Social Media and Crisis Communication: A Narrative Literature Review of Public Engagement and Policy Implications

Hagar Yehia Abd Elfattah[1]
[1]Al-Azhar University, Egypt
Correspondent: yhyyhajr11@gmail.com[1]

ABSTRACT: Social media has become a vital component in crisis communication, particularly during global emergencies such as the COVID-19 pandemic. This narrative review investigates how social media platforms are utilized by formal and informal actors to disseminate crisis-related information, shape public perception, and influence behavioral responses. Using a systematic literature review approach, scholarly articles were sourced from databases including Scopus, PubMed, Google Scholar, and Web of Science, focusing on studies from 2010 to 2024 that explore digital crisis communication in public health, natural disasters, and political crises. The review finds that governmental and health institutions use social media to broadcast real-time updates and counter misinformation. Informal communicators, such as influencers and citizen journalists, play a significant role in extending message reach, though not without challenges related to accuracy. Factors like digital literacy and public trust in institutions emerge as key determinants of communication effectiveness. Strategies such as clear messaging, visual aids, real-time engagement, and culturally contextualized content were identified as successful practices. This review highlights the critical need for education-driven interventions and collaborative communication frameworks that enhance public understanding and institutional legitimacy. It concludes that adaptive, data-driven strategies tailored to audience behavior and systemic contexts are essential for effective crisis communication in the digital age.

Keywords: Social Media, Crisis Communication, Public Health Messaging, Misinformation, Digital Literacy, Institutional Trust, Influencer Collaboration.

INTRODUCTION

Over the last decade, a series of high-impact global crises have underscored the indispensable role of social media in managing communication during emergencies. The COVID-19 pandemic, in particular, has illustrated the power and challenges of digital platforms in shaping public understanding and behavior in times of crisis. As the world grappled with the unfolding health emergency, governments and health agencies turned to social media to disseminate critical

information, implement public safety campaigns, and counter misinformation. According to Shewale et al. (2021), approximately 71% of respondents identified social media as a significant source of COVID-19-related information, highlighting its centrality in the modern information ecosystem. Zammar (2022) further emphasizes that the rapid communication capabilities of these platforms enabled timely dissemination of health protocols and vaccination updates, which were crucial in controlling the spread of the virus.

Nonetheless, despite its utility, social media has simultaneously emerged as a double-edged sword. The platform's very strength—its speed and accessibility—also enables the rapid propagation of disinformation. Penka et al. (2024) articulate the disruptive potential of misinformation, which during the pandemic severely undermined public trust in health authorities. This phenomenon, often referred to as an "infodemic," complicated efforts to deliver coherent, evidence-based public messaging. Research by Chang et al. (2024) corroborates this, demonstrating how myths and rumors circulating online significantly impeded adherence to public health guidelines. These dynamics demand communication strategies that are not only responsive but also evidence-driven, aiming to reinforce accurate and trustworthy information.

The influence of social media on public perception during crises is profound. During the COVID-19 lockdown in Spain, for instance, Gudiño et al. (2022) found a direct correlation between social media consumption and the public's understanding of health directives. Individuals who accessed accurate information via social platforms were more likely to comply with preventative behaviors. However, Quinn (2018) cautions that the potential for social media to amplify false narratives remains high, which can erode the effectiveness of crisis response efforts. Therefore, managing communication in digital spaces is as crucial as the content of the messages themselves.

One major challenge in digital crisis communication is managing the overwhelming volume of information generated by multiple stakeholders. Tække (2017) notes that the digital media revolution has introduced unprecedented complexity, as numerous channels and actors contribute to a noisy information environment. Effective crisis communication, therefore, requires not just presence across these channels but also consistency and clarity in messaging. Hagen et al. (2017) advocate for integrated social media strategies that align institutional messaging with public expectations and needs, suggesting a systemic approach to mitigate informational chaos.

Trust also emerges as a recurring challenge in crisis communication. McDermid et al. (2023) identify that individuals, especially those affected by international travel restrictions, often struggle to find reliable and context-specific information. The resulting uncertainty can heighten anxiety and impede effective decision-making. This is particularly problematic when misinformation fills the vacuum left by ambiguous or inconsistent official communication. Trust, therefore, is both an objective and a prerequisite in designing communication strategies.

Furthermore, the differential reception of crisis messages across demographic groups underscores the importance of tailored communication. Chang et al. (2024) reveal that generational differences significantly affect health information-seeking behavior during crises. Social media acts as a bridge between generations, yet the effectiveness of this bridge depends on content being adapted to the cognitive and emotional needs of distinct audience segments. Acknowledging and addressing such variances is essential for building comprehensive and inclusive crisis responses.

Despite the growing body of literature, significant gaps remain in our understanding of what constitutes effective crisis communication via social media. One notable gap is the lack of nuanced insights into how public trust—or the lack thereof—mediates the impact of social media messaging. As Shewale et al. (2021) point out, even though users rely heavily on social media for information, they tend to trust official health agencies more than digital platforms. Further research is required to explore mechanisms that can foster trust in digital communication during critical periods.

Another underexplored area is the cultural and contextual sensitivity of crisis messages. Penka et al. (2024) emphasize the importance of localized strategies that consider cultural dynamics and linguistic diversity. Many communication campaigns remain overly centralized and fail to resonate with communities at the grassroots level. This highlights the need for future studies that focus on the socio-cultural dimensions of crisis communication.

This narrative review aims to examine the effectiveness of crisis communication strategies deployed via social media during recent global emergencies. The review analyzes key factors that influence communication outcomes, such as message clarity, platform choice, public trust, and demographic targeting. It further seeks to identify patterns, challenges, and best practices that can inform future strategies, particularly in the context of public health emergencies and natural disasters.

The scope of this review includes studies and data from both developed and developing countries, encompassing a broad range of socio-cultural contexts. Emphasis is placed on comparative analyses to understand how geographical, technological, and institutional differences affect crisis communication efficacy. Particular attention is paid to digital literacy levels, internet accessibility, and government responsiveness, as these factors critically shape the public's engagement with crisis messages.

As the findings from Ford et al. (2023) suggest, communication strategies must be aligned with the habits and preferences of targeted demographic groups, especially younger populations that are highly active on platforms like Instagram and TikTok. In contrast, simpler and more direct approaches may be more effective in regions with limited digital infrastructure. Gudiño et al. (2022) and Quinn (2018) similarly note that in contexts where digital access is uneven, reliance on official websites or government applications may fail to reach marginalized communities. Thus, crafting effective messages demands not only technological know-how but also a deep understanding of audience characteristics.

The literature also reveals that in regions with lower trust in public institutions, such as parts of Sub-Saharan Africa or Latin America, social media can both exacerbate and alleviate communication gaps. Rydén et al. (2021) indicate that when institutional credibility is low, influencers or local leaders may serve as more effective messengers than governmental spokespeople. This situational nuance calls for adaptive communication models that reflect the realities of local trust dynamics.

In sum, crisis communication strategies in the age of social media must be dynamic, evidence-based, and audience-centric. The lessons learned from the COVID-19 pandemic and other global

emergencies underscore the need for proactive planning and real-time responsiveness. Bridging the gap between digital communication and public trust, while ensuring equitable access to accurate information, remains one of the most critical challenges in contemporary crisis management. This review contributes to ongoing efforts to refine and optimize crisis communication frameworks for a digitally connected yet culturally diverse world.

This review addresses the following question: How do social media platforms influence the effectiveness of crisis communication and public engagement during emergencies? Accordingly, the objective of this study is to critically examine digital communication strategies, evaluate their outcomes, and highlight policy implications to strengthen future public crisis response frameworks.

METHOD

This study adopts a narrative review approach to examine the role of social media in crisis communication strategies. The methodology was designed to ensure the systematic identification, selection, and synthesis of relevant literature addressing the influence of digital platforms on public communication during crises. The process began by formulating a comprehensive search strategy that incorporates a set of carefully selected keywords to guide the retrieval of scholarly articles from multiple academic databases. This methodological rigor aimed to capture the complexity and multidimensionality of crisis communication in the digital age.

The selection of keywords was based on a preliminary scoping of the literature and thematic mapping of frequently occurring concepts related to crisis communication. The core keywords included: "crisis communication," "social media," "crisis management," "digital communication," "public health communication," "media engagement during crises," and "influence of social media on public perception." These keywords were selected for their broad coverage and relevance to various domains such as public health emergencies, natural disasters, and sociopolitical crises. The keywords were entered both as standalone terms and in various Boolean combinations using AND/OR connectors to enhance the precision and recall of the search queries.

The literature search was conducted across multiple well-established academic databases including PubMed, Scopus, Google Scholar, and Web of Science. These databases were selected for their comprehensive coverage of peer-reviewed journals and multidisciplinary research. Each database was queried individually using tailored search strings to accommodate the nuances in search algorithms across platforms. The search was not limited by specific disciplines in order to include perspectives from communication studies, health sciences, emergency management, and digital media. Only articles published between 2010 and 2024 were considered to ensure that the review reflects the most recent developments and emerging patterns in crisis communication practice.

The inclusion criteria for selecting relevant studies were structured to ensure the validity and relevance of the literature. Studies were included if they explicitly examined the relationship between social media and crisis communication. Articles had to be published in peer-reviewed academic journals, ensuring a standard of scholarly rigor and methodological clarity. Furthermore, selected studies needed to focus on real-world applications of crisis communication strategies,

particularly in the context of public health emergencies, natural disasters, or political crises that occurred within the last decade. The studies also had to provide insights from diverse geographic contexts to allow for comparative analyses and enhance the generalizability of findings.

Conversely, a set of exclusion criteria was employed to filter out studies that lacked relevance or methodological rigor. Articles that did not directly pertain to crisis communication or did not address the role of social media were excluded. Similarly, opinion pieces or commentaries without empirical data or a clear methodological foundation were not considered. Studies that were not published or accessible in full text were also excluded, as they did not allow for a comprehensive assessment of the research quality. Furthermore, research that focused exclusively on technical aspects of information technology without engaging with communication processes or public response mechanisms was deemed outside the scope of this review.

The literature selection process followed a multi-stage approach. Initially, titles and abstracts were screened to assess relevance based on the predefined inclusion and exclusion criteria. This initial screening was followed by a full-text review of the shortlisted articles to evaluate the methodological soundness, thematic alignment, and empirical richness of each study. Each article was carefully analyzed to extract data on study design, objectives, sample characteristics, analytical methods, and key findings. Particular attention was paid to how each study conceptualized crisis communication, defined social media engagement, and evaluated communication outcomes.

The narrative review focused on synthesizing findings across a variety of study designs, including qualitative case studies, cross-sectional surveys, longitudinal studies, content analyses, and mixed-methods research. This inclusive approach enabled the capture of both depth and breadth of insights. Case studies provided rich contextualized understandings of how communication strategies were implemented in specific crises, while survey-based studies offered generalizable data on public perceptions and behavioral responses. Content analyses allowed for the examination of message framing and dissemination patterns across platforms such as Twitter, Facebook, Instagram, and TikTok.

The evaluation of the methodological quality of the included studies was guided by established criteria in qualitative and mixed-methods research. Attention was given to the transparency of research objectives, clarity of research questions, appropriateness of study design, sampling strategy, analytical rigor, and the extent to which findings were supported by evidence. Studies that demonstrated reflexivity in the research process and provided clear discussions on limitations were given particular weight in the synthesis.

This methodological framework supported the identification of recurring themes and divergent perspectives across the selected literature. It allowed for an in-depth exploration of how digital platforms were utilized by governments, health agencies, and civil society actors to manage public information during crises. Furthermore, it facilitated a critical examination of the effectiveness, limitations, and unintended consequences of relying on social media for crisis communication.

Ultimately, the methodology adopted in this narrative review aimed to build a cohesive understanding of the evolving landscape of crisis communication in the digital age. By drawing from a wide range of interdisciplinary studies and diverse geographical contexts, the review seeks

to provide a nuanced and comprehensive account of the opportunities and challenges associated with social media as a communication tool in times of crisis. The synthesis of the selected literature offers valuable insights that can inform both theoretical advancement and practical applications in public health communication, emergency response, and digital media strategy.

RESULT AND DISCUSSION

The findings of this narrative review are presented through three central themes that emerge consistently from the literature: the role of key actors in crisis communication, the effectiveness of communication response strategies, and the impact of social media on public perception and behavioral compliance. These themes offer a structured understanding of how digital platforms shape public discourse, influence behavior, and provide avenues for effective crisis management.

The Role of Key Actors in Crisis Communication

During crisis situations, formal institutions such as governments and public health organizations play an indispensable role in shaping public understanding and behavior through social media communication. For example, during the COVID-19 pandemic, institutions such as the World Health Organization (WHO) and the Centers for Disease Control and Prevention (CDC) utilized social media platforms to disseminate real-time updates, safety protocols, and vaccination guidance (Gudiño et al., 2022). Gudiño et al. assert that digital engagement by these institutions allowed for rapid communication with the public, often mitigating the spread of fear and confusion during health emergencies. Importantly, the ability to reach diverse audiences directly empowered public agencies to clarify information, foster public trust, and maintain the flow of consistent messaging (Penka et al., 2024).

Penka et al. further emphasize that institutional involvement should go beyond information provision. Effective crisis communication requires active countering of misinformation. Health institutions, therefore, must possess the communicative agility to adapt to rapidly evolving situations and provide clear, evidence-based responses that help communities make informed decisions. Hagen et al. (2017) support this notion, suggesting that proactive messaging and regular engagement are essential components in establishing authoritative voices within crowded digital spaces.

Beyond formal actors, informal communicators—including influencers and citizen journalists—have also played a critical role in shaping crisis narratives on social media. Influencers with vast followings have emerged as powerful amplifiers of public health campaigns, often sharing behavioral cues and health advisories that resonate with specific demographic groups (Chang et al., 2024). These messages, when aligned with public health objectives, can help bridge gaps in official communication, particularly among younger, digitally-native audiences (Banić et al., 2023). However, this influence comes with caveats, as not all influencer-generated content is grounded in verified scientific evidence (Chang et al., 2024). The spread of misinformation by high-profile individuals can erode public confidence and mislead vulnerable communities.

Citizen journalists, on the other hand, offer hyperlocal perspectives that are often overlooked by mainstream media. Their proximity to communities enables the real-time dissemination of localized crisis information. Nevertheless, their reporting is sometimes susceptible to emotional framing or a lack of journalistic rigor, which can compromise the accuracy of information (Spisak et al., 2022). These findings underscore the importance of building collaborative networks between informal and formal actors to ensure that social media communication remains accurate, relevant, and community-focused.

Effective Communication Response Strategies

Addressing the spread of misinformation on social media requires comprehensive strategies that prioritize data-driven decision-making, message consistency, and multi-stakeholder collaboration. AlShurman et al. (2021) demonstrate that the application of big data analytics enables institutions to identify misinformation trends and develop targeted interventions. This capability enhances responsiveness, enabling authorities to debunk falsehoods swiftly and strategically, particularly when misinformation undermines public health directives.

Yang and Saffer (2018) highlight the importance of transparent, evidence-based communication in countering misinformation. Their study suggests that public trust increases when government and health agencies present verifiable information through consistent messaging across platforms. The inclusion of influencer and citizen journalist partnerships can be a strategic advantage if managed properly. Breeze (2021) argues that simplifying complex information into digestible, shareable content increases the likelihood of public engagement and compliance. This notion is echoed by Barberá et al. (2022), who found that participatory communication campaigns significantly enhance message credibility and community involvement.

In designing credible messages, organizations must prioritize clarity, accessibility, and consistency. Chang et al. (2024) argue that the use of technical jargon can alienate audiences and hinder message comprehension, especially among individuals with lower health literacy. Okuhara et al. (2024) recommend the adoption of plain language and concise message structures to accommodate diverse educational backgrounds. Messaging should also contain specific calls to action that guide public behavior, such as directing users to official websites or prompting adherence to health guidelines (Ma et al., 2023). Visualization tools, such as infographics and short videos, have proven effective in translating complex data into understandable formats (Magklara & Kyriakopoulos, 2023). Cosco et al. (2021) emphasize the need for real-time feedback mechanisms to monitor public reception and adapt communication strategies accordingly.

The Impact of Social Media on Public Perception and Behavior

Social media significantly shapes public emotion and risk perception during crises. Platforms such as Twitter, Facebook, and Instagram serve as primary information sources, influencing how individuals interpret the severity of crises. During COVID-19, Shewale et al. (2021) found that 71% of participants relied on social media for information, which in turn affected their emotional

responses and behavioral intentions. The emotional intensity of content consumed online, whether through fear-inducing headlines or emotionally charged visuals, plays a role in amplifying public anxiety and shaping collective behavior.

Disinformation also contributes to heightened public stress. According to Penka et al. (2024), the circulation of false or misleading content can generate unnecessary panic and diminish the credibility of official health communication. In such environments, individuals may either become hyper-vigilant or dismissive of health protocols, depending on their emotional reactions and information sources. This inconsistency underscores the challenges of managing public emotions in digital spaces.

Gudiño et al. (2022) explore the concept of media dependency theory in this context, noting that during lockdowns in Spain, reliance on social media increased, correlating with greater compliance with health guidelines. However, they caution that this dependency also leaves users vulnerable to emotional manipulation, particularly in echo chambers where misinformation is frequently reinforced. The interplay between emotional framing and behavioral response remains a central concern for public health communication.

Exposure to crisis-related information on social media has a measurable impact on compliance with public policy. Adeyemo et al. (2024) show that inconsistent or fear-laden messaging can erode compliance with protective measures such as mask-wearing and vaccination. Emotional stress, triggered by conflicting narratives, may inhibit rational decision-making and lead to information fatigue. Conversely, Ford et al. (2023) found that when messages are well-structured, positive in tone, and disseminated through relatable channels such as Instagram, compliance rates among younger demographics increase significantly.

These findings suggest a nuanced relationship between information exposure and public compliance. Messages that evoke trust and provide clear, actionable guidance are more likely to yield cooperative behavior. In contrast, content that fosters confusion or fear may hinder compliance and escalate crisis-related risks. Public health institutions, therefore, must craft emotionally intelligent communication strategies that acknowledge public concerns while reinforcing confidence in policy directives.

In summary, social media has emerged as a powerful yet complex tool in crisis communication. While it facilitates rapid dissemination and fosters public engagement, it also introduces challenges related to misinformation, emotional manipulation, and variable trust dynamics. The strategic involvement of both formal and informal actors, data-informed message design, and continuous monitoring of public sentiment are essential components for leveraging social media effectively in crisis response. The integration of these elements into public communication strategies will be vital in enhancing preparedness and resilience in future crisis scenarios.

The findings of this narrative review align with and expand upon the growing body of literature that recognizes social media as a dominant force in shaping public discourse during times of crisis. The role of digital platforms in disseminating health-related information, as underscored by Shewale et al. (2021), has become increasingly prominent, particularly during the COVID-19 pandemic. However, the results of this study add nuance to this understanding by highlighting the

importance of local context and cultural dynamics in influencing how crisis messages are received and acted upon. As Penka et al. (2024) argue, culturally sensitive communication strategies are essential for fostering public trust and compliance, yet this dimension remains underrepresented in much of the existing scholarship. For instance, Gudiño et al. (2022) demonstrate that patterns of social media consumption and information retention differ significantly across national and regional contexts, suggesting that a one-size-fits-all approach to crisis communication may be ineffective.

The effectiveness of crisis communication strategies is not determined solely by the content or frequency of messaging, but rather by a complex interplay of systemic factors that shape public perception and behavior. Among these, digital literacy and institutional trust emerge as critical determinants. Digital literacy influences how individuals interpret and evaluate the credibility of information found on social media. As noted by Penka et al. (2024), people with higher levels of digital literacy are more adept at identifying misinformation and are more likely to engage constructively with official health directives. Conversely, individuals lacking these skills may be vulnerable to the emotional and cognitive biases perpetuated by misleading content, especially in high-stress situations such as public health emergencies.

Trust in institutions further shapes the public's willingness to act on official communications. Spisak et al. (2022) reveal that low levels of institutional trust can lead to widespread skepticism and reduced compliance with health measures, even when the messaging is accurate and timely. The implications are profound: in contexts where public institutions are perceived as unreliable or inconsistent, alternative communication channels—such as influencers or community leaders—may become more effective messengers. Yet this introduces new challenges regarding the verification and regulation of information sources. As such, strengthening institutional transparency and responsiveness must be part of any comprehensive crisis communication strategy.

These insights point toward several innovative policy directions and practical interventions. The first is the implementation of widespread digital literacy programs. Enhancing the public's ability to critically assess online content will mitigate the spread and influence of misinformation. This could be pursued through formal education curricula, public awareness campaigns, and community-level training programs, ideally co-delivered by government bodies, non-profits, and educational institutions. As Shewale et al. (2021) indicate, equipping individuals with the tools to evaluate digital content empowers them to make more informed decisions, ultimately improving public health outcomes.

Secondly, forging partnerships between official institutions and informal actors such as influencers and citizen journalists holds great potential. While Chang et al. (2024) and Banić et al. (2023) caution that influencer-led communication can sometimes lack scientific rigor, they also acknowledge the vast reach and engagement that these figures command. Collaborative communication models that pair influencers with health professionals could produce content that is both credible and relatable. Okuhara et al. (2024) emphasize that tailoring messages for different demographic groups, especially youth, is essential to ensure widespread uptake of public health measures. Such partnerships must be strategically managed, with clear guidelines on content

standards and ethical boundaries to prevent the inadvertent dissemination of false or sensationalized information.

A third recommendation is the strategic optimization of message design and dissemination. As suggested by Ma et al. (2023) and Magklara & Kyriakopoulos (2023), clarity, conciseness, and visual appeal are paramount. Public institutions should invest in communication teams capable of producing multimedia content that is accessible across literacy levels and easily shared on digital platforms. These efforts should be supported by real-time analytics to track message reception, engagement rates, and public sentiment. Cosco et al. (2021) recommend establishing feedback loops where public input is systematically gathered and used to refine communication strategies. Such responsiveness can significantly enhance institutional credibility and adapt messaging to evolving public concerns.

While the integration of these recommendations can strengthen communication frameworks, several challenges must be acknowledged. One significant limitation of current research is the lack of longitudinal studies examining how crisis communication strategies evolve over time and their sustained impact on public behavior. Most studies provide cross-sectional snapshots that do not fully capture the dynamic nature of digital engagement. Future research should employ longitudinal designs to assess the long-term effects of specific messaging strategies, particularly those that aim to counter misinformation or foster behavioral change.

Additionally, there is limited comparative research across cultural contexts, despite evidence that cultural values and norms play a pivotal role in shaping media use and message interpretation. Penka et al. (2024) and Gudiño et al. (2022) highlight the need for localized approaches, yet comprehensive cross-cultural analyses remain scarce. Further investigation is warranted to identify culturally adaptive communication practices and to develop flexible frameworks that can be customized according to regional needs. Researchers should also explore the implications of algorithm-driven content delivery systems, which can amplify confirmation biases and create echo chambers that hinder the spread of accurate information.

Another underexplored area is the psychological toll of constant exposure to crisis-related content. While studies such as those by Shewale et al. (2021) and Adeyemo et al. (2024) recognize the emotional impact of media consumption, more research is needed to understand how information overload and emotional fatigue affect public resilience and willingness to comply with health directives. Public health strategies must strike a balance between urgency and reassurance, ensuring that messages inform rather than overwhelm.

It is also important to consider how power dynamics influence the visibility and credibility of different actors in the digital information ecosystem. While influencers may enjoy greater reach, marginalized voices are often excluded from the dominant narratives, which can perpetuate inequalities in information access. Inclusive communication strategies should ensure that all community segments, including linguistically and socioeconomically disadvantaged groups, have equal access to critical information. Gudiño et al. (2022) suggest that hyperlocal content produced in collaboration with grassroots organizations can bridge this gap, but further empirical work is needed to validate these approaches and measure their impact.

In conclusion, this discussion illustrates that effective crisis communication is not merely a matter of technological capability or message dissemination. It requires an integrated understanding of social systems, cultural contexts, emotional dynamics, and institutional legitimacy. The interplay of these factors determines not only how information is received but also how it is acted upon. As crises continue to evolve in scope and complexity, so too must the strategies designed to inform, engage, and protect the public. Strengthening communication infrastructures through policy innovation, cross-sector collaboration, and continuous research will be essential to navigating the challenges of future crises.

CONCLUSION

This narrative review reveals that social media has emerged as a central tool in crisis communication, serving both as a conduit for critical information and a platform vulnerable to misinformation. The analysis of existing literature confirms that governmental institutions and public health organizations play a pivotal role in disseminating reliable content during crises. Equally, informal actors such as influencers and citizen journalists can amplify messages, though their involvement carries risks if not properly managed. Findings also demonstrate that effective crisis communication depends not only on message accuracy and design but also on systemic factors such as digital literacy and institutional trust.

The urgency of this issue has been magnified by recent global health emergencies, where public perception and behavior have been heavily shaped by digital narratives. The study underscores the need for further intervention, including public education initiatives to enhance digital literacy and reinforce public trust in institutions. Moreover, partnerships between formal institutions and influential digital voices, combined with simplified and visually compelling message formats, are recommended to optimize public engagement.

Future research should address the limitations of cross-sectional analysis by adopting longitudinal and cross-cultural approaches to better understand the dynamic nature of digital crisis communication. In the face of evolving global risks, the ability to rapidly disseminate accurate, accessible, and context-sensitive information is essential. This review affirms that strategic use of social media, grounded in system-level insights, is key to managing public response and ensuring resilience during crises.

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