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A Systematic Review And Research Agenda Of Internet Addiction Among Adolescents

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Abstract:

Background: Internet addiction is very serious problem in today's time among children and also among younger adults in India. It has become an important health and social issues in India. This review aimed to evaluate the prevalence of internet addiction among adolescents, factors responsible for internet addiction and its impact

Method: I searched following data base like PubMed, Medline, also through google scholar search engine and offline journals. Review included studies related to Prevalence of Internet addiction among adolescents, factors affecting internet addiction and studies related to Negative impact of internet addiction on Adolescents

Result: The result revealed that Prevalence of Internet addiction ranged from 0.4% to 50.8% among adolescents which was identified by using Youngs Internet addiction scale, communication, accessing explicit material, and financial gains, accessing sex-oriented materials, and spending excessive time online, motivations for internet use, mental health, social skills, Environmental factors contribute to Internet addiction. Internet addiction had negative impact on physical health, psychological health and Academic performance

Conclusion: There is a need to conduct much more studies on internet addiction, need to developpreventive strategies on prevention of Internet addiction and conduct comparative studies amongurban and rural adolescents

Introduction:

The internet is global linking of computers that allows information transfer. The Internet has made life a lot easier by making information more accessible to all and creating connections with different people around the world. However, it has also led a lot of people to spend too much time in front of the computer, so much so that it becomes the centre of their lives. This can lead to an Internet or computer addiction. The term "INTERNET ADDICTION" was proposed by Dr. Ivan Goldberg in 1996 for pathological compulsive internet use. Internet addiction is very serious problem in today's time. Internet or computer addictions manifest inseveral ways that cover various degrees and areas of Internet usage. They are the following:

- Information overload. Too much online surfing leads to decreased productivity at workand fewer interactions with family members.
- Compulsions. Excessive time spent in online activities such as gaming, trading of stocks, gambling and even auctions often lead to overspending and problems at work.
- Cybersex addiction. Too much surfing of porn sites often affects real-life relationships.
- Cyber-relationship addiction. Excessive use of social networking sites to create relationships rather than spending time with family or friends may destroy real-liferelationships.

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Whenever Internet addicts feel overwhelmed, stressed, depressed, lonely or anxious, they use the Internet to seek solace and escape. Certain people are predisposed to having a computer or Internet addiction, such as those who suffer from anxiety and depression.

Their lack of emotional support means they turn to the Internet to fill this need. There are also those who have a history of other types of addiction, such as addictions to alcohol, drugs, sex and gambling. Even being stressed and unhappy can contribute greatly to the development of a computer or Internet addiction. People who are overly shy and cannot easily relate to their peers are also at a higher risk of developing a computer or Internet addiction.³⁵

An addiction to the Internet is manifested in both physical and emotional symptoms; however, these specifics may vary for each person. These are basically warning signals that an addiction may be developing.

The following symptoms are typical of online addicts:

- Feelings of guilt
- Anxiety
- Depression
- Dishonesty
- Euphoric feelings when in front of the computer
- Unable to keep schedules
- No sense of time
- **Isolation**
- Defensiveness
- Avoiding doing work
- Agitation

Physical Symptoms of Online Addiction.

The following symptoms are characteristic of someone who uses the computer for a very long period of time:

- Backache
- Headaches
- Weight gain or loss
- Disturbances in sleep
- Carpal tunnel syndrome
- Blurred or strained vision

The short-term effects of an online addiction include unfinished tasks, forgotten responsibilities and weight gain. Long-term effects are seen more in the physical symptoms such as backache, neck pain, carpal tunnel syndrome, and vision problems from staring at the screen. It can also lead to bankruptcy, especially if the time spent online is focused

on shopping, gambling and gaming. ³⁵

Objectives

The study was conducted to check out following objectives

- 1. To review and analyze the published research studies on prevalence of internetaddiction among adolescents
- 2. To review and analyze the published research studies on factors influencing internet addiction among adolescents
- 3. To review and analyze the published research studies on impact of internet addiction on the health of adolescents

Material and Methods

The study covered researches published in online and offline journals which were related to internet addiction of adolescents in India and abroad

Related work and discussion

Table 1: summary of Studies related to Prevalence of Internet addiction

I .	Author/p lace	Design	Sam ple size	Age group	Instruments	findings
1	Sharmaet.al			Adolesc ents	demographic proforma, Youngs Internet addiction scale	50% of students are addicted and it is necessary to develop strategies for prevention of Internet addiction and therapeutic interventions for promoting healthy and safe use of Internet
2	Ikenna Adiele Wole Olatokun (2014) Africa	Survey design		Adolesc	Hypersexual Behaviour Inventory and Problem Video Game Playing Scale	prevalence of internet addiction was more among male, most of them used internet for communication, getting sex-oriented material and to make money seemed to dominate addicts' mind. offline behavioural addiction was not an IA causal factor but rather a motivating factor.
3		Cross sectional survey desigh		Adolesc	Diagnostic Questionnaire , Internet Addiction Test (IAT)	findings of the present study suggest that there is a good level of concordance between IAT and YDQ. When time is a limitation, YDQ (8 items) can be considered for screening Internet addiction in this setting. The prevalence of severe Internet addiction ranged from 4.2% to 4.8% depending on the IAT and

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					YDQ measurements, respectively
	Compara cive study	977	Adolesc ents	Addiction Test (IAT),UCLA Loneliness Scale,	
Uzun, S. U.s	cross- sectional study		Adolesc ents and Early adulthood		The rate of risky or addicted use of internet is low among medical facultystudents
Öner,	Cross sectional study		Adolesc	developed by Griffith Brief Symptom Inventory (BSI) scale	The prevalence of Internet addiction was high among high school children, depression and negative self-perception raised Internet addiction. Duration of computer use, Reading no books in a week. Using computer as an hobby were the risk factors of Internet addiction
7. Roberto Polis & Emilias Agrimi	•	2533	High school students	Italian version of the Internet Addiction Test (IAT)	

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8	Shek, D. T. & Yu,L. (2016) HongKong	_	sampl es		aphic characteristic s positive youth development,	Male students consistently showed a higher prevalence rate of Internet addiction. prosocial attributes had a positive relationship with youth Internet addiction.
9.		sectional study		Medical students	_	The rate of Internet surfingformales is higher than that for females. the prevalence of internet addiction was 0.4%, moderate users and the possible addicts used the internet mostly for social networking (59.7%), downloading media files (18.9%), and online gaming (12.3%) when compared to academic purpose (0.1%), susceptibility for internet addiction was nearly same between males and females
10	K. E.	Study		Adolesc	Adolescent Demographic Questionnairer Young's diagnostic questionnaire	The prevalence of Internet addiction among Internet users of Central Greece is 8.2%, and it concerns mainly the male students who play online games and visit Internet cafés.

Table 2: summary of studies related to Factors affecting Internet addiction

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11	Alam,	Cross Sectional study	454	Adults	Youngs Internet prevalence of internet addictionscale addiction was high among younger participants. living setup, time spent daily on the internet, a detached family relationship, physical activity, and smoking habit were significant determinants for internet addiction
12	urthy,		554	Young adults	Young's 20-Mild to moderate Internet item Internet addiction was identified. Addiction Te stpermanently logged-in status; (IAT) peer influence; preference for virtual interaction with friends; and using the Internet for chatting, pornography, making new friendships, getting into relationships online, and shopping were potential influential factors for Internet addiction.
13.	Khalili,		400	Medical students	Chen Internet It was found that 2.1% of the Addiction Scalestudied population wereat risk and 5.2% were addicted users. Factors related to Internet addiction are male sex, stage of education, daily time spent on using internet most frequent time of internet use, monthly cost of use, and tea consumption.
14	Adiele, Ikenna & Olatokun, Wole. (2014)	Survey study	1022	Adolesc ents	Revised Internet In this study 20.3% were at risk of Addi ction TestIA (at-risk group) and were (RIAT), thus moderately addic ted to a questionnai reinternet use. Only 3.3% had made up of developed severe addiction to the EPQR-S Lie theuse of internet, and thus fell into the

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	Nigeria					addicts' group. Adolescents' onlineaddiction was mainly	
					Behaviour	influenced by extrinsicrea-sons for	
					Inventory and	internet use, although	
					Problem Video	therewerefew whosereasons for	
					Game Playing	going online weremainly intrinsic	
						Using the internet tocommunicate	
						on importantmatters, getting sex-	
						oriented materials, and making	
						money seemed to dominate	
						addicts' minds.	
15	Comert, I.	cross-	1628	Adolesc	Young's 20-	About 6% of the adolescents	
	T., Ugras,S.,	sectional		ents	item Internet	were categorized as being in	
	_	survey				theseverely addicted group.	
	Yükseloglu.	J			and self-		
	E. H,					psychological factors,	
	Turkey				questionnaire	impulsiveness and	
					which includes	aggression. Two	
					Psychological	environmental factors,	
					family and	namely accessibility to PC	
					school factors	cafés. and exposure to	
					and	Internet game ads were	
					Environment a	significant predictors of	
					factors	Internet addiction	
			1		ractors		
16		cross-	380	Younger		The rate o <mark>f risky or ad</mark> dicted	
	Uzun, S. U.,			Adults		use of inte <mark>rnet is low</mark> among	
		study			-	medical faculty students. Age,	
	Bozkurt,					class, socioeconomic factors	
	A. I. (2013)					and smoking does not affect	
						the status of being a risky or	
	Turkey					addicted user.	
			`				
17.	Kuss, D. J.,	Survey	3105	Adolesc	Compulsive	The use of online gaming and	
	van Rooij.	study		ents	Internet Use	social applications (online	
	A.J.,				Scale and the	social networking sites and	
	Shorter,					Twitter) increased the risk for	
	G. W					Internet addiction	
	Griffiths,						
	M. D., &van						
	de Mheen.						
	D.						
	(2013)						
	Netherlands						

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18	jourdib, Joseph E.Haddad , Chadia Sacre, Akel Marwan Salameh, Pascalebe id et.al (2021) Lebanon,			Adolesc	Internet psychiatric disorders, such as Addiction Testdepression and substance use (IAT) (smoking and alcohol), are associated with more problematic internet use among Lebanese adolescents.
19	G. B., Dos	study		Adolesc	Internet prevalence of IA was 50.8% Addiction Testand the rate was higher (IAT) and Well-among individuals who had Being Indexscreened positive for (WHO-5). depressive or anxiety disorders than among those who had not. Gaming, work and study related content and accessing sexual content are the factors influencing internetaddiction
Tah	le 3: Summa	ry of Impac	et of Inte	ernet addic	tion
20	,			Adolesc ents	specially Adolescents with excessive constructed use of internet had high semi- structuredscores on anxiety, depression, proforma and anxiety depression. The Internet Addiction Test addicts have poor mental, physical, and mental health score
					Dukes health profile

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21	Güzel, N., Kahveci, İ., Solak, N., Cömert, M., & Turan, F. N. (2018). Turkey			_	proforma with physical complaints. Internet Addiction Scale developed by Selim Günüç	Internet usage leads to many physical health problems, which may cause serious and permanent damage to physical health, physical complaints such as headache, feeling of stiffness, backache, neck pain and insomnia are seen in internet addicted students
22	Wanajak, Kesarapor n (2011). Chiang Mai, Thailand	study	952	Adolesc ents	Delphi technique, Structured	School problems, physical and mental health problems, and relationship problems were reported as being negative impacts of Internet use.
23	A. R.	Cross sectional study	137	Young adults	addiction and general health questionnaire	36.5%) were at the risk of internet addiction. A significant association was observed between internet addiction and general health.
24	Yeonsoo Kim1 *, Jir YoungPark2 *, Sung Byuk Kim3 , In-Kyung Jung4 , Yur Sook Lim5 and Jung- Hyun Kim4. Seoul, (2010)	300 /		Adolesc	addiction self- scale. Socio demographic proforma. Dietary behaviour questionnaire	Irregular bedtimes and theuse of alcohol and tobacco were higher in high-risk Internet users than no risk Internet users irregular dietary behavior due to the loss of appetite, a high frequency of skipping meals, and snacking might cause imbalances in nutritional intake. high-risk Internet users have inappropriate dietary behavior and poor diet quality, which could result
	Korea					in stunted growth and development.

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25	Syed ShahA cross Alam, Niksectional MohdHazrulstudy Nik Hashim, Maisarah Ahmad, Che Aniza Che Wel, Sallehudd ir Mohd Nor, & Nor Asiah Omar. (2014). Malaysia	200	Young adults	Internet addictionscale and self developed questionnaire or	results show that five negative impacts of excessive internet usages such as interpersonal problem, behavioural problem.
26	Y. Zheng, Survey D. Wei, Jstudy Li, T. Zhu and H. Ning, (2016)	530	Adults	online electronic questionnaire and Paper questionnaires	The most common complaints after prolonged suse of Internet were involving dry eyes, decreased vision, and cervical pain, Head ache, decreased sleep quality and skin worse. Longer the time spent on internet use higher the level and frequency of physical complaints
27	Ah. Yusuf Correlati Praba Diyanonal study Rachmaw	215	Adolecs ents	Internet Addiction Test (IAT)by Kimberly S.	There was a significant relationship found between adolescent Internet addiction and interaction with parents and school
	ati and Diana Rachmaw ati. (2020)			Young and Grifths	environment. But no relationship with Internet addiction and Interaction with community
28	Lebni, J.Y., descripti ve-	447	Adolesc	Young's	Internet addiction positively

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Toghroli,R., analytica Abbas, J. study NeJhadda dgar, N. Salahshoo r. M. R., Mansouri an, M., & Ziapour, A. (2020).	ents Internet Addiction Test and mental health. critical and Goldberg reason for using the Internet. faculty, depression, the central place for using the Internet, and somatic symptoms are vulnerability predictors for Internet addiction. findings specified that students' excessive internet usage leads to anxiety, depression, and adverse mental health, which affect their academic performance.
Taha,M.H., cross-shehzad,K., sectional study A.S., & Wadi, M.M. (2019). Saudi Arabia	Adolesc ents and Younger adults Addiction Test performance, loss of sleep due to late night internet use affecting the attendance for morning activities. Majority expressed depression, moody and nervousness when offline.
30. Kesarapor rSurvey Wanajak A Study (2011) Australia	Adolesc ents modified DelphiInternet addictive users spent significantly longer on the Internet School problems, physical and mental health problems, and relationship problems were reported

Discussion:

A comprehensive systematic review of research studies was performed to review the empirical evidence on Inter net addiction, factors affecting and impact of Internet addiction among adolescents and young adults a total of 30 studies were reviewed out of which 10 studies are related to Prevalence of Internet addiction, 9 studies are related to factors affecting internet addiction and 11 studies related to impact of Internet addiction.

Prevalance of Internet addiction was high among men Adolescents, addiction was mild to moderate (Arvind Sharma et.al(2014); Ikenna Adiele(2014); Deeksha Grover(2020); Ghassemzadeh L(2008); Ergin, A(2014); Şaşmaz, T(2012); Roberto Poli(2012); Shek, D. T. et.al(2016); Srijampana, V. V(2014); Siomos, K. E

as being negative impacts of

Internet use

et.al(2008).

Following are the factors responsible for Internet addiction identified in the reviewed research studies Time spent daily on Internet, Peer Influence, detached family, smoking habits, online shopping, seeing prone videos, , Easy accessibility of Internet cafes, Exposure to internet gaming, online networking like twitter, psychiatric disorders, depression, Anxiety, Substance abuse were (Hassan, T(2020); Krishnamurthy(2015); Shar Salehi, M(2014); Adiele, Ikenna & Olatokun, Wole(2014); Comert, I. T(2013); Ergin, A(2013); Kuss, D. J(2013); jourdib, Joseph et.al(2021); de Ávila, G. B(2020)

The negative impact of internet addiction was identified to be Anxiety, depression, Anxiety depression, Poor mental and physical health, physical complaints such as head ache, neck pain, feeling of stiffness, back ache dry eyes, vision problem, decreased sleep quality, irregular bed time, use of tobacco, irregular dietary behavior leading to stunted growth and development, Interpersonal and work problem, poor School/Academic performance and relationship problems (Goel, D(2013); Güzel, N(2018); Wanajak,Kesaraporn(2011); Yeonsoo Kim(2010); Syed Shah Alam(2010); Y. Zheng, D(2016); Ah. Yusuf (2020); Lebni, J. Y (2020); Taha, M.H(2019); Kesarapor N(2011).

Research gap Identified:

- 1. The need for developing strategies for the prevention of internet addiction and therapeutic interventions for promoting healthy and safe use of the internet among adolescents in India
- 2. The investigation of the concordance between different screening measures for internet addiction and the determination of the prevalence of severe internet addictionamong adolescents
- 3. The determination of the prevalence of internet addiction and its association with depression and negative self-perception among high school children
- 4. The determination of the prevalence of internet addiction and its association withdepression and negative self-perception among high school children
- 5. The investigation of the relationship between sociodemographic characteristics, positive youth development, family processes, and internet addiction behavior amonghigh school students
- 6. The exploration of the relationship between excessive internet use and mental health problems among Indian adolescents, including anxiety, depression, and poor mental and physical health scores
- 7. The assessment of negative impacts of internet use on school performance, physical and mental health, and relationships among adolescents
- 8. The investigation of the relationship between sociodemographic characteristics, positive youth development, family processes, and internet addiction behaviour among high school students
- 9. The investigation of the association between psychiatric disorders (depression and substance use) and problematic internet use among Lebanese adolescents
- 10. A comparative study on Prevalence of Internet addiction among urban and rural Highschool students
- 11. A comparative study on Factors affecting Internet addiction among urban and ruralhigh school students
- 12. A comparative study on Impact of Internet addiction among urban and rural Highschool students

Conclusion:

Based on the reviewed articles, it is evident that internet addiction is a prevalent issue amongadolescents and young adults across different countries. Male adolescents tend to have a higher risk of internet addiction, and motivations such as communication, accessing explicit material, and financial gains, accessing sex-oriented materials, and spending excessive time online, motivations for internet use, mental health, social skills, Environmental factors contribute to Internet addiction. Internet addiction is associated with negative consequences such as lower self-esteem, poorer social skills, loneliness, and adverse mental health outcomes. studies also highlighted the negative impact of Internet addiction on physical health, academic performance, and relationships

Efforts should be made to develop preventive strategies, therapeutic interventions, and screening tools to identify and address internet addiction. Promoting healthy and safe internet use, as well as improving socio-demographic factors, positive youth development, and family processes, can help mitigate the risks associated with internet addiction. Reviews also suggest to conduct comparative studies in urban and rural adolescents

and adults.

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