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Submission date: 10-Nov-2022 10:26AM (UTC+0700)

Submission ID: 1949799764


File name: 25._Psychological_well-being_of_social_media_users.pdf (344.34K)

Word count: 3380

Character count: 18844

ORIGINAL RESEARCH

Psychological well-being of social media users: A structural equation modelling analysis

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<https://doi.org/10.31603/nursing.v9i1.3952>

Abstract

Social media, as part of human life, has positive and negative impacts. Even though negative impacts have been identified, positive impacts are rarely studied. The identification of positive impacts will be useful for social media users and can be a source of information and prevention of health problems for social media users. This study used a cross-sectional design with a purposive sampling method. The research was conducted on people who live in Ponorogo and use social media. The results showed psychological well-being on social media users at normal levels and mild stress. The influencing factors are gender and education. Education to the public needs to be provided about the positive effects of social media on psychological wellbeing, especially at stress levels so that the risk of increasing mental disorders can be minimized.

Keywords: social media; psychological well-being; mental health nurses; nursing assessment; community practice



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1. Introduction

Restlessness, tension and difficulty sleeping are the main signs of psychological distress (Casagrande et al., 2020; McGinty et al., 2020). Individuals feel confused (Trowell, 2018), feel worried (Beard et al., 2020) with the consequences of the conditions at hand and have difficulty concentrating (Viertiö et al., 2019). The stage of growth and development of adolescence as a clinical condition related to psychological distress (Bernstein & Pfefferbaum, 2018). Various causes of psychological distress include situational crises (Barbe & Pennington-Gray, 2018), threats to self-concept (Roddy et al., 2018), fear of failure (Horton, 2020), dysfunction of the family system (Panganiban-Corales & Medina, 2011) and less exposure to social media information (Asibong et al., 2020). Various efforts can be made to reduce psychological distress including relaxation therapy (Dumbala et al., 2020), group support counseling (Shechter et al., 2020) and reduction of psychological distress through social media (Keles et al., 2020; McFerran et al., 2018). However, the reduction of psychological distress through social media is still rarely discussed. Excessive use of social media every day has a negative effect on a person's psychological condition which makes him more vulnerable to anxiety, depression, and other psychological disorders, especially at the age of 18-25 years which is a transition period from adolescence to adulthood. A study found that students and college students who checked their Facebook account every 15 minutes during their study time had lower achievement (Rosen et al., 2011). Social media is a medium that allows everyone to interact and socialize and communicate without being hindered by space and time. Social media invites anyone who is interested to participate by contributing and giving feedback openly, commenting, and sharing information in a fast and unlimited time (Kaplan & Haenlein, 2010).

Social networking sites such as Facebook and Instagram have implemented screening and intervention procedures when users show signs of emotional distress or risk of suicide. Social media also presents an unprecedented opportunity to increase mental health awareness, and social media-based health promotion efforts have been tested for a variety of mental health and behavioral problems (Nesi, 2020). Merchantid's research can predict disease conditions from social media users. These include diabetes and mental health conditions including

anxiety, depression, and psychosis (Merchantid et al., 2019). People's personalities, mental states, and health behaviors are all reflected on social media, and all have a huge impact on health. The research is since language on Facebook can predict diagnoses in people's health records, revealing new opportunities to personalize care and understand how patients' daily lives relate to their health. The purpose of this study is to explain the reduction of psychological distress using social media.

2. Method

This study used a cross sectional design approach. The study was conducted in June-July 2020 with a total of 110 respondents. The technique of side purposive sampling with the criteria of people living in Ponorogo, using social media in the last 1 year. Collecting psychological distress data to measure stress levels using Depression, Anxiety, Stress Scale 42 (DASS 42) Lovibond and Lovibond measuring instruments in 1995 which have been translated and used by Damanik. Damanik using the internal validity technique found 41 valid items and 1 invalid item where the value was reliable ($\alpha = 0.9483$). Psychological stress scores include Normal = 0-14, mild stress = 15-18, moderate stress = 19-25, severe stress = 26-33, very heavy stress = 34 (Lovibond & Lovibond, 1995). Univariate analysis for respondent characteristics uses percentages while bivariate analysis to determine the effect of social media on psychological distress of social media users uses inferential analysis using Structural Equation Modeling (SEM) based on variance which is often called Partial Least Square (PLS).

3. Results

The following is the detail of our findings during the study process. The data is presented reflecting the demographic data as presented in Table 1. The results showed that almost all of the respondents (77.3%) were female, the average age was 17-25 years(85%), almost all of them had high school education (72.7%) and half of their stress levels were in the normal range (50%).

Table 1. Demographic Data

Variables	Percentage (%)
Sex	
Female	77.3
Male	22.7
Age (Years)	
12-16	1.8
17-25	85.0
26-35	9.0
36-45	2.7
46-55	0.9
Education	
Elementary School	0.9
Junior High School	3.7
Senior High School	72.7
Bachelor	22.7
Stress Level	
Normal	50.0
Mild	20.0
Moderate	19.1
Severe	10.9

Furthermore, the statistical analysis of the variable and demographic data are presented in Figure 1 and Figure 2, respectively. The results showed that demographic factors had no effect on psychological distress. However, the researchers found that respondents in the category of psychological distress were good. This can be proven from the results of measuring the stress level of the respondent's half (50%) in the normal category and (20%) in the mild stress level. Stress is not a disease, individuals who experience mild stress can experience increased motivation and

performance. The influencing demographic variables are gender and education level of respondents. The gender of the respondents is almost entirely (77.3%) female, the age is in the late adolescence category (85%) and almost all of the respondents' education (72.7%) is high school (Hakim, 2020).

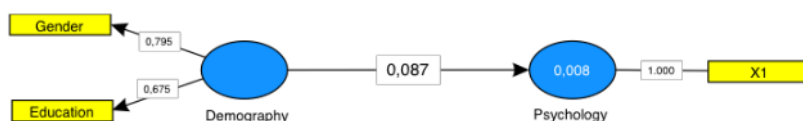


Figure 1. Statistical analysis of the variables



Figure 2. Demographic data and psychological well-being

4. Discussion

Social media has a significant influence on people's lives in general. Some of the most popular social media sites currently used by teenagers include YouTube (85%), Instagram (72%), Snapchat (69%), and Facebook (51%). There is a new social media site platform that has been introduced recently, TikTok, which is quickly gaining traction among young people. Adolescents in this stage of development are very dependent and influenced by their peers. This is because an important developmental task for adolescents is the formation of intimate peer relationships, increased independence from adults, and the formation of self-identity. The achievement of adolescent developmental tasks can be fulfilled and assisted with the existence of social media. This is because in social media there are features and contexts to help adolescents achieve these developmental tasks such as friends who are always available, personal information is displayed publicly and permanently, and there is feedback from colleagues that can be measured instantly given in the form of "likes" (Nesi, 2020).

The level of mild stress found in this study is in line with several previous studies as revealed by Wood, et al. (2016) that the presence of friends on social media has a positive impact on adolescent mental health. During adolescence, peer friendships become more prominent and more complex and are usually characterized by similarities with their peers and the importance of social status. Positive adjustment during adolescence is influenced by the possession of broad social skills and the social acceptance one acquires (eg, status and power) (Brown & Larson, 2009). These findings highlight the importance of social circles and opportunities for learning and the provision of positive friendships experienced at different developmental periods. The quality of friendship has the ability to protect adolescents from negative influences. In addition, adolescents who use social media tend to have lower levels of loneliness and higher social adjustment (Yang & Brown, 2013). Other researchers state that social media can improve relationships and social well-being, as well as increase self-disclosure (Valkenburg & Peter, 2009). These findings are supported by Dolev-Cohen dan Barak (2013) that sending electronic messages in online conversations, is a means of channeling emotions to cause emotional relief through conversations with peers and this can contribute to the psychological well-being of adolescents. Another factor that contributes to the level of stress in social media users who are mostly in the adolescent age range is the feeling of well-being when presenting themselves on social media for self-presentation purposes (J. Kim & Lee, 2011; Qiu et al., 2012). Through this self-presentation, you will get feedback from fellow social media users so that it has an impact on the formation of a positive self-identity in adolescents (Valkenburg & Peter, 2009). Adolescents who are spared from an identity crisis will avoid prolonged stress.

Almost all the social media users (77.3%) in this study were female. The findings in this study differ from previous studies that adolescent girls, compared to boys, react more emotionally and behaviorally to ambiguous ridicule on Facebook (Barnett et al., 2013). In addition, female students are more likely to become anxious if access to Facebook is not available and report that Facebook causes stress (Thompson & Loughheed, 2012). However, in this study the researcher argues that the level of stress experienced by respondents who use social media is in a mild stage influenced by the ability of women to express their emotions on social media compared to men who tend to be quiet so that it has an impact on the feeling of relief experienced by respondents. This is in line with the findings of (Dolev-Cohen & Barak, 2013) that sending electronic messages in online conversations is a means of channeling emotions to cause emotional relief through conversations with peers and this can contribute to the psychological well-being of

adolescents.

The results showed that the final education level of the respondents was at the high school stage (72.7%). Respondents with high school education are currently studying in college or as students. Bekalu et al. (2019) stated that when compared to individuals with less education or from secondary school, those with college education, and bachelor's and higher degrees reported better social well-being. According to B. Kim & Kim (2017), the use of social media is positively related to the heterogeneity of student communication networks, which in turn is positively related to social capital and psychological well-being so that it has an impact on respondents' mild stress levels. Someone with a higher level of education has a better cognitive ability to deal with stressors (Mandemakers & Monden, 2010). There is an intermediate variable which shows that demographic factors affect psychological distress. Demographic factors indirectly affect psychological distress through social media user variables. It is necessary to examine other variables that directly affect psychological distress.

5. Conclusion

There is no influence of demographics (gender and education) on psychological distress. Social media users can improve psychological distress in adolescents. Education to the public needs to be given about the effects of social media on psychological distress so that the risk of increasing mental disorders can be minimized.

Acknowledgement

The authors would like to thank the Institute for Research and Community Service (LPPM) Universitas Muhammadiyah Ponorogo for the Beginner Lecturer Research grant (PDP) that has been given. In addition, the authors also express gratitude to the Faculty of Health Sciences for giving permission in this research.

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