

The Effect of Social Media on Mental Health among Adolescent

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Abstract:

Social media is a significant aspect of adolescents' lives, providing both benefits and obstacles for their mental well-being. This article investigates the twofold effect of social media on the mental health of adolescents, emphasizing its ability to promote beneficial outcomes like social support, self-expression, and emotional control, alongside its adverse effects, such as addiction, vulnerability to cyberbullying, and encountering misinformation. Although much research has been conducted on the advantages and disadvantages of social media, gaps remain in understanding the conditions that lead to harmful outcomes. By reviewing recent literature, this article aims to present an objective perspective on the impact of social media on the mental health of adolescents, considering both its benefits and risks. Through this analysis, the paper seeks to inform educators, parents, and policymakers on how to support healthier social media use among young people, promoting positive experiences while mitigating negative influences. The study concludes with recommendations for targeted interventions and the development of guidelines to protect the well-being of adolescents in the age digital technology.

Keywords: Social media use; overuse; addiction; mental health; emotion regulation; adolescents.

1. Introduction

In today's digital era, social media plays a crucial role in the lives of young people. Platforms such as TikTok, Wechat and REDnote offer young users an interactive space for self-expression, communication, and entertainment. According to recent studies, over 90% of adolescents engage with social media daily, spending an average of three hours on these platforms [1]. These interactions, while varied in

content and purpose, significantly influence their social, emotional, and psychological development. The impact of social media on mental health is becoming a growing concern for educators, parents, and health care professionals. While some argue that social media can foster positive emotional support and self-esteem, others caution against its potential to cause harm, such as through cyberbullying, addiction, and the spread of misinformation.

Existing research has outlined the advantages and

drawbacks of social media usage in young people. On the positive side, platforms can improve social bonds, provide spaces for identity exploration, and offer emotional outlets [2]. On the negative side, excessive use of social media has been associated with heightened anxiety, depression, and discontent with one's physical appearance, especially because of continual exposure to unattainable beauty ideals and harmful interactions with peers [3]. Although many studies have examined these effects in isolation, few have comprehensively analyzed the balance between social media's benefits and its risks, resulting in a partial comprehension of its total effect on the mental health of adolescents.

The previous literature shows a significant lack of focus on the contextual elements that influence the effects of social media on teenagers. Factors such as individual differences in personality, social environments, and the specific nature of social media interactions are not sufficiently explored. Understanding these nuances is critical to developing targeted interventions aimed to encourage responsible social media habits.

This article aims to address this issue by investigating the positive and negative impact of social media on the mental health of adolescents. By discussing how social media can encourage supportive relationships and also pinpointing the situations that may lead to negative outcomes, this study intends to offer a well-rounded view. The primary objective is to guide parents, educators, and policymakers in enhancing the beneficial features of social media while mitigating its possible risks for youth.

2. Methodology

The databases used for this review included Google Scholar, Web of Science, and ProQuest, as they provide a broad range of peer-reviewed articles from reputable academic journals. The search was conducted using a combination of keywords, including "social media," "mental health," "psychological effects," "social support," "cyberbullying," "social media addiction," and "adolescents." This comprehensive search strategy ensured that relevant studies covering both positive and negative aspects of social media use were included.

To ensure the relevance and reliability of the findings, specific inclusion criteria were applied. Studies were considered for inclusion if they fulfilled the subsequent criteria: (1) published between 2018 and 2023 to reflect the most recent trends and data; (2) peer-reviewed articles to ensure academic rigor; (3) a focus on adolescent populations aged 12-18; and (4) a discussion of both positive and negative psychological impacts of social media usage. Studies that did not meet these criteria, such as those focused on

adult populations or specific clinical interventions, were excluded from the analysis.

The initial search yielded 50 potential studies, of which 30 met the inclusion criteria after a thorough review. These studies were then analyzed to extract relevant data on how social media affects adolescent mental health. Special attention was given to studies that explored both beneficial and detrimental outcomes.

3. Literature Review

3.1 Definition and Theoretical Frameworks

Social media has become an omnipresent factor in the lives of adolescents, significantly impacting their mental health. Social media platforms like TikTok, Wechat and REDnote provide young people with opportunities for self-expression, interaction, and sharing information. These platforms allow users to create, interact with, and disseminate content while also serving as hubs for social interaction and identity exploration [3, 4]. Despite these positive aspects, the rising use of social media, particularly among teenagers, has sparked increasing worries about its possible adverse effects on mental well-being. According to research by Xie, more than 90% of adolescents engage with social media daily, spending an average of three hours on these platforms [1]. This extensive usage directly influences their emotional regulation, peer relationships, and overall psychological development.

Social Capital Theory is frequently used to understand how social media enhances social connectivity, enabling adolescents to form and maintain social bonds. These connections offer emotional encouragement and foster a feeling of inclusion, which is essential for healthy mental growth [5]. According to the Social Capital Theory, the ability to maintain relationships, particularly in cases where adolescents may experience emotional or social support deficiencies in their offline lives, enhances mental well-being [5]. Adolescents who regularly engage in supportive online networks are more likely to experience lower levels of loneliness and depression due to the emotional validation and reinforcement they receive from peers [6].

The Emotional Regulation Theory highlights the importance of social media in conveying emotions and managing adjustments. Chen highlights that adolescents use social media to express their emotions and seek immediate feedback from their social networks, which helps them manage stress and regulate emotional responses [2, 7]. Social media platforms offer adolescents opportunities to share personal experiences, seek advice, and gain empathy from others, all of which contribute to improved emotional regulation. In moments of emotional distress,

adolescents often turn to these platforms for catharsis, thereby improving their mental health (Barry et al., 2022). However, the effectiveness of social media in emotional regulation is contingent upon the nature of online interactions, as negative feedback or exposure to harmful content may exacerbate emotional problems [8].

On the other hand, Social Comparison Theory presents a more critical lens, underscoring the adverse psychological consequences of social media use. Teenagers, especially those exploring self-identity, frequently engage comparing their own lives to the often idealized and highly curated representations of others on platforms like Instagram or TikTok [9]. Zhang and Yang demonstrate that such comparisons can generate feelings of inadequacy and self-doubt, leading to declines in self-esteem and increases in anxiety and depression [10, 11]. Adolescents are especially at risk of the adverse effects of social comparison, as they are in the process of forming their identity and are more inclined to seek validation from others [12]. This vulnerability is exacerbated by the constant exposure to unattainable beauty standards and lifestyles promoted by influencers and peers, which contributes to body dissatisfaction and emotional instability [13].

Media Dependency Theory offers a comprehensive view of how adolescents increasingly rely on social media for both information and social connection. This dependency can have deleterious effects on mental health, particularly when over-reliance leads to feelings of isolation and anxiety [9]. Adolescents frequently seek emotional support and information through social media, but excessive use can lead to increased the levels of social pressure, anxiety, and potential disconnection from the real world. [14]. The Media Dependency Theory was further amplified during the COVID-19 pandemic, as adolescents' reliance on digital platforms for socialization and information surged [15]. Social media's pervasive nature, combined with its capacity to influence self-perception and social expectations, underscores the dual-edged nature of its impact on adolescent mental health.

3.2 Impacts of Social Media on Adolescent Mental Health

3.2.1 Positive impacts

A widely recognized advantage of social media usage among teenagers is the enhancement of social support and a strengthened sense of belonging [16]. By utilizing platforms like Facebook, TikTok, and REDnote, young people can connect with friends and exchange personal stories, and receive immediate feedback, all of which contribute to emotional well-being [6]. This social connectivity is especially beneficial for adolescents who experience social

isolation or lack strong support networks offline. The validation and support adolescents receive from peers through likes, comments, and direct messages can enhance self-esteem and reduce feelings of loneliness [17].

In addition to emotional support and social media provide teenagers with a space to explore their identities and express themselves. Adolescents are in a critical phase of identity formation, and social media provides them with a space to explore different aspects of their identity, including their interests, values, and social roles [5]. By sharing content that reflects their personal experiences and interests, adolescents can cultivate a sense of self and gain positive reinforcement from their social networks [18]. This process of self-expression and peer validation is crucial for building self-confidence and promoting psychological resilience [3].

3.2.2 Mental health education and emotion regulation

Social media contributes to raising awareness and educating adolescents about mental health significantly. Platforms such as Instagram and YouTube have become key sources of information about mental health, providing adolescents with access to educational content on topics like anxiety, depression, and coping strategies. This accessibility lowers the barriers to seeking help and encourages adolescents to engage in mental health self-care practices [19]. Online communities and support groups further empower adolescents to share their mental health struggles and seek advice from others who may have experienced similar challenges [20]. These communities create a sense of solidarity and emotional support, which is critical for adolescents facing mental health issues.

In terms of emotional regulation, Chen emphasizes that adolescents use social media to manage their emotions by sharing personal narratives and seeking feedback from peers [2]. Positive interactions on social media, such as receiving support and encouragement, can help adolescents navigate emotional distress and improve their emotional resilience [21]. Research shows that adolescents who use social media for emotional regulation are better equipped to cope with stress and emotional challenges, as they can draw on the support of their online social networks [8].

3.2.3 Negative Impacts

Although there are advantages, social media also presents considerable dangers to the mental well-being of teenagers. One of the most concerning issues is the tendency for adolescents to engage in social comparison [22]. Adolescents frequently compare themselves to others based on the idealized and unrealistic portrayals of life and appearance on social media platforms [23]. Making such comparisons can result in feelings of inadequacy and dis-

satisfaction with one's life or appearance, which are major factors in mental health issues such as body dysmorphia and eating disorders, and social anxiety [10]. Research indicates that adolescents who frequently engage in upward social comparison—comparing themselves to those who appear more successful or attractive—experience lower self-esteem and heightened emotional distress [12].

One important adverse effect of social media usage is the heightened probability of cyberbullying, which can have serious repercussions on the mental health of adolescents. The ability to remain anonymous and the extensive reach of social media platforms allow people to participate in cyberbullying, frequently resulting in severe psychological impacts on those targeted [20]. Young people who fall victim to cyberbullying frequently endure increased anxiety, depression, and feelings of isolation, and in severe instances, cyberbullying has been associated with suicidal ideation [24]. The emotional trauma caused by cyberbullying can have long-lasting effects, impairing adolescents' ability to form trusting relationships and leading to social withdrawal [4]. Given the pervasive nature of social media, the emotional harm inflicted by cyberbullying is often more extensive than in-person bullying, as victims are exposed to harmful content.

3.2.4 Social media addiction and mental health deterioration

Social media addiction has emerged as a growing concern, particularly among adolescents. Excessive and uncontrolled use of social media platforms can lead to significant mental health problems, including heightened anxiety, depression, sleep disturbances, and social isolation [25]. Adolescents who are addicted to social media often find it difficult to disengage from these platforms, even when it negatively impacts their daily functioning [26]. A previous study demonstrates a clear correlation between social media addiction and the worsening of mental health outcomes among adolescents, particularly regarding increased anxiety and depressive symptoms [27]. Teenagers who dedicate excessive time to social media encounter material that encourages unattainable benchmarks of success, beauty, or lifestyle, which can increase feelings of inadequacy and lead to social isolation [12]. Over time, this behavior can undermine their academic performance, interpersonal relationships, and general well-being [3]. The addictive nature of social media use, compounded by features such as constant notifications, likes, and comments, can lead to a compulsive cycle of checking platforms, which disrupts normal daily activities, including sleep and study [28]. As a result, adolescents who exhibit signs of social media addiction often struggle with concentration, exhibit poorer mental health outcomes and are

more prone to social isolation.

4. Future Directions

4.1 Theoretical Implications

There is a clear need for further research that explores the nuanced relationships between individual differences in adolescents and their responses to social media. Factors like gender, cultural background, personality characteristics, and socioeconomic status are likely significant in determining how social media use affects mental health [6]. The potential for VR and AR to foster more immersive social experiences raises important questions about their future roles in mitigating or exacerbating social media's current psychological impacts [29].

4.2 Practical Implications

From a practical standpoint, educators, parents, and policymakers should collaborate to guarantee that adolescents are equipped with the tools to navigate social media in healthy ways. This includes promoting digital literacy and teaching young people how to critically evaluate the content they encounter online [17]. Parents should be proactive in monitoring their children's social media use, encouraging open dialogue about the challenges they may face online, such as cyberbullying or social comparison [14]. Educational programs in schools can also focus on helping adolescents develop healthy social media habits, including limiting screen time and fostering self-awareness about the potential harms of overuse [20]. Finally, social media platforms hold a duty to foster safer online spaces by incorporating features that enhance mental well-being, such as reducing the visibility of likes, providing resources for users experiencing distress, and enhancing measures to combat cyberbullying and misinformation [30].

5. Conclusion

The impact of social media on the mental health among adolescents is complex and includes numerous aspects. On one hand, social media provides significant benefits in terms of social support, emotional regulation, and mental health education. These platforms offer adolescents avenues for self-expression, identity formation, and the development of peer relationships that can enhance their emotional well-being. On the other hand, social media also presents considerable risks, including increased vulnerability to social comparison, cyberbullying, and addictive behaviors, all of which can detrimentally affect adolescents' mental health. Future research must continue

to explore the factors that mediate these effects, particularly in light of new technologies like VR and AR. In practice, concerted efforts from parents, educators, and policymakers are needed to create healthier social media environments that maximize benefits while minimizing harm for adolescents. Social media platforms should also assume more accountability for the welfare of their users by incorporating design elements centered around mental health and robust moderation policies to address harmful behaviors. By doing so, researchers and educators can foster a more supportive and balanced digital ecosystem for young users.

References

- [1] Xie, Y. The relationship between social media use and adolescent mental health: A comprehensive review. *Journal of Adolescent Psychology*, 2021, 44(4): 278-285.
- [2] Chen, H. Emotional regulation and social media: How adolescents use digital platforms to cope with stress. *Mental Health in the Digital Age*, 2021, 30(9): 1401-1406.
- [3] Cureus. The impact of social media on the mental health of adolescents and young adults: A systematic review. *Cureus*, 2023, 15(7): e7890.
- [4] Fassi, Luisa et al. Social Media Use and Internalizing Symptoms in Clinical and Community Adolescent Samples: A Systematic Review and Meta-Analysis. *JAMA pediatrics*, 2024, 178(8): 814-822.
- [5] Valkenburg, P. M., Meier, A., & Beyens, I. (2022). Social media use and its impact on adolescent mental health: An umbrella review of the evidence. *Current opinion in psychology*, 2022, 44: 58–68.
- [6] Beyens, I., Pouwels, J. L., van Driel, I. I., Keijsers, L., & Valkenburg, P. M. Social Media Use and Adolescents' Well-Being: Developing a Typology of Person-Specific Effect Patterns. *Communication Research*, 2024, 51(6): 691-716.
- [7] Piccerillo, L., Digennaro, S. Adolescent Social Media Use and Emotional Intelligence: A Systematic Review. *Adolescent Res Rev*, 2024.
- [8] Zaneva, M., Guzman-Holst, C., Reeves, A., et al. The Impact of Monetary Poverty Alleviation Programs on Children's and Adolescents' Mental Health: A Systematic Review and Meta-Analysis Across Low-, Middle-, and High-Income Countries. *The Journal of Adolescent Health*, 2022, 71(2): 147-156.
- [9] Loemen, N., & De Coninck, D. Social Media and Fear of Missing Out in Adolescents: The Role of Family Characteristics. *Social Media + Society*, 2020, 6(4).
- [10] Zhang, F., & Yang, L. The psychological impact of cyberbullying and misinformation on adolescents: A cross-sectional study. *Chinese Journal of Health Psychology*, 2020, 45(3): 101-105.
- [11] Sanzari, C. M., Gorrell, S., Anderson, L. M., Reilly, E. E., Niemiec, M. A., Orloff, N. C., Anderson, D. A., & Hormes, J. M. The impact of social media use on body image and disordered eating behaviors: Content matters more than duration of exposure. *Eating behaviors*, 2023, 49: 101722.
- [12] Suraj, S., Dhoke, R., Singh, B. R., Bankar, N. Impact of Social Media on Eating Disorders in Adolescents and Emerging Therapies: A Review. *Journal of Clinical and Diagnostic Research*, 2023, 17(4): VE01-VE03.
- [13] Khalaf, A. M., Alubied, A. A., Khalaf, A. M., & Rifaey, A. A. The Impact of Social Media on the Mental Health of Adolescents and Young Adults: A Systematic Review, 2023, *Cureus*, 15(8): e42990.
- [14] Ramsey, N., Obeidallah, M., & Abraham, A. A. Impact of COVID-19 on adolescent health and use of social media. *Current Opinion in Pediatrics*, 2023, 35: 362-367.
- [15] Wolf, K., & Schmitz, J. Scoping review: Longitudinal effects of the COVID-19 pandemic on child and adolescent mental health. *European Child & Adolescent Psychiatry*, 2023, 33(5): 1257-1312.
- [16] Schønning, V., Hjetland, G. J., Aarø, L. E., & Skogen, J. C. Social Media Use and Mental Health and Well-Being Among Adolescents - A Scoping Review. *Frontiers in psychology*, 2020, 11: 1949.
- [17] Smith, D., Leonis, T., & Anandavalli, S. Belonging and loneliness in cyberspace: impacts of social media on adolescents' well-being. *Australian Journal of Psychology*, 2021, 73(1): 12–23.
- [18] Barry, C. T., Briggs, J. M., & Briggs, S. M., et al. Reasons for Adolescents' Social Media Use: Relations With Mental Health and Self-Perception. *International Journal of Social Media and Online Communities*, 2022
- [19] Naslund, J. A., Bondre, A., Torous, J., & Aschbrenner, K. A. Social Media and Mental Health: Benefits, Risks, and Opportunities for Research and Practice. *Journal of technology in behavioral science*, 2020, 5(3): 245–257.
- [20] Camerini, A., Marciano, L., Carrara, A., & Schulz, P. J. Cyberbullying perpetration and victimization among children and adolescents: A systematic review of longitudinal studies. *Telematics Informatics*, 2020, 101362.
- [21] Piccerillo, L., Digennaro, S. Adolescent Social Media Use and Emotional Intelligence: A Systematic Review. *Adolescent Res Rev*, 2024.
- [22] Vicente-Benito, I., & Ramírez-Durán, M. D. V. Influence of Social Media Use on Body Image and Well-Being Among Adolescents and Young Adults: A Systematic Review. *Journal of psychosocial nursing and mental health services*, 2023, 61(12): 11–18.
- [23] Lee J. K. The effects of social comparison orientation on psychological well-being in social networking sites: Serial mediation of perceived social support and self-esteem. *Current psychology (New Brunswick, N.J.)*, 2022, 41(9): 6247–6259.
- [24] Yue, Z., Rich, M. Social Media and Adolescent Mental

Health. *Curr Pediatr Rep*, 2023, 11: 157–166.

[25] Yu, D. J., Wing, Y. K., Li, T. M. H., & Chan, N. Y. The Impact of Social Media Use on Sleep and Mental Health in Youth: a Scoping Review. *Current psychiatry reports*, 2024, 26(3): 104–119.

[26] Kandola, A., Del P C B., Hayes, J. F., et al. Impact on adolescent mental health of replacing screen-use with exercise: A prospective cohort study. *Journal of Affective Disorders*, 2022, 301.

[27] Banjanin N., Banjanin N., Dimitrijevic I., Pantic I. Relationship between internet use and depression: focus on

physiological mood oscillations, social networking and online addictive behavior. *Comput. Hum. Behav.* 2015, 43: 308–312.

[28] Saleem, S. M., & Jan, S. S. A Cross-sectional Study of Mental Health Effects of Excessive Screen Time and Social Media Use among Indian Adolescents and Young Adults. *Journal of Nature and Science of Medicine*, 2024, 7(3): 210-217.

[29] Nesi, J. Social media and youth mental health: Challenges and opportunities. *American Psychologist*, 2021, 76(5): 789-802.

[30] Anderer, S. Social Media Industry Standards Needed to Protect Adolescent Mental Health, Says National Academies. *JAMA*, 2024, 331(7): 552-553.