



EVALUATION OF RELATIONSHIP BETWEEN SOCIAL MEDIA ADDICTION, SELF-ESTEEM AND DEPRESSION IN ADOLESCENTS

Psychiatry

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ABSTRACT

Use of social media is growing widely to the point of developing addiction in youngsters. Adolescents are more vulnerable to develop any kind of psychiatric illness due to the critical growth period. The age of exposure to electronic gadgets is decreasing day by day. Lying in the grey zone between dependence and independence for taking wise decisions for themselves, there is a high possibility of developing unhealthy behavior. This paper highlights social media addiction and its relationship with self-esteem and depression in adolescents. After taking written informed consent and Institute Ethical Committee permission data was collected from school students studying in Secondary School in Surendranagar. Socio-demographic data sheet, Social Media Addiction Scale – Student Form, Rosenberg Self-Esteem Scale and Beck Depression Inventory were used to collect data, which was followed by analysis using SPSS version 16. Amongst 60 students social media addiction was probably present in 20.5% and it had strong negative association with self-esteem of students ($\chi^2=4.364$, $\gamma=-0.449$, $P<0.05$) and had positive association with depression ($\chi^2=12.656$, $\gamma=-0.692$, $P<0.05$). Spearman Correlation value of -0.495 between social media addiction and self-esteem is significant at $p<0.001$. Amongst students, odds of having social media addiction is 4.5 times higher in those who have below average Self-esteem as compared to those who have above average self-esteem. Hence, it can be concluded that addressing self-esteem issues in adolescence is of prime importance to prevent further issues like development of social media addiction and subsequent depression.

KEYWORDS

Social Media Addiction, Self-esteem, Depression, Adolescents

INTRODUCTION

Social media use is growing exponentially and is posing risk for development of addiction in youngsters. Social Media Addiction is a growing mental health problem as per recent evidence^[1,2,3]. Adolescence age marks the window of critical growth period, rendering children falling under this age group vulnerable to develop pathology. Moreover, with advancement in technology, the age of exposure to various electronic gadgets has been reducing further. Their intellect has not matured enough to take appropriate decision when in dilemma and are likely to engage in unhealthy behavior due to drive to develop independence, while still they are considered dependent by the authorities. Griffiths has argued that all addictions comprise six core components (i.e., salience, mood modification, tolerance, withdrawal, conflict, and relapse)^[4]. As per Andearson and Pallesan addictive use is characterized by “being overly concerned about online activities, driven by an uncontrollable motivation to perform the behavior, and devoting so much time and effort to it that it impairs other important life areas”^[5]. This study was undertaken considering global concern of various authors on understanding the concept of Addiction and its application on current technological scenario. Consensus of majority of the members of American Psychiatric Association is also reflected by including “Internet Gaming Disorder” in the Section III. However, gaming is just one of many potentially addictive activities that can be engaged in online. Social Media Addiction being a wider area and more relevant in our culture was explored, especially in adolescents who would build the future of our country.

AIM & OBJECTIVE

The aim of the study is to study the Social Media Addiction amongst adolescents and the objective of the study is to study the relationship of social media addiction with self-esteem and depression amongst adolescents

MATERIALS & METHODS

A cross-sectional study was carried out on adolescents studying in class X in an english medium School in Surendranagar during August,2019. Class X students at an English medium school in Surendranagar who provided the written consent were included in the study and those who refused to give informed written consent were excluded from the study. Data were collected using self-administered survey forms which included Structured Proforma: Participant's Profile, Bergen Social Media Addiction Scale (BSMAS) – 6 item scale^[4], Rosenberg Self-Esteem Scale (RSES) - 10 item scale^[5] and Beck's Depression Inventory (BDI) – 21 item scale^[6].

94 students were approached, out of which 83 gave the written consent. 83 forms were filled out of which 23 forms were discarded because of incomplete details. Analysis of the data was done by SPSS version 16

for Windows. Frequencies with mean were calculated for categorical data. Pearson Chi Square Test was used to know whether there is any association between level of Social Media Addiction and Self-Esteem as well as Depression. P value of <0.05 was considered statistically significant. Gamma test could establish the direction of the relationship between above mentioned variables. Odds Ratio was used to predict probability. Anonymity and confidentiality of the participants were maintained throughout the study. The study was conducted after obtaining prior approval from Ethics Committee of the institution.

RESULTS

Table 1: Sociodemographic Variables And Social Media Addiction Among Adolescents

Sociodemographic Variables		N = 60	%	Low Addiction		High Addiction	
				N=38	%	N=22	%
Age	15 years	60	100	38	63.33	22	36.67
Sex	Male	35	58.33	25	22.2	10	38.3
	Female	25	41.67	13	17.3	12	22.2
Domicile	Urban	60	100	38	63.33	22	36.67
Marital Status	Single	60	100	38	63.33	22	36.67
Family Type	Nuclear	48	80	33	55	15	2
	Joint	12	20	5	8.33	7	11.675

As it can be seen in the table-1, all the students have age of 15 years and 58.33% of the students were male. 80% of the respondents belonged to nuclear family and all the students belong to urban locality. All the adolescents had a total score indicating **low (63.33%) or high (36.67%) level addiction** associated with social media.

Table 2: Association Between Social Media Addiction And Self Esteem

Variables N = 60			BSMAS		χ^2	d.f	p-value for χ^2	γ	p-value for γ
			Low Addic tion	High Addic tion					
RSES	Low $\mu = 12.9$	$\leq \mu$	09	13	6.881*	1	0.008**	-0.576*	0.005**
		$> \mu$	29	12					
	High $\mu = 22.6$	$\leq \mu$	08	14	7.148*	1	0.007**	-0.573*	0.004**
		$> \mu$	30	11					
	Global $\mu = 92.8$	$\leq \mu$	12	16	4.364*	1	0.031**	-0.449*	0.032**
		$> \mu$	26	9					

As evident in Table-2, significant association was found between social media addiction and self-esteem. Out of the 2 components of Rosenberg Self Esteem scale, both low ($\chi^2=6.881$, $P<0.05$) and high ($\chi^2=7.148$, $P<0.05$) level of self-esteem significantly associated

with the social media addiction. This relationship was further substantiated using Gamma test and the direction of the relationship could be established significantly. There was a strong negative association between social media addiction score and the levels of self-esteem ($\gamma = 0.449$, $P < 0.05$).

Table 3: Association Between Social Media Addiction And Depression

Variables N = 60		BSMAS		χ^2	d.f	p-value for χ^2	γ	p-value for γ
		Low addiction	High addiction					
Beck's Depression Inventory (BDI)	Mild $\mu = 12.9$	< μ 07	12	3.298*	1	0.050**	-0.395*	0.05*
		> μ 31	10					
	Borderline $\mu = 13.6$	< μ 24	17	1.199	1	0.193	-	-
		> μ 14	5					
	Moderate $\mu = 12.2$	< μ 15	16	7.148*	1	0.007**	-0.573*	0.004**
		> μ 23	6					
	Severe $\mu = 31.5$	< μ 15	14	3.999*	1	0.038**	-0.431*	0.042**
		> μ 23	8					
	Extreme $\mu = 22.6$	< μ 10	15	11.928*	1	0.001**	-0.681*	0.0001**
		> μ 28	7					
	Global $\mu = 92.8$	< μ 11	16	12.656*	1	0.001**	-0.692*	0.0001**
		> μ 31	16					

As observed in table-2 significant association was found between global score of social media addiction scale and depression ($\chi^2 = 12.656$, $P < 0.05$). Out of the 5 components of Beck's Depression Inventory, 4 are significantly associated with social media addiction. They are mild ($\chi^2 = 3.298$, $P < 0.05$), moderate ($\chi^2 = 7.148$, $P < 0.05$), severe ($\chi^2 = 3.999$, $P < 0.05$) and extreme ($\chi^2 = 11.928$, $P < 0.05$). This relationship was further substantiated using Gamma test and the direction of the relationship could be established significantly. There was a strong positive association between social media addiction global score and the severity of depression ($\gamma = -0.692$, $P < 0.05$). With increase in the levels of social media addiction experienced by the respondents, the increase in the mild, moderate, severe and extreme level of depression.

DISCUSSION

Andreassen and Pallesen defined social media addiction as "being overly concerned about social network sites (SNSs), to be driven by a strong motivation to log on to or use SNSs, and to devote so much time and effort to SNSs that it impairs other social activities, studies/job, interpersonal relationships, and/or psychological health and well-being."^{[6][7]}

Many factors can contribute to social media addiction, such as neurobiology, self-determination theory (the need for competence, autonomy, and relatedness), personality traits (neuroticism, conscientiousness, narcissism, etc.), cognition (automatic thoughts, self-esteem), learning (reinforcements, social learning), culture, and such (Andreassen, 2015).^{[6][8][9]}

Branden has claimed self-esteem to have two interrelated aspects: sense of personal efficiency and sense of personal worth. These refer to the integral summation of self-confidence and self-respect (Branden, 2001).^[10] Taylor, Peplau, and Sears (2007) defined self-esteem as the summation of beliefs regarding the individual's self.^[11] As defined by Erikson (1963), self-esteem is the feeling of assurance that is established through the comparison of self-recognition and societal confirmation.^[12]

Studies regarding social media addiction and self-esteem have indicated addictive usage to be empirically linked to a negative self-concept, and therefore to low self-esteem.

On the other hand, social media has been used to bridge a social capital for feeling less lonely and more connected.

Steinfeld (2008) found the intensity of Facebook usage and bridging

of social capital to be higher for groups with lower self-esteem. They guessed that fears of rejection might explain why students with lower self-esteem prefer Facebook usage over face-to-face interactions. This study supports Shaw and Gant's (2002) findings that suggest people with low self-esteem tend to use social media to modify their mood, meet new people, decrease loneliness, and seek social support.^{[13][14]} Faraon and Kaipainen (2014) also have found that participants with a high intensity of Facebook usage reported lower self-esteem on average.^[15]

Likewise, several other scholars have reached the conclusion that addictive social media usage relates to lower self-esteem (Baturay & Toker, 2017 & Wilson et al., 2010).^{[16][17]} This is in keeping with finding of our study.

Social media is also seen in the literature to have positive effects on self-presentation and self-esteem regulation. However, and as in every behavioral process, excessive use and lack of self-control can lead to serious consequences such as relational, emotional, health, and performance problems. These results may dramatically change the daily rituals of the individual, thus creating a catalyzing effect on problems such as depression, disruptions in self-perceptions, narcissism, and impairments in relationships with others, as well as performance problems such as disruptions in school or achievements, sleep deprivation, impaired sleep, or their related health problems.^[18]

Depression was positively related to a proneness to addictive technology. The fact that depression often entails social withdrawal (American Psychiatric Association, 2013) may explain why symptoms of depression were slightly associated with addictive social networking sites.^[19]

The association between addictive video game playing on social media and depression was found in the study done by Brunborg and Ferguson.^{[20][21]} This is coinciding with our study.

CONCLUSION AND FUTURE PROSPECTS:

Thus, it could be concluded from our study that recognizing Social Media Addiction in early phase of life can help us direct the psychological growth of an adolescent in a correct direction. Growing data of low self-esteem and depression amongst adolescence can be linked to excessive use of social media, thus addressing it can be a preventive measure for depressive illness.

In future research, designing longitudinal and cross-cultural studies may draw a broader picture for understanding the evolution of social media addiction. Empirical studies on the treatment or prevention of this kind of addiction would be an asset for the literature. Self-help interventions such as preventing apps, relaxation techniques along with therapeutic methods (cognitive behavioral therapy, mindfulness exercises, etc.) or pharmacological methods have already been mentioned by authors. Creating awareness in college students and adolescents whose personalities are still in a stage of development is especially important.

LIMITATION:

Small sample size and inclusion of schools of one region will limit the generalization of the result.

ACKNOWLEDGEMENT:

For this study no financial support, gifts or technical assistance has been received.

Contribution Of Author

I (Dr. Krishna Patel) am responsible for the research concept, research design, data collection, data analysis, interpretation, literature search, writing article for the publication purpose.

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