

THE ROLE OF SOCIAL MEDIA USE ON PATIENTS AND THEIR RELATIONSHIP WITH HEALTHCARE PROFESSIONALS.

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Abstract

Introduction: The pervasive of the impact on health workers and patients through the use of social media in the field of health care for all segments of society on patient outcomes and relationships with health workers in all specialties, including nursing, radiology, community health, and pharmacists.. This systematic review aimed to assess the effectiveness of social media interventions in clinical settings, focusing on interventional studies and clinical trials conducted in the last decade.

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Introduction:

The advent of social media has significantly altered the landscape of healthcare communication, influencing both patients and healthcare professionals. Recent studies highlight that over 80% of internet users seek health information online, with a substantial portion using social media to share and obtain health-related content [1]. This transformation has fostered a more informed patient population, yet it also presents challenges in terms of misinformation and the quality of information shared. A survey found that 60% of patients believe social media contributes to their overall health knowledge, suggesting a growing reliance on these platforms for health information [2].Healthcare professionals increasingly engaging with social media to disseminate health information, interact with patients, and expand their professional networks. Approximately 70% of doctors report using social media for professional purposes, indicating a shift towards digital platforms for healthcare communication [3]. This engagement can enhance the patient-provider relationship by improving communication and access to information. However, it also raises concerns about privacy, professionalism, and the accuracy of medical information online. Studies indicate that 40% of healthcare professionals worry about the impact of social media on the confidentiality and integrity of patient information [4]. The impact of social media on patient behavior and perceptions cannot be overstated. Patients who actively use social media for health-related purposes tend to be more proactive about their health care. Research shows that 45% of patients have reported that information found via social media would affect their decision to seek a second opinion or healthcare choose a specific provider the immediate access to health Moreover, information and support communities on social media platforms can significantly influence patient empowerment and engagement in their processes. Despite the benefits, the proliferation of health information on social media also poses significant risks. The accuracy of health information available on these platforms is a major concern, with studies finding that up to 30% of health-related posts on social media contain misleading or inaccurate information [6]. This misinformation can lead to inappropriate selfdiagnosis, treatment choices, and a distrust in healthcare professionals. Furthermore, the anonymity and lack of regulation on social media platforms can exacerbate these issues, leading increased skepticism and anxiety among

patients regarding their health decisions [7]. Given the substantial influence of social media on the healthcare landscape, this systematic review aimed to investigate the impact of social media use on patients and their relationship with healthcare professionals. Specifically, we sought understand how social media affects patient knowledge, behavior, and perceptions of healthcare, as well as the challenges and healthcare opportunities it presents for professionals. By examining a range of studies and reports, we aimed to provide a comprehensive overview of the current state of social media in healthcare, highlighting key trends, benefits, and areas of concern [8-10]. This investigation is crucial for developing strategies to leverage social media positively while mitigating its potential risks in the HealthCare context.

Methods:

The systematic review process began with the establishment of explicit inclusion and exclusion criteria to guide the selection of studies relevant to the impact of social media use on patients and their relationship with healthcare professionals. The inclusion criteria stringent, allowing only interventional studies that explicitly examined the effects of social media interventions on patient outcomes. behaviors, knowledge, or the patient-healthcare professional relationship. These studies needed to have been published within the last ten years, from 2012 to 2022, to ensure that the data ACAM, 2022, volume 9, issue 42468reflected current social media platforms and usage trends. Studies included in the review were required to be peer-reviewed articles published in English, to maintain a high standard of research quality and accessibility. Exclusion criteria were equally defined to narrow down the scope of the review. Studies were excluded if they were interventional, such as observational qualitative studies, reviews, commentaries, or editorials, which did not directly assess the impact of social media interventions. Additionally, studies focusing on social media's use outside the healthcare context, or those involving healthcare professionals without a clear link to patient outcomes, were also excluded. The review did not consider studies published before 2012 or those not available in full text, to ensure relevance and completeness of the data analyzed. The study selection process followed structured approach, beginning with a comprehensive search of electronic databases. This initial search aimed to gather a wide range of potential studies meeting the basic criteria related to social media and healthcare. Following the database search, the titles and abstracts of retrieved studies were screened against the inclusion and exclusion criteria. This step served to eliminate studies that clearly did not meet the research objectives or fell outside the specified date range. Subsequent to the initial screening, the remaining studies underwent a more rigorous full-text review. Each participant characteristics. methodology. intervention details, and outcomes were evaluated to ensure they aligned with the review's focus on the impact of social media interventions in healthcare settings. This stage often required careful consideration and discussion among the review team to resolve any uncertainties regarding a study's eligibility. Studies that passed the full-text review were then subjected to a quality assessment. This assessment evaluated the studies based on their methodological rigor, the relevance of their social media interventions, and the clarity of their reported outcomes. The quality assessment aimed to ensure that only studies with a strong scientific foundation and clear relevance to the review's objectives were included in the final analysis. The final selection of studies included in the systematic review represented a diverse range of social media interventions different healthcare contexts. This across selection process was meticulous and iterative. reflecting a commitment to synthesizing highquality evidence on the role of social media in shaping patient behaviors and the patienthealthcare professional relationship. Through this rigorous selection process, the review aimed to provide comprehensive insights into the effectiveness and implications of media interventions in healthcare over the past decade.

Results and Discussion:

The results of this systematic review, which encompassed seven interventional studies and clinical trials, revealed a broad spectrum of social media interventions aimed at enhancing patient outcomes and fostering better relationships between patients and healthcare professionals. The sample sizes of these studies varied significantly, ranging from small pilot studies with as few as 30 participants to larger trials involving over 500 individuals. This variability in sample size reflects the diverse approaches and scopes of investigation across the studies. The types of social media interventions included in these studies were varied, encompassing educational campaigns.

peer support groups, direct patient-provider communication platforms, and interactive health promotion activities. One study implemented a Facebook-based intervention designed increase awareness and knowledge chronic diseases, demonstrating a managing significant improvement in patient self-efficacy and disease management skills. Another study utilized Twitter to facilitate peer support and information sharing among patients with similar conditions. showing enhanced engagement and a sense of community [11]. The effectiveness of these interventions evaluated through a range of outcomes, including changes in patient knowledge, health behaviors, engagement with healthcare services, and overall satisfaction with healthcare experiences. For instance, an intervention employing a specialized social media platform for diabetes management reported a notable reduction in HbA1c levels, with a risk ratio of 0.85 (95% CI, 0.75 to 0.97), indicating clinically meaningful. a improvement in glycemic control participants [12]. Similarly, a clinical trial focusing on the use of a social media intervention for smoking cessation observed a 30% increase in quit rates among the intervention group compared to controls, with a risk ratio of 1.3 (95% CI, 1.1 to 1.5) [13]. Comparatively, the interventions varied not only in their design but also in their impact on the targeted outcomes. While all interventions aimed to leverage social media's interactive and community-building capabilities, their effectiveness appeared to be influenced by factors such as the platform used, the level of engagement of participants, and the specific health condition being addressed. For example, interventions that offered tailored health information and real-time interaction with healthcare providers tended to report higher levels of patient satisfaction and improved health outcomes compared to those that primarily provided generic health information or facilitated peer support without professional oversight [14]. Risk ratios and confidence intervals provided in the studies further elucidated the effectiveness of these interventions. For instance, one study examining the impact of an Instagrambased intervention on mental health awareness among adolescents reported a risk ratio of 1.2 (95% CI, 1.05 to 1.36), signifying a positive effect on increasing mental health literacy [15]. Another study focusing on the use of social media for promoting physical activity among older adults indicated a modest effect, with a risk ratio of 1.1 (95% CI, 0.9 to 1.3), suggesting that while social media can be an effective tool for health promotion, its impact may vary based on the target population and the nature of the intervention [16].The included studies demonstrate the potential of social media interventions to positively impact patient behaviors, knowledge, and engagement healthcare. However, the variation in effectiveness across different studies underscores the importance of carefully designing implementing and these interventions to maximize their benefits. The discussion of the systematic review elucidates the nuanced role of social media interventions in healthcare, as evidenced by the analysis of seven interventional studies and clinical trials. The review's findings, particularly the risk differences and effectiveness of social media interventions, offer a compelling comparison to traditional interventions reported in the medical literature. The included studies revealed varying degrees of effectiveness in using social media for health-related interventions, with risk ratios from modest significant to improvements in patient outcomes. For example, the observed risk ratio for improved glycemic control in a diabetes management intervention 0.85, indicating a 15% reduction in was adverse outcomes compared to controls. This compares favorably with literature on traditional diabetes education programs, which report risk reductions typically in the range of 5% to 10% [19]. Such comparisons suggest that social media interventions may offer a competitive, if not superior, alternative to traditional methods for certain outcomes. However, the effectiveness of social media interventions is not uniformly superior across all health outcomes. The review highlighted a social media-based smoking cessation program that achieved a 30% increase in quit rates, a figure that aligns closely with results from traditional smoking cessation interventions, such as telephone quit lines or inperson counseling, which have shown quit rate increases of approximately 25% to 35% [20]. parity underscores the potential of social This media interventions to replicate the success of established methods while offering additional benefits such as scalability and accessibility. The diversity in intervention design among the included studies also mirrors the heterogeneity seen in traditional interventions. Social media interventions from disease-specific ranged educational campaigns to broader health initiatives, similar to promotion the variety observed conventional public health campaigns and patient education programs. However, social media interventions have the added advantage of real-time interaction and peer support, elements that are less intrinsic to traditional methods. Despite these advantages, the effectiveness of social media interventions can be contingent on factors like user engagement levels and the quality of content, which are challenges also faced by traditional interventions but manifest differently in a digital context [21]. Interestingly, the risk difference observed in studies focusing on mental health awareness and physical activity promotion through media did not significantly outperform those reported in interventions using conventional methods. Literature on traditional mental health awareness programs shows similar improvements in literacy and stigma reduction, suggesting that the modality of delivery (social media versus traditional) may be less critical than the quality and relevance of the content [22]. Similarly, interventions aimed at promoting physical activity, whether through social media or traditional community programs, report modest effects, highlighting the complex nature of changing health behaviors [23]. The comparative analysis of risk differences and effectiveness metrics underscores a critical insight: while social media interventions hold promise for enhancing healthcare delivery and patient engagement, their universally guaranteed. The success is not variance in effectiveness relative to traditional interventions suggests a need for consideration of the context, target population, and specific health outcomes when designing social media-based health interventions. Moreover, the findings call for ongoing research to refine social media strategies, ensuring they complement or exceed the benefits of traditional interventions. Future studies should aim to identify the characteristics of successful social media interventions, such as optimal frequency of interactions, content customization, integration of professional oversight, to maximize their impact on health outcomes [21].In conclusion, while social media presents novel avenue for health interventions, its effectiveness is nuanced and context-dependent. Comparisons with traditional intervention outcomes indicate potential areas of superiority, equivalence, and opportunities for enhancement. As the healthcare landscape continues to evolve with digital innovations, so too must our strategies for leveraging these tools to improve patient care and health outcomes. The strengths of this systematic review lie in its comprehensive analysis of recent interventional studies and clinical trials that utilize social media as a tool for enhancing patient outcomes and relationships with healthcare professionals. By focusing solely on interventions within the last decade, the review offers an up-todate reflection of how digital platforms are being harnessed in healthcare settings. Moreover, the inclusion of studies with diverse social media interventions—from educational campaigns to peer support and direct communication—provides a broad perspective on the potential applications and impacts of social media in clinical practice. This diversity allows for a nuanced understanding of the varying effectiveness of social media interventions across different health conditions and patient populations, contributing valuable insights for healthcare professionals considering the integration of social media into their practice. However, the review is not without limitations[22,23]. The variability in designs, outcome measures, and intervention types, while offering a broad overview, also complicates the direct comparison of results across studies. This heterogeneity might limit the ability to draw generalized conclusions effectiveness of social media about the interventions. Additionally, the review's focus on studies published in English may overlook relevant research conducted in other languages, potentially biasing the findings towards English-speaking populations and healthcare systems. Another limitation is the inherent nature of social media, which evolves rapidly; interventions that were effective at the time of the study may lose their relevance as new platforms emerge and user engagement patterns change.

Conclusions:

The conclusion of this review highlights that social media interventions in healthcare can have a varied impact on patient outcomes, with risk ratios indicating both modest and significant improvements across different health conditions and behaviors. Specifically, the review found in glycemic improvements control among diabetes patients, increased quit rates in smoking cessation programs, and enhanced mental health literacy, with risk ratios ranging from 0.85 to 1.3. These findings underscore the potential of social media as a valuable tool in healthcare, capable of complementing traditional interventions to achieve better patient outcomes. However, the effectiveness of these interventions is influenced by multiple factors, including the design of the intervention, the target population, and the health outcomes being measured.

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