TAM Model

Understanding the effects of Social Media on Mental Health

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INTRODUCTION

The universal presence of online entertainment stages has changed the way people impart, share data, and associate with each other. As of late, there has been a flood of interest in grasping the effect of virtual entertainment on emotional well-being. As people progressively incorporate web-based entertainment into their regular routines, it becomes pivotal to investigate the potential repercussions it might have on mental prosperity. This examination paper expects to dig into the intricate connection between online entertainment utilization and emotional wellness results, drawing upon earlier investigations and research to give a complete comprehension of this dynamic. The review propose that unnecessary cell phone use for virtual entertainment purposes might be related with negative mental qualities and possibly add to self-destructive ideation (Verduyn et al., 2021).

Various examinations have featured the positive parts of web-based entertainment use on psychological well-being. For example, research led by (Kross et al., 2013) showed that utilizing web-based entertainment stages to participate in dynamic and significant social cooperations can improve prosperity and decrease sensations of dejection. Likewise, one more concentrate by (Ellison et al., 2011) found that web-based entertainment stages can act as an important device for social help, giving people close to home approval and a feeling of belongingness, especially during trouble.

Nonetheless, close by these positive discoveries, a developing group of writing has likewise raised worries about the possible adverse consequence of virtual entertainment on psychological wellness. A concentrate by (Jelenchick et al., 2013) uncovered areas of strength for a between cyberbullying via web-based entertainment and expanded degrees of burdensome side effects among youths. Furthermore, research by (Fardouly et al., 2015) tracked down a huge relationship between's the utilization of virtual entertainment for appearance correlation and body disappointment among youthful grown-ups. These examinations show that web-based entertainment can accidentally open people to unsafe encounters and fuel emotional wellness challenges.

While these examinations give significant bits of knowledge into the connection between web-based entertainment and psychological wellness, there is a requirement for an exhaustive investigation that integrates existing discoveries and investigates potential components fundamental the noticed impacts. This examination paper intends to overcome this issue by fundamentally surveying the writing, leading exact exploration, and investigating the complicated transaction between web-based entertainment use and emotional wellness results. Thusly, this

study expects to add to a superior comprehension of the point and proposition down to earth suggestions for people, emotional wellness experts, and policymakers.

LITERATURE REVIEW

Arising research demonstrates a developing pattern of people with mental issues gaining and using cell phones, especially cell phones (Firth et al., 2016; Glick et al., 2016; Torous et al., 2014). The effect of social connections on psychological well-being is generally perceived, although there is continuous discussion among analysts in regard to the particular parts of social connections that impact mental prosperity. One review (Maulik et al., 2010) featured the meaning of expanded social help from loved ones in diminishing the mental pain experienced by people following a horrendous life altering situation. This finding proposes that the presence of a solid social emotionally supportive network can assume a significant part in relieving psychological wellness issues by assisting people with adapting to pressure.

Davis' Cap, which developed from the hypothesis of contemplated activity (TRA), is the most significant and ordinarily used hypothesis in making sense of individual reception of data innovation. In one concentrate by (Khan et al., 2021) investigates the drivers of online entertainment utilization among medical care experts utilizing the innovation acknowledgment model. The discoveries feature the elements impacting apparent handiness and genuine reception, giving experiences to creating viable web-based entertainment rules in medical services. Other review analyzes the connection between virtual entertainment utilization and psychological wellness during the Coronavirus flare-up in Wuhan (Zhong et al., 2021). Discoveries recommend that while virtual entertainment offered help and data, unnecessary use was related with psychological wellness issues, underscoring the significance of enjoying reprieves to relieve pandemic-related emotional well-being hurt.

As the use of virtual entertainment keeps on rising, grasping its possible effect on psychological wellness is fundamental. Figuring out the job of social connections, the reception of innovation, and the harmony among use and prosperity can add to a far-reaching comprehension of the perplexing connection between virtual entertainment and psychological wellness results. By integrating these discoveries into the bigger setting of web-based entertainment's effect on emotional wellness, this examination paper means to give bits of knowledge that can direct people, psychological well-being experts, and policymakers in advancing solid use designs and moderating possible dangers.

THEORITICAL FRAMEWORK

Social media has become an integral part of daily life, revolutionizing how people connect, share information, and seek support. This literature review aims to examine the effects of social media on mental health, focusing on the variables of peer support, information support, emotional support, peer risk, peer credibility, social media usage, and health behavior change.

Peer Support: Peer support alludes to the arrangement of close to home, enlightening, and instrumental help inside an informal community. A few investigations have featured the beneficial outcomes of virtual entertainment on peer support. For example, a concentrate by (Lei et al., 2018) found that people who got peer support through virtual entertainment experienced diminished degrees of melancholy and expanded mental prosperity. Essentially, a concentrate by (Li et al., 2014) exhibited that taking part in web-based peer support bunches prompted superior mental prosperity among people encountering emotional well-being difficulties.

Information Support: Individuals are persuaded to look for wellbeing data via virtual entertainment stages because of the significant social help they get as data, which supports pursuing wellbeing related choices (Uchino et al., 2012). Web-based entertainment stages give admittance to an abundance of data, impacting people's wellbeing related convictions and ways of behaving. (Walker et al., 2021) found that data support got through online entertainment decidedly affected wellbeing conduct change, for example, taking on better ways of life and looking for preventive measures. Furthermore, this enlightening help can decrease apparent dangers and further develop survival methods, which assume a defensive part in emotional well-being (Htay et al., 2021). Be that as it may, exorbitant openness to deception via web-based entertainment can prompt antagonistic psychological well-being results (Pennycook et al., 2020).

Emotional Support: Through social media, people may exhibit empathy, compassion, and concern for one another. Social media's ability to provide emotional support has been linked to better mental health results. Receiving emotional support via social media platforms was associated with less symptoms of despair and anxiety, according to research by (Naslund et al. 2020). On the other hand, a lack of emotional support and unfavorable social media interactions might exacerbate mental health issues (Hawdon et al., 2015).

Peer Risk: On social media, peer risk refers to being exposed to detrimental influences or peer-exhibited bad conduct. According to research, being exposed to peer risk on social networking platforms may be harmful to one's mental health. According to research by Moreno and Whitehill (2014), teenagers who were exposed to more peer risk on social media had greater levels of depressive symptoms and risk-taking behaviors. Therefore, it is essential to address and reduce the potentially damaging effects of interactions on social media.

Peer Credibility: The dependability and trustworthiness of information provided by peers on social media is referred to as peer credibility. According to studies, how well people view their peers' reputation might affect their mental health. For instance, a study by (Chu et al. 2017) found a correlation between college students' increased help-seeking actions and the perceived legitimacy of peer-shared mental health material on social media. The reliability of information provided on social media platforms, however, can be weakened by the existence of false information and a lack of expert validation (Chen et al., 2018).

Social Media Usage: Social media usage patterns and frequency have an impact on mental health. According to Kross et al. (2013), excessive social media usage has been associated with poor mental health outcomes, including a rise in anxiety and depression symptoms. On the other side, moderate and intentional usage of social media can promote supportive relationships and connections that enhance mental health (Best et al., 2014).

Health Behavior Change: Social media has the power to affect health behavior by delivering knowledge, encouragement, and support. According to a systematic study by Maher et al. (2014), social media interventions aimed at changing health behaviors, such quitting smoking or increasing physical activity, have a favorable impact on people's behavioral outcomes. However, depending on a person's qualities, the dynamics of their social network, and the interventions' design, they may or may not be helpful.

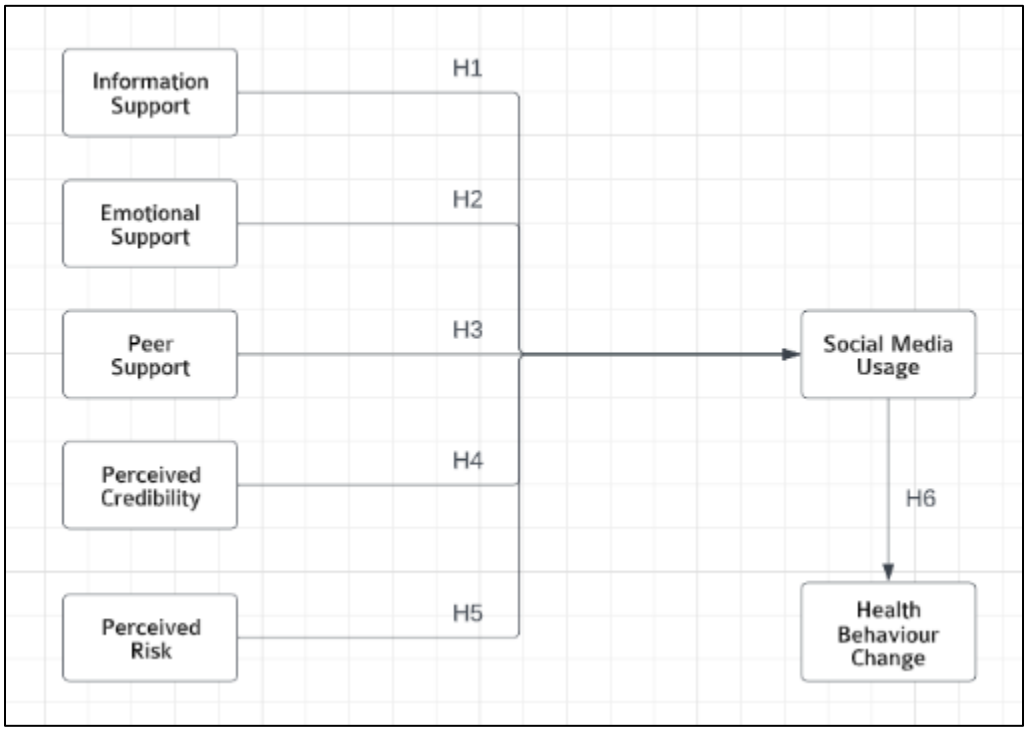

Fig.1 – Research Model

Dependent Variable: Health Behavior Change

Independent Variable: Information support, Emotional Support, Peer Support, Perceived Credibility, Perceived Risk, Social media usage

H1: Information support has a significant effect on usage of social media.
H2: Emotional support has a significant effect on usage of social media.
H3: Peer support has a significant effect on usage of social media.
H4: Perceived Credibility has a positive effect on usage of social media.

H5: Perceived Risk has a significant effect on usage of social media.
H6: Social Media usage has a significant effect on health behavior change.

METHODS

The research effects of social media on mental health were examined using a survey. The survey was made using a linear model, with responses ranging from strongly disagree to strongly agree. The idea behind using a linear model in most of the questions was that participants lacked time to complete the data, but when there were tick boxes, they showed more interest.
On Google Forms, the testing procedure and survey were completed. Participants were chosen from the general population to increase external validity. In this work, reliability analysis and structural equation modeling were used to examine the data. With a cutoff of 0.7, Cronbach's alpha was utilized to evaluate reliability. The composite reliability (rho_A and rho_C) of 0.7, statistics of average variance extracted (AVE) of 0.5 and loading of 0.5 were utilized as the criteria to show assessing item validity. In this work, structural equation modeling was used to further explore the accuracy of the observations. Researchers looked at the overall effect of a confirmatory factor (Anderson & Gerbing, 1988; DeVellis, 1991; Fornell & Larcker, 1981).

RESULTS

Demographic Information of Survey Participants

The information in Table 1 gives segment data on the powerful examples. The orientation appropriation shows that 48.08% of the respondents were female, while 51.92% were male. As far as age, most members fell inside the 25-34 age range, representing 84.62% of the example. The conjugal status of the respondents demonstrates that 40.38% were hitched, while 59.62% were single. Concerning capabilities, 57.69% held a master's degree, 40.38% has bachelor's degree, and 1.92% had a secondary school recognition. The occupation conveyance uncovers that 36.54% of members were experts, 30.77% were full-time workers, 19.23% were understudies, 7.69% were in different occupations, and 5.77% were independently employed.

Table 1. Demographic characteristic (n = 52).

		Frequency	Frequency (%)
Gender	Female	25	48.08%
	Male	27	51.92%
Age	18-24	2	3.85%
	25-34	44	84.62%
	35-44	6	11.54%
Marital Status	Married	21	40.38%
	Single	31	59.62%
Qualification	Master's degree	30	57.69%

	Bachelor's degree	21	40.38%
	High school diploma	1	1.92%
Occupation	Professional	19	36.54%
	Full-time Employee	16	30.77%
	Student	10	19.23%
	Other	4	7.69%
	Self-Employed	3	5.77%

Data Validity and Reliability

To assess the validity of the scale as recommended by (Vitari & Ravarini, 2007), we first looked at the data for convergent and discriminant validity. When each measuring item has a significant correlation with the presumptive theoretical concept, convergence validity is demonstrated; discriminant validity necessitates an adequate Average Variance Extracted (AVE) analysis. The square root of each AVE was examined to determine if it was significantly bigger than any association between any two latent constructs. According to Chin (1998), the square root of each construct should be at least 0.5 (Fornell & Larcker, 1981) and should be significantly bigger than the correlation of the construct with any of the other constructs in the model.

The items in the table correspond to the questions on the questionnaire that were used in this study; information support (IS) had five question items, emotional support (ES) had five question items, peer support (PS) had five question items, perceived credibility (PC) had five question items, perceived risk (PR) had five question items, social media use had five question items, and health behavioral changes had seven question items. Internal consistency of items within each construct is assessed using Cronbach's alpha. The numbers range from 0 to 1, and higher values imply stronger dependability. Cronbach's alpha is over 0.90 in this instance, suggesting a high degree of internal consistency, for Perceived Credibility and Health Behavior. Other factors, including the use of social media, perceived risk, peer support, and information support, have an internal consistency level of 0.85 to 0.90 according to Cronbach's alpha is considered good. Support for the soul at 0.76 Cronbach's alpha also meets the 0.7 requirement. The Average variation Extracted (AVE) statistic quantifies how much variation the construct has managed to extract in relation to the measurement errors. Values greater than 0.5 are regarded as good. All the values in this instance are more than 0.5, showing acceptable convergence validity. The HTMT values evaluate the construct-specific discriminant validity. Indicators of strong discriminant validity are values under 0.9. All the HTMT values in this instance are under 0.9, demonstrating good discriminant validity between the constructs. These findings support the robustness and veracity of the study findings by showing that the constructs in the TAM model display adequate levels of reliability, validity, and discriminant validity.

Table 2: The outcomes of the reliability and validity analyses

	Outer Loadings	Cronbach's alpha	Composite reliability (rho _A)	Composite reliability (rho _C)	Average variance extracted (AVE)
ES_1 <- ES_	0.718	0.76	0.784	0.843	0.532
ES_2 <- ES_	0.826				
ES_3 <- ES_	0.81				
ES_4 <- ES_	0.818				
ES_5 <- ES_	0.372				
HB_1 <- HB_	0.867	0.935	0.942	0.948	0.721
HB_2 <- HB_	0.795				
HB_3 <- HB_	0.819				
HB_4 <- HB_	0.858				
HB_5 <- HB_	0.864				
HB_6 <- HB_	0.921				
HB_7 <- HB_	0.815	0.867	0.639	0.859	0.563
IS_1 <- IS_	0.408				
IS_2 <- IS_	0.804				
IS_3 <- IS_	0.749				
IS_4 <- IS_	0.884				
IS_5 <- IS_	0.813				
PC_1 <- PC_	0.823	0.906	0.942	0.929	0.724
PC_2 <- PC_	0.824				
PC_3 <- PC_	0.913				
PC_4 <- PC_	0.853				
PC_5 <- PC_	0.838				
PR_1 <- PR_	0.753	0.897	0.904	0.924	0.71
PR_2 <- PR_	0.841				
PR_3 <- PR_	0.884				
PR_4 <- PR_	0.857				
PR_5 <- PR_	0.874				
PS_1 <- PS_	0.837	0.881	0.888	0.914	0.68
PS_2 <- PS_	0.724				
PS_3 <- PS_	0.854				
PS_4 <- PS_	0.855				
PS_5 <- PS_	0.846				
SM_1 <- SM_	0.834	0.862	0.869	0.9	0.644
SM_2 <- SM_	0.807				
SM_3 <- SM_	0.782				
SM_4 <- SM_	0.785				
SM_5 <- SM_	0.802				

Emotional Support (ES) ES_1: Do you rely on emotional support from social media compared to other sources, such as therapy or support groups. ES_2: How frequently do you receive negative or triggering messages on social media that worsen your mental health issues. ES_3: How often do you share your emotions and feelings related to mental health on social media. ES_4: How often do you use social media to receive emotional support for your mental health issues. ES_5: How often does emotional support from social media play a role in managing your mental health. **Health Behavior Changes (HB)** HB_1: Does seeing other people's perfect image on social media make you feel pressure to be perfect as well. HB_2: Does social media contribute to overthinking and increased stress levels. HB_3: Have you noticed a decrease in your physical activity levels since increasing your social media use. HB_4: How do you perceive your self-esteem level while using social media. HB_5: To what extent do you believe that social media has influenced your health behavior. HB_6: To what extent do you compare yourself with others on social media. HB_7: To what extent do you think social media affects your feelings of inadequacy. **Information Support (IS)** IS_1: Information support [Do you trust the mental health information that you find on social media platforms. IS_2: How frequently do you find accurate and reliable mental health information on social media platforms. IS_3: How likely are you to seek mental health information and support on social media platforms in the future. IS_4: To what extent do you feel that social media platforms have increased your awareness and understanding of mental health issues. IS_5: To what extent do you feel that the mental health information you find on social media platforms is helpful. **Peer Support (PS)** PS_1: Do you feel more comfortable sharing your mental health struggles with peers on social media compared to face-to-face interactions. PS_2: Have you received helpful advice or emotional support from peers on social media regarding your mental health concerns. PS_3: How often do you communicate with others about your mental health concerns on social media. PS_4: To what do you trust the mental health advice and support provided by peers on social media. PS_5: To what extent do you think receiving peer support on social media has positively impacted your mental health. **Peer Credibility (PC)** PC_1: How credible do you find the mental health information shared on social media. PC_2: How likely are you to trust mental health information or advice that is shared on social media. PC_3: How much do you believe that social media platforms take steps to ensure the accuracy and reliability of mental health information shared on their platforms. PC_4: To what extent do you believe that mental health information shared on social media is unbiased and free from commercial interests. PC_5: To what extent do you believe that the mental health advice shared on social media is based on scientific evidence. **Peer Risk (PR)** PR_1: Have you ever experienced negative emotional effects, such as anxiety or depression, because of your social media use. PR_2: How often do you feel stressed or overwhelmed because of your social media use. PR_3: To what extent do you believe that social media use can contribute to feelings of social isolation or loneliness. PR_4: To what extent do you believe that social media use can lead to addiction or dependency. PR_5: To what extent do you perceive social media use as a risk to your mental health. **Social Media Usage (SM)** SM_1: How much do you think your mental health is

impacted by your use of social media. SM_2: How often do you use social media platforms on daily basis. SM_3: To what extent do you feel that social media promotes unhealthy body image standards or unrealistic expectations for physical health. SM_4: To what extent do you read and/or share news articles on social media. SM_5: To what extent do you use social media to connect with new people or make new friends.

Table 3: Evidence of Discriminant Validity

	ES_	HB_	IS_	PC_	PR_	PS_	SM_
ES_							
HB_	0.438						
IS_	0.534	0.195					
PC_	0.757	0.141	0.823				
PR	0.317	0.548	0.231	0.203			
PS_	0.866	0.27	0.591	0.877	0.23		
SM_	0.361	0.709	0.243	0.243	0.685	0.442	

Hypothesis Testing:

Table 4. Results of Hypotheses Testing

Hypothesis Testing	Original sample (O)	Sample mean (M)	Standard deviation (STDEV)	T-statistics (¡O/STDEVI)	P values
Emotional Support -> Social Media Usage	-0.044	0.002	0.192	0.229	0.819
Information Support -> Social Media Usage	0.111	0.066	0.16	0.695	0.487
Perceived Credibility -> Social Media Usage	-0.389	-0.272	0.235	1.66	0.097
Perceived Risk -> Social Media Usage	0.552	0.559	0.135	4.087	0
Peer Support -> Social Media Usage	0.559	0.47	0.218	2.559	0.011
Social Media Usage -> Health Behavior Change	0.648	0.663	0.074	8.721	0

As per the previously mentioned information, there is a genuinely huge connection between virtual entertainment use and saw risk ($p < 0.05$). This shows that individuals' utilization of web-based entertainment corresponding to their psychological well-being is fundamentally affected by how hazardous they see it to be. Peer backing and web-based entertainment use have a genuinely huge connection ($p < 0.05$). This proposes that individuals' use of virtual entertainment stages for peer

support impacts their emotional wellness related conduct. Web-based entertainment utilization and changes in wellbeing conduct are fundamentally corresponded ($p<0.05$). This suggests that individuals' progressions in wellbeing related ways of behaving are profoundly affected by how frequently they utilize web-based entertainment corresponding to their emotional well-being. Web-based entertainment utilization and daily reassurance don't have a measurably critical connection ($p > 0.05$). This recommends that individuals' utilization of web-based entertainment for psychological wellness doesn't generally rely upon how much daily encouragement they get there. Online entertainment use and data support don't have a genuinely critical connection ($p > 0.05$). This shows that individuals' utilization of web-based entertainment stages for educational help doesn't fundamentally influence the amount of psychological wellness related conduct they take part in. Web-based entertainment utilization and saw believability have a pitifully huge association ($p > 0.05$). This recommends that individuals' impression of the dependability of data via web-based entertainment stages might impact their utilization propensities concerning psychological well-being.

The previously mentioned discoveries shed light on the associations between different parts inside the Cap model in the particular setting of virtual entertainment's effect on emotional well-being. They call attention to the significant jobs played by web-based entertainment use, peer support, and saw risk in emotional well-being connected exercises, as well as the restricted impact of profound and educational help.

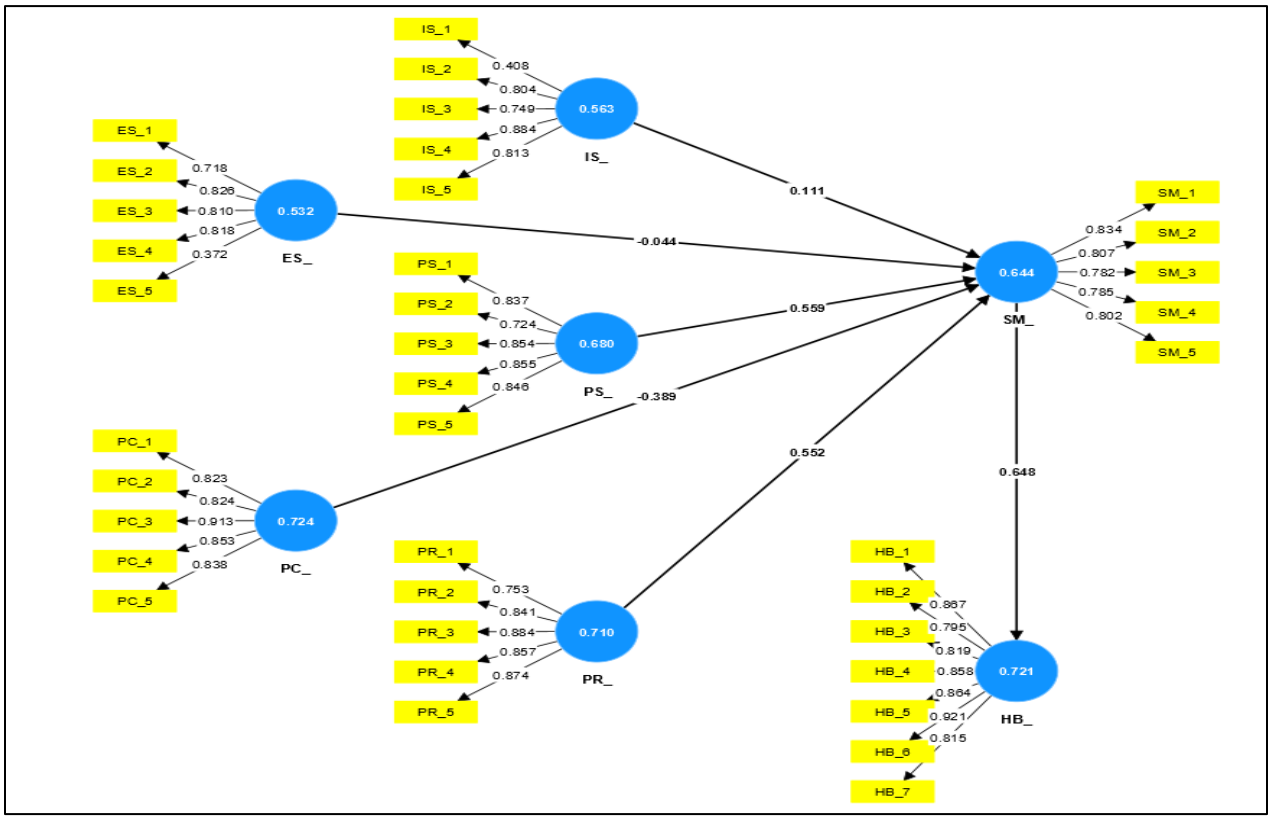

Figure 2: Summary of structural equation model results.

CONCLUSIONS

All in all, our review has shown the huge effect social media has on the existences of those with mental ailments. Social media locales have been demonstrated to be useful for interfacing with others, tracking down help, and getting data on mental health (Bucci et al., 2019; Naslund et al., 2020). The consequences of this study give trustworthiness to the possibility that individuals view social media as a valuable asset for getting help and information during seasons of worry and emergency (Khan et al., 2021; Zhong et al., 2021). The concentrate likewise underlines the effect of companion support and saw risk on social media use with regards to mental health.

It is pivotal to note, regardless, that neither informational nor emotional help arose as significant factors affecting the utilization of social media in association with mental health (Khan et al., 2021; Zhong et al., 2021). This shows that individuals might go to substitute sources or cycles for emotional and informational help, possibly highlighting social media stages' potential cutoff points there. The concentrate additionally shows that exorbitant social media use can influence mental health in both great and terrible ways, featuring the requirement for balance and smart utilization propensities.

This study adds to the knowledge of social media usage in the healthcare environment by building on other studies. Our understanding of the variables influencing social media adoption among healthcare professionals is enriched by this research's incorporation of new constructs and operationalization of them within the context of the technology acceptance model (TAM) (Khan et al., 2021). The study also emphasizes how important it is for practitioners to be aware of, receive training from, and receive assistance in order to use social media platforms efficiently and keep up adoption (Adams et al., 2021).

In conclusion, this study offers insightful guidance for consumers, politicians, and healthcare professionals negotiating the nuanced connection between social media use and mental health. Stakeholders may build strategies to maximize the positive impact of these platforms while reducing any negative consequences by being aware of the potential advantages and hazards connected with using social media. To guarantee the appropriate and efficient use of social media in promoting mental health and assisting people with mental illnesses, ongoing research and proactive measures are crucial.

REFERENCES

Adams, R., Ryan, T., & Wood, E. (2021). Understanding the factors that affect retention within the mental health nursing workforce: A systematic review and thematic synthesis. *International Journal of Mental Health Nursing*, *30*(6), 1476–1497. https://doi.org/10.1111/inm.12904

Anderson, J. C., & Gerbing, D. W. (1988). Structural equation modeling in practice: A review and recommended two-step approach. *Psychological Bulletin*, *103*, 411–423. https://doi.org/10.1037/0033-2909.103.3.411

Best, P., Manktelow, R., & Taylor, B. (2014). Online communication, social media and adolescent wellbeing: A systematic narrative review. *Children and Youth Services Review*, *41*, 27–36. https://doi.org/10.1016/j.childyouth.2014.03.001

Bucci, S., Schwannauer, M., & Berry, N. (2019). The digital revolution and its impact on mental health care. *Psychology and Psychotherapy*, *92*(2), 277–297. https://doi.org/10.1111/papt.12222

Chen, Y.-C., Hung, M., & Wang, Y. (2018). The effect of mandatory CSR disclosure on firm profitability and social externalities: Evidence from China. *Journal of Accounting and Economics*, *65*(1), 169–190. https://doi.org/10.1016/j.jacceco.2017.11.009

Chin, W. W. (1998). The partial least squares approach for structural equation modeling. In *Modern methods for business research* (pp. 295–336). Lawrence Erlbaum Associates Publishers.

Chu, J. T., Wang, M. P., Shen, C., Viswanath, K., Lam, T. H., & Chan, S. S. C. (2017). How, When and Why People Seek Health Information Online: Qualitative Study in Hong Kong. *Interactive Journal of Medical Research*, *6*(2), e24. https://doi.org/10.2196/ijmr.7000

DeVellis, R. F. (1991). *Scale development: Theory and applications* (p. 121). Sage Publications, Inc.

Ellison, N. B., Steinfield, C., & Lampe, C. (2011). Connection strategies: Social capital implications of Facebook-enabled communication practices. *New Media & Society*, *13*, 873–892. https://doi.org/10.1177/1461444810385389

Fardouly, J., Diedrichs, P. C., Vartanian, L. R., & Halliwell, E. (2015). Social comparisons on social media: The impact of Facebook on young women's body image concerns and mood. *Body Image*, *13*, 38–45. https://doi.org/10.1016/j.bodyim.2014.12.002

Firth, J., Cotter, J., Torous, J., Bucci, S., Firth, J. A., & Yung, A. R. (2016). Mobile Phone Ownership and Endorsement of "mHealth" Among People With Psychosis: A Meta-analysis of Cross-sectional Studies. *Schizophrenia Bulletin*, *42*(2), 448–455. https://doi.org/10.1093/schbul/sbv132

Fornell, C., & Larcker, D. F. (1981). Evaluating structural equation models with unobservable variables and measurement error. *Journal of Marketing Research*, *18*, 39–50. https://doi.org/10.2307/3151312

Glick, G., Druss, B., Pina, J., Lally, C., & Conde, M. (2016). Use of mobile technology in a community mental health setting. *Journal of Telemedicine and Telecare*, *22*(7), 430–435. https://doi.org/10.1177/1357633X15613236

Hawdon, J., Oksanen, A., & Räsänen, P. (2015). *Online Extremism and Online Hate Exposure among Adolescents and Young Adults in Four Nations*. https://www.semanticscholar.org/paper/Online-Extremism-and-Online-Hate-Exposure-among-and-Hawdon-Oksanen/6915dcbb079234cdd83170571fe340d9a8471ef8

Htay, M. N. N., Marzo, R. R., Bahari, R., AlRifai, A., Kamberi, F., El-Abasiri, R. A., Nyamache, J. M., Hlaing, H. A., Hassanein, M., Moe, S., Abas, A. L., & Su, T. T. (2021). How healthcare workers are coping with mental health challenges during COVID-19 pandemic? - A cross-sectional multi-countries study. *Clinical Epidemiology and Global Health*, *11*, 100759. https://doi.org/10.1016/j.cegh.2021.100759

Jelenchick, L. A., Eickhoff, J. C., & Moreno, M. A. (2013). "Facebook depression?" social networking site use and depression in older adolescents. *The Journal of Adolescent Health: Official Publication of the Society for Adolescent Medicine*, *52*(1), 128–130. https://doi.org/10.1016/j.jadohealth.2012.05.008

Khan, M. I., Saleh, M. A., & Quazi, A. (2021). Social Media Adoption by Health Professionals: A TAM-Based Study. *Informatics*, *8*(1), Article 1. https://doi.org/10.3390/informatics8010006

Kross, E., Verduyn, P., Demiralp, E., Park, J., Lee, D. S., Lin, N., Shablack, H., Jonides, J., & Ybarra, O. (2013). Facebook use predicts declines in subjective well-being in young adults. *PloS One*, *8*(8), e69841. https://doi.org/10.1371/journal.pone.0069841

Lei, H., Cui, Y., & Chiu, M. M. (2018). The relationship between teacher support and students' academic emotions: A meta-analysis. *Frontiers in Psychology*, *8*. https://doi.org/10.3389/fpsyg.2017.02288

Li, J., Theng, Y.-L., & Foo, S. (2014). Game-based digital interventions for depression therapy: A systematic review and meta-analysis. *Cyberpsychology, Behavior and Social Networking*, *17*(8), 519–527. https://doi.org/10.1089/cyber.2013.0481

Maher, C. A., Lewis, L. K., Ferrar, K., Marshall, S., De Bourdeaudhuij, I., & Vandelanotte, C. (2014). Are health behavior change interventions that use online social networks effective? A systematic review. *Journal of Medical Internet Research*, *16*(2), e40. https://doi.org/10.2196/jmir.2952

Maulik, P. K., Eaton, W. W., & Bradshaw, C. P. (2010). The effect of social networks and social support on common mental disorders following specific life events. *Acta Psychiatrica Scandinavica*, *122*(2), 118–128. https://doi.org/10.1111/j.1600-0447.2009.01511.x

Moreno, M. A., & Whitehill, J. M. (2014). Influence of social media on alcohol use in adolescents and young adults. *Alcohol Research: Current Reviews*, *36*, 91–100.

Naslund, J., Bondre, A., Torous, J., & Aschbrenner, K. (2020). Social Media and Mental Health: Benefits, Risks, and Opportunities for Research and Practice. *J Technol Behav Sci*, *5*(3), 245–257. https://doi.org/10.1007/s41347-020-00134-x

Pennycook, G., Bear, A., Collins, E. T., & Rand, D. G. (2020). The Implied Truth Effect: Attaching Warnings to a Subset of Fake News Headlines Increases Perceived Accuracy of Headlines Without Warnings. *Management Science*, *66*(11), 4944–4957. https://doi.org/10.1287/mnsc.2019.3478

Torous, J., Friedman, R., & Keshavan, M. (2014). Smartphone Ownership and Interest in Mobile Applications to Monitor Symptoms of Mental Health Conditions. *JMIR MHealth and UHealth*, *2*(1), e2994. https://doi.org/10.2196/mhealth.2994

Uchino, B. N., Cawthon, R. M., Smith, T. W., Light, K. C., McKenzie, J., Carlisle, M., Gunn, H., Birmingham, W., & Bowen, K. (2012). Social relationships and health: Is feeling positive, negative, or both (ambivalent) about your social ties related to telomeres? *Health Psychology: Official Journal of the Division of Health Psychology, American Psychological Association*, *31*(6), 789–796. https://doi.org/10.1037/a0026836

Verduyn, P., Gugushvili, N., & Kross, E. (2021). The impact of social network sites on mental health: Distinguishing active from passive use. *World Psychiatry*, *20*(1), 133–134. https://doi.org/10.1002/wps.20820

Vitari, C., & Ravarini, A. (2007). *Validation of IS positivist research: An application and discussion of the Straub, Boudreau and Gefen's guidelines*. https://www.semanticscholar.org/paper/Validation-of-IS-positivist-research%3A-an-and-of-the-Vitari-Ravarini/41e4a1153487f9a9cba2af45c4e7f6d59c7beec5

Walker, C. E., Krumhuber, E. G., Dayan, S., & Furnham, A. (2021). Effects of social media use on desire for cosmetic surgery among young women. *Current Psychology*, *40*(7), 3355–3364. https://doi.org/10.1007/s12144-019-00282-1

Zhong, B., Huang, Y., & Liu, Q. (2021). Mental health toll from the coronavirus: Social media usage reveals Wuhan residents' depression and secondary trauma in the COVID-19 outbreak. *Computers in Human Behavior*, *114*, 106524. https://doi.org/10.1016/j.chb.2020.106524