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THE PREDICTIVE EFFECTS OF SOCIAL MEDIAS/ONLINE COMMUNICATION ON WELL-BEING AMONG URBAN TEENAGERS OF MANIPUR STATE IN INDIA



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ABSTRACT

Manipur is a state situated in the northeast of India and its capital is the city of Imphal. The Manipur state covers an area of 22,327 square kilometers (8,621 sqm) with almost 3million of population with the Meitei, who are majority group of the state, the Pangals/Pangans (Manipuri Muslims), Kuki and Naga people, who speak a variety of Sino-Tibetan languages. The Manipur state has long connected the Indian subcontinent to Southeast Asia, China (or East Asia), Siberia,etc. enabling migration of people, cultures, and religions (*Naorem Sanajaoba (Editor), Manipur, Past and Present : The Heritage and Ordeals of a Civilization, Volume 4*). In this paper, we select the sample only from the urban areas of the state, and we proposed two hypotheses to better understand the effects of social media like online communication on subjective well-being with a sample of Manipur State urban teenagers (*n* = 190). The results of liner regression analysis found that social media like online communication was positively related to urban teenagers' subjective well-being. For boys, the coefficient of determination of online communication on subjective well-being was **.143**, and for girls the coefficient of determination was **.040**, indicating that urban boys benefit more from online communication than do urban girls.

KEYWORDS

Manipur state, Social Medias, Online Communication, Subjective Well-Being, Urban Teenagers.

INTRODUCTION

In the last decade, internet has become one of the most important communicating and information seeking sources which even strongly affects the live styles of people. As a defining Internet user group, teenagers are more apt to online communication than the adults because of their developmental stages. However, it is surprising that researchers have not given enough attention to such Internet user group, with only a few studies having been conducted on Manipur state urban teenagers' online communication. Social media, such as Instant Messaging like Whatsapp, Internet-based chat-room, has been suggested to have obvious impact on users' subjective well-being, especially for teenagers due to their curiosity about new emerging technologies and their developmental stage. Many researchers have examined the association between teenagers' online communication and subjective well-being (Carden & Rettew, 2006; Schiffrin, Edelman, Falkenstern, & Stewart, 2010; Valkenburg & Peter, 2007). However, so far no consistent conclusions have been made. A review on literature reveals that at least two theoretical perspectives exist regarding the effects of online communication on users' well-being: the displacement hypothesis and the augmentation hypothesis. The displacement hypothesis asserts that time spent using a given medium replaces that spent using other mediators (Nie, Hwellygus, & Erbring, 2002; Shklovski, Kraut, & Rainie, 2004), implying that online communication users have spent time in online settings rather than offline situations and then their subjective well-being would be harmed (Morgan & Cotten, 2003; Nie, Hwellygus, & Erbring, 2002; Nie, 2001; Weiser, 2001). For example, Kraut et al. (1998) suggested that online communication users substitute weak ties for strong ones, implying that Internet motivates teenagers to form online contacts with strangers, instead of maintaining relationships with existing friends. The online contacts, which are characterized by superficial weak-tie relationships, are thought to reduce the quality of teenagers' existing friendships and their well-being. The augmentation hypothesis holds that certain medium of communication can facilitate the use of others (Katz & Rice, 2002; Turke, 1995). Specifically, the use of e-mail or Instant Messaging apps like Whatsapp may improve face-to-face interaction and promote users' well-being (Morgan & Cotten, 2003; Shaw & Gant, 2002; Valkenburg & Peter, 2007). For instance, using a sample of 1,210 Dutch teenagers between 10 and 17 years of age, Valkenburg and Peter (2007) found that Instant Messaging, which was mostly used to communicate with existing friends, is a significant predictor of users' subjective well-being. Aside from studies supporting the augmentation or displacement hypothesis, there are also studies reporting no significant associations between online

communication and subjective well-being (Gross, 2004; Jackson et al., 2004; Kraut, 2002; LaRose, Ghuay, & Boivin, 2002; Mesch, 2001, 2003; Sanders, Field, Diego, & Kaplan, 2000; Waestlund, Norlander, & Archer, 2001). Current literature lack research data about online communication in Manipur State, especially in sample of teenagers residing in urban areas. Our research studies the Internet communication in a sample of Manipur State urban teenagers with the goal of understanding the relationship between online communication and subjective well-being. Earlier research suggested that online communication would reduce teenagers' social connectedness and well-being (Kraut et al., 1998). Researchers holding this idea believed that Internet motivates teenagers to form superficial online relationship with strangers, to spend more time with online strangers rather than friends in reality world, and then harm their interpersonal relationships and well-being (Kraut et al., 1998). This assumed relationship between online communication and quality of friendship were supported by some studies (Kraut et al., 1998). However, in recent studies, it has been found that, when users communicate with their existing friends, online communication can enhance the interaction between users and promote their well-being (Morgan & Cotten, 2003; Shaw & Gant, 2002; Valkenburg & Peter, 2007). It may be that, at the initial stage of online communication technology, users mainly use it for communication with strangers because of their curiosity on new emerging technology. Yet in recent years, it has been found that users mostly communicate with existing friends through Internet, which will promote their closeness to their friends and then improve their subjective well-being. Therefore, in our study, we put forward our first hypothesis that online communication will promote users' subjective well-being. Compared with adolescent girls, adolescent boys tend to have a deeper and wider self-disclosure in online settings than in offline settings (Schouten, Valkenburg, & Peter, 2007). Self-disclosure is thought to be an important factor that has a positive influence on individuals' interpersonal relationship and wellbeing (Berndt, 2002). Adolescent boys usually face more inhibitions when disclosing themselves in offline settings than adolescent girls do. In online settings, where factors that might cause uneasiness in communication (e.g., audio/visual cues) are removed, adolescent boys will be more likely to disclose themselves better. Relevant studies have found that Internet use may have different effects on boys and girls. Using a sample of 85 Israeli university students, Amichai-Hamburger and Ben-Artzi (2003) found that the correlations between social, informational, leisure Internet use and loneliness were .01, .001, and .28 for males, and .38, .18, and -.04 for females. Cooper (2003) obtained that the correlation coefficient between depression and

Volume-8 | Issue-8 | August - 2019

Internet use was .47 for boys and .22 for girls. In the present study, i put forward my second hypothesis that online communication will have a bigger effect on subjective well-being for boys than for girls.

METHODS PROCEDURE AND PARTICIPANTS

We treated all the participants according to the ethical guidelines of the American Psychological Association (APA, 2001). The data were classified and group into four classes of approximately 60 participants each. After obtaining informed consent, participants were given 50 minutes to complete the pen-and-paper questionnaire. The participants were 200 teenagers (97 boys, 103 girls) from an urban private higher secondary school of Manipur situated at the capital, Imphal. Teenagers ranged in age from 15 to 19 years (M = 16.64, SD = 1.22). 73% were from urban areas itself while 27% were from countryside areas but residing in Imphal itself. Approximately 83% were Meities majority, while 9% were Tribals minority, 8% were Manipuri Muslims minority. These demographics represent the student population at this school.

MEASURES

Online Communication

We measured online communication with four adapted questions that have been used in Valkenburg and Peters' study (2006): a) "On Weekdays (Monday to and including Friday), how many days do you usually use Whatsapp?" b) "On the Weekdays (Monday to and including Friday) that you use Whatsapp, how long do you then usually use it?" c) "During Weekends (Saturday and Sunday), how many days do you usually use Whatsapp?" The response options Are: 1) only on Saturday; 2) only on Sunday; 3) on both days; and 4) I do not use Whatsapp on the Weekends. If respondents selected response options 1 to 3 in the question on Whatsapp Iekend use, they Are asked the following questions for Saturday and /or Sunday: d) "On a Saturday (Sunday), how long do you usually use Whatsapp?" Respondents' Whatsapp use per week was calculated by multiplying the number of davs per week that they used Whatsapp (range 0 through 7) by the number of minutes they used it on each day. This operationalization of weekly time spent with a medium has been proven valid for children older than 9 (Vander Voort & Vooijs, 1990).

Table 1.

Group (Urban)	Online Communications		Subjective Well-being	
	М	SD	Μ	SD
Overall (urban)	12.30	10.50	3.52	0.79
Boys (urban)	11.40	9.83	4.75	0.85
Girls (urban)	13.07	11.03	3.68	0.71

Descriptive data for both boys and girls for online communication and subjective well-being

Subjective Well-Being

The Subjective Well-Being Scale is used in order to measure university students' subjective Well-being. This scale developed by Tuzgöl-Dost (2005). Internal reliability for the Subjective Well-Being Scale was a Cronbach-alfa coefficient of .93. Test re-test reliability yielded a correlation coefficient of r = .86 (Tuzgöl-Dost, 2006). In the present study, a English edition of this scale was acquired through a translation and retranslation process. It has a Cronbach-alfa coefficient of .89 in the present study.

RESULTS

The urban adolescents in the sample reported that they used online communication on average for 12.3 hours a week. No gender differences are found (males = 11.40 ± 9.83 ; females = 13.07 ± 11.03 hours/week; t = 1.09, p < .05) (*Table 1*). Most of the respondents (67%) indicated that they mainly use Whatsapp apps for communication with existing friends.

Regression Coefficients of Online Communication on Subjective Well-Being

A liner regression analysis was performed with the score on online communication as the independent variable and the subjective wellbeing score as the dependent variable. A significant model emerged ($F = 11.986, p < .001, r^2 = .060, = .25$), in which the online communication score was demonstrated to be a positive predictor of online self-disclosure.

Coefficients of Determination of Online Communication on Subjective Well-Being among Urban Girls and Urban Boys

For better understanding on the relationship between online

communication and subjective Well-being, another two linear regression analysis were performed to examine the predictive effects of online communication on subjective Well-being among urban girls and urban boys respectively. Following the recommendation of Cohen (1994), Rosenthal (1995) and Schmidt (1996), the coefficients of determination, namely r^2 values, will be used in interpreting the "research significance" or importance of the relationships. Specifically, a decision was made to only interpret as "meaningful" rvalues that are greater than .050. Thus, at least 5% of the online selfdisclosure variance had to be explained for an effect to be interpreted as "important". There are a number of advantages to using the coefficient of determination in interpreting the value or importance of findings. First, use of this effect size index focuses attention on variance explained and hence helps researchers "honest" by reducing the temptation to inappropriately inflate or deflate the importance of findings. Cohen (1994) noted that these tendencies are sometimes all too common in studies that depend on interpretation of p values alone. In addition, because r^2 serves as an index of relative strength, its use allows researchers to meaningfully compare and contrast effect sizes. For example, if an r^2 for the association between online communication and online self-disclosure is .10 for females and .05 for males, one can conclude that the magnitude of the relationship is twice as strong for females as compared to males. In the former case, 10% of the variance is accounted for, while in the latter case only 5% of the variance is accounted for. In the present study, the results should that, for boys, the coefficient of determination of online communication on subjective well-being was .143; while for girls, the regression coefficient of online communication on subjective well-being was .040. The coefficient of determination for boys was almost five times of that for girls, indicating that urban boys' online communication has a more important role on their subjective well-being than that for urban girls.

DISCUSSION

In consistent with the recent studies (Valkenburg & Peter, 2007), the present study found that urban teenagers mainly use Internet Messaging apps Whatsapp for communication with existing friends. Participants reported that they spent an average of 12.31 hours last week on online communication, with 67% indicating that they use Internet to communicate with their existing friends. For urban boys, they spent an average of 11.40 hours on online communication while for urban girls they spent an average of 13.07 hours on it last week. No gender difference was found on the mean time of online communication (t = 1.09, p > .05). The main purpose of our study was to examine the predictive effect of online communication on subjective with a sample of Manipur State urban teenagers. In the present study, participants spending more time on online communication reported higher level of subjective Well-being (F = $11.986, p < .001, r^2 = .060, = .25$, a finding that has supported our first hypothesis and is consistent with previous studies which have found that online communication is positively related to users' Well-being (Boneva, Quinn, Kraut et al., 2006; Coleman, Paternite, & Sherman, 1999; Gross, Juvonen, & Gable, 2002; Joinson, 2001; TidWell & Walther, 2002). It may be that, online communication with existing friends can promote users' interaction in offline settings, which could strengthen their closeness to friends and improve their subjective Wellbeing. A further analysis reveals that urban boys can profit more from online communication than urban girls do, which has supported our second hypothesis. For urban boys the coefficient of determination was .143 and for urban girls .040. This finding is in keeping with previous relevant studies which have found that the correlation coefficient between Internet use and Well-being are larger for boys than for girls (Copper, 2003). The finding that urban boys benefit more from online communication may be caused by the reason that urban boys tend to disclose themselves better than do urban girls in online settings. Self-disclosure has been proposed as an important factor influencing individuals' Well-being. It has been found that respondents who reporting high level of self-disclosure tend to score higher on Wellbeing measurement (Valkenburg & Peter, 2007). Compared with urban girls, urban boys usually face more inhibitions when disclosing themselves in offline settings, and when they are in online settings, they can disclose themselves better because the reduced audiovisual cues make them feel less uneasiness. In this line, online communication has more impact on well-being for urban boys than for urban girls.

LIMITATION

This study is one of the first to explore predictive effects of online

Volume-8 | Issue-8 | August - 2019

communication on users' subjective well-being with a sample that typically using Instant Message apps Whatsapp in urban areas of Manipur State. Also this is one of the first to find that online communication has different extent of effects on subjective well-being for urban boys and urban girls. Despite the strengths, the results of this study should be viewed in light of some limitations. First, the sample used in this study is a relatively small and homogeneous group of students at a small vocational school. Therefore cautions should be made when the conclusions in this study are generalized to other populations. Second, the data are obtained from a cross-section design, which prevents the determination of casual relationships. Third, in this study, participants are asked to recall their online communication occurring last week, the memory bias is unavoidable. In the future study, researchers should consider using a qualitative approach aimed at complementing survey data, to better understand the association between online communication and subjective well-being. Additionally, experimental and longitudinal studies should be conducted to provide stronger evidence on the associations among variables examined in this study. Last, it should be noticed that it is not the case that online communication always has positive impact on users' subjective well-being. As researchers have suggested, online communication can have a positive influence on quality of friendship and Well-being only when it is used for communication with existing friends (Bessière et al., 2008; Valkenburg & Peter, 2007). When online communication is used for conversation with strangers, however, the Internet users' friendship might be negatively impacted (Valkenburg & Jochen, 2009).

CONCLUSION

In the state of Manipur, social media like the online communication with existing friends has a positive effect on teenagers' subjective wellbeing. And, the online communication with existing friends has a bigger positive effect on subjective well-being for urban boys than for urban girls

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