

EFFECTIVENESS OF SOCIAL MEDIA ON MENTAL HEALTH OF ADOLESCENT STUDENTS IN CHENNAI CITY

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> Article DOI: <u>https://doi.org/10.36713/epra15230</u> DOI No: 10.36713/epra15230

ABSTRACT

Social media, in its broadest meaning, refers to any digital application or software that allows users to engage in social interaction. There is an increasing concern regarding the impact of social media on adolescent mental health. Primary objectives of this study are a) To assess the effects of social media on mental health of adolescent students and b) To analyse the association $b \ e \ t \ w \ e \ n$ mental health of adolescent students with $t \ h \ e \ i \ r$ selected demographic variables. The sample size of the study comprises of 135 adolescents. They were selected by non-probability convenient sampling method. A structured questionnaire and Four point DASS were used to analyse the association of level of mental health among adolescent students. Out of 135 adolescents, 71(52.59%) had moderate distress, 35(25.93%) had mild distress and 29(21.48%) had severe distress. The mean score of mental health among adolescents was 63.35±25.32. The median was 51.0 with minimum score of 32.0 and

maximum score of 120.0. The demographic variable 'Which social media channels you are most active on?' (χ^2 =13.726, p=0.033) had shown statistically significant association with level of mental health among adolescents at p<0.05 level. Social media use by some females can be concerning, since female adolescents report spending more time on social media and experience poorer mental health than male peers.

INDEX TERMS- Social media, Mental health, Adolescence, Gadgets, Depression, Screen time.

INTRODUCTION

Teenagers now have unprecedented access to digital content via a variety of gadgets, including smartphones, tablets, laptops, desktop computers, and gaming systems. Today's media landscape is more expansive and diverse than ever before. Social media is a key component of this ecosystem. Social media, in its broadest meaning, refers to any digital application or software that allows users to engage in social interaction. Recent research on the relationship between online communities and depression has found a common connection between the use of social networks by adolescents and depression, though there are some places where these findings are contradictory (like the relationship between screen time and mental health issues) and the quality of the evidence is not of great importance (Keles B, McCrae N, Grealish A, 2020). It is difficult to assign exact cause to the troubling trends of increasing depression, anxiety, self-harm and suicide in adolescents. However, with suicide being the fourth leading cause of death globally in people aged 15-25-years, it is important to discover which factors are influencing adolescents to commit suicide (Brandie Walton, Denise Rizzolo, 2022).

Yue-Yue You, Junwen Yang-Huang, Hein Raat, Amy van Grieken (2023) conducted a study to evaluate which factors were associated with heavy social media use on weekdays and weekends among 13-year-old adolescents (N=3727) in the Netherlands. The findings revealed that the prevalence of heavy social media use was 37.7% on a weekday and 59.6% on a

weekend day. The study concluded that being a girl, living in a one-parent family, or having a longer computer playing time were associated with heavy social media use on weekdays and weekends.

Brandie Walton, Denise Rizzolo (2022) conducted a study to assess the effects of social media on adolescent mental health. The study reported that there is increasing concern regarding the impact of social media on adolescent mental health. Research has suggested a negative association between excessive times on digital media, more than 2-hours per day, and emotional health. Perhaps more importantly, adolescent vulnerabilities, such as existing anxiety or depression, when exposed to certain social media experiences can cause further decline of mental health. Chirag Gupta, Sangita Jogdand, Mayank Kumar (2022) conducted a study to review the impact of social media on the mental health of the adolescents and young adults. Smartphone and social media usage among teenagers are associated with an increase in mental distress, sleep deprivation, self-harming behaviours, and suicidality, according to evidence from numerous cross-sectional, longitudinal, and empirical studies.

RESEARCH METHODOLOGY

Quantitative research approach was adopted for this study to accomplish the objectives of the study. The research design used for this study was cross-sectional descriptive method. Primary objectives of this study are a) To assess the effects of social



media on mental health of adolescent students and b) To analyse the association b e t w e e n mental health of adolescent students with t h e i r selected demographic variables. The sample size of the study comprises of 135 adolescents. They were selected by non-probability convenient sampling method. The Inclusion criteria are; Adolescents without any other psychological problems, available at the time of data collection period and willing to participate.

The instrument envisaged for use in this study was divided into two sections. 1)A structured questionnaire to assess the demographic variables of the adolescent school children and 2) Four point DASS (Depression Anxiety Stress scale) which consists of 42 statements with 4 point Likert scale and can be coded as Never -0, Sometimes -1, Often -2 and Almost always -3. The maximum score is 126.

Table 1: Scoring and Interpretation			
Total Score	Depressive Severity		
1-42	Mild distress		
43 – 84	Moderate distress		
85 – 126 Severe distress			

The duration of intervention was 25 to 30 minutes. Frequency and percentage distribution were used to analyse the demographic data, level of mental health among the adolescent school children. Mean and standard deviation was used to assess the level of mental health among the adolescent school children. Chi-square was used to analyse the association of level of mental health among the adolescent school children with their selected demographic variables. DATA ANALYSIS AND INTERPRETATION

The table 2 shows that most of the adolescents, (71; 52.6%) were aged between 13–15 years, 89(65.9%) were male, 82(60.7%) were Hindus, 100(74.1%) were residing in urban area and 85(63.0%) had secondary education.

Table 2: Percentage Distribution and Association of Demographic Variables of Adolescent Students with their	Montal Usalth
Table 2. Fercentage Distribution and Association of Demographic variables of Audiescent Students with them	

Demograph	nic Variables	Frequency N=135	Percentage (%)	Chi-Square Test
	10 - 12	33	24.4	$\chi^2 = 1.569$
Age in years	13 – 15	71	52.6	d.f=4 p=0.814 N.S
	16 - 18	31	23.0	
<u> </u>	Male	89	65.9	$\chi^2 = 3.195$
Sex	Female	46	34.1	d.f=2 p=0.202 N.S
	Hindu	82	60.7	$\chi^2 = 0.453$
Religion	Christian	37	27.4	d.f=4 p=0.978 N.S
C	Muslim	16	11.9	-
D	Urban	100	74.1	$\chi^2 = 1.079$
Residence	Rural	35	25.9	d.f=2 p=0.583 N.S
	Primary	24	17.8	$\chi^2 = 3.255$
Education	Secondary	85	63.0	d.f=4 p=0.516 N.S
	Higher secondary	26	19.3]

Note: *p<0.05, S – Significant, N.S – Not Significant

The table 3 shows that 89 adolescents (65.9%) had spent 2-3 hours on social media every day, 94(69.6%) were active on Facebook, 92(68.1%) had reported that social media is useful for learning, 71(52.6%) had used networking for social media, 83(61.5%) were on 2 social platforms, 135(100%) had used social media everyday, 76(56.3%) had posted somewhat often on social media, 135(100%) said that social media as the first thing they check in the morning, 124(91.9%) had not bullied

online and 135(100%) were harassed online. The table also shows that the demographic variable 'which social media channels are you most active on' (χ^2 =13.726, p=0.033) had shown statistically significant association with level of mental health among adolescents at p<0.05 level and the other demographic variables had not shown statistically significant association with level of mental health among adolescents.



	of Level of Mental H phic Variables	Frequency N=135	Percentage (%)	Chi-Square Tes
1) How many hours do you	1 hour	28	20.7	
spend on social media every	2-3 hours	89	65.9	χ ² =4.015 d.f=6 p=0.675
day?	3-5 hours	14	10.4	N.S
_	More than 5 hours	4	3.0	
2)Which social media	Facebook	94	69.6	
channels are you most active	Instagram	24	17.8	$\chi^2 = 13.726$
on?	Snapchat	4	3.0	d.f=6 p=0.033 S*
_	Twitter	13	9.6	. 5
3)How useful is social media	Very useful	92	68.1	2
for learning?	Somewhat useful	36	26.7	$\chi^2=3.790$ d.f=4 p=0.435 N
-	Not useful	7	5.2	a.i-+ p-0.+55 N
4)What do you use social	Networking	71	52.6	
media for?	Business	4	3.0	$\chi^2 = 5.208$ d.f=6 p=0.517
-	Learning	53	39.2	N.S
-	Others	7	5.2	
5)How many social platforms	1	22	16.3	
are you on?	2	83	61.5	χ ² =2.955 d.f=6 p=0.814
-	3	21	15.5	0.1=0 p=0.814 N.S
-	4	9	6.7	
-	5 and above	_	-	
6)How often do you use	Every day	135	100.0	
social media?	Weekly	-	-	
F	Monthly	-	-	
F	Others	-	-	
7)How often do you post on	Very often	36	26.7	
social media?	Somewhat often	76	56.3	$\chi^2 = 6.450$
	Rarely	23	17.0	d.f=4 p=0.168 N
8)Is social media the first	Yes	135	100.0	
thing you check in the morning?	No	-	-	-
9)Have you ever been bullied	Yes	11	8.1	χ²=0.473
online?	No	124	91.9	d.f=2 p=0.790 N
10)Have you ever been	Yes	135	100.0	
harassed online?	No	-	-	-

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Table 3 Association	or Lever (oi vientai	неаци	Among	line Adolescen	i sinaenis
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Note: *p<0.05, S - Significant, N.S - Not Significant



Та	ble 4: Frequency and Percentage Distribution	of level of Mental Health An	nong the Adolescent Studen	lts
	Level of Mental Health	Frequency (N-135)	Percentage	

Level of Mental Health	Frequency (N-135)	Percentage
Mild Distress $(1 - 42)$	35	25.93
Moderate Distress (43 – 84)	71	52.59
Severe Distress (85 – 126)	29	21.48

The above table (4) shows that among the adolescents, 71(52.59%) had moderate distress, 35(25.93%) had mild

distress and 29(21.48%) had severe distress.

Table 5: Assessment of Mental Health Among Adolescents				
Score				
32.0				
120.0				
51.0				
63.35				
25.32				

The above table 5 shows that the mean score of mental health among adolescents was 63.35 ± 25.32 . The median was 51.0 with minimum score of 32.0 and maximum score of 120.0.

DISCUSSION

The analysis revealed in table 4 shows that among the adolescents, 71(52.59%) had moderate distress, 35(25.93%) had mild distress and 29(21.48%) had severe distress. The findings of this study were consistent by the study conducted by Chirag Gupta, Sangita Jogdand, Mayank Kumar (2022) to review the impact of social media on the mental health of the adolescents and young adults. Despite rising evidence of the harmful impacts of social media on adolescent mental health, there is still a paucity of empirical research on how teenagers understand social media, notably as a body of wisdom, or how they can use the larger modern media discourses to voice an opinion (Strasburger, et al 2012).

The youth use smartphones and other media in high numbers, which leads to chronic sleep deprivation, having a detrimental impact on cognitive ability, school performance, and socioemotional functioning. Smartphone and social media use among teenagers are associated with an increase in mental distress, self-harming behaviours, and suicidality, according to evidence from numerous cross-sectional, longitudinal, and empirical studies (Shannon, et al 2022). The analysis revealed in the table 3 shows that the demographic variable 'Which social media channels you are most active on?' (χ^2 =13.726, p=0.033) had shown statistically significant association with level of mental health among adolescents at p<0.05 level and the other demographic variables had not shown statistically significant association with level of mental health among adolescents. Hence the research hypothesis

CONCLUSION

The focus of research on social media use is to identify individual experiences putting adolescent emotional well-being at risk. Individual user vulnerabilities and the effects of digital media on those vulnerabilities is suspected of causing them to engage with social media in adaptive or maladaptive ways. For example, adolescent tendencies toward depression, anxiety, and loneliness affect how they use social media. Additionally, social media use by some females can be concerning, since female adolescents report spending more time on social media and experience poorer mental health than male peers (Brandie Walton, Denise Rizzolo, 2022).

The present study is to assess the effects of social media on mental health of adolescent group in selected schools in Chennai. The study concluded that majority of the adolescents who were exposed to social media had mild to moderate distress and hence necessary health education on impact of extensive exposure to social media on mental health must be imparted to the adolescents to improve their mental health and quality of life. The investigator had drawn the following implications (Pew

ResearchCenter, 2018) from this study which is the vital concern to the field of nursing practice, nursing education, nursing administration and nursing research.

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