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# The Impact of Social Media on Physical and Mental Health Among Teenagers

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#### **Abstract:**

The research investigates adolescent physical and mental wellness changes generated by social media through data collected from 225 teenage respondents. The majority of respondents who amount to 76.4% belong to the 17-19 age group making this developmental period important. According to data mental health shows substantial effects where people agreed above 75% to experience anxiety and developed compulsive social media habits. The phenomenon of disrupted sleep exists as over seventy percent of participants scroll into late hours. Young individuals face both fatigue along with inactivity which affect their physical well-being. These results show the importance of launching educational programs to reduce social media-related negative impacts in adolescents.

**Keywords:** Social Media, Teenagers, Physical Health, Mental Health, Cyberbullying, Anxiety, Depression, Self-Expression.

#### 1. INTRODUCTION:

Social media has become essential to teenager lives through its influence on how they interact and socialize while shaping their self-perception. Social media platforms Instagram and Snapchat and TikTok enable teenagers to form bonds with others who have common interests regardless of location. Social media offers the chance of belonging when someone cannot find acceptance in their nearby environment. Young people benefit substantially from social media platforms because they enable them to reach educational content as well as information about mental health and societal topics. Through these platforms teenagers discover ways to show their talents by creating artistic content and written works as well as producing music and video-based content which lets them develop confidence while establishing their unique identities. Research shows that excessive social media use generates several mental health problems that create anxiety while triggering depressive states while damaging self-image perceptions. Teenagers encounter downward trends from perfect online personas because they end up making unrealistic comparisons that cause them to feel inadequate. Anonymous online interactions through cyberbullying become major problems because they extend negative social interactions after school hours into long-lasting emotional trauma. The sleep patterns of users remain disrupted because they spend long hours on screens which produce blue light thus creating health problems. Social media promotes unrealistic standards of beauty that lead to body image problems which subsequently raises the chance of



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developing unhealthy eating behaviors.

It is vital to establish proper social media usage limits because these measures could reduce the harmful outcomes. To lower excessive screen time and encourage offline relationship time people should establish both time constraints and clear boundaries. The development of digital literacy skills remains essential because it enables teenagers to recognize what differences between online presentations and actual events. People should follow mental health advocacy accounts alongside educational and body-positivity pages to create more wholesome digital surroundings than negative content. Open communication between parents and educators and teenagers needs to be supported since it fosters a safe context for discussing cyberbullying alongside self-esteem matters and emotional consequences of social media usage.

The promotion of offline activities including sports as well as arts participation and voluntary work supports teenagers in developing a balanced lifestyle. Activities outside digital spaces help improve physical health and enable social connections between people making them less likely to feel isolated from their fellow humans. People should use social media meaningfully to achieve maximum advantages and reduced safety concerns. Social media acceptance can be balanced with appropriate actions to ensure teens maintain positive social media benefits without jeopardizing their health and wellness.

#### 2. Review of literature

- 1. Social Media Usage and Psychological Well-Being Orben, A., & Przybylski, A. K. (2020). A UK analysis of studies on adolescent mental health and social media revealed that the impact remained minimal according to the data. Results from the research project showed a mixed effect on teens since emotional benefits exist for some participants but other individuals face negative mental effects. Research studies refuted broad-based injuries from social media while suggesting that politicians should account for these complications in their regulatory approach.
- 2. Mental Health Impact of SocialMedia in Adolescents Radovic, A., Gmelin, T., Stein, B. D., & Miller, E. (2021). US study findings through interviews with depressed teens showed dual beneficial and harmful effects of social media. Social media delivers supportive connections and decreases solitariness yet simultaneously generates destructive conduct through comparison activities and unwanted disturbing material. Researchers studied how social media produces complicated effects on adolescent mental health which creates unique emotions for teenagers.
- 3. Cross-Cultural Study on Social Media's Influence on Teen Body Image Andreassen, C. S., Pallesen, S., & Griffiths, M. D. (2020). The connection between social media and body image concerns received research investigation in Norway through the analysis of visual content on Instagram. The study based in Norway conducted surveys of teenagers which demonstrated significant evidence through a positive correlation mainly affecting female participants and was supported by data obtained across multiple methods. Their research combined qualitative and quantitative methods to demonstrate how online images at social media promote the influence of social comparison theory on body dissatisfaction.
- **4.** Physical Health Effects of Prolonged Screen Time Xiang, M., Zhang, Z., Kuwahara, K., & Yamamoto, Y. (2021). The effects of prolonged mobile phone use on adolescent sleep patterns and health received examination in a Japanese research study through sleep monitoring and questionnaire analysis. The exposure of blue light at night determines delayed melatonin production which results in disrupted sleep patterns and develops fatigue and weight gain and metabolic disturbances. The study asked for enhanced regulatory measures to control pre-bedscreen usage because researchers documented adverse wellness risks with prolonged exposure.



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### 5. Cyberbullying and Its Long-Term Mental Health Effects - Barlett, C. P., & Coyne, S. M. (2021).

- Longitudinal research conducted in North America demonstrated that cyberbullying directly caused persistent anxiety as well as depression throughout multiple years of studying young people. Structural equation modeling enabled researchers to demonstrate the process through which digital abuse creates lowered self-esteem and drives people to avoid social situations. More interventions need to remain active to minimize cyberbullying impacts on long-term mental health outcomes.
- 6. Social Media and Peer Relations in Adolescence Valkenburg, P. M., & Piotrowski, J. T. (2022).
- The analysis combined social network methods and personal interviews to examine these effects in European teen social relationships. The networks Instagram and Snapchat function both as friendship maintenance platforms and support weak transient connections. Social media platforms enable shy students who feel isolated to initiate contacts with others. Research findings demand guidance related to social media usage for creating meaningful personal relationships.
- 7. Body Dissatisfaction Due to Social Media in Asian Context Wang, Y., & Xing, Z. (2020). The research analyzed how social media affects adolescent body dissatisfaction through the WeChat platform in China. Frequent users including girls showed higher adoption rates of Western beauty standards through surveys which resulted in increased dissatisfaction. The researchers used a cross-sectional research method to demonstrate how global media affects people while recommending body-positive education for better self-image development.
- **8. Parental Mediation and Social Media Use Livingstone, S., & Stoilova, M. (2020).** Research from UK investigated various forms of parental mediation when their teens use social media. It revealed three main strategies consisting of cooperative, active and restrictive mediation practices. Discussion-based online content mediation proved the most efficient method to combat cyberbullying risks. The method of restrictive mediation proved inadequate since teenagers chose alternative methods to circumvent parental rules. The study emphasized both digital literacy development alongside open communication to reach its goals.
- 9. Social Media's Role in Creative Expression and Self-Identity Kelly, Y., Zilanawala, A., Booker, C., & Sacker, A. (2020). A UK research project followed adolescent creativity changes through social media during two years. Platforms like Instagram and TikTok foster self-expression and identity exploration. Ngành thời trang thường tạo áp lực khiến người dùng theo đuổi các xu hướng đẹp mà không tự đúng với bản thân của họ và làm giảm tự trọng của họ. The research demonstrates how students should maintain creative freedom but still adapt to prevailing popular taste influences.
- 10. Sleep Disturbance Linked to Social Media Usage in Europe Scott, H., Biello, S. M., & Woods, H. C. (2021). A European research team investigated how teen sleep patterns change when using social media in the evening through polysomnographic evaluation. Data revealed that more social media engagement produced decreases in REM sleep duration and late bedtime and inferior sleep quality. Social media anxiety (FOMO) became an important issue according to research findings and screen time restriction right before bedtime was recommended to enhance sleep quality and overall health outcomes.
- 11. Effects of Filtered Images on Body Image in Teens Tiggemann, M., & Slater, A. (2021). A research study from Australia discovered that Instagram filters modify teenage standards of beauty which results in disappointment about their bodies. Regular filter users developed more dangerous behaviors. The researchers suggested implementing educational programs for students to understand the altered nature of online posted images.
- 12. Positive Mental Health Promotion via Social Media Naslund, J. A., Aschbrenner, K. A.,



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Marsch, L. A., & Bartels, S. J. (2020). - Research conducted in the United States analyzed how social media functions in youth mental health promotion. The study discovered that YouTube and Twitter enable users to become aware of mental health and to provide community support as well as resource sharing tools. Researchers recommended teams align with influential figures in order to spread correct information and create beneficial messages.

### 3. Statement of the problem :

Social media stands as an essential aspect in teenagers' daily routines through which their thoughts and behaviors alongside their health welfare get drastically impacted in today's digital society. Excessive social media usage has generated health-related concerns for both mental and physical wellness even though this platform delivers opportunities to interact with others and express oneself effectively and gain knowledge. Scientific research shows that long periods spent on social media result in elevated teenage anxiety levels and depression symptoms and reduced self-confidence together with disrupted sleep cycles. Because social media requires extended periods of sitting, it reduces human movement which results in obesity and poor posture and disrupts sleep routines. The growing dependence on social media necessitates a comprehensive investigation into its effects on adolescents' overall health. The research examines how much social media determines the psychological and physical health status of teenagers. This research explores the effects of overly using social media on psychological health manifestations which include stress and anxiety together with negative impression of the self. The study evaluates the role of social media as a catalyst for physical health problems which lead adolescents to avoid physical activities and practice poor eating behaviors and develop sleeping issues. The research method combines three approaches - surveys, interviews and data analysis - to discover essential patterns and risk elements within the study. This study strives to discover critical insights about these social media effects to develop healthy social media usage strategies which teenagers, parents, educators and policymakers will use. The research intends to spread knowledge while teaching users proper digital conduct and creating a steady balance between social media usage by teenagers.

#### 4. Objectives of the study:

- A. To analyze the usage patterns of social media among teenagers
- B. To understand the nutrition and eating habits of teenagers
- C. To find the impact of social media on teenagers
- D. To find the heal implications of excessive screen time of the respondents

#### 5. Scope of the study -

This study focuses on the impact of social media on the physical and mental health of teenagers aged 13-19 years. The research primarily investigates the effects of popular social media platforms such as Instagram, TikTok, Snapchat, and others widely used within this demographic. The geographical scope of this study is primarily within [Specify your geographical location, e.g., 'urban areas of the United States,' 'a specific region within your country,' or 'a global perspective, analyzing studies from diverse cultural backgrounds']. The data collected reflects trends and experiences within the timeframe. This study aims to provide insights relevant to contemporary social media usage patterns and their associated health outcomes. It acknowledges that social media platforms and usage trends are dynamic, and therefore, the findings may be subject to change over time. Additionally, this study primarily relies on self-reported data



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from surveys, supplemented by existing research, and does not include direct clinical assessments. The analysis emphasizes the correlation between social media use and reported health outcomes, rather than establishing direct causation. The study seeks to provide a comprehensive overview of the current landscape, offering valuable information for parents, educators, and policymakers to develop informed strategies for promoting healthy social media engagement among teenagers.

#### 6. Methodology:

The authors employed mixed methods which combined quantitative data with qualitative findings in order to study social media effects on teenagers thoroughly.

Quantitative Data Collection: An online survey get distributed to teenage participants aged 13-19 through the platform of social media and their networks at school and various community groups. The assessment tool contained multiple-choice answers and both Likert scale and rating scale questions to assess how teenagers used social media as well as their self-esteem levels and sleep quality and physical activity and eating behavior and social contact. The survey had an anonymous design to protect participants from being compelled to give misleading responses. Qualitative Data Collection: Participants could offer their individual experiences through open-ended survey questions that enhanced the researcher's knowledge of quantitative data results. The researchers referred to past studies in their assessment of survey findings. Data Analysis: Descriptive statistical methods included frequencies, percentages, and means to discover patterns which bar graphs displayed through visuals. The analysis of qualitative data used thematic analysis which identified commonly repeated themes and verified them by consulting existing research documents.

Ethical Considerations: All participants provided their consent to participate while preserving their privacy and the survey omitted questions that could be emotionally painful. Participating minors needed parental permission to enroll in the survey.

#### 7. Data analysis & interpretation:

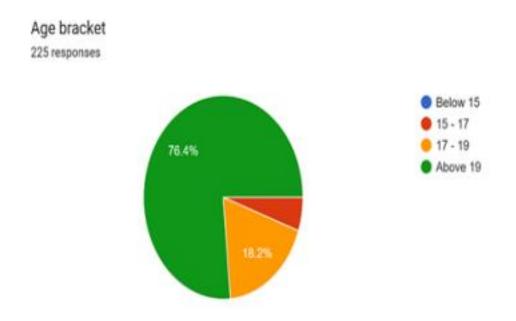
Teen mental health problems during the last ten years have made people question the connection between these problems and social media. A daily social media usage exceeding three hours increases the chances of adolescents developing depression alongside anxiety. Extended social media use mobilizes the brain reward system to a point where addictive behaviors may develop. Mental health deteriorates through social media platforms mainly because of three factors: comparison trends and bullying behaviors and loneliness effects and sleep interference. Extensive screen usage decreases physical movement while bringing problems to body postures and disturbing restful sleep patterns. Social media provides advantages to users through improved relational bonds along with emotional backing along with academic growth opportunities. Controlling social media use alongside promoting good usage habits allows people to reduce negative outcomes and experience positive outcomes.



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#### Chart 1

### Showing the age of the respondents

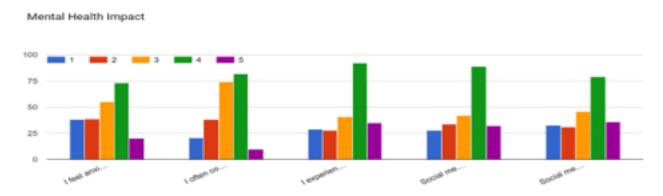


### **Analysis & Interpretation**

76.4 percent of respondents are in the 'Above 19' age group, with 18.2 percent in the '17-19' age group. Few respondents fall into the "15–17" or "Below 15" categories, suggesting that the majority of participants are young adults who may be enrolled in college or just starting their careers

#### **CHART 2**

### **Showing Mental Health Impact**



## **Analysis and Interpretation**

Impact on Mental Health - The data indicates that a significant number of participants gave higher ratings (4 or 5) to anxiety, overthinking, and stress brought on by social media. Given that many participants reported experiencing significant emotional strain, this suggests a strong link between social media use and mental health issues.

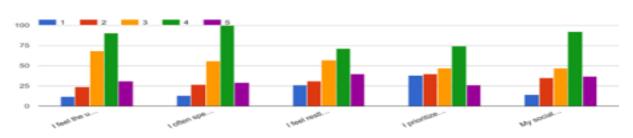


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#### **CHART 3**

### Showing social media and usage patterns

Social Media Addiction and Usage Patterns

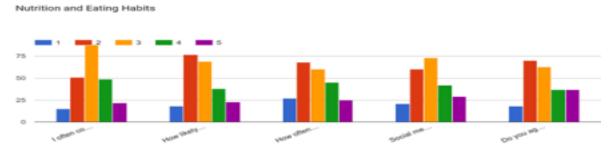


### **Analysis and Interpretation**

Addiction to Social Media and Usage Trends - A considerable number of respondents strongly agreed (rating 4 or 5) that they get restless when they aren't connected, feel the need to use social media regularly, and spend long hours online. This demonstrates the respondents' widespread reliance on social media.

#### **CHART 4**

### **Showing Nutrition and Eating Habits**

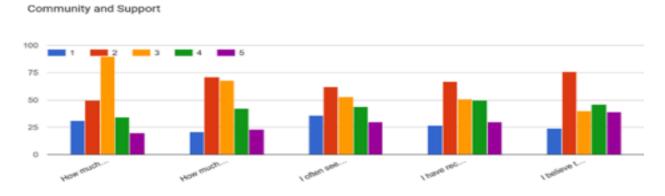


### **Analysis and Interpretation**

Dietary Practices and Nutrition - The results indicate a tendency for unhealthy eating patterns, with many respondents often choosing convenience foods, skipping meals, or following social media trends. Higher scores (4 and 5) highlight a troubling connection between poor eating habits and social media

#### **CHART 5**

### **Showing Community Support**



**Analysis and Interpretation** 

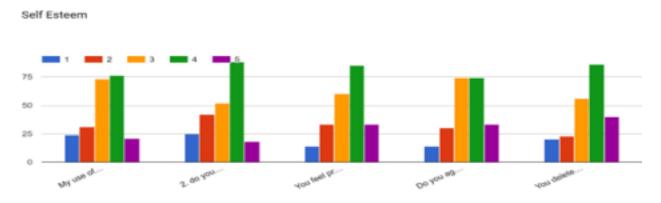


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Community and Support - The impact social media has on community and support functions remains unclear to many people. The benefits of social media are identified by respondents who assigned ratings 4 and 5 yet multiple others provided ratings 2 and 3 denoting skepticism or negative impressions. The majority of people in category 2 choose not to believe social media provides beneficial support to communities.

#### **CHART 6**

#### **Showing Self Esteem Impact**

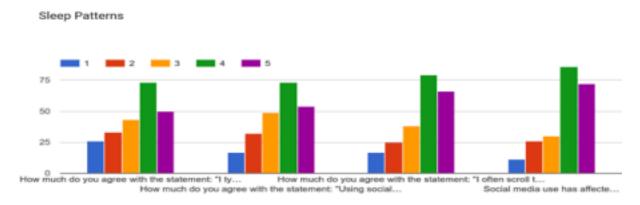


#### **Analysis and Interpretation**

Self-Esteem - The majority of respondents within the rating scale of 4 and 5 demonstrate positive self-esteem perceptions from social media usage. Numerous individuals maintain their self-esteem at high ratings (4 and 5) but data suggests social media decreases the confidence of certain users who responded with scores of 1 and 2.

### **CHART 7**

#### **Showing sleep patterns**



### **Analysis and Interpretation**

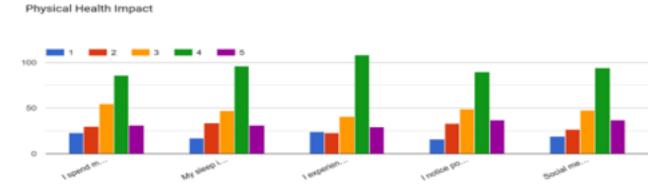
Sleep Patterns - Most survey participants choose ratings 4 and 5 which demonstrates social media significantly affects their sleep pattern. Numerous individuals acknowledge that they look at social media platforms before bedtime because this habit seems to create sleep disturbances. The statistics for unaffected sleep involvement from social media (ratings 1 and 2) remain low.



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#### **CHART 8**

#### **Showing Physical Health Impact**



#### **Analysis and Interpretation**

Physical Health Impact - Survey respondents consistently indicate that social media produces unfavorable physical consequences through their ratings 4 and 5 which confirm reduced exercise levels and disturbed sleep. Excessive social media use creates physical health problems such as body pain as well as active movement restrictions.

### 8. Results & Findings:

Mental Health Impact - Figures from the chart show that prolonged social media usage displaces exercise practice thus creating adverse impacts that put individuals at increased health danger and sedentary risk. The combination of late-night social media use causes sleep problems in teenagers because blue light interferes with melatonin production. Eye strain and headaches together with posture problems caused by subpar equipment usage emerge when users hover in front of screens for extended periods. Physical exercise rates decrease steadily because people spend more time on the internet. The identified patterns demonstrate the necessity of maintaining proper screen usage together with adopting healthier life habits. Physical Health Impact: Figures from the chart show that prolonged social media usage displaces exercise practice thus creating adverse impacts that put individuals at increased health danger and sedentary risk. The combination of late-night social media use causes sleep problems in teenagers because blue light interferes with melatonin production. Eye strain and headaches together with posture problems caused by subpar equipment usage emerge when users hover in front of screens for extended periods. Physical exercise rates decrease steadily because people spend more time on the internet. The identified patterns demonstrate the necessity of maintaining proper screen usage together with adopting healthier life habits.

Social Media Addiction & Usage Patterns: The provided chart demonstrates how teenagers develop compulsive social media habits and the resulting behaviors. Social media users operate under persistent check-up motivation because algorithms provide continuous enticement that leads to self-control breakdowns and unplanned extended usage durations. The absence of access triggers dependency symptoms because dependency exists when users feel restless and online relationships replace face-to-face ones lead to deteriorated interpersonal skills. Social media distractions create negative effects on educational performance because students lose their ability to focus and become unproductive. The observed trends demonstrate why people need to develop mindful behavior and digital well-being practices.



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**Nutrition & Eating Habits:** Social media plays a dominant role in shaping how teenagers think about food and nutrition according to the provided information. Food content appears frequently in many people's feeds which leads them to develop health and diet perceptions. The choices that people make about their diets are heavily influenced by influencers who regularly advocate untested dietary plans. Comparison culture fosters body dissatisfaction and unhealthy eating behaviors. Social media consumption directly impacts what products people choose for food purchases either toward nutritious or unhealthy dietary components. Social media produces divergent opinions about food education because it provides both nutritional advice and dangerous eating limitations.

Community & Support: The shown data demonstrates how social media creates support structures which help teenagers improve their physical well-being. Teens participate in fitness groups mainly because of their desire for encouragement and guidance yet they may encounter inaccurate health-related information. Social media facilitates friendship between similar individuals through peer support that might include unattainable body standards. Users find valuable health information through online platforms but such platforms still present the danger of

spreading false health-related content. Through social media platforms users achieve community engagement which enhances their self-assurance and simultaneously activate negative pressures towards fitness as well as body image concerns.

**Self Esteem :**Data from this graph demonstrates that teenage self-esteem experiences considerable influence from social media networks which results in feelings of insecurity together with both self-healing and needing validation through digital likes and comments. People are under social pressure to display flawless content which leads them to experience stress while self-censoring their presentation. Social media creates both encouraging social networks and beneficial material but affects users differently because it benefits some people but creates anxiety in others. The need to conform to online standards causes students to lose self-esteem simultaneously volatilizes their perfectionistic tendencies and encourages social anxiety thus requiring responsible platform usage.

**Sleep Patterns**: An examination of the provided data reveals that social media networks diminish teenage sleeping durations and decrease quality and disrupt regular sleep patterns. The reduced production of melatonin caused by screen exposure in teenagers leads them to sleep less than six hours while both processes result in poor sleep quality. Sleep disruptions occur when people encounter blue light together with notifications and emotionally charged content during their rest period leading to fatigue and dangerous mental health issues. Sleep patterns suffer deterioration from late-night screen use together with disrupted sleep schedules which produces concentration problems and mood changes and increases the potential for insomnia and circadian rhythm disorders.

#### 9. Suggestion & Recommendations:

- 1. People who use social media products responsibly improve their psychological well-being. Provide education that teaches teenagers to use social media platform properly. Users need to engage in offline activities in addition to utilizing wellness tools that set screens-time boundaries. Users should access content which drives mental health welfare instead of focusing on social relationships.
- 2. Physical health improvement can be achieved by spending time offline in nature while undergoing digital detox programs. People must practice digital detoxification particularly during night time hours. Children should participate in outdoor pursuits while receiving training on correct posture. Great eye protection emerges from taking screen breaks and managing social media interactions while



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applying blue light filters.

- 3. The combination of technological restrictions and social educative initiatives serves to prevent being addicted to social media. App developers need to establish usage limitations which include built-in usage time controls in their technology products. Societies should join efforts to support real interaction between people while mandating times where devices must stay off. Educational programs about social media should be established with instructions on mindful social media usage.
- 4. The advancement of awarenes and regulatory controls serves to boost people's nutritional balance. People should learn to analyze diet-related information effectively. The platform must supply scientific evidence about nutrition together with balanced meal recommendations. The company should address social comparison problems while creating strong guidelines for influencer advertisement.
- 5. Digital Well-Being practices serve to boost the quality of sleep for users. People should establish technology-free night routines while using blue light filter technology. Devices should have time limits while teaching students about adequate sleep schedules. The "Do Not Disturb" mode function should be enabled for uninterrupted rest during nighttime hours.

#### 10. Conclusion

The research investigates how social media impacts teenage mental and physical health through advantages and downsides appearing together. Through social media users gain connectivity together with creative capabilities and information access but they encounter significant problems. Research data produced robust findings linking social media use to emotional health problems which involved depression alongside anxiety together with feelings of poor self-worth. The continual exposure to altered behavioral representations on the internet typically triggers negative self-comparison feelings and breeding feelings of personal inadequacy. Screen time in excess duration brings damage to sleep quality while cutting down physical movement along with leading to eye discomfort and postural problems and other health problems. Many teenagers show a pattern of social media addiction that leads them to choose virtual communication rather than real-life bonds which causes them to become socially disconnected while impeding their ability to connect with others as they grow up. This research evaluated how social media shapes dietary conduct and body perception by revealing that individuals expose themselves to unattainable beauty ideals and dietary patterns which may lead to destructive actions. Teenagers benefit from social media by creating supportive virtual groups that help them join with others who share similar experiences and give access to mental health information. Mainstream digital literacy along with proper social media habit training must become standard practice to reduce what social media presents as dangers. The prevention of the negative impacts from social media demands teamwork between stakeholders who should teach teenagers how to leverage social media properly while showing them potential risks. The combination of platform features that enable responsible digital interaction with offline activities and constant dialogue between users allows for controlling detrimental social media consequences while extracting its positive value. Future investigations need to conduct extended studies to learn about what social media use produces in the long run. The development of research-driven protocols and procedures is needed to protect teenagers when using the digital world and to guarantee their wellness in physical and mental health domains.



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