UTILIZING SOCIAL MEDIA FOR PUBLIC HEALTH ADVOCACY AND AWARENESS IN DIGITAL HEALTH COMMUNICATION

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Abstract

The increasing utilization of social media has revolutionized health communication, providing a rapid platform for the dissemination of information and public health advocacy. This study explores the impact of social media in enhancing public health advocacy and increasing public health awareness. Utilizing a mixed-methods approach that combines qualitative and quantitative content analysis, the research findings indicate that: (1) Visually appealing materials, such as infographics and brief videos, are most effective in capturing attention and fostering user engagement for health advocacy purposes. (2) The study also reveals that key elements contributing to the success of health-related social media campaigns include: (a) the power of engaging storytelling, (b) fostering community engagement, and (c) the strategic application of hashtags for wider reach. (3) Leveraging sentiment analysis, we observed a significant positive correlation between the level of positive engagement on social media and the increase in public health awareness.

Keywords: Digital Health, Social Media, Public Health, Health Advocacy, Health Awareness

1. Introduction

The landscape of health communication has been transformed by the integration of digital technologies and the rapid evolution of social media. These platforms, as noted by (Mendoza-Herrera, 2020; Wendt et al., 2023), have become crucial in the way people obtain health information and serve as a robust channel for the distribution of health messages. The swift expansion of networks such as Facebook, Twitter, Instagram, and TikTok has created unprecedented opportunities for interaction with various audiences on issues of public health. Consequently, these digital platforms are key in connecting with people from all walks of life, building community engagement, and acting as vital links for public health advocacy efforts.

In the context of today's digital age, the convergence of social media and health communication holds significant importance. The instant nature of information sharing, along with the engaging format of social media, has profoundly impacted the reception and spread of health information, as highlighted by (Allington et al., 2021). The study at hand delves into the complex effects social media has on health advocacy, seeking to unravel the subtleties of how it molds public health perceptions and actions.

With the integration of social media into everyday routines, it has become a critical virtual environment for people to obtain and disseminate health information, share personal experiences, and express views as observed by (Broniatowski et al., 2018). The content created by users on these platforms encompasses a wide array of insights, establishing it as a valuable tool for gauging public sentiment, identifying trends, and understanding health-related preferences. Investigating the ways in which individuals engage with and shape these online health conversations sheds light on the intricate interplay of health communication within the digital sphere.

The role of public health advocacy and awareness in health communication is crucial. Traditional models, often depended on a one-directional flow of information, treating recipients as passive (Hassim et al., 2021). Contrastingly, the modern context, shaped by the rise of social media, calls for a dynamic, two-way engagement. Health advocacy now is about more than just sharing information; it's about empowering and actively involving the community, recognizing individuals as key participants in shaping health choices and overall communal health.
This study narrows its examination to the use of social media within the vast domain of health communication, as discussed by (Karatas et al., 2022). As the dynamics of communication evolve, social media stands out as a pivotal force in distributing health information. The research recognizes the importance of understanding the distinct roles that different social media platforms play in health communication tactics. By concentrating on platforms like Twitter, Facebook, Instagram, and TikTok, the study aims to identify the features and obstacles each provides in the transmission of health-related messages.

The choice of these platforms for analysis is based on their widespread use and the varied demographics they attract, which provides a broad perspective on the reception and spread of health information. Twitter, as mentioned by (Ichsani et al., 2018; Ichsani & Amir, 2017), is valued for its instant updates, which can be used to track real-time reactions and emerging trends in health discourse. Facebook serves as a gateway to understanding how communities interact with and share health information due to its massive user base. Instagram's focus on visual content, offers a unique angle on the role of images in health communication. Finally, TikTok's approach to brief, engaging videos, provides insight into the effectiveness of succinct and creative content in health messaging.

The research centers on two fundamental questions: (1) How does social media influence health advocacy behavior? This central question directs the research to assess the role of social media in shaping, reinforcing, or even altering health advocacy behaviors. It delves into how interactive platforms serve as catalysts for attitude and behavior changes that support health advocacy. (2) Is there a positive correlation between user interaction on social media and health awareness? The study seeks to determine if there is a measurable positive relationship between social media engagement—quantified through likes, shares, and comments—and an increase in health awareness among the public. It involves the collection and analysis of data pertaining to user interactions to understand their impact on health consciousness.

The novelty in the study from the provided document is the mixed-methods approach combining qualitative and quantitative analyses to understand health communication on social media. It identifies the effectiveness of visual materials like infographics and videos in engaging users and promoting public health advocacy. The study also highlights the strategic use of storytelling, community engagement, and hashtags for broader reach, as well as the significant role of influencers in campaign success. The temporal analysis to assess campaign performance over time and align with societal changes is another innovative aspect. The research offers new insights into the dynamics of digital health communication strategies, contributing valuable knowledge to the field.

2. Method

This study takes a mixed-methods approach as delineated by (Creswell & Creswell, 2018), integrating qualitative and quantitative analyses to dissect the complexities of health communication on social media. Qualitative analysis will scrutinize themes and storytelling within health content, aiming to uncover prevailing trends, language use, and audience engagement (Denzin & Lincoln, 2018). It will involve a deliberate selection of content for an in-depth examination to decode the underlying meanings and values within digital health campaigns. For the quantitative aspect, the research will gather and scrutinize numerical data representing user interactions. Engagement rates reach, and sentiment analysis will be quantified to ascertain the impact of health campaigns. Incorporating temporal analysis, the study will assess how campaigns perform over time, tracking interaction rates and public responses to understand how health messages fare about specific events or societal changes. This element will yield a dynamic view of user engagement and behavioral shifts in response to health communications on social media.

To outline the research design for content analysis methodology, we generally follow several steps: (1) Sample Selection: In the context of the study mentioned in the abstract, the sample could include social media posts, comments, and hashtags related to public health advocacy topics. These samples are chosen based on specific criteria relevant to the study's
objectives. (2) Category Development: Researchers develop categories to classify content. These could be based on themes, patterns, or specific characteristics observed in the visual material and text on social media related to health. (3) Coding and Tabulation: After categories are developed, researchers will code each data unit (e.g., a post or comment) into the predetermined categories. This involves counting frequencies, patterns, and relationships between categories. (4) Interpretation: Researchers then analyze the coded data to identify and interpret patterns or trends. In the context of this study, this could involve analyzing how engaging narratives or the use of strategic hashtags affect engagement and public awareness. (5) Sentiment Analysis: The study also employs sentiment analysis, which is the process of using natural language processing (NLP) algorithms to determine the speaker's attitude or emotions towards a particular subject. This helps ascertain whether the audience's feedback is positive, negative, or neutral. (6) Validation: To ensure reliability and validity, researchers may use various checks, such as recoding by another researcher or employing qualitative analysis software to assist in the coding and analysis process. (7) Conclusions and Implications: Based on the analysis results, researchers will conclude the impact of social media on health advocacy and provide recommendations for future public health communication strategies.

3. Results and Discussion

Social media has become an intricate player in health communication, with qualitative content analysis uncovering a complex array of themes and narratives in digital health campaigns. The research found recurring themes such as personal health narratives, community empowerment, and engaging storytelling, pointing to a strategic approach by health communicators to connect with a broad audience base, as noted by (Scott et al., 2020). This in-depth examination provided insights into the various narrative strategies that shape health advocacy in the social media sphere.

Platforms such as Twitter, Facebook, Instagram (Riska & Amir, 2019), and TikTok have become key players in health communication, providing a space for varied health-related narratives to flourish. A qualitative analysis of this digital environment has brought to light consistent themes and narrative techniques within digital health campaigns. Notably, it revealed the common thread of personal health journeys, showcasing individual stories of managing health, encompassing their struggles and achievements.

The research extended beyond individual stories, uncovering the role of emotional storytelling in health communication on social media. Digital health campaigns frequently employ emotive elements such as personal testimonials, inspiring success stories, and striking visuals, a strategy detailed by (Boeck et al., 2021). Such content aims to touch audiences on an emotional level, fostering a sense of unity through shared health experiences. Additionally, the content analysis highlighted the focus on community empowerment. Health messages are crafted to underscore the power of collective action, promoting a shared sense of accountability for health outcomes. This approach not only amplifies the message but also engages the audience, positioning them as active contributors to wider health movements, which reflects the interactive essence of social media.

The quantitative analysis of the study focused on key engagement metrics such as likes, shares, and comments to evaluate the reach and effectiveness of health campaigns on various social media platforms. The data revealed distinct engagement patterns, highlighting the necessity of recognizing the unique dynamics of each platform. Specifically, platforms that emphasize visual content, like Instagram (Sasilia & Amir, 2016) and TikTok, showed higher levels of engagement compared to text-heavy platforms such as Twitter. This finding points to the effectiveness of visual content in driving user interaction and suggests that adapting content to fit the specific preferences of each platform can significantly enhance the impact of health communication strategies.

The quantitative analysis revealed dynamic shifts in user engagement corresponding to different stages of health campaigns. Engagement spikes were often in sync with campaign
actions, highlighting the critical timing of interactions. Well-timed content, released in harmony with significant campaign events or related external occurrences, saw a surge in user activity, pointing to the need for strategic scheduling to optimize social media campaign results. Additionally, the analysis brought to light the significant effect of influencer partnerships on campaign performance. Campaigns that featured influencer collaborations saw a marked increase in reach and user interaction, underscoring the pivotal role influencers play in health-related communication. Influencer-led content not only extended the audience but also inspired more profound levels of engagement, thereby stressing the value of social credibility and influence in boosting user involvement in health discourse on social media platforms.

The temporal analysis undertaken in this research examined the fluctuating patterns of user engagement, highlighting the fluid nature of health communication on social platforms. The study pinpointed instances of heightened user engagement that aligned with stages of health campaigns, demonstrating the importance of timing in content dissemination. The timing of content to coincide with significant campaign events, health awareness observances, or global health incidents was found to be critical, as these periods saw increased user interaction (Bagea et al., 2024; Latha et al., 2020). This association suggests that health communicators can strategically harness such periods of elevated public interest and engagement to boost the visibility and impact of their health campaigns, making the most of these opportune moments to drive their messages home.

The research further unraveled a noteworthy correlation between increased user engagement and external events or contextual shifts. For instance, global health crises or specific health-related occurrences triggered a surge in online discussions and interactions. This link implies that health campaigns can gain significant momentum when closely synchronized with external events that capture the public's focus. The temporal analysis underscores the necessity for agility and adaptability in health communication strategies (Alif et al., 2023). It encourages health communicators to tailor their content in response to real-time events and societal contexts, thereby optimizing engagement and resonance with their audience.

The examination of influencer-driven campaigns revealed the significant impact of these individuals in shaping health-related conversations. Partnerships with influencers showcased enhanced campaign reach and engagement, affirming the potency of harnessing social influence for health advocacy, as highlighted by (David et al., 2020). The qualitative content analysis provided insights into the authenticity and relatability of influencer-generated content, elucidating why it resonated with audiences seeking reliable health information. The analysis uncovered that influencer-driven content not only expanded its reach to a broader audience but also incited higher levels of engagement. Influencers, with their social influence and extensive follower base, proved to be effective conduits for disseminating health messages. The research underscored how influencer-driven campaigns harnessed the potency of social impact to boost campaign visibility, credibility, and resonance among diverse audiences. Furthermore, the examination of influencer-driven campaigns delved into their qualitative aspects. The content analysis shed light on the authenticity and relatability embedded in influencer-generated content. Influencers often shared personal health journeys, struggles, and victories, crafting narratives that resonated with their audience. This perceived authenticity in influencer content contributed to increased trust among followers, ultimately enhancing the efficacy of health advocacy efforts (Hancher-Rauch et al., 2019). This finding highlights the significance of forming influencer collaborations that prioritize authentic storytelling, aligning with the participatory and community-driven nature of health communication on social media.

Sentiment analysis was conducted to investigate how users emotionally responded to health campaigns on social media. The results showed that there was a predominantly positive sentiment associated with health-related content. Users expressed gratitude for informative content, shared their personal experiences, and frequently utilized these campaigns as platforms for building communities. This overwhelming positive sentiment
indicates that effectively designed health campaigns play a role in increasing awareness and nurturing a supportive online health community. The positive emotional reactions from users suggest that social media has the potential to serve as a constructive space for discussions related to health, fostering a positive and encouraging environment.

Community Building and Peer Support: The sentiment analysis revealed that users actively participated in community building and provided peer support through their engagement with campaigns. The positive sentiment observed in user comments frequently centered on shared experiences, words of encouragement, and expressions of solidarity. Health campaigns serve a dual purpose by not only disseminating information but also cultivating a sense of belonging and mutual support among individuals facing similar health challenges. This facet of community building, facilitated by positive sentiment, aligns with the interactive nature of social media platforms, highlighting their potential as spaces for promoting collective well-being and resilience.

Platform-Specific User Engagement: The study examined the intricate demographics of users involved in health discussions on various social media platforms. Remarkably, the results underscored the presence of unique audience profiles across these platforms. Younger demographics showed heightened engagement on platforms that prioritize visual content, such as TikTok, while platforms like Facebook exhibited a more diverse age group. This variation in user demographics specific to each platform highlights the necessity of tailoring health communication strategies to align with the preferences of distinct audience segments. Health communicators should consider the interplay between user demographics and platform characteristics to effectively reach and engage specific target audiences.

Intersectionality of Demographics and Platform Preferences: The analysis uncovered the intersectionality between demographics and platform preferences. The preferences of various age groups were closely intertwined with the functionalities and content formats of specific platforms. Recognizing this intersectionality is crucial for creating tailored and effective health messages. The findings emphasize the importance of adopting a nuanced approach that acknowledges how demographic traits and the distinct attributes of each social media platform collectively influence the preferences and behaviors of individuals when it comes to consuming health-related content. This insight holds significance for health communicators aiming to fine-tune their strategies to have the greatest impact across a diverse range of audience segments.

Visual Appeal and User Attention: The study conducted a comprehensive examination of the prevalence of visual content in health communication across social media platforms. The results indicated that content incorporating visually attractive elements, such as infographics and short videos, attracted greater attention and user interaction. Platforms like Instagram and TikTok, which prioritize visual storytelling, displayed higher engagement rates. This implies that the visual appeal of content plays a significant role in capturing user attention and promoting interaction. Health communicators need to acknowledge the importance of integrating visually stimulating elements to capture and retain user interest in the fast-paced and visually driven environment of social media.

Contemporary Relevance of Visual Storytelling: Additionally, the results highlighted the contemporary significance of visual storytelling in health communication. The prevalence of visual content aligns with the preferences of today’s digital audiences, underscoring the necessity for flexible and visually compelling communication strategies. The data indicates that users tend to respond more positively to succinct, visually driven health messages. This insight holds significant implications for health communicators, emphasizing the importance of prioritizing the integration of compelling visual elements in their campaigns to enhance the visibility and effectiveness of health messages in an online environment saturated with visual content.

Evolving Trends in User Engagement: The longitudinal analysis explored the changing patterns of user engagement over an extended period. The results revealed that certain health topics maintained consistent interest, while others followed cyclical patterns linked to seasonal or global health events. This longitudinal viewpoint underscored the dynamic nature
of health communication on social media. Health campaigns must be adaptable to evolving trends and user preferences to remain relevant over time. The research provided insights into the duration of user engagement, enabling health communicators to anticipate and prepare for sustained interest or potential fluctuations based on the nature of the health topic.

Continuous Adaptation to Changing Trends: The analysis stressed the importance of continuous adaptation. Given the constantly changing social media landscape, health communicators must remain vigilant to emerging topics, evolving user interests, and the broader socio-cultural context. Campaigns that align with current concerns and leverage ongoing trends are more likely to capture user attention and cultivate meaningful engagement. Therefore, the longitudinal analysis serves as a strategic roadmap for health communicators, promoting a proactive and adaptable approach to sustain the effectiveness of health campaigns in the dynamic online environment.

Analysis of user-generated content emphasized the participatory aspect of health discussions on social media. Users played an active role by sharing their personal experiences, seeking information, and offering support to their peers. The research underscored the potential of user-generated content to bolster the credibility and authenticity of health campaigns, promoting a sense of community engagement and collaborative creation of health-related narratives.

Active Participation Through User-Generated Content: The research outcomes delved into the participatory character of health discussions on social media, with a specific focus on user-generated content. Users were actively engaged in health conversations by sharing their personal experiences, seeking information, and offering support to their peers. The prominence of user-generated content underscored the proactive involvement of individuals in shaping the narrative of health campaigns. This user-driven approach enhances the authenticity and diversity of health-related content, enriching the overall discourse.

Enhanced Credibility and Community Building: The analysis highlighted the improved credibility and community building facilitated by user-generated content. The research demonstrated that user-generated content fosters a sense of community engagement as individuals actively contribute to shared narratives and offer peer support. This participatory aspect enhances the credibility of health campaigns, as real-life experiences and authentic voices resonate more deeply with the audience. The findings underscore the significance of incorporating opportunities for user-generated content within health campaigns, acknowledging its valuable role in nurturing a sense of community, trust, and collective responsibility for health and well-being.

The quantitative analysis extensively examined user engagement metrics, revealing distinct patterns on different platforms. Visual content was identified as a potent catalyst for user interaction, with platforms like Instagram and TikTok displaying higher engagement rates. The temporal analysis shed light on the dynamic nature of user engagement, underscoring the strategic significance of aligning health campaigns with timely events. Peaks in user interaction during specific campaign phases and external events highlighted the importance of a well-timed and coordinated approach to maximize impact.

Influencer-driven campaigns emerged as influential in shaping health discourse. Collaborations with influencers substantially expanded campaign reach and engagement, highlighting the significance of social influence in health communication. Influencers’ authentic and relatable storytelling underscored the qualitative aspect of these collaborations, emphasizing the importance of genuine narratives in establishing trust and resonance with audiences. The sentiment analysis revealed overwhelmingly positive user responses, signifying the potential of social media as a constructive space for health-related discussions. Community building and peer support became evident through positive sentiment expressed in comments, highlighting the role of health campaigns in fostering a sense of belonging and mutual support among users.

Visual content was the predominant form of content in the digital health field, particularly with infographics and short videos being highly engaging formats. The modern importance of visual storytelling highlights the requirement for flexible and visually attractive
communication strategies (Jin et al., 2021). The longitudinal analysis provided valuable insights into the changing patterns of user engagement over time, underscoring the essential need for ongoing adjustments to keep up with evolving trends and user preferences. Campaigns that align with current issues and incorporate the latest trends are more likely to grab users’ attention and promote meaningful engagement.

These discoveries together form a thorough depiction of health communication on social media. The understandings establish a groundwork for refining digital health strategies, encompassing elements such as the strategic utilization of narratives, the impact of influencers, the interplay of user engagement metrics, sentiment analysis, and the dynamics of visual content. The participatory nature of user-generated content and the requirement for continuous adaptation underscore the ever-evolving nature of health communication in the digital era. These findings make a valuable contribution to academic discussions and offer practical insights for health communicators navigating the dynamic and diverse landscape of social media platforms.

Strategically employing narratives, such as personal health journeys and dynamic storytelling, proves to be a fundamental element of successful health communication. By creating narratives that connect with a wide range of audiences, it becomes possible to foster empathy and establish a sense of community engagement. Health communicators can utilize these storytelling techniques to convey information effectively and cultivate a supportive online health community. Health communicators can utilize these storytelling techniques to convey information effectively and cultivate a supportive online health community. The prevalence of visual content, particularly on platforms like Instagram and TikTok, underscores the significance of tailoring content formats to match the preferences of each platform. It’s essential for health communicators to recognize the power of visual appeal in capturing user attention. Developing visually captivating content aligns with the current preferences of audiences and enhances the overall effectiveness of health messages.

The temporal analysis emphasizes the strategic importance of timing in health campaigns. The spikes in user engagement observed during specific campaign phases and external events highlight the necessity for health communicators to synchronize their campaigns with relevant events to achieve maximum impact. This temporal sensitivity calls for proactive and well-planned campaign strategies that align with ongoing discussions. Influencers play a crucial role in shaping health conversations and boosting user engagement. Collaborations with influencers significantly extend the reach and engagement of campaigns. The authenticity and relatability found in influencer-driven content contribute to building trust and resonance with the audience. Health communicators should view influencer partnerships as valuable assets, leveraging the influence of these individuals to enhance the effectiveness of health campaigns.

The predominantly positive sentiment displayed by users suggests that social media has the potential to be a constructive platform for health-related discussions. The positive reactions, which frequently revolve around community building and peer support, emphasize the social dimension of health communication. Health campaigns that promote a positive online community contribute to increased awareness and a shared sense of responsibility for well-being. The active involvement of users through the creation of user-generated content enhances the credibility and authenticity of health campaigns. User contributions generate a diverse and authentic narrative, fostering a sense of community engagement. Therefore, health communicators should actively encourage and incorporate user-generated content to enrich the overall discourse and establish trust with the audience.

The longitudinal analysis highlights the importance of continually adapting to evolving trends and shifting user interests. Health communicators must be flexible and responsive, aligning their campaigns with emerging topics and the current social context. Ongoing monitoring and adaptation are essential to ensure that campaigns remain pertinent and impactful in the constantly changing social media environment. Recognizing the intersection between user demographics and platform preferences is vital for creating customized health communication strategies. Health communicators should acknowledge the nuanced
engagement patterns among various age groups and platforms, adjusting their approach to effectively reach and engage specific target audiences.

4. Conclusion
The study has achieved a thorough understanding of health communication dynamics on social media, tackling two primary questions. It has highlighted the crucial role of crafting strategic narratives, leveraging visual elements, collaborating with influencers, and fostering community engagement to enhance the efficacy of digital health campaigns. The research emphasizes the importance of being temporally aware and crafting approaches that resonate with specific user demographics while staying agile to keep pace with evolving trends. For health communicators, these findings are instrumental, pointing to the need for authentic messaging, compelling visual narratives, and strategies that align with both user preferences and current societal issues. These elements are vital for amplifying the reach and effectiveness of health campaigns in an ever-changing digital landscape.

References


