

## Internet Addiction and Mental Health during Covid-19 Pandemic

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Received for publication: 01 September 2022.

Accepted for publication: 26 October 2022.

### Abstract

Internet addiction is a relatively new phenomenon which can have similar impacts as substance dependence on one's cognitive and behavioral functioning. This type of addiction is a growing problem, and is constantly being researched to try to address what causes this addiction, who is affected by it, and how it can be treated. It has been observed throughout the study that there is a significant correlation between Internet Addiction and mental health. The extant literature shows that excessive use of Internet leads to significant effect on mental health. One hundred and thirty youth were taken to complete the study. The main aim of the study was to examine how Internet Addiction affects mental health during the COVID-19 pandemic.

**Keywords:** Internet Addiction, Mental Health, Covid-19, Literature, Correlation

### Introduction

Round the Globe, the Corona virus disease (COVID-19) outbreak has significantly disrupted normal life. Social distancing policy during COVID-19 pandemic requires people to spend most of their time at home, thus increasing Internet usage. Limited social interaction with other people may lead to loneliness and an increased risk of mental health. In this study, the researchers will examine how the excessive usage of the internet affects the mental health among people during the COVID-19 Pandemic.

The present study is indispensable for different reasons. The findings will be of great importance for counsellors, community health workers and health psychologists. And simultaneously the findings of the study will benefit the people in general.

The internet has become an integral part of modern-day life, and the global population using the internet has grown to almost 3.8 billion (Tripathi 2017). Over the past few years, the study of the correlation between excessive internet use and mental disorders has advanced (Widyanto and Griffiths 2006).

In recent years, technological advancements have taken place in the modern world. In the complexity of today's world, internet use is playing a vital role in educational institutions to attain different learning skills, which have become a necessity for university students. However, scholars have shown concerns about the excessive use of this technology and the hidden risk factors of internet users, such as physical and mental health (Abbas et al., 2019 & Bisen, Deshpande; 2020). The Internet is an easy and quick medium of interaction to gain the required information for communication with others around the world. However, a lack of control over excessive internet use can disturb individuals' living standards and relationships between family members, and it can bring instability of feelings (Reshadat et al., 2015 & Zhang et al., 2018). The users of the Internet have increased

incredibly worldwide, with the peak of a digital industrial revolution in progress, and new technological revolution will undoubtedly create new problems and predicaments. The history of internet users goes back some decades at present. The Internet has become one of the most fast-growing and transformative technologies (Bener et al., 2018).

Young (1998), in a pioneering study, defined Internet Addiction (IA) as an impulse control disorder that does not involve any intoxicant. Thus, IA is psychological reliance on the internet, regardless of the type of activities pursued after logging in (Kim et.al 2019). IA leads to an impairment of various life functions (Widyanto and Griffiths (2006). Internet gaming disorder (IGD) is a consequence of IA, which is defined as uncontrolled internet gaming activity with negative impacts on psychosocial functions (Ko et al., 2014). Various diagnostic criteria for IA have been proposed henceforth (Young 2009).

Mental health is defined as a state of well-being in which every individual realizes his or her full potential; can cope with the normal stresses of life; can work productively and fruitfully; and is able to make a contribution to her or his community (WHO, 2014). As reported by WHO (2001) mental health consists of subjective well-being, perceived self-efficacy, autonomy, competence, inter-generational dependence, as well as self-actualization of a person's intellectual and emotional potential, among others. Young individuals are unable to be successful in academic as well as personal life efficiently if they are battling a mental health difficulty, for instance, depression or unsteady feeling due to academic, social or family pressures.

### Review of literature

Singh and Barmola (2015) conducted a study on the internet addiction, mental health and academic performance of adolescents. The students from the University of Delhi were chosen from a list of applicants collected from each of the three schools using simple random selection. The IA test scale developed by Young; the Depression, Anxiety and Stress short scale was used to assess IA; the mental health correlates, were measured separately. The frequency of IA was 25.3 per cent, according to the findings. In this study, the mean (standard deviation) age of the participants was 19.1 (1.02 years), with 62.1 per cent of the participants being male. The typical household income in India was INR 50,000 per year. IA was shown to be strongly related with higher family income, more screen time, being constantly online, and having a longer amount of time spent on the internet per week. The following factors were shown to be independent predictors of IA: depression, anxiety, stress, higher length of internet usage per week, and being constantly online.

Chathoth *et al.*, (2014): conducted a study on internet addiction among undergraduate medical students between the ages of 18 and 20 years in order to better understand the phenomenon. Both addicted internet users (score 50) and non-addictive internet users (score 50) were compared for environmental stressors and lifestyle variables such as sleep, eating pattern, physical activity, and hobbies in order to determine which group was more addictive. When compared to non-addictive internet users, the findings of the study revealed that the addictive internet user group experienced statistically significant impairment of sleep (94.11 per cent vs 45.2 per cent), excessive daytime sleepiness (88.23 per cent vs 39.72 per cent), and the presence of environmental stressors (76.47 per cent vs 36.98 per cent).

Ko *et al.*, (2009): The study is to determine the relationship between violent behaviour and Internet addiction as well as online behaviours in teenagers. The research included a total of 9405 teenagers. According to the results of the research, teenagers with Internet addiction who watched violent television shows were more likely to engage in aggressive behaviour over the preceding year

than those who did not. It was shown to be more important among adolescents in junior high schools than it was among adolescents in senior high schools. Aggressive behaviour was shown to be linked with online chatting, adult sex web watching, online gaming, online gambling, and bulletin board systems, among other things.

Nalwa and Anand (2004): The research aimed at evaluating the impact of internet addiction on loneliness among teenagers. The participants of the research were within the age range 16 to 18 years old from India. Two categories were identified dependents and non-dependents. Significant behavioural and functional use differences were found between the two groups. Dependents were found to postpone other tasks to spend time online, lose sleep owing to late-night logons and believe life would be dull without the internet. The findings of the current research showed that on loneliness 42 measure, substantial disparities were observed between the two groups, with the online dependents rating higher than the non-internet dependants.

Sharma *et al.*, (2014): The study was reviewed in order to determine whether or not there are gender variations in internet addiction. The research included 391 students, both male and female, who were all enrolled in school. Approximately 19.02 (1.450) years separated the mean age of the pupils. The study's results showed that men were more hooked to the internet than females, according to the findings. According to the study's data, the average amount of time spent on the internet by students was 1.29(1.251) hours per day on average. The results of the internet addiction test showed that 57.3 per cent of participants were classified as normal users, 35.0 per cent as mildly addicted, 7.4 per cent as moderately hooked, and 0.3 per cent as seriously addicted to the internet.

Kim (2011) conducted a study on gender differences in which 609 teenagers in the tenth and eleventh grades, as well as their parents, were recruited from five high schools in Seoul, Korea, and participated in the study. It was discovered via the study's findings that Korean boys and girls behaved differently when it came to using the Internet. Girls were more likely than boys to use the Internet to watch online education courses and to blog more often and for a longer period of time than 48 males, while boys were more likely than girls to use the Internet to play Internet games. According to the findings, the routes were the same for both males and girls. Closeness and conflict in parent-child interactions were shown to be important for teenage adjustment, and they had a major impact on the connection between adolescent Internet usage and academic and behavioural outcomes in the study.

### **Significance of the Study**

The previous psychological research studies conducted on Internet Addiction and mental health have contributed a lot to benefit the people living, but a great number of studies are still needed in this area. In this study, the researchers will examine how, excessive usage of the internet affects the mental health of people during the COVID-19 Pandemic.

The present study is indispensable for different reasons. The findings will be of great importance for counselors, community health workers and health psychologists. And simultaneously the findings of the study will benefit the people in general.

So, in this study, the researchers make an attempt to look into how Internet Addiction affects mental health during the COVID-19 pandemic.

### **Objectives of the study**

The title of the present study is "Internet Addiction and mental health during COVID-19 Pandemic". To achieve the purpose of this study, the following objectives have been set:

- 1) To examine the difference between male and female Kashmiri youth on the scores of Internet Addiction.
- 2) To examine the difference between male and female Kashmiri youth on the scores of mental health.
- 3) To examine the difference between Rural and urban Kashmiri youth on scores of Internet Addiction.
- 4) To examine the difference between Rural and Urban Kashmiri youth on the scores of Mental health.
- 5) To examine the relationship between Internet Addiction and mental health among Kashmiri youth.

### **Hypotheses**

In the direction of available literature (textbooks/theses/journals/Internet) concerning the mean difference and relationship of internet addiction with mental health, the following hypotheses were formulated:

**H<sub>1</sub>:** There will be a difference between male and female Kashmiri youth on Internet Addiction.

**H<sub>2</sub>:** There will be a difference between male and female Kashmiri youth on Mental health.

**H<sub>3</sub>:** There will be a difference between Rural and Urban Kashmiri youth on Internet Addiction.

**H<sub>4</sub>:** There will be a difference between Rural and Urban Kashmiri youth on Mental health.

**H<sub>5</sub>:** There will be a relationship between Internet Addiction and Mental health among Kashmiri Youth.

### **Materials and Methods**

Research design has been defined by different social scientists in several ways. All these definitions emphasize systematic methodology in collecting accurate information for interpretation and hence the current research is correlational in nature.

During the ongoing pandemic, it was not possible to interact physically with the participants so an attempt was made to collect the data via Google Forms and the convenient sampling technique was employed to approach the participants. The sample for the present investigation comprised of Kashmiri youth. The total sample comprised of (N=130) Kashmiri youth with an equal number of Males (N=65) and Females (N=65). The mean age of the youth was 26.69 years with 16 years as minimum and 38 years as a maximum. The basic demographic characteristics of youth namely age, gender, qualification were considered to ensure homogeneity in the sample.

### **Measures**

The Internet Addiction Test (IAT) was developed by Kimberly Young (1998). The IAT total score is the sum of the ratings given by the examinee for the 20 item responses. Each item is rated on a 5-point scale ranging from 0 to 5. The maximum score is 100 points. The higher the score is, the higher is the severity of your problem. Total scores that range from 0 to 30 points are considered to reflect a normal level of Internet usage; scores of 31 to 49 indicate the presence of a mild level of Internet addiction; 50 to 79 reflect the presence of a moderate level; and scores of 80 to 100 indicate a severe dependence upon the Internet.

Mental Health Inventory standardized by Jagdish and Srivastava (1983) was used in the present research work. The scale comprised of 56 items (32 false keyed and 24 true keyed with six

dimensions viz. perception of reality, positive self-evaluation, integration of personality, autonomy, group-oriented attitudes and environmental mastery. It is a 5-point, Likert type response, where the subject has to choose from the category as labeled; Always, Very often, Sometimes, Rarely and Never. Marked responses are to be assigned for True keyed (positive statements) 5,4,3,2,1 and for False keyed (Negative statements) 1, 2, 3, 4, 5. The scale has a minimum score of 56, and a maximum score of 224. The neutral point is at 140. Scores below 140 indicate poor mental health while scores above 140 reflect good mental health. The reliability of the mental health inventory based on split-half method was 0.73. Further, the reliability was verified on the target sample and Cronbach's Alpha was found to be 0.87, which confirms that the scale has good reliability (George & Mallery, 2003).

#### ***Procedure***

Participants were approached via different online platforms viz email, Whatsapp, Facebook and many more. Consent was sought from the participants to complete the usefulness of the study and requested with due respect to extending their cooperation for fulfillment of the study. They were assured of confidentiality that their identity will not be disclosed at any stage.

#### ***Statistical Analyses***

Keeping in view the nature of the data, research design and objectives of the present study; t-test and Pearson Product Moment Correlation was used. The analyses were carried out by using the software IBM SPSS 20.

### **Results and Discussion**

**Table 1. Descriptive statistics of Gender, Internet Addiction, Mental health and Age among Kashmiri youth (N=130)**

Variables	N	Mean	SD
Internet Addiction	130	81.33	14.312
Mental Health	130	60.26	17.30
Age	130	26.69	3.807
N	130		

The total number of male and female participants was 130. The mean score for Internet Addiction was 81.33 with a standard deviation of 14.31. The mean score for Mental health was 60.26 and the standard deviation 17.30. The minimum age of the Kashmiri youth was 16 and the maximum age was 38.

**Table 2. Comparison of Mean Scores of Internet Addiction and Mental Health among Kashmiri Youth with Respect to their Gender (N=130)**

Variables	Gender	N	Mean	SD	Df	t-value	p
	Male	65	88.36	3.55			
Internet Addiction	Female	65	74.29	17.31	128	<b>6.42*</b>	0.05
Mental Health	Male	65	48.64	61.10			
	Female	65	71.87	8.37	128	<b>10.38*</b>	0.05

Table shows the t-value of Internet Addiction (t=6.42\*) significant at .05 level. This indicates that male and female Kashmiri youth significantly differ at the level of internet addiction. The

results indicate that males are more addicted to the internet than females. Thus, our hypothesis, which states that there will be a difference between male and female Kashmiri youth on internet addiction, is supported.

The table further shows the t-value of mental health ( $t=-10.38^*$ ) significant at .05 level. This indicates that male and female Kashmiri youth significantly differ at the level of mental health. The results indicate that males are low in mental health than females. Thus, our hypothesis, which states that there will be a difference between male and female Kashmiri youth on mental health, is supported.

**Table 3. Comparison of Mean Scores of Internet Addiction and Mental Health among Kashmiri Youth with Respect to their Residence (N=130)**

Variables	Residence	N	Mean	SD	df	t-value	p
	Rural	80	78.05	16.33			
Internet Addiction	Urban	50	86.58	7.95	128	<b>3.44*</b>	0.05
Mental Health	Rural	80	61.22	17.76			
	Urban	50	58.72	16.60	128	<b>.802*</b>	0.05

Table shows the t-value of Internet Addiction ( $t=3.44^*$ ) significant at .05 level. This indicates that rural and urban Kashmiri youth significantly differ at the level of internet addiction. The results indicate that urban youth are more addicted to the internet than rural youth. Thus, our hypothesis, which states that there will be a difference between rural and urban Kashmiri youth on internet addiction, is supported.

The table further shows the t-value of Mental health ( $t=.802^*$ ) significant at .05 level. This indicates that rural and urban Kashmiri youth significantly differ at the level of mental health. The results indicate that the urban youth are low at mental health than rural youth. Thus our hypothesis, which states that there will be a difference between rural and urban Kashmiri youth on Mental health is supported.

**Table 4. The inter-correlations among Internet addiction and mental health were computed and are shown in the table**

Overall Internet Addiction	overall mental health	Pse	inte-gration	pr	autny	goa	Ec
Overall Internet Ad-diction	1	-.362**	-.319**	-.341**	-.328**	-.264**	-.209*
Overallmentalhealth	1	.818**	.867**	.838**	.872**	.649*	.607**

Overall Internet Addiction	overall mental health	Pse	inte-gration	pr	autny	goa	Ec
Pse		1	.682**	.684**	.642**	.368**	.475**
Integration			1	.692**	.808**	.400**	.376**
Pr				1	.695**	.415**	.332**
Autny					1	.447**	.374**
Goa						1	.462**
Ec							1
**. Correlation is significant at the 0.01 level (2-tailed).							
*. Correlation is significant at the 0.05 level (2-tailed).							

The internet addiction was negatively and significantly related to mental health and its dimensions (positive self-evaluation, perception of reality, integration of personality, autonomy, group-oriented attitudes and environmental mastery). The correlation between internet addiction and overall mental health is -.362 significant at 0.005 level of significance, while the correlation coefficient of internet addiction and the dimensions of mental health were varying from -.209 significant at 0.001 level of significance to -.341 significant at 0.005 level of significance. It can be inferred that when internet addiction increases (linearly), the mental health decreases among Kashmiri youth. Singh, Dhyani (2014) "A systematic review of literature on effect of internet used on students in India." This study thus supports that the issue of internet addiction is becoming a major health problem in India. *Thus our hypothesis is supported.*

### Conclusion

This present study presents, Internet addiction has a significant effect on mental health. This study finds different opinions regarding male and female Kashmiri youth belonging to rural or urban areas. As per research analysis, the researchers found a negative correlation between internet addiction and mental health. It may be due to:

- Internet Addictive Behavior leads to negative feelings like depression, anxiety, loneliness, struggling in sleep, confused mind and lack of appetite.

- Youth while searching and studying online get attracted to using social networking sites, and many a time they forget why they are using these sites and many a time students are not able to deliver their work in the specified time frame.
- Excessive usage of the internet also leads to youth wasting time playing games and chatting online on social media applications.
- Because of excessive usage of the internet, youth give less priority to studies, co-curricular activities, leisure activities and sport or exercise. They easily ignore their parents, family members and friends.
- People often say good morning to their phone screen and feel pleasure to spend excessive time on social networking sites. Eventually, people use social networking sites to the extent that it negatively influences their mental health, and of youth in particular.

### **Implications**

- During the covid -19 Kashmiri youth are affected by the ongoing pandemic in the state which has long-lasting effect on the mental health of the nation's builders.
- Use and Misuse of Internet mapping programmes are to be introduced in colleges, which will help to learn how to manage their usage of the Internet for the holistic development of mental health.

### **Suggestions for Future Research**

- Internet Addiction seems to be one of the significant correlates of mental health, so it needs to be studied and considered by conducting a longitudinal study.
- Future researchers need to keep on exploring the factors such as social support, emotional regulation, social belief, openness to change, social maturity etc., that make people living during pandemic enough strong to deal with life challenges.

### **Acknowledgement**

This research was supported by GDC Baramulla, J&K, India. We are thankful to our colleagues Dr. Shahnawaz Mushtaq, Dr. Saika, and Dr. S. Veena, whose expertise greatly assisted this research.

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