A STUDY OF COMPONENTS OF BEHAVIORAL ADDICTION TO SOCIAL MEDIA USE IN CURRENT GENERATION OF PAKISTANI YOUTH.

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ABSTRACT... Information Technology has brought significant changes to the human social interaction & behaviors. Behavioral addiction to social media use is a rather novel concept in psychiatric “classification of diseases”. Some foreign studies have reported it to be as high as 29.5%.7,8 There is need to study this relatively neglected area specially among our youth. This will help provide reliable data to understand the magnitude of current problem. Objectives: To study the Components of Behavioral addiction to Social Media use: Conflict, Mood Modification, Relapse, Salience and Withdrawal, among the youth in Pakistan. Study Design: Cross-sectional study. Setting: Department of Psychiatry Services Institute and Medical Sciences, Lahore. Period: March 2019 to May 2019. Material & Methods: Among University students was conducted Purposive sampling technique was employed. Questionnaire forms were given to students of a University. Each questionnaire had 12 questions. There were specific questions for each component of addiction: Conflict, Mood Modification, Relapse, Salience, Tolerance and Withdrawal. Each respondent's bio-data, preferred social networking medium and frequency of social media use were recorded. They were also asked about their perception about excessive social media use. The responses were based on Likert scale. The respondents were asked to give the single best response to each question. A total of 210 responses were obtained. They were assessed using the software, IBM SPSS version 25. Results: The sample population reported positive for all the components of addiction tested. The majority (greater than 50%) of responses for each component were in “Always” to “Sometimes” range of Likert scale. Conclusion: The current generation of Pakistani youth might be suffering from Behavioral Addiction to Social Media use.

Key words: Behavioural Addiction, Internet, Social Media, Youth.

INTRODUCTION

The Age of Information Technology has brought significant changes to the human social interaction. Means of communication have evolved. Social media and online social interactions have become key tools for sharing experiences1, communicating with peers2 and transferring knowledge.3 The possibilities arising from these trends are endless, as are some of the problems.

The issues of cyber-bullying and harassment4, unintentional and uninvited exposure to sexual content5, and psychological consequences of dependence on these media are just some of the challenges.6 Our fascination with social media and the ease of access to it has led to our dependence on it. Behavioral addiction to social media use is a rather novel concept.

Studies in Singapore and India have found 29.5% and 26% of sample population showing addiction to social media use,7,8 Alarming & in both studies, more than a quarter of the population was found addicted to social media, indicating that a significant portion of general population may be suffering from this disorder.

Individuals afflicted by this behavioral problem have demonstrated several familial, academic
and occupational problems. Extra ‘Screen-time’ causes sleep deprivation and sedentary habits. This may result in obesity and consequently, a higher risk of ailments associated with obesity: Hypertension, diabetes and coronary artery disease. Occupational efficacy deteriorates and work output decreases. In students, concentration in class is decreased and academic performance is adversely affected. Families suffer when one spouse fails to do their part in the home, with the other spouse bearing the extra burden. This leads to breakdown in relationships.

Individuals with Behavioral addiction to social media use are more likely to display other psychological disorders as well. Attention Deficit Hyperactivity Disorder (ADHD), Obsessive Compulsive Disorder (OCD), anxiety, mania, narcissism, low self-esteem and depression have all been positively correlated with this addiction. Incidence of Substance Abuse Disorders, such as binge drinking, has also been higher in such individuals. This should be of particular concern to psychologists, physicians and healthcare authorities.

The current generation of Pakistani youth has grown up experiencing the internet and social networking. It forms an integral part of their life. Studies in Pakistan have found internet addiction to be present in as much as 46% and 26.8% of sample population. These astronomical figures imply a social and healthcare challenge of great magnitude.

Behavioral addictions have been described in DSM V and ICD XI as having several components. These components have also been used extensively to study other behavioral addictions, such as mobile phone addiction, Gambling addiction and online gaming addiction. Social media addiction has also been studied within the framework of these components. For the purpose of this research, we have calculated the incidence of six components of addiction in the youth of Pakistan: Conflict, Mood Modification, Relapse, Salience, Tolerance and Withdrawal.

Treatment interventions by psychiatrists and psychologists should be aimed at addressing the individual components of addiction. For this reason, knowing the incidence of each component of addiction is important.

MATERIAL AND METHODS
A cross-sectional study among university students of Pakistan was conducted. The duration was from March 2019 to May 2019. Purposive sampling technique was employed. Questionnaire forms were given to students. Each questionnaire had 12 questions. There were specific questions for each component of addiction: Conflict, Mood Modification, Relapse, Salience, Tolerance and Withdrawal. Each respondent’s bio-data, preferred social networking medium and frequency of social media use were recorded. They were also asked about their perception about excessive social media use.

The responses were based on Likert scale. The respondents were asked to give the single best response to each question. A total of 210 responses were obtained. They were assessed using the software, IBM SPSS version 25.

RESULTS
A total of 210 complete forms were received. 98 (46.7%) of the respondents were males and 112 (53.3%) were females. Age vise distribution was: 1.4% below age of sixteen, 97.6% between sixteen and thirty years, and only 1% of sample population aged thirty-one and above. Therefore, the target age of 16-30 years was achieved in 97.6% of sample population.

Facebook remained the most popular medium, with 66.2% of sample population preferring it over other social media.

In terms of daily usage, 29% of respondents stated that they used social media more than 120 minutes daily, 21% between 31-60 minutes, 19% between 61-90 minutes, 15.7% used below 30 minutes, and 15.2% between 91-120 minutes. Therefore, the majority used social media more than 2 hours daily.
In response to the statement, “I feel that I am addicted to social media use:" 33.8% agreed, 32.4% remained neutral while 15.7% of respondents strongly agreed. This indicates that the population infers that social media usage is adversely affecting their lives.

Questions exploring the six components of behavioral addiction were individually assessed. The results are as follows:

**CONFLICT**

**Intra-psychic**
In response to the statement, “I feel that my work output decreases because of social media use”, 31.9% said sometimes, while 27.6% responded with often and 14.8% with very often. This supports the presence of intra-psychic conflict in the population.

**Inter-personal**
Moreover, the response to “People around me remark on my social media usage” 23.8% stated sometimes, 22.4% said often and 17.1% said very often, displaying inter-personal conflict as well.

**Mood Modification**
In response to the statement, “I feel my mood improve when using Social Media. I feel happier, more content and freer from worries”; 30.3% said Sometimes, followed by 19% with Often, and 16.2% with Never.

**Relapse**
In response to the statement, “I try to decrease the amount of time I spend using social media sites and fail” 28.6% stated sometimes, 26.7% said often, followed by 19% who said rarely. With the majority of responders in positive response category, withdrawal is exhibited by the population as well.

**Salience**
In response to the statement, “I check my social media sites before something else that I need to do”, majority of the population said often (33.8%), followed by sometimes (31.9%), followed by very often (19%). This supports the presence of salience in the sample population.

**Tolerance**
In response to the statement, “I spend more time than intended on Social Media”, 33% said often, 26.7% said sometimes, and 22.4% said very often. This supports the presence of tolerance in the population.

**Withdrawal**
In response to the statement, “I feel upset, angry, bored, outcast, disconnected from the world when I cannot access social media sites” an equal percentage (22.9%) of sample population responded with often and sometimes, followed by 19% who said rarely. Thus, the majority of the population exhibited withdrawal as well.

| Age of Sample Population | Preferred Social Medium | Time Spent in Minutes Daily |
|--------------------------|-------------------------|----------------------------|
| 16 or less               | 1.4%                    | Facebook 66.2%             |
| 17-21                    | 51.0%                   | Other 33.8%                |
| 22-25                    | 41.4%                   | 30-60 21.0%                |
| 26-30                    | 5.2%                    | 61-90 19.0%                |
| Over 30                  | 1.0%                    | 90-120 15.2%               |
|                          |                         | More than 120 29.0%       |

**Table-I. Demographics of sample population**

| Self-Perception about social media addiction |
|---------------------------------------------|
| Strongly agree                              | 15.7% |
| Agree                                       | 33.8% |
| Neutral                                    | 32.4% |
| Disagree                                   | 14.8% |
| Strongly Disagree                           | 3.3%  |

**Table-II. Self-perception of sample population about Social media addiction**

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DISCUSSION
In our study, the results show that 29.5% of population use social media more than 2 hours daily. This significant amount of time spent on social media is a problem in itself. It has been linked with increased anxiety, and incidence of anxiety disorder. Decreasing the frequency of use of social media may be beneficial in all such individuals.

Almost half (49.5%) of the sample population is aware of its overuse of social media and believes it is ‘addicted’ to it. This result is consistent with studies done by Catherine So-kum Tanget al and Shettar, M. in Singapore and India. These results are also similar to incidence of internet addiction in Pakistani populations. It implies that the society as a whole recognizes that social media overuse is a problem which afflicts it.

The sample population has shown high incidence of all six components of addiction tested. More than half of the responses for each category were in Always to Sometimes range of the scale. This is of particular importance because treatment strategies must be developed to target the individual components of this addiction.

Salience was the component in highest frequency, with 84.7% of sample population showing it. This indicates that the population finds itself preoccupied with Social Media use. It hampers their other activities of daily life.

This was followed by Tolerance at 80.1%. The sample population feels the urge to increase the amount of time spent online. 74.8% of sample population reported intra-psychic Conflict. Self-perception about the negative consequences of excess time spent online is relatable to this component. Inter-personal Conflict was also positive (63.3%). With Social media use occupying a significant amount of time of one’s routine, the people around him are affected. Family relations may become strained. This may lead to reactionary conflicts.

Withdrawal was reported by 60.1% of sample population. It indicates that discontinuing use of social media evokes negative emotions within the individuals. Ba´nyai et al found this component to have the highest incidence in their study.

Mood Modification showed the lowest incidence rates at 57.7%. It is subjective and subject to personal bias. However, overuse of social media has been documented to cause adverse emotional reactions such, as depression and anxiety.

This study had certain limitations. Cross-sectional model was employed. Therefore, the causality could not be established. Purposive Sampling technique was employed. It has a high probability of sampling bias. This sampling technique is considered to be a poor representative of entire population.

Future research may be done by applying longitudinal study models, identifying other factors associated with this disorder. Causality may be established. Treatment or intervention modalities should also be researched.

Similar studies may be done by Simple Random sampling as a better representative of Pakistani

| Component             | Very Often | Often | Sometimes | Rarely | Very Rarely | Never |
|-----------------------|------------|-------|-----------|--------|-------------|-------|
| Conflict (Intra-Psychic) | 14.8%     | 27.6% | 32.4%     | 12.9%  | 5.2%        | 7.1%  |
| Conflict (Inter-Personal) | 17.1%     | 22.4% | 23.8%     | 16.7%  | 10%         | 10%   |
| Mood Modification      | 8.4%       | 19%   | 30.3%     | 12.7%  | 13.4%       | 16.2% |
| Relapse                | 8.1%       | 26.7% | 28.6%     | 19%    | 9.5%        | 8.1%  |
| Salience               | 19%        | 33.8% | 31.9%     | 10%    | 1.9%        | 3.3%  |
| Tolerance              | 22.4%      | 31%   | 26.7%     | 12.9%  | 3.8%        | 3.3%  |
| Withdrawal             | 14.3%      | 22.9% | 22.9%     | 16.2%  | 9%          | 14.8% |

Table-III. Frequencies of responses for each category in percentage
behaviors. Stratified sampling technique for particular groups, such as students or healthcare professionals, may also be employed.

CONCLUSION
The sample population has reported positive for the six components of addiction tested. Moreover, the population is aware of its overuse of social media platforms being a problem.

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| 2     | Touseef Bilal Khan  | Conception the study, literature search, data collection & processing, data analysis, drafting of manuscript, critical manuscript revisions, rewriting & final draft. |                           |
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| 4     | Shahid Hameed Warris| Conception of study, literature search, data collection drafting of manuscript & revisions, final draft. |                           |
| 5     | Sadia Nikhet        | Planning of study, literature review, data processing, manuscript revisions & final draft. |                           |
| 6     | Amina Tahir         | Design of the study, literature search, data collection, manuscript rewriting & final draft. |                           |