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Social Media and Health Trends: Analyzing Public Perception

Nakaziya Obutuzi G.

Faculty of Medicine Kampala International University Uganda

ABSTRACT

The integration of social media into daily life has revolutionized the way health information is shared, consumed, and perceived. This paper examines the dynamic interplay between social media platforms and public perception of health trends, focusing on how digital communication tools shape health behaviors, attitudes, and knowledge dissemination. Through an examination of leading platforms such as Facebook, Twitter, Instagram, and TikTok, the study investigates how platform-specific features affect health communication and user engagement. The paper also analyzes the implications of health misinformation, the amplification of viral health trends, and the psychological effects of constant exposure to health-related content. Cross-cultural perspectives, particularly the responses to the plastic straw ban and Panda mascot trend in the U.S. and China, provide insight into consumer behavior and cultural framing. This multifaceted analysis reveals the potential of social media as both a facilitator of positive health discourse and a channel for harmful misinformation, emphasizing the need for improved digital literacy and strategic public health communication in the digital age.

Keywords: Social Media, Public Health Communication, Health Misinformation, Digital Literacy, Health Trends, Mental Health and Social Media, TikTok Health Campaigns.

INTRODUCTION

As social media platforms gain prominence, integrating them with health communication becomes increasingly essential. These digital hubs enable individuals to connect and share information, influencing public perception of health trends. Many leading platforms are significantly linked to health fads, both promoting and critiquing various trends while also exploiting them for branding and profit. The following paper will explore the interplay of social media, health trends, and public perception. Social media platforms have witnessed exponential growth in users, establishing themselves as mediums to promote public health initiatives. Their unique feature is the immediate feedback loop—real-world health changes become visible through social media, fostering an interactive environment that facilitates a two-way exchange of information. Social media does not merely dictate trends but reflects existing health communication dynamics and emerging platforms that amplify information globally. However, information can spread rapidly, leading to patterns that may not be evidence-based. Opposing viewpoints can capture public attention, revealing that knowledge sharing and discussions can support the public good. The mixed reactions to health trends and promotion campaigns point to the complications arising from digital platforms, including unforeseen consequences in health communication strategies. While information is disseminated easily and cost-effectively, the risk of information overload can overwhelm individuals' ability to process or verify content. In the digital landscape, brands can drown out dissenting opinions by saturating online spaces with biased information, potentially leading to public cynicism and apathy amid circulating narratives [1, 2].

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The Role of Social Media in Health Communication

Social media is a crucial platform for sharing, receiving, and discussing health information. Its rapid and straightforward nature facilitates global health message dissemination, including operation trends, nutrition guidance, injury prevention, and public alerts. Social media users benefit from opportunities to make informed health decisions and counter misinformation effectively. Recognizing users as agents of disease management enhances the spread of health information compared to traditional media's one-to-many broadcast model. The interactive nature of social media networks allows for easy communication and content sharing among consumers and companies via blogs, social networks, and wikis. The rapid exchange and evolution of health knowledge occur as users share personal insights, which may not always be available from professional medical sources. As medical reforms progress, the emergence of tech firms and diverse online health providers is transforming healthcare delivery. The ongoing dialogue between healthcare sectors and social media platforms focuses on improving health information distribution. Despite emphasizing health workers' roles, studies often overlook consumer attitudes and behaviors as central to receiving health information. Health consumers influence the spread of content by seeking advice, researching health issues, looking for care, and pursuing healthy lifestyles [3, 4].

Public Perception of Health Information

Many people are turning to the web for health-related information. Trusting health content on social media can depend on a multitude of factors, such as the type of source, the presentation of information, and personal experiences and beliefs. Generally speaking, individuals may be more likely to trust health information that comes from an expert in health or medicine or that is supported by statistics. It is also believed that individuals may trust anecdotal stories if others can relate to the person sharing the story or have had similar experiences. Health information shared on social media, however, may not always be widely seen due to algorithms that determine what content shows up on others' newsfeeds. Posts that are not widely seen are less likely to be fact-checked. For instance, if a post about fast food being low in calories showed up on a newsfeed but was not largely presented, the viewer may be more likely to believe the headline. There is a lot of health-related misinformation online, and this considerable exposure may be contributing to growing skepticism. In one study, many adults agreed that at least one common health belief was a myth. Health misinformation shared on social media can be especially harmful to one's health, knowing that people trust those whom they identify with or who have similar viewpoints. Misinformation can be potentially dangerous if it affects positive health behaviors. For example, if someone were to read a false article discussing how exercise can actually be harmful, that individual may be much less inclined to go for a run or to the gym, if at all. On the other hand, if a factually incorrect post reassures people about the long-term health impacts of a behavior, people may be more likely to continue the habit [5, 6].

Health Trends Amplified by Social Media

The rise of social media platforms has seen numerous health trends emerge, many amplified through online coverage and reports. A key example includes the plethora of viral challenges that have grown in popularity, thanks to audiences who avidly share and participate in these trends. Meanwhile, social media remains associated with the perpetual diffusion of diet fads and fitness movements. Many of the most popular health trends are shared primarily via social media outlets. Large fitness communities frequently describe their daily routines, boast their progress, and/or advertise particular products and gym facilities. Scientific tracking of this will improve our understanding of the dynamics, size, and geospatial diffusion process of health trends on both a global and country-specific scale while delving into the mechanisms behind the popularity of local trends. While regular, topical online news articles might not garner much attention, the same health topics – perhaps through a dedicated hashtag campaign – could provoke viral interest and suddenly reach greater viewership, and likewise, vastly increase public viewership of particular health trends. By examining the longevity, reach, and number of social media posts about health treatments, it is possible to spot emerging trends early and make predictions about their potential for widespread popularity. The overarching goal is to expand the current understanding of how health trends are diffused, to explore the role social media plays, and to find evidence that supports the generation of more accurate online health trend models. Understanding precisely how these health trends reach online users can enable the targeted provision of advice to the public and also improve the early-warning detection of dangerous health trends to prevent possible negative long-term health outcomes. Public health policy strategies would likely become more adaptive as more discoveries are made regarding the relationship between social media and the variability of health trends [7, 8].

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Social Media Platforms and Health Discussions

While social media platforms can create digital environments in which health discussions could thrive, not all these spaces hold the same affordances. Young adults use a range of different social media platforms, each with its own characteristics, to engage with peers and disseminate information. Thus, there is a need to compare how different social media platforms are used for health discussions. The objective in looking at multiple social media platforms is to understand the nuances in how various platforms facilitate conversations about health. By providing insights into these issues, the hope is that the findings can help healthcare professionals and policy makers develop more effective strategies for discussions about health online. Social media is not a single entity but rather a collection of diverse websites and apps with different functionalities and user demographics. Social media sites can be roughly grouped by type at both ends of the social-share spectrum: those with a heavy focus on interpersonal communication and those with an emphasis on one-to-many share models. Nesting at this spectrum is also the comparably rare social-sharing platforms that have numerous specific forums or discussion boards. However, these creations have surpassed the media share spectrum, as it is impossible to map them simply. While brief commentary could be left on user posts, these comments are de-emphasized due to their length and placement in the screen real-estate of the aforementioned platforms. Most prominent on the interpersonal communications end of the spectrum, however, are the platforms designed to maximize exposure to user posts through followers and hashtags that are central to this study 3. So, while Reddit and its myriad "subreddits" will not be included in the conversation thread analyses below, Reddit will be used to control these limitations, and other media share platforms like video streaming services are not part of the study. This is a simplified representation, nonetheless closer to the truth than not, and it allows categorizing the most used platforms for health broadly by how they function [9, 10].

Facebook and Health Communities

Other platforms are used differently, with a focus on building communities reliant on more than mere "sharing and liking." For many people, Facebook is a significant space housing their health community, as seen in the variety of groups and pages created in a common interest on health. There is a multitude of groups or pages dedicated to health topics ranging from general wellness advice, fitness goals to specific conditions or diseases, be it chronic or temporary health issues. Within such virtual spaces, one's questions or health concerns can be easily shared, followed by comments or replies from the public. Firstly, participation in such health discussions online provides an accessible way of seeking support and advice, however brief, and often a first step of looking into signs or symptoms personally experienced and not understood. It also offers a listening space to shared stories and journeys between peers encountering the same health difficulties. Secondly, discussions within the health community on Facebook are allowed to seek informal thoughts or alternative advice, especially prior to seeking professional healthcare, which could prove both costly or invasive. On the flip side, however, are the challenges posed by engaging in a public platform for health support. One prominent one is moderating misinformation deepening within the comment threads, sometimes reaching tens or hundreds of comments without a single sign of agreement nor a professional opinion. Communities formed within these comment threads are, unlike unhealthy groups fostering a sense of togetherness and shared identity, often hostile for apparent "pro-medical" and "anti-medical" beliefs. Such interactions are, no doubt, toxic and are unlikely to provide the mental well-being proposed by healthy communities elsewhere. Despite such online interactions fostering health stigma, for others, it is indeed where a sense of social support is derived. Or are these interactions spurring distinctions primarily concerned with mutual privacy intrusion and pending embarrassment, and thus hesitant to make one's appearance and risking compromised health confidentiality on a personal level? [11, 12].

Twitter As a Health Information Source

The swift dissemination of health messages via Twitter, limited to 140 characters, promotes concise communication. Tweets can reach a vast audience, and the retweet feature allows information to spread rapidly. Twitter's strength as a health information source lies in its real-time updates on issues like disease outbreaks and public health interventions, prompting many health bodies, such as the World Health Organization, to maintain a presence on the platform. Polls indicate that around fifty-four percent of users have sought health information on Twitter, sharing their engagement with health topics and professionals. Health authorities and professionals utilize Twitter to disseminate information, while patients can share experiences and seek advice. However, caution is warranted, as unverified information may circulate, potentially leading to unnecessary alarm. Hashtags serve as a tool for categorization and

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highlighting specific topics, helping to organize discussions and raise awareness, sometimes causing topics to trend. Trending topics enable users to stay informed and participate in conversations about health. Nevertheless, Twitter's character limit restricts communication depth, leading to misunderstandings due to cryptic language or abbreviations. Many tweets act as links to off-Twitter content, making it challenging to convey full context, resulting in potential information loss. Despite these limitations, the engagement on Twitter illustrates its effectiveness in fostering health discussions, making it a crucial platform for public dialogue on timely health issues [13, 14].

Instagram and Visual Health Trends

Instagram offers a visually engaging way to share health information, allowing users to curate their narratives through images. Users control their content, influencing how they are perceived by followers. The visuals they share convey personal stories about health, reflecting their identities. This form of visual communication fosters emotional connections and aids in conveying complex ideas more effectively than text. Studies show that people retain only 10% of written medical information after three days, compared to 65% when images are involved. Animated visuals enhance retention by 30%, illustrating the benefits of visual learning in health communication. As Instagram users post images, they present an edited version of themselves, which can serve multiple communication goals simultaneously. Instagram combines powerful visuals with concise text, often utilizing hashtags for enhanced discoverability. The hashtag originated from Twitter, helping categorize tweets, and its effectiveness has transitioned to Instagram, where it connects users around shared topics and facilitates social awareness campaigns. Businesses also leverage hashtags for sponsored posts, utilizing them strategically to engage target audiences. Instagram is especially influential among American teenagers, 45% of whom are online "almost constantly." This platform serves as a significant source of visual health information, impacting how health messages are received and understood. The aesthetic context of Instagram amplifies the impact of hashtags, contributing to a growing conversation around health topics [15, 16].

TikTok and Health Awareness

This subsection critically examines the emerging health awareness on TikTok – an app developed in China in 2016 for sharing and viewing short-form videos. End-2019, the app had accumulated an estimated 800 million visitors worldwide, with 30% in their teens. TikTok's unique algorithm maximizes the exposure of content that users are demonstrably interested in, making it easy for health-related content to go viral quickly. Amid the variety of ways that users engage with health topics on the app, popular genres center on challenges and trends that frequently originate from user-generated content. Snippets of regulated factual information are often provided by expert users with a focus on conveying the severity, susceptibility, and recommended activities about health topics, while places for sharing personal experiences are created for fostering a sense of community. There have been several cases of TikTok's effective promotion of public health campaigns. Many users have turned to the app to voice their concerns about the pandemic, and experts worldwide have taken advantage of its viral capabilities to raise awareness about important health issues. Public health campaigns to ensure the public's health are a necessity in any society. In the United States, the "Truth campaign" aimed to decrease teen smoking, whilst Spain's "Enamórate de cómo te sienta" encourages HIV testing. Several Chinese cities started campaigns to increase HIV testing; whilst in the United States, "Movember" raises awareness for male health. The latest COVID-19 pandemic showed the need for mass public action in the form of wearing masks, hand washing, and general health awareness. Health awareness videos on TikTok gained 284,984,960 views within seven days during the COVID-19 outbreak. While health awareness topics such as media coverage, hygiene awareness, and epidemic alerts tended to be featured as actors-oriented in the media system, the health awareness topics concerning public policy tend to be framed as binaries in the media system. The participation patterns of spreading health awareness topics exhibited a clear diffusion structure. TikTok videos that spread public health awareness messages were spread rapidly by a wider community across the globe, although they were often regarded by YouTube content creators as misleading information. 755 TikTok videos were propagated through 721 retweets, mentions, quotes, and comments from 6,423 advanced YouTube creators. These videos that spread public health awareness images were spread by a quiet community across the world. How different types of public health awareness topics acquire community structure on TikTok is yet to be discussed [17, 18].

Mental Health and Social Media

The rise of social media in the 21st century offers benefits like global connectivity and international friendships, alongside concerns about its impact on mental health. Studies show declines in family

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communication and offline social networks critical for positive mental health. During the COVID-19 pandemic, increased social media use correlated with soaring feelings of depression and anxiety. The relationship between social media engagement and individual well-being is complex, with blurred lines between online and real-life identities. Cyberbullying is prevalent under anonymity, and social comparison can lead to higher anxiety levels. Neoliberal ideals of individualism promoted on social media further pressure users to meet often unattainable standards. Despite these issues, social media has also fostered supportive communities and networks, enhancing discussions around mental health stigma. Charities use these platforms to provide instant access to support systems. Users adopt coping mechanisms such as following positive pages and avoiding negative influences. One interviewee noted the strategy of "removing yourself from potentially harmful spaces." Limiting followers on platforms like Twitter is seen as beneficial. As social media's role expands, cultivating digital literacy is essential for navigating this layered environment [19, 20].

Public Health Campaigns on Social Media

Social media has changed the public health landscape in the United States, allowing researchers, academicians, and consumers to be both highly engaged and exposed to health-related content. Social media platforms have encouraged studies on health and behavior change by enabling the sharing of personal anecdotes, text, images, and more. Additionally, social media has facilitated the ongoing development of health campaigns. Healthcare providers have been increasingly collecting and analyzing health-related content on social media platforms to help develop and implement tailored public health interventions via a new tool known as infodemiology. Despite ongoing and rigorous societal debates regarding privacy concerns and data ownership, social media data has significant potential to drive multiple health-related initiatives, particularly wellness management and delivery of healthcare services. Public health researchers have the always critical task of being current and proactive, informed and informative, ensuring that scientific findings can be translated in a form subjective to society, in an attempt to collectively move forward. This study is further aiming to elucidate mechanisms and provide substantial empirical evidence that could help reveal patterns and promote the development of an optimized online environment that effectively accelerates the transmission of health information in response to emerging public health emergencies. Thus, a comprehensive exploration of public health campaigns is undertaken, tackling the onset and subsequent mentions of sensitive occurrences and also utilizing a vast and long-term modeling approach [22, 23].

The Role of Misinformation in Health Trends

It is no secret that a majority of content circulated on social networking sites involves a significant amount of misinformation. Through the vast networks of these platforms, it has never been easier for false information to spread quickly throughout communities. However, what makes some false narratives, such as health trends, more successful in spreading than others? Health misinformation, the dissemination of false or misleading health-related information, is becoming increasingly commonplace on social media platforms. There, features of the respective site reward engagement, and mis/disinformation is more likely to be shared than accurate information. As a result, many unproven and potentially dangerous health recommendations are allowed to proliferate and persist on social media platforms. The more health misinformation exposure an individual has, the more negative the individual's views will be toward the respective topic. Over time, this lowering of public favor will correlate directly with the respective topic's decreased reliability or security. Algorithms determine the relative popularization of content posted to users' feeds, known as news feeds. These algorithms have faced criticism when it comes to fully showcasing all of the content paid to the respective profile, as well as the phenomenon of sweeping content under the rug. Factors such as emotional context and sources external to the platform have been attributed to the virality of posts—meaning these factors have the potential to further fuel the reach of health trends in either a positive or negative direction [24, 25].

Data Privacy and Ethical Considerations

While online spaces facilitate researchers in analyzing public health discussions, they also expose vulnerabilities regarding personal health information. Privacy settings on social media may help control access, yet data such as likes, hashtags, and comments remain publicly viewable, potentially leading to profiling and targeted ads based on health interests. This study focuses on Instagram posts with the #mentalhealth and #cleanliving hashtags, offering qualitative content analysis of comments to reveal overlooked issues in the discourse around social media democratization and health information. The study investigates the 'anorexia journey' profile and prevalent comments, alongside #cleanliving images, which

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may implicitly endorse detox practices. It emphasizes digital platforms' responsibilities as content curators and the need for improved ethical guidelines regarding user data. Addressing the implications for public health research, the analysis indicates that traditional health education (DHE) has evolved, often misinterpreted as merely a method to resolve issues. The term has been re-appropriated positively, correlating with the rise of the health and wellness culture and the controversial fitspo movement. Currently, #cleanliving has over 1.4 million posts on Instagram, gaining traction since 2014 and reflecting the cultural shift towards health-conscious living [26-29].

Future Directions in Social Media and Health Research

The interplay of social media and health is complex, dynamic, and multifaceted, representing an emerging and fast-evolving research area as digital platforms become increasingly integrated into daily life. Going forward, more in-depth and empirically grounded research is needed to explore complex and nuanced patterns in perceptions, structures, flows, and effects of information on social media regarding health behaviors. Research should consider the comprehensive, long-term effects of social media on health behaviors, as well as how research can support the development of evidence-based and effective interventions to steer people and societies toward healthier lives. A wide range of factors that transcend the traditional boundaries of the health research field should be examined, requiring interdisciplinary research approaches that integrate technical, public health, and social science perspectives. Similarly, innovative and rigorous methodologies and data sources for investigating the fast-evolving landscape of social media should be prioritized, as well as the development of ethically responsible research practices. Finally, the rapid emergence and adoption of new platforms, applications, and technologies cast light on trends, risks, and opportunities in changing health communication, information dissemination, and personal health data ecosystems. These issues underscore the profound and wide-ranging societal implications at the intersection of social media and health, from public policy to industry and individual users' practices, content, and well-being [30-32].

CONCLUSION

Social media has emerged as a powerful tool that shapes public discourse around health, influencing behaviors, beliefs, and awareness on a global scale. Each platform offers unique affordances that dictate how users engage with health information—ranging from community-driven support groups on Facebook to the rapid, viral spread of short-form videos on TikTok. While these digital spaces enable real-time communication, democratized content creation, and health trend amplification, they also present challenges, such as the proliferation of misinformation and heightened mental health risks stemming from online interaction dynamics. The examination of health trends across different cultural contexts further underscores how localized norms and government policies intersect with digital media practices. As society increasingly turns to social media for health guidance, it is vital that healthcare professionals, policymakers, and platform developers collaborate to foster credible health communication, support user well-being, and promote media literacy. A nuanced understanding of public perception and digital behavior is key to leveraging social media for more equitable and effective health outcomes.

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