systems to inform continuous improvement.

4. Institutionalise Community Engagement as a Core Preparedness Strategy

- Integrate community organisations, religious institutions, civil society groups, and local leaders into national preparedness planning processes.
- Develop community-led risk communication strategies tailored to local languages, norms, and trust networks.
- Ensure that preparedness messages are accessible, inclusive, and culturally relevant to build public trust and compliance.
- Support community health worker networks as essential connectors between health systems and populations.



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5. Address Equity and Inclusion in Preparedness Planning

- Identify and involve marginalised groups—such as migrants, informal workers, rural populations, and ethnic minorities—in preparedness planning and decision-making.
- Develop targeted communication and service delivery strategies to ensure equitable access to information, testing, vaccination, and treatment.
- Allocate resources to underserved regions to reduce structural disparities that undermine national resilience.

6. Strengthen Global and Regional Collaboration

- Encourage cross-national exchange of best practices, lessons learned, and innovations through regional public health networks.
- Advocate for global preparedness frameworks that recognise contextual differences rather than applying one-size-fits-all metrics.
- Improve international support for low- and middle-income countries, focusing on surveillance, laboratory capacity, and technical training.

7. Expand Research on Governance, Trust, and Community Dynamics

- Future research should explore how political systems, cultural norms, misinformation dynamics, and public trust influence outbreak response.
- Comparative qualitative research should be expanded to cover under-represented regions where community structures play a primary governance role.
- Build interdisciplinary research teams integrating public health, sociology, political science, and anthropology to capture the full complexity of preparedness.

Final Synthesis

The findings of this study show that effective preparedness is not merely a technical achievement but a holistic societal capacity built through governance leadership, institutional readiness, community engagement, and equitable resource distribution. Strengthening cross-national understanding of these interconnected elements is essential for building resilient health systems capable of confronting future infectious disease threats. By implementing the recommendations presented here, governments and global health actors can move toward more adaptive, inclusive, and sustainable preparedness frameworks that better protect populations from emerging public health emergencies.

CONFLICT OF INTEREST

The authors declare that they have no conflict of interest.

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