



## Proposed Diagnostic Criteria for Computer Addiction

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### Introduction

Computer addiction, also known as internet addiction or problematic internet use, refers to excessive and compulsive use of computers or the internet that interferes with daily life, work, relationships, and overall well-being. Research on computer addiction has focused on understanding its causes, effects, and potential interventions. Here are some key findings from computer addiction research:

**Prevalence:** Studies have shown that computer addiction is a growing concern worldwide, particularly among young adults and adolescents. The widespread availability of technology, online gaming, social media, and internet-related activities has contributed to the increased prevalence of computer addiction [1].

**Risk factors:** Several factors can contribute to the development of computer addiction. These include personal characteristics (such as low self-esteem, loneliness, impulsivity), environmental factors (such as easy access to computers and the internet), and specific online activities (such as gaming, social media, gambling) [2].

**Psychological and physical effects:** Computer addiction can have significant psychological and physical effects. Excessive computer use has been associated with symptoms of depression, anxiety, social isolation, poor academic or work performance, sleep disturbances, musculoskeletal problems, and vision-related issues.

**Neurobiological Aspects:** Neurobiological research suggests that computer addiction can affect the brain's reward system, similar to substance addiction. Studies have shown that excessive computer use can lead to alterations in brain structure and function, particularly in areas involved in decision-making, impulse control, and cognitive processes [3-5].

**Comorbidity:** Computer addiction often coexists with other mental health conditions, such as depression, anxiety disorders, attention deficit hyperactivity disorder (ADHD), and substance abuse. The relationship between computer addiction and these comorbid conditions is complex and may involve shared risk factors or reinforcing behaviors [6].

**Treatment approaches:** Various treatment approaches have been explored for computer addiction. These include cognitive-behavioral therapy (CBT), individual or group therapy, family therapy, psychoeducation, and in some cases, medication. Therapeutic interventions aim to address underlying psychological factors, develop healthier coping strategies, and promote balanced and responsible computer use [7].

**Prevention and education:** Efforts to prevent computer addiction and promote responsible internet use have focused on education and awareness. Schools, parents, and communities play a vital role in promoting digital literacy, healthy technology habits, and establishing guidelines for screen time and online activities.

**Gaming disorder:** The World Health Organization (WHO) has recognized gaming disorder as a mental health condition characterized by impaired control over gaming activities, prioritizing gaming

over other life interests, and continuing to engage in gaming despite negative consequences. Gaming disorder is considered a specific form of computer addiction.

It's important to note that research on computer addiction is still evolving, and there is ongoing debate regarding diagnostic criteria, classification, and the boundaries between excessive use and addiction. However, the existing body of research highlights the need for a balanced and responsible approach to technology use and emphasizes the importance of early intervention and support for individuals struggling with computer addiction [8].

### Computer addiction research effects on young people

Research on computer addiction has highlighted several effects on young people. Here are some key findings:

**Academic Performance:** Excessive computer use and internet addiction have been associated with poor academic performance among young people. Spending excessive time on computers or the internet can lead to reduced study time, decreased focus, and diminished academic achievement.

**Social isolation:** Young people who are addicted to computers or the internet may experience social isolation and difficulties in forming and maintaining relationships. Excessive screen time can replace face-to-face interactions, leading to decreased social skills, loneliness, and feelings of detachment from peers.

**Mental health issues:** Computer addiction has been linked to various mental health issues among young people. Studies have shown higher rates of depression, anxiety, and social anxiety among individuals with problematic internet use. The constant online presence and engagement in virtual worlds can impact emotional well-being and exacerbate existing mental health conditions.

**Sleep disturbances:** Excessive computer use, particularly in the evening or at night, can disrupt sleep patterns among young people. The blue light emitted by screens can interfere with the body's natural sleep-wake cycle, leading to difficulties falling asleep or maintaining quality sleep, which can further impact cognitive functioning and overall well-being.

**Physical health problems:** Prolonged sitting and sedentary behaviors associated with excessive computer use can contribute to

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**Received:** 06-May-2023, Manuscript No: jart-23-100089; **Editor assigned:** 08-May-2023, PreQC No. jart-23-100089 (PQ); **Reviewed:** 22-May-2023, QC No. jart-23-100089; **Revised:** 24-May-2023, Manuscript No. jart-23-100089 (R); **Published:** 31-May-2023, DOI: 10.4172/2155-6105.100534

**Citation:** Huim Z, Lio M, Taog R (2023) Proposed Diagnostic Criteria for Computer Addiction. J Addict Res Ther 14: 534.

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physical health problems in young people. Lack of physical activity can lead to weight gain, musculoskeletal issues (such as back and neck pain), and increased risk of obesity and associated conditions like diabetes and heart disease.

**Cognitive development:** Excessive reliance on computers and the internet may impact cognitive development in young people. Excessive screen time can limit opportunities for hands-on learning, problem-solving, and critical thinking. It can also affect attention span, concentration, and memory.

**Risky online behaviors:** Young people with computer addiction may engage in risky online behaviors, such as sharing personal information, cyberbullying, or participating in online gambling or gaming with real-world financial consequences. These behaviors can have long-term negative effects on their personal and social lives.

**Impaired Self-Regulation:** Excessive computer use can impair young people's ability to self-regulate their behaviors, leading to difficulties in managing time, setting boundaries, and controlling impulses. This lack of self-regulation can extend beyond computer use and impact various areas of life.

## How to create awareness on computer addiction research

Creating awareness about computer addiction research is crucial to promote understanding, prevention, and early intervention. Here are some ways to create awareness:

**Education in schools:** Collaborate with schools to incorporate educational programs on digital literacy, responsible technology use, and the potential risks of computer addiction. Offer workshops or seminars for students, teachers, and parents to raise awareness and provide strategies for healthy technology habits [9].

**Public Awareness Campaigns:** Develop public awareness campaigns focused on computer addiction and its impact on individuals, families, and society. Utilize various media channels, such as social media, television, radio, and print, to disseminate information, share personal stories, and provide resources for seeking help and support.

**Community workshops and events:** Organize community workshops, panel discussions, or public events where experts, researchers, and individuals with lived experiences can share knowledge and insights about computer addiction. Encourage open discussions, address misconceptions, and provide practical tips for responsible technology use [10].

**Collaboration with healthcare professionals:** Work in collaboration with healthcare professionals, including psychologists, counsellors, and addiction specialists, to spread awareness about computer addiction within the healthcare community. Provide training sessions or resources for professionals to recognize and address computer addiction in their practice [11].

**Parenting and family support:** Offer parenting workshops and support groups to educate parents about the risks of computer addiction and provide strategies for setting limits, fostering healthy technology habits, and maintaining open communication with their children. Empower families to create balanced technology routines and establish guidelines for screen time [12].

**Online resources:** Develop informative and user-friendly online resources, such as websites, blogs, and videos, that provide comprehensive information about computer addiction, its signs and symptoms, potential consequences, and available resources for help and

support. Make sure the information is easily accessible and shareable.

**Collaboration with technology companies:** Engage with technology companies and developers to promote responsible technology design. Encourage the implementation of features that promote healthy technology habits, such as built-in usage timers, activity tracking, and parental control options. Raise awareness among technology developers about the potential risks of addictive design elements [13].

**Collaboration with policy makers:** Advocate for policies and regulations that promote responsible technology use and address computer addiction. Collaborate with policy makers to incorporate computer addiction awareness and prevention programs into educational curricula, healthcare systems, and community initiatives.

**Research and Publications:** Encourage researchers and academics to continue studying computer addiction and publishing their findings in reputable journals. Promote the dissemination of research findings through conferences, symposiums, and online platforms to reach a wider audience and contribute to the scientific understanding of the issue [14].

**Support and treatment resources:** Ensure that information about support groups, treatment centers, helplines, and counselling services for computer addiction is readily available and easily accessible. Collaborate with organizations and professionals in the field to establish and promote resources for individuals seeking help.

By implementing these strategies, we can increase awareness about computer addiction, its impact, and the available resources for prevention and intervention. Through collective efforts, we can create a culture of responsible and balanced technology use, supporting the well-being of individuals, families, and communities [15].

## Conclusion

In conclusion, computer addiction research has shed light on the detrimental effects of excessive and problematic computer use, particularly among young people. The research has highlighted its impact on various aspects of life, including academic performance, social interactions, mental health, physical well-being, cognitive development, and self-regulation.

Creating awareness about computer addiction research is essential to promote understanding, prevention, and early intervention. Through education in schools, public awareness campaigns, community workshops and events, collaboration with healthcare professionals, parenting and family support, online resources, collaboration with technology companies, collaboration with policy makers, research and publications, and the availability of support and treatment resources, we can effectively raise awareness about computer addiction.

By increasing awareness, we can empower individuals, families, schools, and communities to develop healthy technology habits, recognize the signs of computer addiction, and seek help and support when needed. It is through these collective efforts that we can foster responsible and balanced technology use, safeguard the well-being of young people, and mitigate the negative consequences associated with computer addiction. Continued research, education, and advocacy in the field of computer addiction are vital to addressing this growing concern in our increasingly digital world.

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