

ORIGINAL RESEARCH PAPER

Community Medicine

INTERNET ADDICTION IN YOUNG MEDICAL STUDENTS USING YOUNG'S INTERNET ADDICTION TEST: A CROSS-SECTIONAL STUDY

KEY WORDS:

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INTRODUCTION

Internet has become an indispensable necessity of modern times offering multiple benefits such as information, recreation and communication. However, excessive usage of Internet has been found to be associated with a host of problems in some individuals affecting their personal, professional and social lives. This "loss of control" or "inability to regulate Internet use" has been termed as "Internet addiction" at its extreme, and has been compared to a phenomenon akin to substance abuse leading to an inquiry into its mechanism, whether its disadvantages outweigh its advantages and if it can be regulated or minimized by intervention. It has been found recently by imaging techniques that prolonged Internet use may result in grey matter atrophy causing decrease in concentration, memory and executive ability.

Adolescence is a particularly vulnerable group owing to higher experimental and risk taking behavior² along with lesser cognitive maturity³ and limited ability of critical thinking⁴. In a study conducted by ChatothVM et al. (2013)⁵, it was found that prevalence of internet addiction (moderate and severe) among undergraduate medical students was 18.9%, thereby revealing medical students as a particularly vulnerable group.

Technology like internet was created to make official communication and research easier. 3.36 billion people utilize the internet worldwide, according to Internet World Stats. There are 692 million active internet users in India. Studies suggest that approximately 20% to 40% of students in India are at a risk for internet addiction.

In 2023, India had over 1.2 billion internet users across the country. This figure was projected to grow to over 1.6 billion users by 2050, indicating a big market potential in internet services for the South Asian country. In fact, India was ranked as the second largest online market worldwide in 2022, second only to China. The number of internet users was estimated to increase in both urban as well as rural regions, indicating a dynamic growth in access to internet.

It is a multi-faceted behavioral condition that can present as variety of physical, psychological, and social diseases and that alters the functional and anatomical makeup of the brain as well as causing a number of associated co-morbidities.

Addicts generally use internet excessively ranging anywhere between forty to eighty hours per week with up to twenty hour long sessions, however, timing is not considered a hallmark of Internet addiction⁷.

Misuse of the internet has become a health concern worldwide and is growing swiftly and steadily. The field of

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internet addiction has experienced significant debates over the years. WHO included internet gaming disorder in the chapter of substance and behavioural addiction in the 11th edition of the International Classification of Diseases and Related Health Problems (ICD-11)⁸. Internet addiction can reduce the young generation's productivity and cause cognitive dysfunction, poor academic performance and physical, mental and behavioural disturbances⁸.

The term "Internet addiction" was suggested as a satirical hoax in 1995 by a psychiatrist Dr. Ivan Goldberg based in New York. Later, Dr. Young observed severe psychosocial problems in a young man who used Internet excessively. She found it similar to pathological gambling- an impulse control disorder listed in Diagnostic and Statistical Manual of Mental Disorders (DSM) IV. She also suggested that there could be various types and purpose of Internet addiction such as sexual, relationship and information based ¹⁰. She gave its first scientific description in 1996 and later, developed an Internet Addiction Test¹¹.

Multiple scales, questionnaires and instruments are developed over time to measure internet addiction. But the most commonly used reliable scale is the Internet Addiction Test (IAT) developed by Young. The scale consists of 20 items rated on a 5-point Likert scale yielding a total score with a range of 20 to 100^{12} .

INSTRUMENTS

Young's Internet Addiction test (YIAT20)

Severity of problematic Internet use was assessed by the Internet Addiction Test (IAT) developed by Young. The test contains 20 self-reported items using Likert scale in which scores of 1 and 5 are defined as "rarely" and "always" respectively. It includes questions on how Internet behavior affects an individual's lives on a day to day basis including social interactions, feelings and sleeping patterns¹³. High scores indicated higher severity or problems with internet use. As per a recent meta-analysis¹⁴, the scoring was done as follows: 20-39- Average users with complete control, 40-69-Internet usage with frequent problems / "Possible addicts" and 70-100-Internet usage with significant problems/ "Addicts".

On this subject, there are not many local studies, yet there are a lot of people using the internet. The purpose of this study was to determine the extent of internet addiction among medical students.

Aims and Objectives

To estimate the prevalence and characteristics of internet usage, addiction among medical students.

MATERIAL AND METHODS

A cross-sectional study was conducted between June 2023 to November 2023 on 384 medical students of both sexes of DY Patil Hospital, Navi Mumbai using a semi-structured self-administered questionnaire. It includes questions pertaining to socio-demographic status, attitude, practice based and Young's internet addiction test.

After obtaining the institutional ethical clearance and permission from the authorities the study was conducted. For data gathering, a semi-structured interview schedule was created.

Three hundred and eighty four medical students i.e. undergraduates of both sexes were enrolled for the study by convenience sampling after they were informed about the purpose of the study and the method of completing the questionnaire. The students were interviewed and their privacy and confidentiality was maintained. Informed verbal consent was taken from each participant. The exclusion criteria consisted of any previous history of anxiety / depression / psychiatric problems, drug history of antidepressants/ tranquilizers, etc., thyroid disorders or history of substance abuse, and those who did not give consent to participate in the study.

All the data were tabulated and relevant inferences were drawn. Present work includes distribution of prepared questionnaire, collection of responses against each question, a compilation of data in the form of tables and graphs, interpretation of data using appropriate statistical test and conclusion.

RESULTS Table 1 : Characteristics

Characteristics	Frequency	%
Gender		
Male	278	72.4
Female	106	27.6
Place of Residence		
Urban	365	95.1
Rural	19	4.9
Current Place of Study		
Hostel	98	25.5
Home	223	58.1
Private accomodation	63	16.4
Education of Father		
Primary	19	4.9
High School	74	19.3
Graduate and above	291	75.8
Occupation of Father		
Professional	45	11.7
Private Practioner	44	11.5
Business	147	38.3
Government Employee	68	17.7
Working abroad	18	4.7
Corporate job	62	16.1
Family Income		
0-1 lac	50	13
1-5 lac	99	25.8
5-10 lac	119	31
>10 lac	116	30.2
Type of gadgets		
Mobile phone	135	35.2

Laptop			
All of the above 219 57 Gadgets used Personal gadgets 312 81.3 Parents gadgets 50 13 Internet cafe 24 6.3 All 64 16.7 Not answered 8 2.1 Characteristics Frequency % Monthly expenditure on internet (Rs.) 0-200 42 10.9 200-400 110 28.6 400-600 89 23.2 600-80 69 18 800-1000 74 19.3 Purpose of Internet Education 189 49.2 Entertainment 145 37.8 Socialising 50 13 Time spend daily 30 min 1 hr. 14.1 1 hr 2 hr. 156 40.6 3-4 hr. 113 29.4 4-5 hr. 61 15.9 Time spend for non academic purpose 30 min 1 hr. 12 13.1 1 hr 2 hr. 122 31.8 3-4 hr. 89 23.2 4-5 hr. 52 13.5 5-6 hr. 35 9.1 6-7 hr. 13 3.4 7-8 hr. 18 4.7 8-9 hr. 12 3.1 9-10 hr. Health Problem Faced Nil 158 41.1 Headache 58 15.1 Backache 38 9.9 Sleep disturbances 59 15.4 Anxiety, Stress and visual 71 18.5	Laptop	11	2.9
Gadgets used 312 81.3 Personal gadgets 50 13 Internet cafe 24 6.3 All 64 16.7 Not answered 8 2.1 Characteristics Frequency % Monthly expenditure on internet (Rs.) Frequency % 0-200 42 10.9 200-400 110 28.6 400-600 89 23.2 600-80 69 18 800-1000 74 19.3 Purpose of Internet Education 189 49.2 Entertainment 145 37.8 Socialising 50 13 Time spend daily 30 min 1 hr. 54 14.1 1 hr 2 hr. 156 40.6 3-4 hr. 113 29.4 4-5 hr. 61 15.9 Time spend for non academic purpose 30 min 1 hr. 32 8.3 30 min 2 hr. 32 8.3 3 4-5 hr. 52 13.5 5-6 hr.	Tablets / Ipads	16	4.2
Gadgets used 312 81.3 Personal gadgets 50 13 Internet cafe 24 6.3 All 64 16.7 Not answered 8 2.1 Characteristics Frequency % Monthly expenditure on internet (Rs.) Frequency % 0-200 42 10.9 200-400 110 28.6 400-600 89 23.2 600-80 69 18 800-1000 74 19.3 Purpose of Internet Education 189 49.2 Entertainment 145 37.8 Socialising 50 13 Time spend daily 30 min 1 hr. 54 14.1 1 hr 2 hr. 156 40.6 3-4 hr. 113 29.4 4-5 hr. 61 15.9 Time spend for non academic purpose 30 min 1 hr. 32 8.3 30 min 2 hr. 32 8.3 3 4-5 hr. 52 13.5 5-6 hr.	All of the above	219	57
Parents gadgets 50 13 Internet cafe 24 6.3 All 64 16.7 Not answered 8 2.1 Characteristics Frequency % Monthly expenditure on internet (Rs.) Frequency % 0-200 42 10.9 200-400 110 28.6 400-600 89 23.2 600-80 69 18 800-1000 74 19.3 Purpose of Internet Education 189 49.2 Entertainment 145 37.8 Socialising 50 13 Time spend daily 30 min 1 hr. 54 14.1 1 hr 2 hr. 156 40.6 3-4 hr. 113 29.4 4-5 hr. 61 15.9 Time spend for non academic purpose 30 min 1 hr. 32 8.3 3 hr. 3 hr. 3.8 9.1 6-7 hr. 12 31.8 3-4 hr. 49.2 23.2 4-5 hr. 52 <td></td> <td></td> <td></td>			
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Internet cafe 24 6.3 All 64 16.7 Not answered 8 2.1 Characteristics Frequency % Monthly expenditure on internet (Rs.) 6 0-200 42 10.9 200-400 110 28.6 400-600 89 23.2 600-80 69 18 800-1000 74 19.3 Purpose of Internet Education 189 49.2 Entertainment 145 37.8 Socialising 50 13 Time spend daily 30 min 1 hr. 54 14.1 1 hr 2 hr. 156 40.6 3-4 hr. 113 29.4 4-5 hr. 61 15.9 Time spend for non academic purpose 30 min 1 hr. 32 8.3 1 hr 2 hr. 32 8.3 1 4-5 hr. 52 13.5 5-6 hr. 52 13.5 5-6 hr. 35 9.1 5-7 hr. 13 3.4 4.7 <td< td=""><td></td><td>50</td><td>13</td></td<>		50	13
Not answered 8 2.1		24	6.3
Characteristics Frequency % Monthly expenditure on internet (Rs.) (Rs.) (Rs.) 0-200 42 10.9 200-400 110 28.6 400-600 89 23.2 600-80 69 18 800-1000 74 19.3 Purpose of Internet Education 189 49.2 Entertainment 145 37.8 Socialising 50 13 Time spend daily 30 min 1 hr. 54 14.1 1 hr 2 hr. 156 40.6 3-4 hr. 113 29.4 4-5 hr. 61 15.9 Time spend for non academic purpose 30 min 1 hr. 32 8.3 30 min 1 hr. 32 8.3 1 hr 2 hr. 32 8.3 3-4 hr. 49.2 31.8 3-4 hr. 122 31.8 3-4 hr. 122 31.8 3-5 hr. 52 13.5 5-6 hr. 52 13.5 6-7 hr. 13 3.	All	64	16.7
Monthly expenditure on internet (Rs.) 0-200	Not answered	8	2.1
(Rs.) 0-200	Characteristics	Frequency	%
(Rs.) 0-200	Monthly expenditure on internet		
200-400 110 28.6 400-600 89 23.2 600-80 69 18 800-1000 74 19.3 Purpose of Internet Education 189 49.2 Entertainment 145 37.8 Socialising 50 13 Time spend daily 30 min 1 hr. 54 14.1 1 hr 2 hr. 156 40.6 3-4 hr. 113 29.4 4-5 hr. 61 15.9 Time spend for non academic purpose 30 min 1 hr. 32 8.3 1 hr 2 hr. 32 8.3 1 hr 2 hr. 122 31.8 3-4 hr. 89 23.2 4-5 hr. 52 13.5 5-6 hr. 35 9.1 6-7 hr. 13 3.4 7-8 hr. 18 4.7 8-9 hr. 12 3.1 9-10 hr. 11 2.9 Health Problem Faced Nil 158 41.1 Headache 58 15.1 <td></td> <td></td> <td></td>			
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600-80 69 18 800-1000 74 19.3 Purpose of Internet Education 189 49.2 Entertainment 145 37.8 Socialising 50 13 Time spend daily 30 min 1 hr. 54 14.1 1 hr 2 hr. 156 40.6 3-4 hr. 113 29.4 4-5 hr. 61 15.9 Time spend for non academic purpose 30 min 1 hr. 32 8.3 1 hr 2 hr. 122 31.8 3-4 hr. 89 23.2 4-5 hr. 52 13.5 5-6 hr. 35 9.1 6-7 hr. 13 3.4 7-8 hr. 18 4.7 8-9 hr. 12 3.1 9-10 hr. 11 2.9 Health Problem Faced Nil 158 41.1 Headache 58 15.1 Backache 38 9.9 Sleep disturbances 59 15.4 Anxiety, Stress and visual 71	200-400	110	28.6
800-1000 74 19.3 Purpose of Internet 189 49.2 Entertainment 145 37.8 Socialising 50 13 Time spend daily 30 min 1 hr. 54 14.1 1 hr 2 hr. 156 40.6 3-4 hr. 113 29.4 4-5 hr. 61 15.9 Time spend for non academic purpose 30 min 1 hr. 32 8.3 1 hr 2 hr. 32 8.3 1 hr 2 hr. 122 31.8 3-4 hr. 89 23.2 4-5 hr. 52 13.5 5-6 hr. 35 9.1 6-7 hr. 13 3.4 7-8 hr. 18 4.7 8-9 hr. 12 3.1 9-10 hr. 11 2.9 Health Problem Faced Nil 158 41.1 Headache 58 15.1 Backache 38 9.9 Sleep disturbances 59 15.4 Anxiety, Stress and visual 71 18.5	400-600	89	23.2
Purpose of Internet Education 189 49.2 Entertainment 145 37.8 Socialising 50 13 Time spend daily 30 min 1 hr. 54 14.1 1 hr 2 hr. 156 40.6 3-4 hr. 113 29.4 4-5 hr. 61 15.9 Time spend for non academic purpose 83 31.8 30 min 1 hr. 32 8.3 1 hr 2 hr. 122 31.8 3-4 hr. 89 23.2 4-5 hr. 52 13.5 5-6 hr. 35 9.1 6-7 hr. 13 3.4 7-8 hr. 18 4.7 8-9 hr. 12 3.1 9-10 hr. 11 2.9 Health Problem Faced Nil 158 41.1 Headache 58 15.1 Backache 38 9.9 Sleep disturbances 59 15.4 Anxiety, Stress and visual 71 18.5	600-80	69	18
Education 189 49.2 Entertainment 145 37.8 Socialising 50 13 Time spend daily 30 min 1 hr. 54 14.1 1 hr 2 hr. 156 40.6 3-4 hr. 113 29.4 4-5 hr. 61 15.9 Time spend for non academic purpose 30 min 1 hr. 32 8.3 1 hr 2 hr. 32 31.8 3-4 hr. 89 23.2 4-5 hr. 52 13.5 5-6 hr. 35 9.1 6-7 hr. 13 3.4 7-8 hr. 18 4.7 8-9 hr. 12 3.1 9-10 hr. 11 2.9 Health Problem Faced Nil 158 41.1 Headache 58 15.1 Backache 38 9.9 Sleep disturbances 59 15.4 Anxiety, Stress and visual 71 18.5	800-1000	74	19.3
Entertainment 145 37.8 Socialising 50 13 Time spend daily 30 min 1 hr. 54 14.1 1 hr 2 hr. 156 40.6 3-4 hr. 113 29.4 4-5 hr. 61 15.9 Time spend for non academic purpose 30 min 1 hr. 32 8.3 1 hr 2 hr. 122 31.8 3-4 hr. 89 23.2 4-5 hr. 52 13.5 5-6 hr. 52 13.5 5-6 hr. 13 3.4 7-8 hr. 13 3.4 7-8 hr. 18 4.7 8-9 hr. 12 3.1 9-10 hr. 11 2.9 Health Problem Faced Nil 158 41.1 Headache 58 15.1 Backache 38 9.9 Sleep disturbances 59 15.4 Anxiety, Stress and visual 71 18.5	Purpose of Internet		
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Time spend for non academic purpose 30 min 1 hr. 1 hr 2 hr. 1 122 31.8 3-4 hr. 89 23.2 4-5 hr. 52 13.5 5-6 hr. 35 9.1 6-7 hr. 13 3.4 7-8 hr. 18 4.7 8-9 hr. 12 3.1 9-10 hr. Health Problem Faced Nil Headache 58 15.1 Backache 38 9.9 Sleep disturbances 59 15.4 Anxiety, Stress and visual	3-4 hr.	113	29.4
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4-5 hr. 52 13.5 5-6 hr. 35 9.1 6-7 hr. 13 3.4 7-8 hr. 18 4.7 8-9 hr. 12 3.1 9-10 hr. 11 2.9 Health Problem Faced 158 41.1 Headache 58 15.1 Backache 38 9.9 Sleep disturbances 59 15.4 Anxiety, Stress and visual 71 18.5	1 hr 2 hr.	122	31.8
5-6 hr. 35 9.1 6-7 hr. 13 3.4 7-8 hr. 18 4.7 8-9 hr. 12 3.1 9-10 hr. 11 2.9 Health Problem Faced 41.1 Nil 158 41.1 Headache 58 15.1 Backache 38 9.9 Sleep disturbances 59 15.4 Anxiety, Stress and visual 71 18.5	3-4 hr.	89	23.2
6-7 hr. 13 3.4 7-8 hr. 18 4.7 8-9 hr. 12 3.1 9-10 hr. 11 2.9 Health Problem Faced Nil 158 41.1 Headache 58 15.1 Backache 38 9.9 Sleep disturbances 59 15.4 Anxiety, Stress and visual 71 18.5	4-5 hr.	52	13.5
7-8 hr. 18 4.7 8-9 hr. 12 3.1 9-10 hr. 11 2.9 Health Problem Faced 41.1 Nil 158 41.1 Headache 58 15.1 Backache 38 9.9 Sleep disturbances 59 15.4 Anxiety, Stress and visual 71 18.5	5-6 hr.	35	9.1
8-9 hr. 12 3.1 9-10 hr. 11 2.9 Health Problem Faced 41.1 Nil 158 41.1 Headache 58 15.1 Backache 38 9.9 Sleep disturbances 59 15.4 Anxiety, Stress and visual 71 18.5	6-7 hr.	13	3.4
9-10 hr. 11 2.9 Health Problem Faced Nil 158 41.1 Headache 58 15.1 Backache 38 9.9 Sleep disturbances 59 15.4 Anxiety, Stress and visual 71 18.5	7-8 hr.	18	4.7
Health Problem Faced 41.1 Nil 158 41.1 Headache 58 15.1 Backache 38 9.9 Sleep disturbances 59 15.4 Anxiety, Stress and visual 71 18.5	8-9 hr.	12	3.1
Nil 158 41.1 Headache 58 15.1 Backache 38 9.9 Sleep disturbances 59 15.4 Anxiety, Stress and visual 71 18.5	9-10 hr.	11	2.9
Headache 58 15.1 Backache 38 9.9 Sleep disturbances 59 15.4 Anxiety, Stress and visual 71 18.5	Health Problem Faced		
Backache 38 9.9 Sleep disturbances 59 15.4 Anxiety, Stress and visual 71 18.5	Nil	158	41.1
Sleep disturbances 59 15.4 Anxiety, Stress and visual 71 18.5	Headache	58	15.1
Anxiety, Stress and visual 71 18.5	Backache	38	9.9
Anxiety, Stress and visual 71 18.5	Sleep disturbances	59	15.4
	Anxiety, Stress and visual	71	18.5

The above tables shows the basic characteristics, In our study 278 (72.4%) were male and 106 (27.6%) were female. Maximum cases from Urban background only 19 cases (4.9%) were from rural background. 291 (75.4%) fathers education was in the category of Graduation and above. Maximum cases 147 cases (38.3%) from Business family background. Only (50) 13% of cases were from lower income group (less than 1 lac p.a.). 135 cases (35.2) have mobile phone, 312 (81.3%) were have their own personal gadgets. Maximum cases have spent on internet is between 200-600 Rs. per month. 189 cases (49.2%) have use their mobile for education purpose. 1 to 2 hours daily time spending on internet was maximum in our cases. 122 (31.8%) were spend their time on internet for non academic purpose. Due to use of internet and mobile headache was found in 58 (15.1%), Backache 38 (9.9%), sleep disturbances in 59 cases (15.4%) and Anxiety, Stress and visual disturbance in 71 cases (18.5%).

Table 2:

Table 1.										
		RISK SCORE								
			Normal		Mild		Moderate			
		Count	%	Count	%	Count	%	Count	%	
Health Problem Faced	Nil	81	51.30%	51	32.30%	23	14.60%	3	1.90%	
	Headache	23	39.70%	19	32.80%	16	27.60%	0	0.00%	
	Backache	13	34.20%	12	31.60%	13	34.20%	0	0.00%	

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	Sleep Disturbances	19	32.20%	15	25.40%	23	39.00%	2	3.40%
	Anxiety, Stress, etc	20	28.20%	24	33.80%	23	32.40%	4	5.60%
	Chi Square = 29.519, P va	alue = 0.0	3 (Signific	cant)					
Purpose of Usage of	Education	100	52.90%	56	29.60%	31	16.40%	2	1.10%
Internet	Entertainment	39	26.90%	54	37.20%	48	33.10%	4	2.80%
	Socialising	17	34.00%	11	22.00%	19	38.00%	3	6.00%
	Chi Square = 34.214, P va	alue = 0.0	001 (Signif	ficant)					
Time spend daily for non	1	24	75.00%	6	18.80%	2	6.30%	0	0.00%
academic purpose (hour)	2	61	50.00%	45	36.90%	16	13.10%	0	0.00%
	3	42	47.20%	24	27.00%	23	25.80%	0	0.00%
	4	17	32.70%	16	30.80%	19	36.50%	0	0.00%
	5	7	20.00%	14	40.00%	13	37.10%	1	2.90%
	6	1	7.70%	5	38.50%	5	38.50%	2	15.40%
	7	1	5.60%	7	38.90%	9	50.00%	1	5.60%
	8	2	16.70%	3	25.00%	6	50.00%	1	8.30%
	9	1	9.10%	1	9.10%	5	45.50%	4	36.40%
	Chi Square = 136.548, P	value = 0	.001 (Sign	ificant)	-				

The above tables shows the risk score in our study. Mild risk score related to health problem faced was observed in our study (p value = 0.03, Significant). Purpose of usage of internet risk factor was normal in 100 (52.90%) cases, 56

(29.60%) as mild and only 2 (1.10%) cases were observed as severe (p value = 0.001, Significant). Time spend daily for non academic purpose (hour) one hour daily in 24 (75%) cases were in normal risk score (p value = 0.001, Significant).

Table 3: Frequency Tables of LIKERT SCALE

			Valid					
			0 (Not	1	2	3	4	5
			applicable)	(Rarely)	_	(Frequently)	-	(Always
Q1	How often do you find that	Frequency	9.0	49.0	94.0	96.0	83.0	53.0
~	you stay online longer than	Percent	2.3	12.8	24.5	25.0	21.6	13.8
	you needed?	Valid Percent	2.3	12.8	24.5	25.0	21.6	13.8
		Cumulative Percent	2.3	15.1	39.6	25.0	86.2	100.0
02	Do you neglect household	Frequency	48.0	109.0	91.0	62.0	51.0	23.0
~	chores to spend more time	Percent	12.5	28.4	23.7	16.1	13.3	6.0
	online?	Valid Percent	12.5	28.4	23.7	16.1	13.3	6.0
		Cumulative Percent	12.5	40.9	64.6	80.7	94.0	100.0
О3	How often do you form new	Frequency	133.0	111.0	43.0	49.0	29.0	19.0
~	relationships with fellow	Percent	34.6	28.9	11.2	12.8	7.6	4.9
	online users?	Valid Percent	34.6	28.9	11.2	12.8	7.6	4.9
		Cumulative Percent		63.5	74.7	87.5	95.1	100.0
04	How often do others in your	Frequency	58.0	117.0	78.0	55.0	40.0	36.0
-	life complain to you about the		15.1	30.5	20.3	14.3	10.4	9.4
	amount of time you spend	Valid Percent	15.1	30.5	20.3	14.3	10.4	9.4
	online?	Cumulative Percent		45.6	65.9	80.2	90.6	100.0
	1	1	Valid		- 2- -	- 	1	1
			0 (Not	1	2	3	4	5
				-	(Occasionally)	-	-	(Always
D 5	How often do your grades or	Frequency	56.0	113.0	86.0	71.0	35.0	23.0
~ -	school work suffer because of		14.6	29.4	22.4	18.5	9.1	6.0
	the amount of time you spend	Valid Percent	14.6	29.4	22.4	18.5	9.1	6.0
	the amount of time you spend online?			29.4 44.0	22.4 66.4	18.5 84.9	9.1 94.0	6.0 100.0
D 6	online?	Cumulative Percent		-				
Q 6	the amount of time you spend online? How often do you check your email before something else		14.6	44.0	66.4	84.9	94.0	100.0
Q6	online? How often do you check your	Cumulative Percent Frequency	14.6 104.0	44.0 99.0	66.4 79.0	84.9 56.0	94.0 26.0	100.0
Q6	online? How often do you check your email before something else	Cumulative Percent Frequency Percent	14.6 104.0 27.1 27.1	44.0 99.0 25.8	66.4 79.0 20.6	84.9 56.0 14.6	94.0 26.0 6.8	100.0 20.0 5.2
	online? How often do you check your email before something else that you need to do?	Cumulative Percent Frequency Percent Valid Percent	14.6 104.0 27.1 27.1	44.0 99.0 25.8 25.8	66.4 79.0 20.6 20.6	84.9 56.0 14.6 14.6	94.0 26.0 6.8 6.8	100.0 20.0 5.2 5.2
	online? How often do you check your email before something else	Cumulative Percent Frequency Percent Valid Percent Cumulative Percent	14.6 104.0 27.1 27.1 27.1	44.0 99.0 25.8 25.8 52.9	66.4 79.0 20.6 20.6 73.4	84.9 56.0 14.6 14.6 88.0	94.0 26.0 6.8 6.8 94.8	100.0 20.0 5.2 5.2 100.0
	online? How often do you check your email before something else that you need to do? How often does your job performance or productivity suffer because of the	Cumulative Percent Frequency Percent Valid Percent Cumulative Percent Frequency	14.6 104.0 27.1 27.1 27.1 55.0	44.0 99.0 25.8 25.8 52.9 117.0	79.0 20.6 20.6 73.4 94.0	84.9 56.0 14.6 14.6 88.0 69.0	94.0 26.0 6.8 6.8 94.8 36.0	100.0 20.0 5.2 5.2 100.0 13.0
	online? How often do you check your email before something else that you need to do? How often does your job performance or productivity	Cumulative Percent Frequency Percent Valid Percent Cumulative Percent Frequency Percent Valid Percent	14.6 104.0 27.1 27.1 27.1 55.0 14.3	44.0 99.0 25.8 25.8 52.9 117.0 30.5	66.4 79.0 20.6 20.6 73.4 94.0 24.5	84.9 56.0 14.6 14.6 88.0 69.0 18.0	94.0 26.0 6.8 6.8 94.8 36.0 9.4	100.0 20.0 5.2 5.2 100.0 13.0 3.4
Q7	online? How often do you check your email before something else that you need to do? How often does your job performance or productivity suffer because of the	Cumulative Percent Frequency Percent Valid Percent Cumulative Percent Frequency Percent	14.6 104.0 27.1 27.1 27.1 55.0 14.3	44.0 99.0 25.8 25.8 52.9 117.0 30.5 30.5	66.4 79.0 20.6 20.6 73.4 94.0 24.5 24.5	84.9 56.0 14.6 14.6 88.0 69.0 18.0	94.0 26.0 6.8 6.8 94.8 36.0 9.4	100.0 20.0 5.2 5.2 100.0 13.0 3.4 3.4
Q7	online? How often do you check your email before something else that you need to do? How often does your job performance or productivity suffer because of the Internet?	Cumulative Percent Frequency Percent Valid Percent Cumulative Percent Frequency Percent Valid Percent Cumulative Percent Cumulative Percent	14.6 104.0 27.1 27.1 27.1 55.0 14.3 14.3	44.0 99.0 25.8 25.8 52.9 117.0 30.5 30.5	66.4 79.0 20.6 20.6 73.4 94.0 24.5 24.5 69.3	84.9 56.0 14.6 14.6 88.0 69.0 18.0 18.0 87.2	94.0 26.0 6.8 6.8 94.8 36.0 9.4 9.4 96.6 40.0	100.0 20.0 5.2 5.2 100.0 13.0 3.4 3.4 100.0
Q7	online? How often do you check your email before something else that you need to do? How often does your job performance or productivity suffer because of the Internet? How often do you become defensive or secretive when anyone asks you what you do	Cumulative Percent Frequency Percent Valid Percent Cumulative Percent Frequency Percent Valid Percent Cumulative Percent Trequency	14.6 104.0 27.1 27.1 27.1 55.0 14.3 14.3 79.0	44.0 99.0 25.8 25.8 52.9 117.0 30.5 44.8 120.0	66.4 79.0 20.6 20.6 20.6 73.4 94.0 24.5 24.5 69.3 70.0	84.9 56.0 14.6 14.6 88.0 69.0 18.0 18.0 87.2 53.0	94.0 26.0 6.8 6.8 94.8 36.0 9.4 9.4 96.6	100.0 20.0 5.2 5.2 100.0 13.0 3.4 3.4 100.0 22.0
Q7	online? How often do you check your email before something else that you need to do? How often does your job performance or productivity suffer because of the Internet? How often do you become defensive or secretive when	Cumulative Percent Frequency Percent Valid Percent Cumulative Percent Frequency Percent Valid Percent Cumulative Percent Frequency Percent Cumulative Percent Frequency Percent	14.6 104.0 27.1 27.1 27.1 55.0 14.3 14.3 14.3 79.0	44.0 99.0 25.8 25.8 52.9 117.0 30.5 30.5 44.8 120.0 31.3	66.4 79.0 20.6 20.6 20.6 73.4 94.0 24.5 24.5 69.3 70.0 18.2	84.9 56.0 14.6 14.6 88.0 69.0 18.0 18.0 87.2 53.0 13.8	94.0 26.0 6.8 6.8 94.8 36.0 9.4 9.4 96.6 40.0	100.0 20.0 5.2 5.2 100.0 13.0 3.4 3.4 100.0 22.0 5.7
Q7	online? How often do you check your email before something else that you need to do? How often does your job performance or productivity suffer because of the Internet? How often do you become defensive or secretive when anyone asks you what you do	Cumulative Percent Frequency Percent Valid Percent Cumulative Percent Frequency Percent Valid Percent Cumulative Percent Cumulative Percent Frequency Percent Valid Percent Valid Percent	14.6 104.0 27.1 27.1 27.1 55.0 14.3 14.3 14.3 79.0 20.6 20.6	44.0 99.0 25.8 25.8 52.9 117.0 30.5 30.5 44.8 120.0 31.3 31.3	66.4 79.0 20.6 20.6 73.4 94.0 24.5 24.5 69.3 70.0 18.2 18.2	84.9 56.0 14.6 14.6 88.0 69.0 18.0 18.0 87.2 53.0 13.8 13.8	94.0 26.0 6.8 6.8 94.8 36.0 9.4 9.4 96.6 40.0 10.4 10.4	100.0 20.0 5.2 5.2 100.0 13.0 3.4 3.4 100.0 22.0 5.7 5.7
Q7	online? How often do you check your email before something else that you need to do? How often does your job performance or productivity suffer because of the Internet? How often do you become defensive or secretive when anyone asks you what you do	Cumulative Percent Frequency Percent Valid Percent Cumulative Percent Frequency Percent Valid Percent Cumulative Percent Cumulative Percent Frequency Percent Valid Percent Valid Percent	14.6 104.0 27.1 27.1 27.1 55.0 14.3 14.3 14.3 79.0 20.6 20.6	44.0 99.0 25.8 25.8 52.9 117.0 30.5 30.5 44.8 120.0 31.3 31.3	66.4 79.0 20.6 20.6 73.4 94.0 24.5 24.5 69.3 70.0 18.2 18.2	84.9 56.0 14.6 14.6 88.0 69.0 18.0 18.0 87.2 53.0 13.8 13.8	94.0 26.0 6.8 6.8 94.8 36.0 9.4 9.4 96.6 40.0 10.4 10.4	100.0 20.0 5.2 5.2 100.0 13.0 3.4 3.4 100.0 22.0 5.7 5.7
Q7	online? How often do you check your email before something else that you need to do? How often does your job performance or productivity suffer because of the Internet? How often do you become defensive or secretive when anyone asks you what you do	Cumulative Percent Frequency Percent Valid Percent Cumulative Percent Frequency Percent Valid Percent Cumulative Percent Cumulative Percent Frequency Percent Valid Percent Valid Percent	14.6 104.0 27.1 27.1 27.1 55.0 14.3 14.3 14.3 79.0 20.6 20.6 Valid	44.0 99.0 25.8 25.8 52.9 117.0 30.5 30.5 44.8 120.0 31.3 31.3 51.8	66.4 79.0 20.6 20.6 20.6 73.4 94.0 24.5 24.5 69.3 70.0 18.2 18.2 70.1	84.9 56.0 14.6 14.6 88.0 69.0 18.0 18.0 87.2 53.0 13.8 13.8 83.9	94.0 26.0 6.8 6.8 94.8 36.0 9.4 9.4 96.6 40.0 10.4 10.4 94.3	100.0 20.0 5.2 5.2 100.0 13.0 3.4 100.0 22.0 5.7 5.7 100.0
Q7 Q8	online? How often do you check your email before something else that you need to do? How often does your job performance or productivity suffer because of the Internet? How often do you become defensive or secretive when anyone asks you what you do	Cumulative Percent Frequency Percent Valid Percent Cumulative Percent Frequency Percent Valid Percent Cumulative Percent Cumulative Percent Frequency Percent Valid Percent Valid Percent	14.6 104.0 27.1 27.1 27.1 55.0 14.3 14.3 14.3 79.0 20.6 20.6 Valid 0 (Not	44.0 99.0 25.8 25.8 52.9 117.0 30.5 30.5 44.8 120.0 31.3 31.3 51.8	66.4 79.0 20.6 20.6 20.6 73.4 94.0 24.5 24.5 69.3 70.0 18.2 18.2 70.1	84.9 56.0 14.6 14.6 88.0 69.0 18.0 18.0 87.2 53.0 13.8 13.8 83.9	94.0 26.0 6.8 6.8 94.8 36.0 9.4 9.4 96.6 40.0 10.4 10.4 94.3	100.0 20.0 5.2 5.2 100.0 13.0 3.4 100.0 22.0 5.7 5.7 100.0
Q7	online? How often do you check your email before something else that you need to do? How often does your job performance or productivity suffer because of the Internet? How often do you become defensive or secretive when anyone asks you what you do online?	Cumulative Percent Frequency Percent Valid Percent Cumulative Percent Frequency Percent Valid Percent Cumulative Percent Cumulative Percent Frequency Percent Valid Percent Cumulative Percent Cumulative Percent	14.6 104.0 27.1 27.1 27.1 55.0 14.3 14.3 14.3 79.0 20.6 20.6 20.6 Valid 0 (Not applicable)	44.0 99.0 25.8 25.8 52.9 117.0 30.5 30.5 44.8 120.0 31.3 31.3 51.8	66.4 79.0 20.6 20.6 73.4 94.0 24.5 24.5 69.3 70.0 18.2 18.2 70.1	84.9 56.0 14.6 14.6 88.0 69.0 18.0 18.0 87.2 53.0 13.8 13.8 83.9	94.0 26.0 6.8 6.8 94.8 36.0 9.4 9.4 96.6 40.0 10.4 10.4 94.3	100.0 20.0 5.2 5.2 100.0 13.0 3.4 3.4 100.0 22.0 5.7 5.7 100.0
Q6 Q7 Q8	online? How often do you check your email before something else that you need to do? How often does your job performance or productivity suffer because of the Internet? How often do you become defensive or secretive when anyone asks you what you do online? How often do you block out	Cumulative Percent Frequency Percent Valid Percent Cumulative Percent Frequency Percent Valid Percent Cumulative Percent Cumulative Percent Frequency Percent Valid Percent Cumulative Percent Valid Percent Valid Percent Frequency Frequency	14.6 104.0 27.1 27.1 27.1 55.0 14.3 14.3 14.3 79.0 20.6 20.6 20.6 Valid 0 (Not applicable) 57.0	44.0 99.0 25.8 25.8 52.9 117.0 30.5 30.5 44.8 120.0 31.3 31.3 51.8	66.4 79.0 20.6 20.6 73.4 94.0 24.5 24.5 69.3 70.0 18.2 18.2 70.1	84.9 56.0 14.6 14.6 88.0 69.0 18.0 18.0 87.2 53.0 13.8 13.8 83.9	94.0 26.0 6.8 6.8 94.8 36.0 9.4 9.4 96.6 40.0 10.4 10.4 94.3	100.0 20.0 5.2 5.2 100.0 13.0 3.4 100.0 22.0 5.7 5.7 100.0

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Q10	How often do you find	Frequency	64.0	98.0	91.0	76.0	34.0	21.0
	yourself anticipating when	Percent	16.7	25.5	23.7	19.8	8.9	5.5
	you will go online again?	Valid Percent	16.7	25.5	23.7	19.8	8.9	5.5
		Cumulative Percent	16.7	42.2	65.9	85.7	94.5	100.0
Q11	How often do you fear that life	Frequency	46.0	84.0	88.0	80.0	47.0	39.0
	without the Internet would be	Percent	12.0	21.9	22.9	20.8	12.2	10.2
	boring, empty, and joyless?	Valid Percent	12.0	21.9	22.9	20.8	12.2	10.2
		Cumulative Percent	12.0	33.9	56.8	77.6	89.8	100.0
O12	How often do you snap, yell,	Frequency	84.0	127.0	75.0	49.0	31.0	18.0
-	or act annoyed if someone	Percent	21.9	33.1	19.5	12.8	8.1	4.7
	bothers you while you are	Valid Percent	21.9	33.1	19.5	12.8	8.1	4.7
	online?	Cumulative Percent	21.9	54.9	74.5	87.2	95.3	100.0
			Valid			_		
			0 (Not	1	2	3	4	5
			`	(Rarely)	(Occasionally)	(Frequently)	(Often)	(Always)
O13	How often do you lose sleep	Frequency	53.0	108.0	85.0	61.0	44.0	33.0
	due to being online?	Percent	13.8	28.1	22.1	15.9	11.5	8.6
	j	Valid Percent	13.8	28.1	22.1	15.9	11.5	8.6
		Cumulative Percent		41.9	64.1	79.9	91.4	100.0
Ω14	How often do you feel	Frequency	102.0	106.0	71.0	63.0	22.0	20.0
2	preoccupied with the Internet		26.6	27.6	18.5	16.4	5.7	5.2
	when off-line, or fantasize	Valid Percent	26.6	27.6	18.5	16.4	5.7	5.2
	about being online?	Cumulative Percent		54.2	72.7	89.1	94.8	100.0
015	How often do you find	Frequency	43.0	77.0	90.0	87.0	49.0	38.0
QIO	yourself saying "just a few	Percent	11.2	20.1	23.4	22.7	12.8	9.9
	more minutes" when online?	Valid Percent	11.2	20.1	23.4	22.7	12.8	9.9
		Cumulative Percent		31.3	54.7	77.3	90.1	100.0
016	How often do you try to cut	Frequency	44.0	79.0	96.0	78.0	49.0	38.0
QIO	down the amount of time you	Percent	11.5	20.6	25.0	20.3	12.8	9.9
	spend online and fail?	Valid Percent	11.5	20.6	25.0	20.3	12.8	9.9
	speria cimile ana ran.	Cumulative Percent	11.5	32.0	57.0	77.3	90.1	100.0
		Cumulative Percent	Valid	34.0	51.0	11.3	90.1	100.0
				1	2	3	4	5
			0 (Not applicable)	-	_	~	(Often)	-
017	II	T	85.0	` '	80.0	73.0	`	29.0
QII	How often do you try to hide how long you've been online?	Frequency	22.1	87.0 22.7	20.8		30.0 7.8	7.6
	now long you've been online:					19.0		7.6
		Valid Percent	22.1	22.7	20.8	19.0	7.8	
010		Cumulative Percent		44.8	65.6	84.6	92.4	100.0
Q18	How often do you choose to	Frequency	70.0	106.0	87.0	61.0	29.0	31.0
	spend more time online over	Percent	18.2	27.6	22.7	15.9	7.6	8.1
	going out with others?	Valid Percent	18.2	27.6	22.7	15.9	7.6	8.1
		Cumulative Percent		45.8	68.5	84.4	91.9	100.0
Q19	How often do you feel	Frequency	95.0	98.0	73.0	56.0	36.0	26.0
	depressed, moody, or	Percent	24.7	25.5	19.0	14.6	9.4	6.8
	nervous when you are off-line,		24.7	25.5	19.0	14.6	9.4	6.8
	which goes away once you are back online?	Cumulative Percent	24.7	50.3	69.3	83.9	93.2	100.0

The above tables shows frequency tables of LIKERT SCALE. 53.0 frequency was observed for stay online longer than you needed according to the LIKERT Scale 5 (Always). 19.0 frequency was observed for new relationships with fellow online users, 14.0 valid percent was noted on (0, not applicable) scale for work suffer of grades or school because of the amount of time you spend online.

The life without the Internet would be boring, empty and joyless frequency was 84 and 29.4% was observed in our study on 1 (Rarely Scale) in LIKERT SCALE parameters. In our study "just a few more minutes" when online answer was noted 90.0 frequency (23.4%) in scale of 2 (Occasionally) in LIKERT SCALE. Spend more time online over going out with others was noted maximum 106 frequency (27.6%) in our study for LIKERT SCALE TEST.

DISCUSSION

The use of internet has become an essential part of modernday life, and the global population using the internet has grown to almost 3.8 billion. The number of internet users, as well as using hours, has grown exponentially among educated people because it is the most appropriate tool for worldwide communication, information source, and a broader source of entertainment. 16

Now-a-days with increasing internet penetration, affordability of smart phones, and availability of high-speed internet connectivity, the use of internet has become pervasive in India. With the rapid growth of internet access and usage; an impending doom of excessive use of internet for the most online activities paved a clear path toward internet addiction, which was defined as an imprudent and compulsive use of the internet. 17-19.

The millennial generation's view of the Internet as a wealth of information and a crucial tool for communication has resulted in a huge dependence on it in every aspect of life, leading to pathological addiction-like state ²⁰.

India being among the top consumers of Internet worldwide, this misuse of the tool is not uncommon. The plethora of research over the past two decades have collectively pointed toward the adolescents, especially university students being at a greater risk for internet addiction²¹.

In the present study, 278 (72.4%) were male and 106 (27.6%)

were female. Maximum cases from urban background only 19 (4.9%) cases were from rural background. Maximum cases 147 (38.3%) cases from business family background. Only 50 (13%) of cases were from lower income group (<1 lac p.a.). 135 (35.2%) cases have mobile phone, 312 (81.3%) had their own personal gadgets. Maximum cases have spent Rs 200-600 per month on internet usage. 189 (49.2%) cases have used their mobile for education purpose. 122 (31.8%) students spend their time on internet for non academic purpose. Due to use of internet and mobile, headache was found in 58 (15.1%), backache 38 (9.9%), sleep disturbances in 59 cases (15.4%) and anxiety, stress and visual disturbance in 71 (18.5%) cases. Similar observation were found in the study of Asokan AG et al. (2019)22 that comparison of patterns of internet usage and socio demographic data among students with and without addiction. Presence of facebook and Whatsapp accounts and increased frequency of its usage had a positive association with internet addiction. Similarly respondents using internet for more than 2 hours a day and more than an hour for social communication also had positive correlation with internet addiction. (Table 1)

Mild risk score related to health problem faced was observed in our study (p value=0.03, Significant). Purpose of usage of internet risk factor was normal in 100 (52.90%) cases, 56 (29.60%) as mild and only 2 (1.10%) cases were observed as severe (p value=0.001, Significant). Time spend daily for non academic purpose (hour) one hour daily in 24 (75%) cases were in normal risk score (p value=0.001, Significant). In the study of Rao SB et al. (2024)²³ psychological distress with 42.1% experienced depression, 42.4% anxiety and 20.0% stress symptoms. In addition, 25.0% were classified as alexithymia. Significant correlations were found between grades of depression, anxiety, stress, and alexithymia with gender, residence, psychiatric illness in family, substance, and Internet use. (Table 2).

In our study 53.0 frequency was observed for those who stayed online longer than they needed according to the LIKERT Scale 5 (always). 19.0 frequency was observed for new relationships with fellow online users, 14.0 valid percent was noted. In our study the parameter "the life without the Internet would be boring, empty, and joyless frequency was 84 and 29.4% was observed on 1 (Rarely Scale) in LIKERT SCALE parameters. In our study "just a few more minutes" when online answer was noted 90.0 frequency (23.4%) in scale of 2 (Occasionally) in LIKERT SCALE. In our study, spending more time online over going out with others was noted maximum 106 frequency (27.6%) as per the LIKERT SCALE TEST.

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