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Youth Mental Health in the Digital Era: A Comparative Review of Social Media's Psychological Effects

Payal Solanki[1]; Dr. Neha Sheth[2]

[1]Research Scholar
Sarvajanik University
D.R. Patel & R.B. Patel Commerce College and Navnirman Institute of Management

[2]B.R.C.M. College of Business Administration

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Abstract: The paper explores the multifaceted association between social media use and the mental health of youth across emotional, behavioural, and cognitive dimensions. The review draws upon recent empirical studies to examine how factors such as sleep disturbance, depression, stress, anxiety, low self-esteem, and are influenced by social-media engagement. Findings reveal that excessive or unregulated use is unswervingly connected with adverse psychological outcomes, including emotional distress, dependency behaviours, and reduced cognitive performance. However, the review also emphasizes that balanced, mindful, and purposeful use of social media can foster positive effects such as self-expression, social belonging, and academic engagement. Mediating variables such as self-esteem, rumination, and sleep disturbance, along with moderating variables like gender, education, and time spent online, shape the intensity and direction of these outcomes. Overall, social media plays a dual role in youth mental health, providing helpful resources yet also creating psychological risks. The study concludes that promoting digital literacy, emotional resilience, and responsible usage can help transform social media into a tool for connection, learning, and well-being rather than a source of psychological strain.

Keywords: *Social Media, Youth Mental Health, Depression, Anxiety, Self-Esteem, Sleep Disturbance, Digital Literacy, Emotional Well-Being, Behavioural Dependency, Cognitive Functioning.*

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I. INTRODUCTION

The increasing prevalence of social media (SM) in the daily lives of young people has raised global concerns regarding its implications for mental health (MH). Youth, a critical stage in psychosocial development characterized by identity formation and emotional regulation, is increasingly influenced by the pervasive use of digital platforms. Over 90% of young individuals worldwide maintain at least one SM profile, making this population particularly vulnerable to the psychosocial effects of online engagement. This comprehensive review explores how SM use intersects with youth MH, synthesizing findings from contemporary global literature to understand both the risks and benefits associated with digital connectivity. [1]

The relationship between SM usage and MH amongst youth is complicated, encompassing behavioural, cognitive, and emotional domains. Research indicates a consistent association between extreme SM use and symptoms of depression, anxiety, and loneliness. Young people report increased coercion to conform to subjective norms, frequent exposure to idealized portrayals of peers, and heightened risk of cyberbullying - factors that contribute to low self-esteem and emotional distress. Additionally, the neurobiological sensitivity of youth amplifies these effects, as they are developmentally susceptible to social validation and peer

[1] Shankleman, M., Hammond, L., & Jones, F. W. (2021). Adolescent Social Media Use and Well-Being: A Systematic Review and Thematic Meta-synthesis. Adolescent Research Review, 6(4), 471–492. https://doi.org/10.1007/s40894-021-00154-5

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comparison mechanisms reinforced by digital feedback such as likes and comments.[1] [23]

Empirical studies reveal that the amount of time spent online correlates with negative MH outcomes. For instance, young people engaging with SM daily for more than three hours demonstrated twice the likelihood of experiencing depression or anxiety symptoms compared to their peers with lower engagement levels. This suggests a dose-response relationship in which increased exposure compounds emotional vulnerability. Moreover, sleep disturbances have emerged as a mediating factor, with late-night SM use disrupting circadian rhythms and, consequently, cognitive and emotional functioning.[4] [5]Excessive SM use, disrupted sleep patterns, unfavourable social comparisons, exposure to cyberbullying, and the pervasive presence of idealized or unrealistic body ideals have all been identified as factors that heighten vulnerability to adverse MH and well-being outcomes. The research highlights key risk factors associated with SM use and how they exacerbate psychological distress and reduced well-being.

However, the influence of SM is not exclusively detrimental. Youth use these platforms for self-expression, identity exploration, and social support, often finding communities that validate their experiences and provide emotional reassurance. For marginalized young people, online connections can offer inclusivity and psychological relief that may be absent in real-world interactions. This duality underscores the complexity of SM's impact - it simultaneously poses risks while offering opportunities for personal empowerment and social belonging.[3]

A critical mechanism underlying SM's effects is social comparison. Youth frequently engage in upward comparison, evaluating themselves against idealized images of peers and influencers. Such comparisons can distort body image, heighten dissatisfaction, and increase susceptibility to eating disorders, particularly among young girls. These effects are exacerbated by algorithmic content curation, which reinforces exposure to specific themes and perpetuates cognitive biases around beauty, success, and happiness.[4] [1] [3]

Cyberbullying and online harassment have emerged as significant public health concerns. Online anonymity fosters harmful behaviours such as trolling, body shaming, and verbal aggression, which can precipitate severe emotional outcomes, including suicidal ideation and social withdrawal. Governmental and institutional advisories highlight that youth exposure to self-harm and suicide-related content can normalize maladaptive behaviours and increase psychological distress. These dynamics emphasize the necessity of responsible digital governance and proactive MH interventions.[6] [2] [4]

Recent neuropsychological research also points to cognitive implications of prolonged digital media engagement. Excessive multitasking across platforms may impair sustained attention, emotional regulation, and executive functioning in youth. Furthermore, those with pre-existing MH conditions, such as internalizing disorders, tend to report higher SM dependency, greater social comparison, and lower satisfaction with peer interactions, thereby perpetuating negative emotional cycles.[5] [1]

Despite the prevailing focus on negative outcomes, contemporary literature also highlights SM's potential to foster positive development when used judiciously. Positive peer reinforcement, open dialogues about MH, and access to supportive online communities can enhance youths' resilience and strengthen coping mechanisms. Educational programs and digital literacy initiatives are increasingly recognized as essential for helping young people navigate online environments safely. [3] When used mindfully, SM has the potential to enhance psychological well-being and positive affect by eliciting emotions such as excitement, happiness, and engagement, while providing short-lived detachment from everyday realities. As a digital "window to the world," it enables exposure to diverse knowledge domains and global perspectives such as ideas, cultures, and educational resources. Moreover, SM may foster positive MH outcomes by supporting identity formation, facilitating meaningful and supportive online relationships, and providing access to both peer and professional MH resources.

The varied focus and findings across studies suggest that the relationship between SM use and youth MH is complex rather than straightforward. It is multidimensional and context-dependent. This association is shaped by a constellation of variables, including age, gender, cultural environment, platform architecture, and individual usage motivations. Accordingly, future research should employ integrative frameworks that synthesize psychological, sociological, and technological perspectives to advance the development of holistic, evidence-based interventions.

[2] Fassi, L., Ferguson, A. M., Przybylski, A. K., Ford, T. J., & Orben, A. (2025). Social media use in adolescents with and without mental health conditions. Nature Human Behaviour, 9(6), 1283–1299. https://doi.org/10.1038/s41562-025-02134-4

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The subsequent discussion synthesizes the primary risk mechanisms associated with SM use identified across the reviewed studies. Key themes emerging across studies include cyberbullying, social comparison, sleep disruption, and addictive or excessive engagement. Each of these mechanisms interacts with individual and contextual factors, shaping outcomes such as depression, anxiety, and diminished self-esteem.

➢ *Objective*

- To synthesize findings from empirical studies examining the psychological effects and mental health impact of Social Media use among youth.
- To explore mediating and moderating factors linking Social Media use with youth mental health outcomes.

II. RESEARCH METHODOLOGY

The present study follows a descriptive qualitative approach based on a review of research papers and articles collected from online sources such as Google Scholar, ResearchGate, PubMed, Science Direct. Relevant studies were selected according to their relevance to the topic, credibility of the sources, and focus on MH aspects such as depression, anxiety, stress, self-esteem, and sleep disturbance related to SM use among youth. The reviewed literature was analyzed to identify key findings, common trends, and research gaps in the existing studies.

III. LITERATURE REVIEW

SM has become deeply integrated into the lives of young people, influencing their emotions, behavior, and cognition. While digital platforms offer opportunities for connection, learning, and self-expression, research increasingly shows that excessive or unregulated use can negatively affect MH and well-being. To understand this complex phenomenon, recent studies have examined SM's impact across three interconnected levels like emotional, behavioral, and cognitive. The emotional level addresses psychological experiences such as anxiety, depression, and self-esteem. The behavioral level explores patterns of dependency, validation-seeking, and addiction-like engagement. The cognitive level investigates attention, motivation, and academic performance. Together, these perspectives provide a comprehensive framework for evaluating how SM shapes youth MH and developmental outcomes.

➢ *Emotional Level: The Psychological Influence of Social Media on Youth:*

Multiple studies consistently show that SM engagement significantly shapes adolescents' emotional well-being across cultures. Jabbar1 et al., n.d. identified strong positive correlations between SM use and depression (r = 0.62), anxiety (r = 0.59), and stress (r = 0.57) among adolescents aged 14–19 in Kerala, India. Kerr & Kingsbury (2023) reinforced these findings using a larger sample of 13,600 Canadian adolescents, revealing that frequent use of SM and instant messaging predicted poorer MH outcomes, suicidal ideation, and eating disorder symptoms. Both studies highlighted sleep disturbance as a core mediating factor and gender as a moderating variable, with females showing higher emotional vulnerability. Extending these results, Rana et al. (2025) and Kandel, 2025 found similar associations between higher usage and elevated levels of anxiety, stress, and emotional exhaustion. Rana et al. identified self-esteem as a key mediating variable, whereas Kandel emphasized risk perception as a moderator, showing that adolescents with higher emotional awareness experienced fewer negative effects.

In comparing these outcomes, one pattern emerges clearly: while Kerr and Kingsbury (2023) found a broader influence of digital use on emotional symptoms, Jabbar (2022) pinpointed psychological mechanisms particularly rumination as mediators that deepen distress. Similarly, Rana (2025) reported that diminished self-esteem mediated anxiety, while Kandel (2025) noted that awareness moderated risk. The convergence of these findings across settings like India, Nepal, and Canada demonstrates that the emotional cost of SM use is not geographically bound but shaped by personal perception and coping ability. Cross-culturally, Asian adolescents appear more vulnerable to body image pressures and validation anxiety, whereas Western participants report sleep deprivation and loneliness as stronger emotional stressors.

Houghton et al., (2018) and Maurya et al., (2024) provided longitudinal perspectives, adding valuable evidence of time-based emotional shifts. Houghton's six-wave Australian study revealed that depressive symptoms and screen time increased concurrently, indicating a reciprocal not causal relationship. Maurya, using data from 12,035 Indian adolescents, confirmed this bidirectional link, though moderated by gender and education. Both studies agreed that male adolescents displayed less emotional reactivity than females, reflecting the role of gender in digital emotional adaptation. Interestingly, while cross-sectional studies (like Jabbar, 2022) detect immediate associations, longitudinal analyses (like Houghton and Maurya) show that emotional instability and SM reinforce each other over time.

Adding depth through qualitative insight, Taddi et al., (2024) revealed that adolescents' emotional well-being is shaped by social comparison, cyberbullying, and body-image dissatisfaction, moderated by peer influence and time spent online. Their findings closely match Rana (2025) and Kerr and Kingsbury (2023), both of whom observed similar emotional vulnerability among female users. Collectively, these studies show that while SM offers a sense of belonging, it simultaneously amplifies emotional fragility, especially for users driven by validation and comparison motives. The combined evidence indicates that emotional outcomes depend heavily on mediating and moderating variables self-esteem, sleep disturbance, rumination, and peer context creating a multilayered psychological effect that differs across individuals.

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- *Behavioural Level: SM Dependency, Validation, and Behavioral Consequences*

At the behavioural level, research highlights that repeated exposure to SM triggers dependency, compulsive checking, and validation-seeking behaviours that disrupt self-control and focus. Rashi et al., (2021) found that Facebook addiction significantly lowered adolescents' life effectiveness, reducing their self-confidence and achievement motivation. Using structural equation modeling, they identified mood modification as a key mediator and withdrawal and conflict as moderating factors, indicating that addictive patterns are strengthened by emotional gratification cycles. Similarly, Lin et al., (2016) established a strong linear relationship between the time spent on SM and depression levels among 1,787 young adults in the U.S., mediated by Fear of Missing Out (FoMO) and social comparison, and moderated by age and education. These findings underline that behavioural dependence is not random it is reinforced by emotional rewards and reinforced through self-comparison loops.

Schivinski et al., 2020 expanded this behavioural framework by analyzing Problematic SM Use (PSMU) and its predictors. Their findings revealed that intrapersonal motives, negative affect, and daily use predicted PSMU, explaining 37.3% of its variance. Psychological well-being and self-esteem mediated this link, while social motives moderated it. Their results correspond closely with Boursier et al., (2020) who showed that SM appearance and selfie-expectancies anxiety predict PSMU, mediated by self-confidence and moderated by gender. Interestingly, both studies converge on the idea that self-focused motives and affective imbalance lie at the core of compulsive usage.

Bányai et al., (2017), in a large-scale Hungarian study of 5,961 adolescents, revealed that 4.5% were at risk of addiction-like behavior, characterized by low self-esteem and high depressive symptoms. Their gender analysis showed that females used SM more intensively, whereas Tveit & Biele (2025) reported the opposite among Norwegian youth, where boys exhibited stronger behavioural impacts. This difference likely reflects cultural variations in platform use females tend to engage emotionally, while males display more screen-based dependency. Coyne et al., (2023) added another dimension by exploring SM and MH across gender identities, finding that transgender and nonbinary adolescents exhibited the highest behavioural distress but also benefited from positive community interaction, showing that SM's behavioural impact can be both harmful and supportive depending on purpose and context.

The link between behavioural use and academic performance is clearly illustrated by Rani et al., 2024 and Ahmad et al., (2025). Both found that social comparison, validation-seeking, and excessive scrolling negatively affected focus and academic discipline. While Rani et al. observed that time spent online moderated this relationship, Ahmad et al. found that peer relationships and social support served as protective mediators, reducing dependency. Notably, Boer et al., (2021) also observed that only problematic use not general use reduced well-being and life satisfaction, indicating that intention and self-control determine behavioural consequences more than total time.

Comparatively, Lin (2016) and Schivinski et al. (2020) emphasize emotional mechanisms of dependency (FoMO, negative affect), while Ahuja et al. (2021) and Ahmad et al. (2025) highlight functional and social disruptions (time management, learning deficits). These differences reflect how behavioural dependency can emerge from both emotional and cognitive triggers. Culturally, Indian and Asian studies stress the role of peer influence and family structure, whereas Western studies link dependency to individualism and online validation culture. Together, they show that behavioural addiction stems from internal needs (self-worth, emotional regulation) interacting with external reinforcements (likes, notifications, peer reactions).

- *Cognitive Level: Academic Performance, Attention, and Motivation*

The cognitive impact of SM focuses on how continuous connectivity influences students' ability to focus, learn, and stay academically motivated. Sharma & Behl, (2022) found that extraverted students benefited from SM for collaboration and knowledge sharing, while introverted students faced distraction and lower concentration. The study revealed that academic motivation and time spent online mediated this relationship, and personality type moderated it, showing that the cognitive effects of SM depend on how and why it is used.

Ahuja et al. (2021) reported that Facebook addiction impairs achievement motivation, self-regulation, and time management, with mood modification as a key mediator and withdrawal and conflict as moderators. Similarly, Rani et al. (2024) found that social comparison and validation-seeking mediated academic decline, while time spent online and emotional involvement intensified distraction. Both studies highlight that unregulated and entertainment-driven use reduces focus and discipline, linking emotional and behavioural patterns with poor cognitive control.

In contrast, Angwaomaodoko, (2024) examined SM's influence on youth education and found that digital literacy and purposeful usage mitigate cognitive fatigue and enhance learning outcomes. The study emphasized that SM addiction mediates academic distraction, but when used intentionally for educational purposes, it can improve collaboration, creativity, and self-directed learning. Compared with Rani et al. (2024) and Ahuja et al. (2021), this study reinforces that structured engagement transforms SM into a positive cognitive resource rather than a distraction.

Cultural differences also shape outcomes. Western students often use SM for academic communication and research sharing, which supports focus and collaboration, while Indian and Asian adolescents primarily use it for entertainment, causing cognitive overload and shorter attention spans. When analysed together, Rani et al. (2024), Ahuja et al. (2021), and Angwaomaodoko (2024) reveal that academic motivation acts as both a mediator and protective factor. Students who use SM intentionally for learning gain

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self-efficacy and focus, while passive users face procrastination and fatigue.

Overall, SM's cognitive impact depends not on access but on intentionality and regulation. Mediating variables such as academic motivation and self-regulation, and moderating factors like digital literacy, usage purpose, and personality, determine whether SM enhances or hinders cognitive performance. Structured, mindful use promotes academic growth, while excessive and unregulated use weakens attention, learning, and critical thinking.

IV. CONCLUSION

This review demonstrates that SM exerts a deep and multidimensional influence on adolescents' mental, behavioural, and cognitive well-being. Across the reviewed studies, excessive or unregulated SM use consistently correlates with higher levels of depression, anxiety, stress, and emotional instability, accompanied by low self-esteem and disturbed sleep patterns. However, these effects are not uniform. They vary by gender, cultural context, and individual motivation for use, indicating that SM's psychological impact is both complex and context-dependent. While it provides opportunities for communication and learning, its emotional consequences often arise from social comparison, cyberbullying, body image pressure, and validation-seeking behaviors, which generate feelings of inadequacy and emotional fatigue among youth.

At the emotional level, adolescents experience heightened psychological distress when their online interactions are tied to self-worth and approval. Mediating variables such as self-esteem, rumination, and sleep disturbance, along with moderating factors like gender and educational background, determine the intensity of emotional outcomes. Girls, particularly, face stronger emotional reactions due to body image concerns and peer validation pressures. At the behavioral level, excessive engagement fosters dependency, impulsive use, and social withdrawal, as emotional rewards reinforce habit-like patterns. Yet, community-oriented and purpose-driven engagement can provide belonging, peer support, and even mental relief, highlighting SM's dual nature as both a source of harm and a potential space for connection.

At the cognitive level, SM affects attention, motivation, and academic performance in nuanced ways. Structured and purposeful use especially for collaborative learning enhances engagement and digital literacy. In contrast, entertainment-driven or passive scrolling disrupts concentration, encourages procrastination, and reduces learning efficiency. Mediating factors such as academic motivation, mood modification, and self-regulation play key roles, while moderators like personality type, time spent online, and digital awareness shape cognitive outcomes. Collectively, these findings suggest that the impact of SM on adolescents' cognition is not determined by the technology itself but by how and why it is used.

Overall, the synthesis of findings confirms that SM operates as both a risk factor and a resource for youth MH. When used excessively or emotionally, it amplifies psychological distress, erodes self-control, and impairs focus; yet, when approached consciously, it can foster learning, creativity, and social support. Therefore, promoting digital literacy, emotional regulation, and mindful online engagement is essential to balance its positive and negative influences. This review underscores the importance of understanding SM's impact through an integrated framework linking emotional, behavioural, and cognitive dimensions to guide future interventions and policies. By cultivating responsible digital habits and empathetic online spaces, SM can evolve from a psychological risk into a tool for personal growth, learning, and meaningful connection.

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