



The Impact of Social Media on Public Health: A Review of the Evidence on Health Promotion, Disease Prevention, and Health Communication

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ABSTRACT

The rapid expansion of social media has transformed the landscape of public health practice, reshaping how health information is created, disseminated, and consumed. Once limited to traditional mass communication channels, public health now operates within dynamic digital ecosystems that enable real-time interaction, broad reach, and unprecedented public engagement. This review synthesizes the current body of evidence on the impact of social media on public health, with particular emphasis on health promotion, disease prevention, and health communication. Drawing on findings from recent empirical studies, reviews, and policy reports, the article examines how social media platforms are being leveraged to promote healthy behaviors, support behavior change, and foster social support across diverse populations. It further explores the role of social media in disease prevention and control, including its use in preventive health education, vaccination advocacy, screening programs, and digital disease surveillance during outbreaks and public health emergencies. The review also critically evaluates social media as a tool for health communication, highlighting its capacity for two-way engagement while addressing concerns related to information credibility, misinformation, privacy, and ethical challenges. Overall, the evidence suggests that social media holds significant potential to enhance public health outcomes through improved reach, accessibility, and timely communication. However, these benefits are accompanied by substantial risks that require careful governance, regulatory oversight, and capacity building among public health professionals. By providing a balanced and comprehensive assessment of both opportunities and challenges, this review offers valuable insights for researchers, practitioners, and policymakers seeking to effectively integrate social media into contemporary public health strategies.

Keywords: Social media, Public health, Health promotion, Disease prevention, Health communication, and Digital health.

Citation: Undebe Williams Begba, Moses Adondua Abah, Micheal Abimbola Oladosu, Ochuele Dominic Agida, Isioma Vanessa Oduah, Atenji Victor Rimam, Sowunmi Adedayo, Sarpong Kwadwo, and Onyemaobi Chinonye Perpetua (2026). The Impact of Social Media on Public Health: A Review of the Evidence on Health Promotion, Disease Prevention, and Health Communication.

Journal of e-Science Letters.

DOI: <https://doi.org/10.51470/eSL.2026.7.1.55>

Received: 13 October 2025

Revised: 15 November 2025

Accepted: 16 December 2025

Available: January 19 2026

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Introduction

The rapid rise of social media over the last decade has transformed how health information is accessed, interpreted, and shared, reshaping public health landscapes across the globe. Social media platforms such as Facebook, Instagram, Twitter (now X), YouTube, and TikTok provide unprecedented reach and immediacy for health messaging that traditional media could never match [1-3]. Research shows that social media can positively mediate public health awareness and behavioral changes, especially during crises such as the COVID-19 pandemic, by facilitating rapid information dissemination and enhancing targeted communication strategies [4]. However, the same immediacy and accessibility that make social media valuable also render it vulnerable to the spread of misinformation and disinformation, with serious consequences for health outcomes, risk perceptions, and public trust [5]. As public health actors increasingly integrate social media into health promotion and communication strategies, understanding its multifaceted impact has become critical for

both practice and research.

Evidence to date illustrates the dual role social media plays in health promotion and disease prevention. Systematic reviews reveal that social media content can effectively promote healthy behaviors, such as increased physical activity, improved diet, and enhanced mental health awareness when grounded in credible evidence and tailored messaging [6,7]. Simultaneously, widespread dissemination of low-quality or misleading health information can undermine preventive behaviors such as vaccination uptake, with exposure to misinformation correlating with higher levels of hesitancy and reduced engagement in preventive services [8]. These divergent outcomes underscore the influence of content source, platform characteristics, audience demographics, and algorithmic amplification on the effectiveness of social media interventions aimed at improving public health [9].

The role of social media in public health communication, particularly during emergencies, has been especially prominent during the COVID-19 pandemic. Platforms enabled public health authorities and community stakeholders to share guidelines, correct evolving scientific knowledge, and respond to public concerns in real time [10, 11]. At the same time, analyses of health misinformation trends reveal how false narratives related to virus origins, ineffective treatments, and misunderstandings of public health measures spread rapidly online, complicating mitigation efforts and contributing to confusion and risk misperception among vulnerable groups [12, 13]. These patterns highlight the need for effective health communication strategies that extend beyond message dissemination to include fact-checking mechanisms, digital literacy education, and audience engagement models that build resilience against misinformation.

Despite expanding literature on social media's influence on public health, notable gaps remain in synthesizing evidence across core thematic areas, including differential impacts by platform type, population subgroup, and health outcome. Emerging research suggests that socio-demographic factors, health literacy, and cultural contexts significantly shape how individuals interpret and act on health information obtained through social media, yet these nuances are often overlooked in broad reviews [14, 15]. Moreover, strategies for combating harmful content and misinformation are still evolving, indicating a need for systematic evaluation of interventions that can promote accurate, credible health messaging and mitigate digital harms [16, 17]. A clearer synthesis of evidence will offer a more comprehensive understanding of both opportunities and challenges attributed to social media in modern public health.

The purpose of this review is to examine the current evidence on the impact of social media on public health, focusing on three interconnected domains: health promotion, disease prevention, and health communication. This review aims to elucidate how social media platforms have been utilized to support the promotion of healthy behaviors, encourage disease prevention practices, and facilitate effective communication between public health authorities and the public. It will explore mechanisms through which social media influences behavior, including peer support and targeted messaging, as well as challenges such as misinformation, algorithmic biases, and disparities in access and literacy. By synthesizing research across diverse contexts and population groups, the review seeks to provide a balanced assessment of how social media contributes to or hinders public health objectives. Ultimately, the goal is to offer practical insights for researchers,

practitioners, and policymakers on leveraging social media for positive public health outcomes while addressing its inherent challenges.

Evolution of Social Media in Public Health Practice

The integration of social media into public health practice represents a major shift in how health agencies, professionals, and populations interact in the digital age. Early public health communication relied heavily on traditional mass media such as television, radio, and print to reach broad audiences with health messaging, preventive advice, and crisis information [18]. While these traditional channels were effective for broad dissemination, they were generally unidirectional, limiting opportunities for real-time engagement and feedback from the public [19]. The advent of social media transformed this landscape by enabling continuous, interactive communication between health authorities and individuals, effectively democratizing access to health information [20, 21]. This evolution has accelerated over the past decade, with public health organizations increasingly adopting platforms such as Facebook, Twitter (now X), Instagram, TikTok, and YouTube as core components of health communication strategies [22]. As illustrated in **Figure 1**, the evolution of social media in public health has progressed from traditional mass media to interactive digital platforms, highlighting key milestones in platform adoption, pandemic response, and integrated health communication strategies.

The initial adoption of social media in public health was characterized by experimentation and adaptation. Agencies used social platforms to broadcast health alerts, promote health campaigns, and respond to public inquiries, functions that previously would have required substantial time and resources [23]. For example, social media played an early role in vaccination campaigns, emergency preparedness drills, and community health promotion, demonstrating how platforms could amplify messaging and reach diverse audiences, including younger and harder-to-reach populations [24]. Studies from the early 2020s found that health departments with robust social media presence achieved higher levels of audience engagement, increased dissemination of preventive advice, and more efficient two-way communication than counterparts relying solely on traditional media [25]. The COVID-19 pandemic represents a watershed moment in the evolution of social media's role in public health. During the pandemic, social platforms were used by health authorities, researchers, and governments worldwide to share evolving scientific knowledge, disseminate guidelines, counteract misinformation, and monitor public sentiment [26]. The rapid, global spread of SARS-CoV-2 created urgent demand for real-time information, prompting public health institutions like the World Health Organization (WHO) and the U.S. Centers for Disease Control and Prevention (CDC) to integrate social media into their core communication strategies [27]. Social media became a critical tool for delivering updates on disease transmission, preventive measures, and vaccination rollout, demonstrating its capacity for scale, immediacy, and multi-modal content delivery [27].

However, the widespread use of social media during the pandemic also highlighted challenges in governance, misinformation management, and the need for strategic integration into public health infrastructure. The pandemic period saw both positive public health engagement and the rapid spread of harmful misinformation, leading to increased research interest in digital surveillance, algorithmic impacts on health discourse, and intervention strategies to improve

information quality [28, 29]. These developments signaled a maturing of the field, where public health practitioners increasingly recognize that successful social media use requires not only content dissemination but also audience understanding, credibility management, and partnership with platform developers and civil society [30]. Today, social media's role in public health continues to evolve from an auxiliary communication channel into a core strategic component of health promotion, disease prevention, emergency response, and community engagement. Platforms now support a wide array of functions, including tailored health messaging, interactive education modules, peer support networks, and data analytics for public sentiment and outbreak monitoring [31, 32]. As digital technologies advance and user expectations shift, the evolution of social media in public health reflects an ongoing transformation toward participatory, responsive, and data-informed health communication practices that extend beyond traditional boundaries.

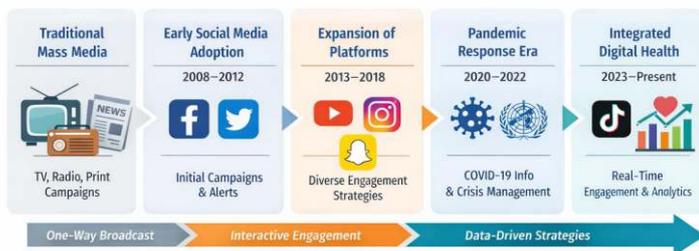


Figure 1. Milestones in the adoption of social media for public health. The figure shows the evolution of social media in public health, from traditional media to modern digital platforms. It highlights key milestones, including early social media adoption, platform expansion, pandemic response, and integrated digital health, illustrating the shift from one-way broadcasting to interactive, data-driven engagement.

Social Media in Health Promotion

Social media has emerged as a dynamic platform for health promotion, enabling public health organizations to reach diverse populations more effectively than traditional media. Platforms such as Facebook, Instagram, TikTok, and YouTube offer interactive features including likes, shares, comments, and algorithm-driven content delivery that facilitate engagement, personalized messaging, and real-time feedback [33, 34]. These features allow health promoters to disseminate messages related to physical activity, nutrition, mental health, and disease prevention in formats that are visually appealing and socially engaging. Tailored campaigns that align with social norms and audience preferences are particularly effective in improving message recall and promoting behavioral uptake [35, 36]. Evidence indicates that social media interventions can positively influence health behaviors across age groups and demographic contexts. A systematic review found that campaigns targeting physical activity, dietary habits, and mental health consistently reported increased engagement and self-reported behavioral intentions, with effectiveness dependent on content quality, platform characteristics, and audience interaction [37]. Similarly, research combining social media analytics and user surveys has demonstrated that partnerships with influencers and official public health accounts enhance message reach and credibility, fostering higher levels of motivation and adoption of preventive behaviors [38, 39]. These findings highlight social media's capacity to move beyond awareness-raising to actively supporting behavior change, a primary goal of modern health promotion. In specific intervention studies, social media campaigns have produced measurable positive outcomes.

For example, a national HIV/AIDS stigma-reduction campaign used multi-language messaging and empathy-focused narratives on social media, resulting in significant reductions in self-reported stigma among participants [40]. Likewise, quasi-experimental studies targeting adolescents reported that structured campaigns delivered via social media improved knowledge, attitudes, and practices related to hygiene and healthy dietary behaviors compared to pre-intervention baselines (Sidabutar *et al.*, 2024). These examples demonstrate the importance of culturally sensitive, evidence-based, and engaging content to achieve meaningful public health impact. While the potential of social media in health promotion is evident, research highlights several intervention-level challenges. Primarily, engagement metrics such as likes, shares, and comments do not always correspond to sustained behavioral change, making it difficult to measure true effectiveness [41, 42]. Furthermore, variations in platform features, audience demographics, and message framing can influence campaign outcomes, emphasizing the need for context-specific design and rigorous evaluation [43, 44]. These considerations are methodological rather than systemic, focusing on optimizing intervention design and interpreting outcomes accurately without extrapolating to broader policy or governance concerns.

Overall, when carefully designed and evaluated, social media offers significant promise as a tool for health promotion. Its interactive capabilities, multimedia formats, and analytic feedback systems allow for real-time adaptation of messaging and engagement strategies, particularly among younger or hard-to-reach populations [35, 37]. By combining evidence-based content with culturally appropriate and context-specific approaches, social media interventions can enhance public health messaging, foster community participation, and support behavior change while maintaining research-focused evaluation practices.



Figure 2. Pathways through which social media supports health promotion. This figure illustrates the key mechanisms by which social media contributes to health promotion. It highlights how platform features and content strategies foster user engagement, social support, and peer influence, which in turn facilitate awareness, motivation, and behavior change related to healthy lifestyles, mental well-being, and disease prevention.

Role in Disease Prevention and Control

Social media has become an increasingly important tool in disease prevention and control by enabling rapid dissemination of information, support for preventive health behaviors, and novel approaches to surveillance. Public health agencies have leveraged platforms such as Twitter (now X), Facebook, and Instagram to share targeted information on disease risks, preventive measures, and community resources, particularly during outbreaks and public health emergencies [12]. These platforms facilitate real-time communication between health authorities and the public, allowing timely updates on emerging threats and direct responses to public concerns. As a result, social media has extended the reach of traditional health communication systems and provided new avenues for shaping health behaviors at scale [15, 16].

A prominent application of social media in disease prevention has been in vaccination campaigns and screening programs. Studies show that well-designed social media interventions can bolster vaccination uptake by addressing common misconceptions, improving knowledge, and facilitating peer support [17]. For example, campaigns that incorporate credible spokespersons, culturally tailored messaging, and interactive engagement elements have been associated with increased intentions to vaccinate and higher self-reported vaccine uptake in targeted populations [18, 19]. Similarly, breast cancer and cervical cancer screening initiatives that use social media to raise awareness and reduce perceived barriers have demonstrated improved participation rates, particularly in younger and hard-to-reach groups [20]. These findings highlight the potential of social media to complement traditional outreach methods and extend preventive services to broader audiences.

Beyond targeted vaccination and screening efforts, social media also plays a role in disease surveillance and early warning systems. By analyzing patterns of posts, hashtags, and engagement trends, public health researchers and agencies can detect signals of disease outbreaks or shifts in public health behavior more quickly than some traditional reporting mechanisms [21]. For instance, during the COVID-19 pandemic and seasonal influenza periods, social media data correlated with official surveillance reports and provided timely insights into emerging hotspots and public sentiment, aiding resource allocation and risk communication strategies [22].

These digital epidemiology approaches demonstrate how user-generated content can be harnessed as a complementary source of surveillance data for early detection and response.

However, the integration of social media into disease prevention and control also introduces methodological and interpretative challenges at the research and implementation levels. Disease surveillance algorithms must account for noise, misinformation, and demographic biases in user-generated data, which can complicate trend interpretation and signal detection [23]. Similarly, campaigns designed to promote preventive behaviors often face challenges in isolating the effect of social media exposure from other influences, making attribution of behavior change difficult [24]. These considerations underscore the need for rigorous evaluation designs and multi-source data integration to validate findings and inform practice.

Despite these challenges, the evidence suggests that social media contributes meaningfully to disease prevention and control when incorporated thoughtfully into broader public health strategies. Its capability to rapidly disseminate health information, support adoption of preventive behaviors, and supplement traditional surveillance systems positions social media as a valuable component of contemporary disease prevention frameworks. Continued innovation in analytic methods, message tailoring, and cross-sector collaboration will be critical for maximizing its potential while ensuring reliability and relevance in diverse population contexts.

Table 1. Evidence-based applications of social media in disease prevention and control

Public Health Function	Use of Social Media	Supportive Evidence	Contribution to Disease Prevention and Control
Risk Communication and Health Education	Dissemination of timely, targeted public health messages during disease outbreaks	Public health agencies increasingly rely on social media to communicate prevention guidance, clarify risks, and address public concerns during pandemics [5, 30]	Improves public awareness, supports adherence to preventive measures, and enhances trust in public health messaging.
Vaccination Promotion	Addressing vaccine hesitancy and influencing vaccination attitudes	Exposure to vaccine-related content on social media shapes public perceptions, with both positive and negative opinions influencing vaccination intentions [9, 34]	Influences vaccine confidence and uptake, highlighting the role of credible messaging in immunization programs.
Screening and Early Detection	Promotion of cancer screening and preventive health services	Social media and mobile health interventions have been shown to increase awareness and participation in cancer screening programs [34]	Facilitates early detection and reduces preventable morbidity and mortality.
Disease Surveillance	Monitoring population health signals and behavioral trends	Analysis of large-scale social media data enables real-time tracking of disease-related behaviors and emerging health threats [5]	Complements traditional surveillance systems by providing early warning and situational awareness.
Outbreak Response and Monitoring	Real-time tracking of public response during health emergencies	Social media data mining during COVID-19 revealed patterns in human behavior, risk perception, and compliance with public health measures [4, 9]	Supports adaptive public health responses and targeted intervention strategies during outbreaks.

Social Media as a Tool for Health Communication

Social media has become a central channel for contemporary public health communication, reshaping how health information is disseminated, accessed, and interpreted by the public. Unlike traditional one-way communication models, social media platforms enable health authorities to deliver timely, tailored messages while responding to public feedback in real time [23, 24]. During global health emergencies, organizations have increasingly relied on social media to communicate evolving risks, preventive guidance, and behavioral recommendations, thereby extending the reach and immediacy of official public health messaging [23, 40]. This capacity for rapid dissemination is particularly critical in crisis contexts where information needs change quickly, and uncertainty is high. A defining feature of social media-based health communication is its facilitation of two-way engagement between public health institutions and the public. Evidence from pandemic communication demonstrates that interactive

strategies such as responding to public inquiries, clarifying misinformation, and adapting messages based on audience reactions enhance message clarity and public trust [2, 3]. Organizational analyses further show that health agencies that actively engaged users through comments, reposts, and dialogic messaging achieved higher levels of public attention and engagement than those relying on unidirectional communication [5-8]. This interactive dimension enables public health communicators to monitor public sentiment and tailor messaging to emerging concerns and contextual needs.

Social media also plays a critical role in shaping the credibility and visibility of health information. While platforms facilitate the broad dissemination of evidence-based guidance, they also host large volumes of unverified content, which can undermine public understanding during health crises. Studies indicate that health information circulating on social media frequently varies in quality and transparency, with misleading or inaccurate content often achieving high visibility [44].

In this context, the sustained presence of authoritative health organizations on social media has been shown to improve information credibility and counteract misleading narratives, particularly when messages are consistent, clearly sourced, and reinforced across platforms [23, 34]. Effective health communication on social media therefore, depends on strategic content design and institutional communication practices, rather than dissemination alone. Evidence suggests that the use of clear language, visual formats, culturally sensitive framing, and repetition of key messages enhances comprehension and recall among diverse audiences [34, 35]. In addition, coordinated organizational communication where public health agencies align messaging across platforms and collaborate with trusted partners has been associated with greater message coherence and audience reach during health emergencies [5, 40]. These practices support clearer interpretation of guidance while reinforcing trust in public health institutions.

Overall, social media represents a powerful and adaptable tool for public health communication when used intentionally and strategically. Its capacity for rapid dissemination, interactive engagement, and audience-responsive messaging positions it as a cornerstone of modern health communication approaches. However, its effectiveness depends on sustained institutional engagement, credibility-focused communication strategies, and continuous evaluation of message performance and audience response [23, 30]. When integrated thoughtfully into broader public health communication frameworks, social media can substantially enhance public understanding, trust, and responsiveness to health guidance. Figure 3, presents a conceptual framework illustrating the role of social media in facilitating interactive, real-time public health communication.



Figure 3. Framework for public health communication through social media. This figure depicts social media as an interactive channel for public health communication, enabling real-time dissemination of health information, public engagement, and feedback-driven message adaptation by health organizations.

Evidence, Benefits, and Challenges

Social media has become an increasingly influential tool in public health, with growing evidence of its impact on health behaviors and public engagement. Systematic reviews indicate that social media interventions can facilitate health promotion, knowledge dissemination, and behavior change across diverse populations [15, 18].

These platforms allow for scalable interventions, particularly when messages are tailored to specific demographics and delivered through culturally relevant formats. Moreover, interactive features such as peer support, community groups, and feedback mechanisms contribute to higher engagement and retention of health information, highlighting social media's capacity to complement traditional health promotion strategies [20]. Evidence also demonstrates the significant role of social media in information dissemination and public health awareness, especially during health crises. Conceptual frameworks and systematic reviews reveal that social media can enhance outreach, facilitate rapid dissemination of public health messaging, and provide real-time monitoring of population behaviors [21, 22]. This accessibility enables timely responses to emerging health issues, supports preventive measures, and strengthens public engagement by providing channels for clarification, questions, and dialogue with health authorities [27, 29]. Such functionality underscores its importance in both routine health promotion and emergency response contexts.

Despite these advantages, social media also presents challenges related to misinformation and public perception. Research highlights that exposure to health misinformation can negatively influence health-seeking behaviors and create confusion among the public [2, 3]. Cross-sectional studies demonstrate that individuals perceiving high levels of misinformation report higher unmet healthcare needs and lower trust in medical guidance, which can reduce the effectiveness of public health interventions [17-20]. Furthermore, the rapid spread of false or misleading health content across platforms complicates public understanding and requires proactive strategies from public health organizations to counteract its effects [12, 13]. The evidence base also indicates methodological limitations in current research on social media interventions. Systematic reviews of reviews suggest that while social media offers qualitative benefits, such as increased engagement and psychosocial support, definitive evidence on measurable public health outcomes remains limited due to heterogeneous study designs, non-standardized metrics, and short intervention durations [5, 6]. Integrative reviews further note that differences in platform algorithms, message formats, and audience characteristics can influence outcomes, making cross-study comparisons and generalizations challenging [12].

In conclusion, social media represents a powerful yet complex tool in public health. Its benefits include broad reach, real-time engagement, and the ability to support health promotion and monitoring, while challenges involve misinformation, variable outcomes, and gaps in standardized research. To maximize its potential, public health strategies must integrate social media thoughtfully, combine evidence-based messaging with audience engagement, and continuously evaluate impact to ensure reliable, actionable, and equitable health communication [1, 9].

Table 2. Social media in public health: evidence, benefits, and challenges

Domain	Evidence	Key benefits	Key challenges	Reference
Health Promotion and Awareness	Social media interventions improve health knowledge, engagement, and information retention	Broad reach, tailored messaging, peer support	Short-term impact, variable effectiveness across populations	[4]
Health Behavior and Engagement	Social media facilitates behavior change via interactive content and peer influence	Increased participation, motivation, and adherence to health guidance	Lack of standardized outcome measures, heterogeneity in interventions	[17, 20]
Misinformation and Trust	Exposure to false or misleading health content affects perception and decisions	Identifies public concerns, informs counter-messaging strategies	Reduced trust in health systems, delayed or avoided healthcare seeking	[30, 33]

Implications for Public Health Practice and Policy

The integration of social media into public health practice has highlighted the need for clear governance and policy frameworks that go beyond platform self-regulation. Empirical research shows that current approaches to managing health-related misinformation and disinformation on social media often rely on the platforms' internal moderation policies, which are inconsistent and insufficient to safeguard public health discourse at scale [10]. These limitations reflect structural issues in content governance and have raised questions about accountability, transparency, and the responsibilities of technology companies in public health communication [15, 16]. Developing external regulatory frameworks, including public policy standards for misinformation management, could help ensure that harmful content is mitigated while respecting principles such as freedom of expression. Addressing digital inequities is another critical policy implication for public health systems leveraging social media. Unequal access to digital infrastructure and varying levels of digital literacy contribute to disparities in how people receive, interpret, and act on health information online [11]. Regions with limited internet access and underserved populations face measurable disadvantages in health information access, which can exacerbate existing health inequities [12]. Public policies focused on expanding affordable internet access, investing in digital literacy and competency programs, and addressing socioeconomic barriers are essential for ensuring that the benefits of social media for public health are equitably distributed.

The ethical dimensions of social media use in public health also warrant careful policy consideration. Digital health solutions that leverage social media have the potential to widen health disparities if they do not account for differences in health literacy, socioeconomic status, and cultural context [14].

Ethical issues such as privacy protection, data use transparency, and informed consent must be embedded into policy guidelines to protect vulnerable populations and foster trust [13]. Ensuring ethical standards in digital communication supports responsible use of social media by public health practitioners and reduces the risk of unintentional harm, particularly among individuals with lower levels of digital or health literacy. Furthermore, evidence suggests that public scrutiny and civic engagement can influence the effectiveness of social media as a communication tool for public health. Research from other domains indicates that when public engagement and accountability are high, social media can help constrain misinformation and promote transparency [20]. Although this finding stems from broader governance contexts, it highlights the potential value of developing participatory approaches in public health communication policy, where community members and civil society are involved in shaping digital health communication standards and oversight mechanisms. Strengthening public involvement in monitoring and feedback processes may help bridge gaps between policymakers, health agencies, and platform operators.

Finally, building institutional capacity and cross-sector collaboration is essential for translating these policy needs into practice. Public health institutions require training, resources, and strategic frameworks to use social media effectively and responsibly, including training in risk communication, digital literacy, and community engagement strategies [12, 13, 17]. Cross-sector partnerships between health agencies, technology platforms, academia, and civil society can facilitate shared governance models, the development of best practices, and the alignment of incentives that promote credible health communication. Such collaborative efforts will help ensure that social media's potential to support public health is maximized while mitigating its inherent risks.

Table 3. Policy and practice implications of social media in public health

Domain	Key Actions	Expected impact
Governance and Regulation	Develop external regulatory frameworks for misinformation management; enforce accountability and transparency on platforms	Improved content moderation, reduced misinformation spread
Digital Equity	Expand affordable internet access; invest in digital literacy and training programs; target underserved populations	Greater equitable access to health information; reduced health disparities
Ethics and Privacy	Implement policies ensuring privacy protection, informed consent, and transparent data usage; monitor for bias in targeted health messages	Increased public trust; protection of vulnerable groups
Misinformation and Public Engagement	Foster participatory approaches; involve communities and civil society in oversight; promote digital literacy campaigns	Enhanced community resilience; reduced influence of false health information
Institutional Capacity and Collaboration	Provide training for public health professionals; promote cross-sector partnerships with tech companies, academia, and NGOs	More effective and responsible social media use; adoption of best practices

Conclusion

Social media has emerged as a powerful and multifaceted tool in public health, offering unprecedented opportunities for health promotion, disease prevention, and real-time communication. Its strengths lie in broad reach, interactive engagement, and the ability to disseminate timely, tailored information to diverse populations. At the same time, challenges such as misinformation, digital inequities, ethical considerations, and variability in outcomes underscore the complexity of leveraging these platforms effectively. Maximizing the benefits of social media requires thoughtful integration into public health strategies, careful monitoring of content and impact, and collaboration across institutions, communities, and technology providers. When implemented responsibly, social media has the potential to enhance public health outcomes, strengthen community trust, and foster more equitable and inclusive health communication.

Ultimately, its future role will depend on balancing innovation with accountability, ensuring that digital tools are harnessed to support evidence-based health decisions and improve population well-being.

Acknowledgement

We thank all the researchers who contributed to the success of this research work.

Conflict of Interest

The authors declared that there are no conflicts of interest.

Funding

No funding was received for this research work.

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