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Research Article

**THE IMPACT OF SOCIAL MEDIA AND TECHNOLOGY ON
MENTAL HEALTH****Nikita D. Kharate¹, Vaishnavi S. Landkar¹, Neha R. Jadhav¹, Viyanak Katekar²,
Dr. Swati Deshmukh³**¹ Department of Pharmacy, Shraddha institute of Pharmacy, washim, Maharashtra, India.² Department of Quality Assurance, Shraddha Institute of Pharmacy, washim, Maharashtra, India.³ Department of Pharmacology, Shraddha Institute of Pharmacy, washim. Maharashtra, India.**Abstract:**

Social media affects almost every aspect of our lives, but it also facilitates personal communication and thinking. Recent studies have shown that social media has both negative and positive effects on youth health; However, there are some relationships that require more attention. Objective: Given the limited research on the effects of social media on mental health, this qualitative study examines the lifestyles of adolescent boys and girls to understand how social media use contributes to youth health. Method: Descriptive epistemological approach, 25 semi-structured interviews and 11 focus groups. In addition, young men and women (aged 15 to 24 years) from different ethnicities in Singapore were selected through community sampling. We determined the research objectives through inductive thematic analysis and concept mapping. Research: We found that young people are involved in many activities through social media that provide the basis for the involvement of family and friends in the global health movement. Based on participants' narratives, our analysis revealed positive sentiments (three characteristics of youth social media use that may affect the health of peers and global community, engagement with social media content, and relationships as tools). There are 5 ways to achieve good mental health: (3) Problem solving, (4) Happiness, and (5) Other mental health factors (such as stress and personal growth). Conclusion: The results highlight the important role of social media and show that it can provide today's youth with opportunities for self-expression and social support that can positively affect their lives and thereby improve youth health. The results Our research can be used to develop and improve relationships with young people digitally on social media to improve mental health.

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INTRODUCTION:

Adolescence is an important period with independence from parents and a continuous life of friends [1]. This is also a period of depression [2], and mental health problems often occur during adolescence [1]. There is also evidence that the quality of life during adolescence is lower than in childhood [3]. Today's youth have grown up using social media and online media. Social media is an "interactive communication, identity, and community for sharing, sharing, discussing, and updating user content" [4]. Social media use during adolescence is associated with mental disorders and illness [5], and several studies have shown that social media use is associated with poor mental health and well-being. For example, Studies have shown that spending more time on social media is associated with symptoms of depression and anxiety [6-8] and chronic drinking problems. However, this research [5,9,10], which focuses mainly on the frequency of use and time of use, provides little insight into the different types of relationships that may be associated with mental illness and health in the community. Even if it grows Overall, some research shows that the use of social media should be seen as multi-use This specific use has been associated with negative results (eg [11-14]) and there in Due to the lack of knowledge, there is a need for more research into what young people do on social media and its impact on mental health and wellbeing. Self-expression has proven to be an important factor in social media for many researchers [15-19]. Self-presentation practices on social media include self-sharing content, posting ideas, and promote online news of interest (such as news, music and movies) with teenagers has been reported to be more likely to engage in this activity than other age groups (eg Herring et al Kapidzic [18]). Social media controls what, where (on which platform), how, and what to do with teenagers when they show themselves to others. Provides instant access to social feedback (eg likes and comments). social desire and direction to adjust the future presentation how teenagers want to express themselves. These feedback mechanisms and more The features of social media, such as the ability to reach a large audience, seem to make it easier. Presence of social media [21]. Given the attention of many social media platforms, others "nanoscale interactions" [22], the number of followers and comments, is likely to be a related problem Presenting yourself online is an important factor in the lives of many teenagers. It can be more related to social comparison in social media [23]. There are some previous studies showed that the measure of self-representation in social media is related to well-being and intelligence health. For example, Frison and

Egremont found teenagers who actively express themselves posting content on social media reported fewer symptoms of depression than those using it more passive viewing (ie consumption) of others' content on social media [24]. As such longitudinal study followed participants aged 10, 12, and 14 years, with more passive, Actively using "other-oriented" social media (ie, simply commenting or "liking" other people's posts) social media exposure has a differential effect on appearance-related self-esteem [25]. Specifically, the authors found that the use of other social-oriented media was associated with increased use reduced self-esteem in the latter category, but this was not found for active self-involvement; display on social media. However, they reported significant gender differences. sexual-special analysis found that other targeted social media interactions are used in a later study, self-esteem was stronger among girls but not among boys [25]. It was also reported that the girls continue to be involved in the use of other-oriented social media point Several other authors report gender differences in terms of self display on social media [18,26,27]. For example, Herring and Kapidzic reported that teenage girls friendship is more easily displayed on social media, while children post more related news, technology, sports and entertainment [18]. Prospective guys are also easier to hook up or get to know each other online social groups are different from autonomous social groups [18]. In addition, teenage girls use social media to communicate with peers and maintain or strengthen existing relationships boys, on the other hand, are more active in looking for new people and making new friends [18]. The former studies also show a link between self-reported authenticity and mental health and welfare [9,28]. In 2017, Twomey and O'Reilly wrote a series of reviews on self-reports on Facebook and Mental Health and Personality [28]. Especially adults and Older participants and found support for false self association, among other things. Presentation with low self-esteem and high level of social anxiety, true self-presentation and increased level of self-esteem. In the initial study, Jang and your colleagues reported that this is true Self-reported style leads to self-reported happiness among high self-reported users test method in adult samples [29]. In contrast, instrumental or strategic use (ie, only presenting "your best self") was associated with greater reported happiness regardless of self-esteem [30] [29]. Then, strategic self-concept among students reported to be associated with an increase in subjective well-being [31]. Also, Reinecke and your colleagues found that the authenticity of self-presentation in social media depends on its length with increased positive affect and decreased negative affect among adults [32]. In

one of several studies In adolescent participants, Sie and colleagues reported more authentic online self-presentation associated with lower levels of depressive symptoms as part of a mediation model [33]. On the other hand On the other hand, false self-presentational characteristics have been reported to be associated with negative mental health as adults show high symptoms of depression, anxiety and stress [34]. Although there is Several studies examine the possible consequences of different aspects of social self-presentation mass media, most previous research has focused on the antecedents or foundations for self-report [29]. We can identify the majority of studies, in addition to Xie et al [33], consists of a sample of young adults or adults. This is also reflected in the initial studies included systematic review by Twomey and O'Reilly [28]. Moreover, a recent review has shown that Self-expression can be an important factor to investigate better to understand the relationship between the use of social media and well-being among teenagers [9]. Based on these considerations, the need for additional research examining aspects of self-representation in social media and Associations with mental health and well-being among adolescents. Based on previous research shows the importance of personal investment and emotional involvement in the use of social media and mental health [35], an important aspect can be focused on (eg focus on attention and the importance of teenagers in self-expression activities) teenagers dress themselves; presence of social media. We are not aware of any previous studies that have investigated this focus on self-expression on social media and mental health and well-being. The purpose of this research is to investigate the relationship between focus on self-presentation social media and mental health and quality of life among teenagers. More precisely, we aimed Explore common and gendered connections between personality traits and symptoms depression and anxiety, as well as the general quality of life.

Method

Study Design

We used semi-structured qualitative interviews following a descriptive approach and a focus group discussion (FGD) to explore youth views on the positive role of social media on mental health. This approach allows for a more subjective view and a deeper understanding of the concept youth

Ethical approval

Ethical approval was obtained from the National Health Commission domain name Review Board (Reference DSRB 2020/00228). After discussing the objectives and procedures of the study secure

information and identity of participants, all participants and parents of persons under 21 provided written informed consent.

Sample

A target sample of youth between the ages of 15 and 24 was selected for the study. This age group this was chosen to reflect the youth age defined by the United Nations [25]. At that age this group is of particular interest in this study because this is a critical life stage of transition adolescence to adulthood and from being a student to the workforce) and is the best time enter mental health interventions. The sample was designed to include equal proportions of male and female participants and youth aged 15 to 19, 20 to 24, and belonging to 3 main ethnicities Singapore (Chinese, Malay and Indian), along with fewer young people from other ethnicities. This allowed the collection of rich and balanced data from a diverse group of young people. Efforts are also made including participants with psychological problems, dropping out of school, or risky experiences Behavior, such as gang involvement or drug use and incarceration, a consequence wide community of young people who may not be in an academic setting seems to be the population in many previous studies of youth mental health [11]. Some people are starting to hire young people peer referrals and acquaintances in conjunction with trained participants brochures to distribute and start snowballing. References are also sought community-based youth welfare services.

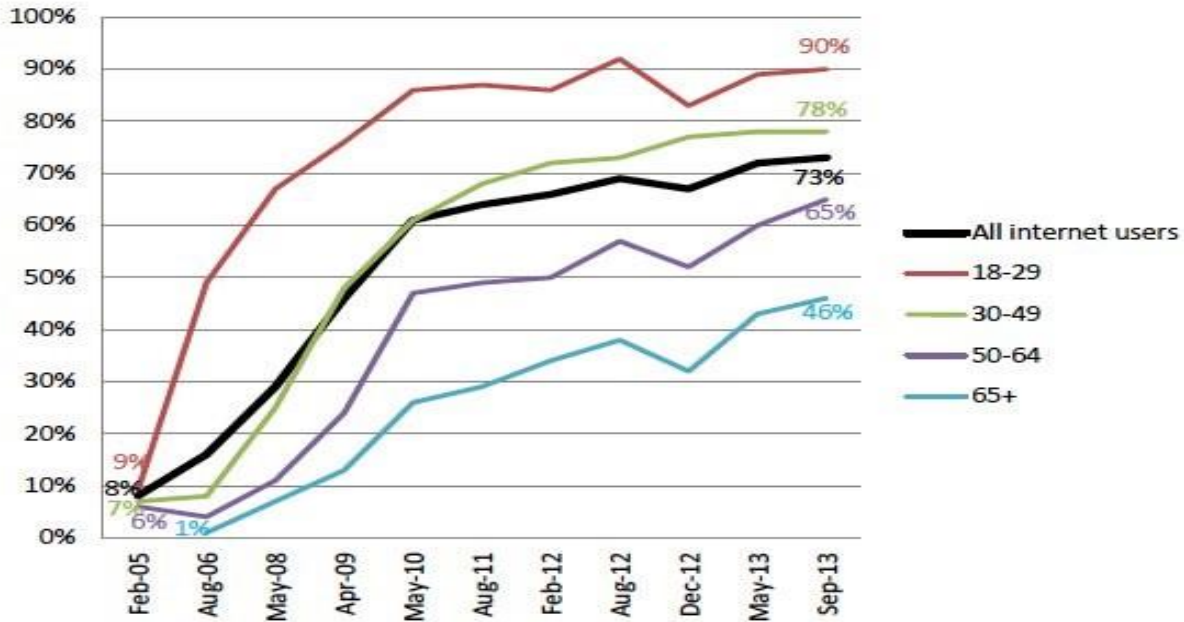
Data Collection

Data was collected through online video conferencing using the Zoom platform for all FGD and 21 interviews. The other 4 interviews were conducted in person. The data used in this research. It is part of a larger study examining the meaning and path to positive mental health among young people. Participants were also asked specific questions about their experiences using social media and how social they are media is good for mental health. For this study, "social media" broadly refers to any social media websites or network applications that allow you to share and access information in the form of messages; photos, videos, news, messages, comments, etc. [26]. Participants are encouraged to share their experiences with any site and platform if they believe it is related to positive mental health. This is it provided enough flexibility in the content generated by the survey. Basic research. In addition, the FGD participants were asked to provide to get started quickly, here's a few-word answer to the question, "When I use social media, I feel..." points for

discussion. Interviews lasted approximately 1.5 hours and FGDs lasted 2 hours average.

Social networking site use by age group, 2005-2013

% of internet users in each age group who use social networking sites, over time



Source: Latest data from Pew Research Center's Internet Project Library Survey, July 18 – September 30, 2013. N=5,112 internet users ages 18+. Interviews were conducted in English and Spanish and on landline and cell phones. The margin of error for results based on internet users is +/- 1.6 percentage points.

Data analysis

Coding and data were managed using NVivo 11 software [27]. In the early stages, Thematic analysis was conducted through inductive coding, organizing categories, and sequencing compare records and codes between coders [28]. Extensive standard codeThe category of how social media benefits mental health is created from the first 6 articles This was discussed among the coders and improvements were made based on the relevance and purpose of the research added Codes were then grouped into broader categories to produce a coding framework [29],used for the remaining entries. The current analysis focuses on positive effects social media on youth mental health. Categories were reviewed and major themes were generated of participants' narratives of positive experiences and positive interactions with social media mental health.

Qualitative concept mapping [30] was conducted using transcripts to identify summaries sentences or phrases linked in a series of indefinite "chains" to buildclear path to positive mental health in youth. This method has been used before understand mental health

data from a public health perspective [32,33] and have studies have found it useful as an "evidence gathering tool" [34].Findings: Children's health-related experiences of technology use divided into two categories: physical health experience and mental health experience. The physical health category describes the physical effects of Internet experiences as reported Children. This category reflects the children's attitude towards this experience. Mental health category related to psychological problems and problems related to the use of technology. This category summarizes children's perception of their experiences with psychological distress.

Physical Health Practices

Children's eye pain, eyelids and must wear glasses due to prolonged internet use. Nine-year-olds (focus group [FG],Portugal): "I've been online for four and a half hours and my eyes are starting to hurt." Romanian girlnoted (FG, age 13), "I still wear glasses because of the computer". The reason Due to eye problems, most children are attached to the computer screen or due to excessive use computer. Children report health problems when they feel they are "online too much". Using Facebook or playing online games. Children

report headaches, as described by a 16-year-old boy (Interview [INT], Portugal), "I don't want to be there for a long time (on Facebook) because it makes me headache". These issues also tell the story of a boy who explains that he cannot stay on the Internet for long because the headache stopped him from playing online games: "Researcher: do you play sometimes? Online for a long time? Boy: no, because my head hurts so I stop" (INT, 13 years old, boy, Portugal). Some children reported feeling tired after playing

online games for more than 30 minutes. A boy from Portugal reported: "When I play online, I usually play for half an hour because if I play I'm more tired" (FG, 11–13 years, boy, Portugal). Children often reported health problems using games or social networking sites. But in some cases, fatigue is also involved children's school work. For example: "I was doing school work for my teacher on the computer and I noticed my eyes are tired, then I'm tired" (FG, age 11, boy, Greece).

Social media challenges for mental health

The Science of the Role of Social Media in Attracting People with Mental Illness a Warning



labels about the effects of social media use on mental health and well-being especially in teenagers and young adults. Risks and harms of social media are frequently published in popular media and mainstream news, so look carefully research is needed in this area. Most of the 43 studies were conducted on young adults. The benefits of social media, including increased self-esteem and empowerment, are brought up self-disclosure (Best, Manktelow & Taylor, 2014). However, reported adverse effects adverse exposure, social isolation, depressive symptoms, and bullying (Best et al., 2014). In the following section (see Table 1 for a summary), we consider the three main ones risk categories related to the use of social media and mental health. Among them:

1) Impact about symptoms; 2) exposure to hostile influences; 3) daily life results.

Effect on symptoms

Research shows that the use of social media, especially heavy use, has been protracted. Time spent on social media platforms appears to contribute to several risk factors symptoms of mental health and well-being, especially among young people (Andreassen et al., 2016; Palang et al., 2013; Woods and Scott, 2016). It can be controlled by part of it. Screen time has negative effects on mental health, including increasing the severity of anxiety and well-documented depressive symptoms (Stiglic & Viner, 2019). A new study reports the negative effects of social media use on the mental health of young people, including the pressure of social comparison with others and great social emotions isolation after being rejected by others on social media (Rideout & Fox, 2018). In search young adults found that negative comparisons with others on Facebook contributed risk of inflammation and subsequent increase in depressive symptoms (Feinstein et al., 2013). However, the intersectional

nature of high screen time and mental health studies is not it is difficult to draw causal conclusions (Orben&Przybylski, 2019).The amount of social media use is also an important factor, as shown in the youth survey. Adults between the ages of 19 and 32 visit social media platforms the most every week associated with greater depressive symptoms (Lin et al., 2016). More time spent on social media media exposure is associated with greater anxiety symptoms (Vannucci, Flannery, &Ohannessian, 2017). The actual number of accessible platforms also seems to have contributed risk, as shown in another national study of young adults who used high doses Social media platforms have been associated with negative effects on mental health (Primack et al.,2017). Between 7 and 11 different social media platforms are used by respondents There is a 3-fold difference compared to respondents who only use 2 or fewer platforms high level of depressive symptoms and 3.2 times more likely to be highlevel of anxiety symptoms (Primack et al., 2017).Many researchers have suggested that the deterioration of mental health is related to social media can be used because social media is face-to-face communication for young people(Twenge& Campbell, 2018) and can contribute to greater loneliness (Bucci et al., 2019),and negative effects on other aspects of health and well-being (Woods & Scott, 2016). One Among respondents in a nationally representative survey of US teenagers reported spending more time on media such as social media platforms or smartphone devices; significantly increased depressive symptoms and suicidal ideation compared to teenagers who reported spending more time on non-screen activities such as personal relationships or sports and recreational activities (Twenge, Joiner, Rogers, &Martin, 2018). The social implications for people living with severe mental illness are direlittle attention has been paid to reporting psychiatric symptoms. The results of the study Participating in room chats can help prevent worsening of symptoms in young people Another study involved patients with psychotic disorders (Mittal, Tessner, & Walker, 2007).psychosis found that social media use predicted low mood (Berry, Emsley,Lobban, &Bucci, 2018). This study shows a clear connection between social media substance use and mental health that may be missed in general population studies (Orben & Przybylski, 2019) and emphasizes the need to learn how social media can contribute severity of symptoms and whether protective factors can be identified to reduce this risk.

Hostile relationship

Popular social media platforms can create potential situations for individuals victims of negative

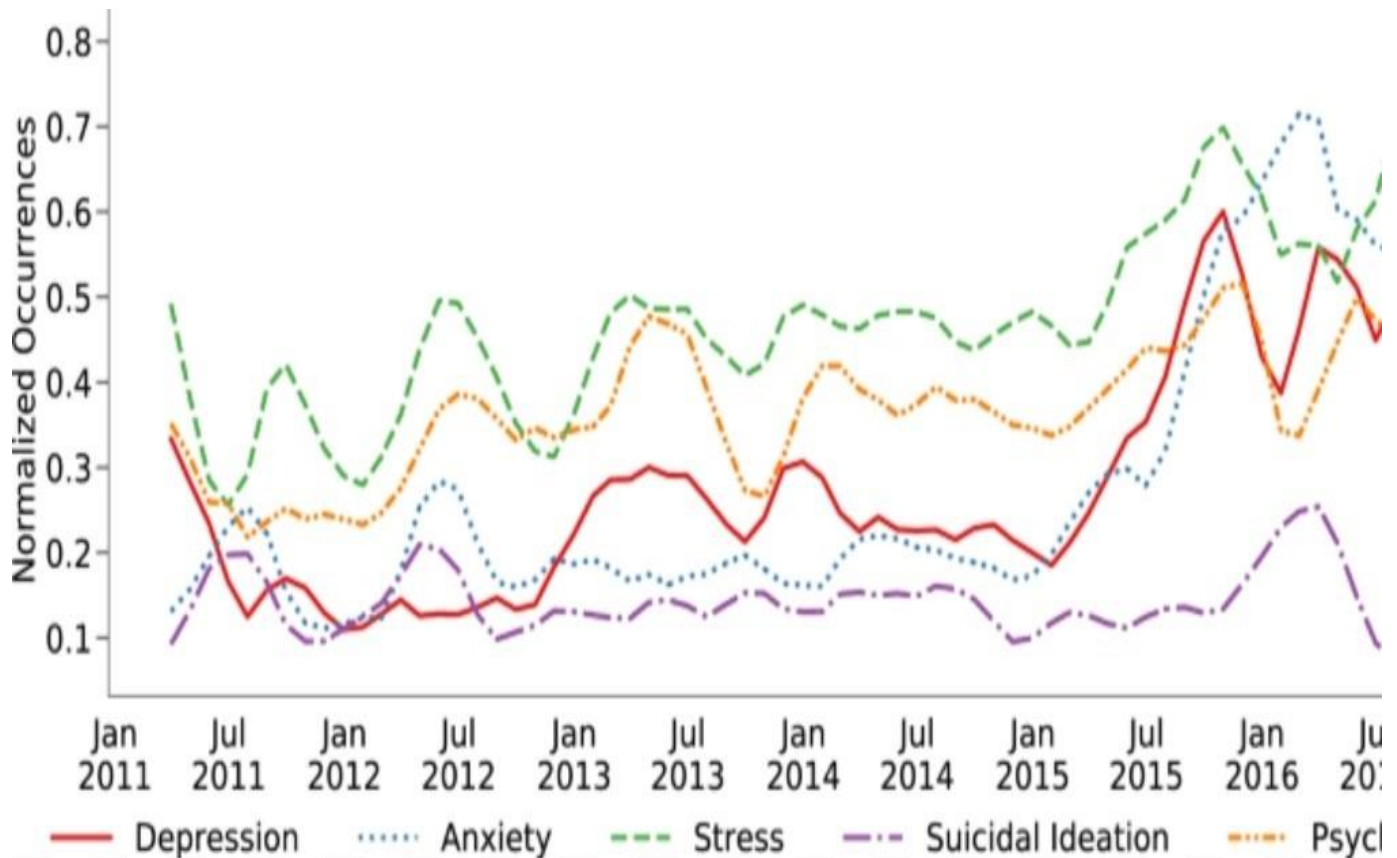
comments or posts. Cyberbullying is an online form aggression directed at specific people such as peers or acquaintances compared to random hostile comments posted online, they are considered the most harmful(Hamm et al., 2015). Importantly, cyberbullying on social media shows that it remains harmful impact on mental health in the form of increased depressive symptoms anxiety symptoms, as reported in 36 studies of children and adolescents humans (Hamm et al., 2015). Furthermore, cyberbullying affects women equally as shown in the National Survey of adolescents in the United States among women Men are twice as likely to be victims of cyber bullying (Alhajji, Bass, & Dai,2019). Most research on cyber-bullying symptoms of depression or anxiety (Hamm et al., 2015), even if prolonged Switzerland found that cyber-attacks cause significant depression time (Machmutow, Perren, Sticca, &Alsaker, 2012).For youth aged 10-17 years who reported major depressive symptoms, there were more than 3Compared to young people who were victims of online harassment in the past year reported mild or no depressive symptoms (Ybarra, 2004). Likewise, in 2018, nationally from youth, respondents aged 14 to 22 years, with moderate to severe depression symptoms are more likely to have had a negative experience when using social media and in particular, they were more likely to report experiencing hostile comments or being "harassed"; from others compared to respondents without depressive symptoms (31% vs 14%).(Rideout& Fox, 2018). This study describes the risk of victimization on social media andThe link to poor mental health may be in people living with dementia disabled person can experience greater hostility online than with a non-disabled person This illness would also be consistent with research showing greater risk of hostility increased violence and discrimination directed at people living with dementia personality disorder, especially with severe mental illness(Goodman et al., 1999).A computational study of mental health awareness campaigns on Twitter was reported at the time content is rare, even the most common (retweet)that harmful content can travel quickly on social media (Saha et al., 2019). another study He was able to map the spread of social media posts about the Blue Whale Challenge The game promotes suicide on Twitter, YouTube, Reddit, Tumblr and other forumsin 127 countries (Sumner et al., 2019). These findings highlight the importance of monitoring the actual content of social media posts, including determining whether the content is hostile help you harm yourself or others. This is appropriate because it looks at the existing research duration of exposure may not account for the cognitive impact of certain types of content not enough to understand the

health and psychological effects of using this platform health.

DISCUSSION:

Basic findings. This study suggests that college students' social media exposure can help predict Basic information about campus mental health counselling. We have adopted a machine learning approach for this expression of mental health in the Reddit community of the university, then including the sample results predictive model of the standard number of campus mental health consultations. First, we found that students' (online) expression of mental health (offline) is associated with mental health care used on college campuses. Second, we examine the SARIMA model predicting campus intelligence Health tips that log social media data can predict the ground truth within 10.65% error. the error is 38% lower than the model that does not include social media data. Finally, a Dive deeper into the language of social media writing by comparing monthly data with high and low intelligence health visits using psycholinguistic characterization and an unsupervised language model called SAGE. Us indicates that the word associated with the month of high mental health visits is more common. Grades, academic tests, career, and psychological characteristics that indicate poor mental well-being; low mental health visits show a high prevalence of social, party-related words; psycholinguistic traits that indicate relaxation and

better mental health. Social media information together the ability of students to acquire language and social skills so that they can speak "language-in-reading". Sensor" to assess the mental health needs and demands of students. Methodological and practical implications. This work determines the construct validity of the calculations. Regional assessment of mental health from social media data. Therefore, this data is arbitrary Including other types of passive lenses to measure important measurements that are difficult to predict data such as use of mental health services and access to support services are available or easily collected. Our research shows that these data are face-to-face, which reveals the discussion and issues related to local, contextual, and contemporary events of interest, for example, in a certain policy era. "But, it's ridiculous to carry a gun on campus," one student said of the issue of US gun laws. Gun license! Again after the death of a student on campus, students feel anxious and worried things, for example, "It's sad! It's like jumping like you want to die." Suganan and confrontation showcases the promise that our machine learning model is built on a large number of social media We believe the data will be used for periods of varying lengths as they ebb and flow such as a typical academic year, expected stressful periods, and years in which students typically recover and rejuvenation. However, due to the highly sensitive nature of mental health counsellors. Because of the



practical challenges of collecting data and accessing it, we have to rely on single data university. As a result, we can not claim the public at this stage. However, this paper can be done for the first time. Investigate the validity of social media data, which can be expanded to future studies involving different universities, content and database. Then, this work provides empirical evidence that can move towards building practical applications. Using passive and passive information sources on campus mental health. Recent studies have shown that high shows how important stakeholders are, including campus stakeholders and more specifically, physicians the potential of this technology in the form of an active technology assessment tool^{37,38}. Tooth Work has determined the structure and facet of these assessments as described above, so that it can present building tools and dashboards that proactively assess online student mental health social conversation. Although not ready for immediate real-world use, we consider two applications that work can inspire.

CONCLUSION:

As mentioned in this comment, social media has become an important part of life many people live with mental disorders. Many of these people use social media share their experiences with mental illness and seek and seek support from others treatment recommendations, access to mental health services, and resistance to symptoms (Bucci et al., 2019; Hayton-Williamson et al., 2015; Naslund, Aschbrenner et al., 2016b). With the growth of the digital mental health industry, it is diverse. The accessibility and popularity of social media platforms can be used to enable individuals require mental health services or experience difficulties related to mental illness to access evidence; basic treatment and support. To achieve this goal and learn about the existence of social mediate platform can advance efforts to close the gap in existing mental health services. For researchers in the United States and globally, it will be necessary to work closely with doctors and to ensure the possible benefits of social use and people suffering from social diseases media is carefully measured against the expected risk.

REFERENCES:

1. Patton, G.C.; Sawyer, S.M.; Santelli, J.S.; Ross, D.A.; Afifi, R.; Allen, N.B.; Arora, M.; Azzopardi, P.; Baldwin, W.; Bonell, C.; et al. Our future: A Lancet commission on adolescent health and wellbeing. *Lancet* 2016, 387, 2423–2478. [CrossRef]
2. Hollenstein, T.; Lanteigne, D.M. Lanteigne, Emotion regulation dynamics in adolescence. In *Emotion Regulation: A Matter of Time*; Routledge: New York, NY, USA, 2018.
3. Freire, T.; Ferreira, G. Health-related quality of life of adolescents: Relations with positive and negative psychological dimensions. *Int. J. Adolesc. Youth* 2016, 23, 11–24. [CrossRef]
4. Kietzmann, J.H.; Hermkens, K.; McCarthy, I.P.; Silvestre, B.S. Social media? Get serious! Understanding the functional building blocks of social media. *Bus. Horiz.* 2011, 54, 241–251. [CrossRef]
5. Schønning, V.; Hjetland, G.J.; Aarø, L.E.; Skogen, J.C. Social Media Use and Mental Health and Well-Being Among Adolescents—A Scoping Review. *Front. Psychol.* 2020, 11, 1949. [CrossRef] [PubMed]
6. Brunborg, G.S.; Andreas, J.B. Increase in time spent on social media is associated with modest increase in depression, conduct problems, and episodic heavy drinking. *J. Adolesc.* 2019, 74, 201–209. [CrossRef]
7. Coyne, S.M.; Rogers, A.A.; Zurcher, J.D.; Stockdale, L.; Booth, M. Does time spent using social media impact mental health?: A eight year longitudinal study. *Comput. Hum. Behav.* 2020, 104, 106160. [CrossRef]
8. Green J, Thorogood N. *Qualitative Methods for Health Research*. Thousand Oaks, CA: SAGE Publications Ltd; 2018.
9. Definition of Youth. United Nations. URL: <https://www.un.org/esa/socdev/documents/youth/fact-sheets/youth-definition.pdf> [accessed 2021-07-25]
10. Branley DB, Covey J. Is exposure to online content depicting risky behavior related to viewers' own risky behavior offline? *Computers in Human Behavior* 2017 Oct;75:283-287. [doi: 10.1016/j.chb.2017.05.023]
11. NVivo qualitative data analysis software. QSR International. URL: <https://www.qsrinternational.com/nvivo-qualitative-data-analysis-software/support-services/nvivo-downloads> [accessed 2022-02-18]
12. Braun V, Clarke V. What can "thematic analysis" offer health and wellbeing researchers? *Int J Qual Stud Health Well-being* 2014 Oct 15;9(1):26152 [FREE Full text] [doi: 10.3402/qhw.v9.26152] [Medline: 25326092]
13. Attride-Stirling J. Thematic networks: an analytic tool for qualitative research. *Qualitative Research* 2016 Nov 07;1(3):385-405. [doi: 10.1177/146879410100100307]
14. Novak JD, Cañas AJ. *The Theory Underlying Concept Maps and How to Construct Them*. Institute for Human and Machine Cognition. 2006. URL: http://cmap.ihmc.us/publications/researchpapers/theorycm/TheoryUnderlyingConceptMaps_bck-11-01-06.htm [accessed 2022-02-18]
15. Hay D, Kinchin I, Lygo-Baker S. Making learning visible: the role of concept mapping in higher education. *Studies in Higher Education* 2008 May 29;33(3):295-311. [doi: 10.1080/03075070802049251]
16. Nabitz U, van Randeraad-van der Zee C, Kok I, van Bon-Martens M, Serverens P. An overview of concept mapping in Dutch mental health care. *Eval Program Plann* 2017 Feb;60:202-212. [doi: 10.1016/j.evalprogplan.2016.08.012] [Medline: 27614364]
17. O'Campo P, Salmon C, Burke J. Neighbourhoods and mental well-being: what are the pathways? *Health Place* 2009 Mar;15(1):56-68. [doi: 10.1016/j.healthplace.2008.02.004] [Medline: 18420446]
18. Kinchin IM, Streatfield D, Hay DB. Using Concept Mapping to Enhance the Research Interview. *International Journal of Qualitative Methods* 2010 Mar 01;9(1):52-68. [doi: 10.1177/160940691000900106]
19. 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.
20. Biagianni B, Quraishi SH, & Schlosser DA (2018). Potential benefits of incorporating peer-to-peer interactions into digital interventions for psychotic disorders: a systematic review. *Psychiatric Services*, 69(4), 377–388. [PubMed: 29241435]
21. Bidargaddi N, Musiat P, Makinen V-P, Ermes M, Schrader G, & Licinio J (2017). Digital footprints: facilitating large-scale environmental psychiatric research in naturalistic settings through data from everyday technologies. *Molecular psychiatry*, 22(2), 164. [PubMed: 27922603]
22. Birnbaum ML, Emala SK, Rizvi AF, De Choudhury M, & Kane JM (2017). A Collaborative Approach to Identifying Social Media Markers of Schizophrenia by Employing

- Machine Learning and Clinical Appraisals. *Journal of medical Internet research*, 79(8), e289.
23. Birnbaum ML, Rizvi AF, Correll CU, Kane JM, & Confino J (2017). Role of social media and the Internet in pathways to care for adolescents and young adults with psychotic disorders and non-psychotic mood disorders. *Early intervention in psychiatry*, 77(4), 290–295.
 24. Booker CL, Kelly YJ, & Sacker A (2018). Gender differences in the associations between age trends of social media interaction and well-being among 10-15 year olds in the UK. *BMC public health*, 18(1), 321. [PubMed: 29554883]
 25. Lin LY, Sidani JE, Shensa A, Radovic A, Miller E, Colditz JB, ... Primack BA (2016). Association between social media use and depression among US young adults. *Depression and anxiety*, 22(4), 323–331.
 26. Machmutow K, Perren S, Sticca F, & Alsaker FD (2012). Peer victimisation and depressive symptoms: can specific coping strategies buffer the negative impact of cybervictimisation? *Emotional and Behavioural Difficulties*, 17(3-4), 403–420.
 27. Manikonda L, & De Choudhury M (2017). Modeling and understanding visual attributes of mental health disclosures in social media. Paper presented at the Proceedings of the 2017 CHI Conference on Human Factors in Computing Systems.
 28. Mead S, Hilton D, & Curtis L (2001). Peer support: A theoretical perspective. *Psychiatric rehabilitation journal*, 25(2), 134. [PubMed: 11769979]
 29. Mereish EH, Sheskier M, Hawthorne DJ, & Goldbach JT (2019). Sexual orientation disparities in mental health and substance use among Black American young people in the USA: effects of cyber and bias-based victimisation. *Culture, health & sexuality*, 21(9), 985–998.
 30. Miller BJ, Stewart A, Schrimsher J, Peoples D, & Buckley PF (2015). How connected are people with schizophrenia? Cell phone, computer, email, and social media use. *Psychiatry research*, 225(3), 458–463. [PubMed: 25563669]
 31. Mittal VA, Tessner KD, & Walker EF (2007). Elevated social Internet use and schizotypal personality disorder in adolescents. *Schizophrenia research*, 94(1-3), 50–57. [PubMed: 17532188]
 32. Moorhead SA, Hazlett DE, Harrison L, Carroll JK, Irwin A, & Hoving C (2013). A new dimension of health care: systematic review of the uses, benefits, and limitations of social media for health communication. *Journal of medical Internet research*, 15(4), e85. [PubMed: 23615206]
 33. Naslund JA, & Aschbrenner KA (2019). Risks to privacy with use of social media: understanding the views of social media users with serious mental illness. *Psychiatric Services*, appi. ps. 201800520.
 34. Naslund JA, Aschbrenner KA, & Bartels SJ (2016). How people living with serious mental illness use smartphones, mobile apps, and social media. *Psychiatric rehabilitation journal*, 39(4), 364–367. [PubMed: 27845533]
 35. Naslund JA, Aschbrenner KA, Marsch LA, & Bartels SJ (2016a). Feasibility and acceptability of Facebook for health promotion among people with serious mental illness. *Digital health*, 2, 2055207616654822.
 36. Naslund JA, Aschbrenner KA, Marsch LA, & Bartels SJ (2016b). The future of mental health care: peer-to-peer support and social media. *Epidemiology and Psychiatric Sciences*, 25(2), 113–122. [PubMed: 26744309]
 37. Naslund JA, Aschbrenner KA, Marsch LA, McHugo GJ, & Bartels SJ (2018). Facebook for supporting a lifestyle intervention for people with major depressive disorder, bipolar disorder, and schizophrenia: an exploratory study. *Psychiatric Quarterly*, 59(1), 81–94.
 38. Naslund JA, Aschbrenner KA, McHugo GJ, Unutzer J, Marsch LA, & Bartels SJ (2017). Exploring opportunities to support mental health care using social media: A survey of social media users with mental illness. *Early intervention in psychiatry*.
 39. Thoits PA. Mechanisms linking social ties and support to physical and mental health. *J Health Soc Behav* 2011 Jun 14;52(2):145-161. [doi: 10.1177/0022146510395592] [Medline: 21673143]
 40. Chen H, Li X. The contribution of mobile social media to social capital and psychological well-being: Examining the role of communicative use, friending and self-disclosure. *Computers in Human Behavior* 2017 Oct;75:958-965. [doi:10.1016/j.chb.2017.06.011]
 41. Crocker PRE, Sabiston CM, Kowalski KC, McDonough MH, Kowalski N. Longitudinal Assessment of the Relationship Between Physical Self-Concept and Health-Related Behavior and Emotion in Adolescent Girls. *Journal of Applied Sport Psychology* 2007 Feb 23;18(3):185-200. [doi: 10.1080/10413200600830257]
 42. Toma C, Chen Y, Olson C, Fan T, Brown B. Youth Social Media Use and Well-Being. In: *The*

- International Encyclopedia of Media Psychology. Hoboken, NJ: Wiley-Blackwell; 2020.
43. Hanley AW, Garland EL. Clarity of mind: Structural equation modeling of associations between dispositional mindfulness, self-concept clarity and psychological well-being. *Pers Individ Dif* 2017 Feb 01;106:334-339 [FREE Full text] [doi:10.1016/j.paid.2016.10.028] [Medline: 28584390]
 44. Craven R, Marsh H. The centrality of the self-concept construct for psychological wellbeing and unlocking human potential: Implicat. *Educational and Child Psychology* 2008;25(2):104-118.
 45. Urista M, Dong Q, Day K. Explaining Why Young Adults Use MySpace and Facebook Through Uses and Gratifications Theory. *Human Communication* 2009;12(2):215-229 [FREE Full text]
 46. Jiang L, Bazarova N, Hancock J. The Disclosure–Intimacy Link in Computer-Mediated Communication: An Attributional Extension of the Hyperpersonal Model. *Human Communication Research* 2011;37(1):58-77. [doi:10.1111/j.1468-2958.2010.01393.x]
 47. Pempek TA, Yermolayeva YA, Calvert SL. College students' social networking experiences on Facebook. *Journal of Applied Developmental Psychology* 2009 May;30(3):227-238. [doi: 10.1016/j.appdev.2008.12.010]
 48. Lazarus R, Folkman S. *Stress, Appraisal, and Coping*. New York, NY: Springer Publishing; 1984.
 49. Johnshoy Q, Moroze E, Kaser I, Tanabe A, Adkisson C, Hutzley S, et al. Social media use following exposure to an acute stressor facilitates recovery from the stress response. *Physiol Behav* 2020 Sep 01;223:113012. [doi:10.1016/j.physbeh.2020.113012] [Medline: 32533973]
 50. Moreno MA, Jelenchick LA, Egan KG, Cox E, Young H, Gannon KE, et al. Feeling bad on Facebook: depression disclosures by college students on a social networking site. *Depress Anxiety* 2011 Jun 11;28(6):447-455 [FREE Full text] [doi:10.1002/da.20805] [Medline: 21400639]
 51. Wang V, Edwards S. Strangers are friends I haven't met yet: a positive approach to young people's use of social media. *Journal of Youth Studies* 2016 Mar 21;19(9):1204-1219. [doi: 10.1080/13676261.2016.1154933]
 52. Kothgassner OD, Goreis A, Kafka JX, Kaufmann M, Atteneder K, Beutl L, et al. Virtual social support buffers stress response: An experimental comparison of real-life and virtual support prior to a social stressor. *J Behav Ther Exp Psychiatry* 2019 Jun;63:57-65. [doi: 10.1016/j.jbtep.2018.11.003] [Medline: 30454876]
 53. Sherman LE, Payton AA, Hernandez LM, Greenfield PM, Dapretto M. The Power of the Like in Adolescence: Effects of Peer Influence on Neural and Behavioral Responses to Social Media. *Psychol Sci* 2016 Jul 31;27(7):1027-1035 [FREE Full text] [doi: 10.1177/0956797616645673] [Medline: 27247125]
 54. Diener E, Ryan K. Subjective Well-Being: A General Overview. *South African Journal of Psychology* 2009 Dec 01;39(4):391-406. [doi: 10.1177/008124630903900402]
 55. Datu JAD, King RB. Subjective well-being is reciprocally associated with academic engagement: A two-wave longitudinal study. *J Sch Psychol* 2018 Aug;69:100-110. [doi: 10.1016/j.jsp.2018.05.007] [Medline: 30558746]
 56. Chae J. Reexamining the relationship between social media and happiness: The effects of various social media platforms on reconceptualized happiness. *Telematics and Informatics* 2018 Sep;35(6):1656-1664. [doi: 10.1016/j.tele.2018.04.011]
 57. MacLeod AK. Well-being, positivity and mental health: an introduction to the special issue. *Clin Psychol Psychother* 2012 May 16;19(4):279-282. [doi: 10.1002/cpp.1794] [Medline: 22589138]
 58. Primack BA, Escobar-Viera CG. Social Media as It Interfaces with Psychosocial Development and Mental Illness in Transitional Age Youth. *Child Adolesc Psychiatr Clin N Am* 2017 Apr;26(2):217-233. [doi: 10.1016/j.chc.2016.12.007] [Medline: 28314452]
 59. Betton V, Woollard J. *Teen Mental Health in an Online World: Supporting Young People around their Use of Social Media, Apps, Gaming, Texting and the Rest*. London, United Kingdom: Jessica Kingsley Publishers; 2018.
 60. O'Reilly M, Dogra N, Whiteman N, Hughes J, Eruyar S, Reilly P. Is social media bad for mental health and wellbeing? Exploring the perspectives of adolescents. *Clin Child Psychol Psychiatry* 2018 Oct 20;23(4):601-613. [doi:10.1177/1359104518775154] [Medline: 29781314]