The Study of Internet Addiction with Depression, Anxiety and Social Isolation

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Abstract

The internet is an instrument that is utilized as a fundamental part of daily life throughout the world. Undoubtedly, the internet is a revolution in information technology. However, internet addiction is becoming a problem among some users as the usage of the internet is growing rapidly each year. Therefore, this study aimed to determine the relationship between internet addiction and developing of anxiety, depression and social isolation. Based on the sample size, 61 respondents were used to participate in this study. Census technique was applied in the distribution of the questionnaire. The results shown that there is a positive relationship between internet addiction towards developing anxiety, depression and social isolation. However, new studies are required to document the efficacy treatment of for the subjected issue. Further discussion on the results are shared in this paper.

Keywords: Internet addiction, anxiety, depression, social isolation

1. Introduction

Recent developments in internet access and usage in the world have heightened year by year. Such upward trend has been associated with people’s digital need and motivation. In recent years, there has been an increasing interest in body of research investigating what kinds of Internet use that associated with Internet abuse (Zhang, Lim, Lee and Ho, 2017). There was an argument that when technology evolves, the concerns regarding technology will evolve (Steven, 1999). Nevertheless, Morahan–Martin (2008) observed that serious effect on the patterns of using the Internet that result in disturbances in a person’s life can be associated with excessive or unregulated usage. Preliminary work on internet addiction was undertaken by Soulioti, Stavropoulos, Christidi, Papastefanou and Roussos (2018) in which the authors found that people prefer to invest their time and energy in the virtual world of the internet. Thus, they isolated themselves from the surrounding and live in a virtual environment as they choose to withdraw their emotional investments from face to face communication. Similarly, Izanloo and Goudarzi (2011) found that excessive use of the Internet cause social isolation and a reduction in social relations. The study acknowledged Internet usage cause serious disturbances that lead to addiction despite various approaches to the conceptualization of the
condition, which is still developing and negotiated in ongoing research (Morahan–Martin, 2008). In another major study, Singh (2014) reported that the individuals who become addicted to the internet resulted negative consequences from it such as depression, anxiety and anger. In the same vein, questions have been raised with the prolonged use of internet as Busari (2016) in his study set out to determine Internet addiction and found effect of internet addiction were anxiety, stress and depression. The studies presented thus indicates the need to understand the disturbance of internet addiction and the relationship towards anxiety, depression and social isolation.

2. Literature Review

This study attempted to examine the Internet Addiction towards depression, anxiety and social isolation.

2.1 Depression

Improper or excessive use can produce many negative consequences over internet in the era of global communication (Odacı & Çelik 2013). Research finding by Bernardi & Pallanti (2009) also point towards correlations between internet addiction and depression. This is supported by other authors which reveal the positive relationship between depression and internet addiction (Bahrainian, Alizadeh, Raeisoon, Gorji, & Khazaee, 2014).

Moreover, preliminary work on observing depressive people was undertaken by Yang, Choe, Baity, Lee & Cho Low (2005) and the researchers pointed that low self-esteem, low motivation, fear of rejection and the need for confirmation from others may resulted from frequent use of the internet. Besides, the interactive functions may lead to internet addiction in individuals with these characteristics.

In another study, Aakin & Iskender (2011) suggested that the reduction of the activity may reduce the level of depression. The authors added that the dependency on internet and sorrow lead to internet abuse which brings about a disturbance of an individual and the general population. It is apparent that this might remove important time that individuals go through with family and companions.

2.2 Anxiety

The most issues that can be identified which normally connected with Internet is social anxiety. Individual who is addicted will invest the greater part of their energy to involving basically, to the point they wind up restless to confront individuals, all things considered. Egger and Rauterberg (1996) found that anxiety will cause to bodily discomfort and stress in their study regarding Internet addiction, the person who have experience the symptom of bodily discomfort and stress regularly will facing a lot of difficulties to conveying and cooperation with others in a positive way.

Meanwhile the investigation from Azher, Khan, Salim, Bilal, Hussain, and Haseeb (2014) between internet addiction and anxiety understudy showed that 34% of understudies are having medical issue, both physically and rationally because of Internet addiction and dependence. Besides, another factor that will be considered as Internet addiction sign is nervousness. Based on
Lin and Tsai (2002) studies, sensation pursuing will be affected, individual emotional in a poor condition level are noticeable. Nevertheless, Ahmadi, ZadehMohammadi, Masoombeigi & Sohrabi (2012) believe that the internet user might have used Internet as an excuse, and this probably designates that when a person does not have access to the Internet get anxious and to reduce their anxiety uses Internet.

2.3 Social Isolation

Yang (2001) found that the particularly noticeable cause of the Internet is related with social interaction and unsuitably adapted for individual as it will decreases in the quality of group of friends. In addition, Ko, Chen and Yen (2005) stated that lacking element of confident level and life satisfaction will take place as they distance themselves off from others. The researchers believed that Internet addiction was related positively and affected to decrease in social interactions, depression, loneliness and lower self-esteem.

Vinas (2009) confirmed that Internet misuse has its consequences, both psychological and behavioural among young people. Tonioni, D’Alessandris and Lai (2012) agreed that such consequences include the emergence of possible behavioral alterations, loss of control, school failure, social isolation and an increase in family conflict. Meanwhile, according to Kraut, Patterson, Lundmark, Kiesler, Mukopadhyay and Scherlis (1998) research, people who constantly use the internet non-stop, and have no adequate time for social activities have lower social skills. In addition, Tiwari and Ruhela (2012) mentioned that if the extent of social interaction increases, extent of internet usage may also be decreases. Their poor self-esteem can cause them to have poor communication skills and feelings of isolation. It also can create additional problems in life, such as difficulties in working with groups, moving to social activities or even doing a presentation.

According to research by Wilson, Gosling and Graham (2012), when an individual does not receive any interaction neither from the community nor from family and friends, their emotion and interests will be focusing on the internet and they prefer to spend their time on internet and maintains the virtual relationship. Likewise, Martin and Schumacher (2000) stated in their study that social interactions and happiness will be reduced with the extreme dependence of the virtual world with detachment from reality and physical inactivity in the associated person. Hence, the person becomes more addicted to internet and slowly will resign from the community.

The result of Sharifpoor, Khademi and Mohammadzadeh (2017) study showed a positive significant relationship between social isolation towards internet addiction. They prefer to spend their time with internet, feel better in virtual world and so get more attracted to the internet and gradually become addicted to it (Perlman, 2004).

2.4 Internet Addiction

Young (2004) defined Internet addiction as an overwhelming of desire to use the Internet whereby the reduction of time spent without connecting to the Internet cause intense nervousness and aggression in the event of deprivation, and progressive deterioration of social and family life. Therefore, the internet addict becomes connected to the Internet for longer periods with increasing depression and loneliness (Mohammadkhani, Alkasir, Pourshahbaz, Jafarian Dehkordi & Soleimani Sefat, 2017).
However, Singh (2015) argues that the internet is not an enemy, but the people rely upon its false appeal for emotional and psychological needs. In a study which set out to determine the level of addiction, Young (1998) reported that most Internet addicts have a history of depression and anxiety. This view is supported by Greenfield (1999) who write that mental disorder, depression and social problems were closely related to internet addiction. Report listed from Young (2004) shows that internet dependent was highly rated with 39 hours per week spent on online rather than non-dependent rate that is five hours.

Nevertheless, Kuss & Lopez-Fernandez (2016) argue that despite the proliferation, internet addiction in term of its existence and the condition has not yet been understood very well. In 2017, Rabadi, Ajlouni, Masannat, Bataineh & Batarseh published a paper which they highlighted that excessive internet use may create a heightened level of psychological arousal and limited physical activity. They argue that possibly leading to the user experiencing physical and mental health problems. A broader perspective needs to take place to analyse potential disorder that has not yet been officially recognised.

Accordingly, the following hypotheses were proposed:

H1: There is a significant positive relationship between internet addiction with depression

H2: There is a significant positive relationship between internet addiction with anxiety

H3: There is a significant positive relationship between internet addiction with social isolation

3. Methodology

The paper primarily used correlation study to facilitate the decision to test variables that been used as predicament for the criterion. This research is designed to investigate the relationship between internet addiction towards depression, anxiety and social isolation. The sample was drawn from one international school employees from academic department (Internet users) in Klang Valley, Malaysia. A self-administered survey was conducted with 61 sets of questionnaires were distributed to the respondents using census which take complete count. This technique is used as it should suit the needs and resources for researcher to obtain the data. The required data for this study were collected by using survey instrument which consists of a set of structured questions. These data were coded and analysed using SPSS Version 23. The response rate for this study was 100% and thus, total questionnaires analysed were 100% (n=61) from the sample size.
4. Results and Findings

4.1 Demographic Profile of Respondents

Table 1. Respondent’s Profile

<table>
<thead>
<tr>
<th>Gender</th>
<th>Frequency</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Male</td>
<td>21</td>
<td>34.4%</td>
</tr>
<tr>
<td>Female</td>
<td>39</td>
<td>63.9%</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Age of Respondent</th>
<th>Frequency</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>20-29 years old</td>
<td>20</td>
<td>32.8%</td>
</tr>
<tr>
<td>30-39 years old</td>
<td>27</td>
<td>44.3%</td>
</tr>
<tr>
<td>&gt;40 years</td>
<td>14</td>
<td>22%</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Race of Respondent</th>
<th>Frequency</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chinese</td>
<td>21</td>
<td>34.4%</td>
</tr>
<tr>
<td>Indian</td>
<td>18</td>
<td>29.5%</td>
</tr>
<tr>
<td>Others</td>
<td>11</td>
<td>18%</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Years of Employment</th>
<th>Frequency</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>&lt;5 years</td>
<td>61</td>
<td>100%</td>
</tr>
</tbody>
</table>

As shown in Table 1, out of 61 respondents, male represented 34.4% of the respondents and female 63.9%. Most of the respondents aged between 30-39 years old with 27 (44.3%) of respondents and only 14 (23%) respondents aged 40 years old and above. With regards to the race of respondents, 21 (34.4%) were Chinese and 18 (29.5%) were Malay while remaining 11 (18%) were both Indian and others. Besides, majority of the respondents, 61 (100%) had work more than 5 years.

4.2 Reliability Analysis

Table 2. Reliability Analysis

<table>
<thead>
<tr>
<th>Variables</th>
<th>Cronbach’s $\alpha$</th>
<th>Number Item (n=5)</th>
<th>Degree of Reliability</th>
</tr>
</thead>
<tbody>
<tr>
<td>Depression</td>
<td>.801</td>
<td>5</td>
<td>Very High</td>
</tr>
<tr>
<td>Anxiety</td>
<td>.849</td>
<td>5</td>
<td>Very High</td>
</tr>
<tr>
<td>Social Isolation</td>
<td>.897</td>
<td>5</td>
<td>Very High</td>
</tr>
<tr>
<td>Internet Addiction</td>
<td>.889</td>
<td>5</td>
<td>Very High</td>
</tr>
</tbody>
</table>

Table 2 indicates the result of reliability analysis. Reliability can be referred as the degree of scale that generates reliable result if repetitive measurement made by computing the Cronbach’s alpha score. A Cronbach’s Alpha is a reliability coefficient that indicated how well the items in a set are positive correlate to one another. The Cronbach’s alphas for all the variables are in the range of 0.801 to 0.897 which indicates that the items measured were well understood by the targeted respondents. Hence, it is reliable and all acceptable to be used as survey questions to respondents.
4.3 Correlation Analysis

Table 3. Correlation Analysis

<table>
<thead>
<tr>
<th></th>
<th>Pearson Correlation</th>
<th>Sig. (2 tailed)</th>
<th>N</th>
</tr>
</thead>
<tbody>
<tr>
<td>Depression</td>
<td>.740**</td>
<td>.000</td>
<td>61</td>
</tr>
<tr>
<td>Anxiety</td>
<td>.774**</td>
<td>.000</td>
<td>61</td>
</tr>
<tr>
<td>Social Isolation</td>
<td>.832**</td>
<td>.000</td>
<td>61</td>
</tr>
</tbody>
</table>

Correlation analysis was performed to examine the relationship between internet addiction towards depression, anxiety and social isolation. The Pearson Correlation was performed to assess the association between the three distinct forms. Result shows that there is a significant relationship which it suggests that internet addiction can cause a depression. The result has been concurred by Yucens and Uzer (2018). Based on Table 3, the Pearson correlation test has proven that there is a strong relationship between the two variables (r=.740, p=.000). Next, anxiety indicates (r=0.774, p=.000) and social isolation (r=0.832, p=.000).

4.4 Summary of Hypothesis Testing

Table 4. Summary of hypothesis testing

<table>
<thead>
<tr>
<th>Hypothesis</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>H1: Depression – Internet Addiction</td>
<td>Supported</td>
</tr>
<tr>
<td>H2: Anxiety - Internet Addiction</td>
<td>Supported</td>
</tr>
<tr>
<td>H3: Social Isolation - Internet Addiction</td>
<td>Supported</td>
</tr>
</tbody>
</table>

5. Findings and Discussion

Based on correlation analysis, the positive relationship showed that internet addiction has direct and significant relationship with depression, anxiety and social isolation. This is consistent with the findings conducted together with other research by Akin & Iskender (2011). Internet addiction is a growing problem and there will exist a possibility that it is prevalent in our environment and locality. This problem can be seen at any age group with higher incidence among adolescence. Another study by Martin and Schumacher (2000) also concluded that Internet addicted users were relatively lonelier and more depressed as compared to those who had no signs of dependence on Internet. There are a lot identified factors that contribute to the development of internet addiction and individual will affect their work performance and self-esteem. The research
objectives have been achieved and all variables prove strong relationship. Therefore, it can be concluded that H1, H2 and H3 are all accepted.

6. Conclusion

This study examines the relationship between internet addiction with depression, anxiety and social isolation. Research which related to gender differences for respondents need to be identified to understand if there is any potential cause that possibly linked by gender. Likewise, it can be in a focus group to sync with understanding type of users that addicted to the internet. Thus, added value of the academic study to the industrial practices in order to confirm these results and explain in more depth the factors which determine internet addiction can be achieved. Young (2007) suggested to have cognitive behavioural therapy programme to replace cognitive distortions and behavioural style to strengthen depressive feeling supported. The indication of methods or techniques can be varied such as interview session or observation for detailed explanation and feedback rather than solely rely on questionnaires method. Additionally, larger sample size and different location may give different result. The author believes that the reason behind the addiction is not very clear. The view has been supported by Menon, Shanker, Narayanan, Lakshmi and Kahwaji (2018) as the authors proposed for further investigation. The findings for future research can be used to understand affecting cause of internet addiction.

References


