Editorial: Internet Addiction & Gaming Disorders in Children and Adolescents

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Editorial on the Research Topic

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INTRODUCTION

Communications has always been the main driver of the globalized world. The Internet is a means which allows global sharing of knowledge, news, and entertainment. It has enabled intersectoral exchange in education, healthcare, and business. The recent COVID-19 pandemic has also emphasized the importance of the virtual world in telemedicine, home based learning, and telecommuting (1, 2). The digital generation has raised concerns about screen times (3), Internet addiction [Yu and Shek; Siste et al.; Fung et al.; Nik Jaafar et al.; (4)] as well as potential risks in social media [Yu and Shek; (5)]. Computer addiction was a concern as early as the 1980s (6).

EVALUATION OF INTERNET ADDICTION/GAMING DISORDERS

The International Classification of Diseases (ICD-11) has recognized gaming disorder to be one that is characterized by (a) impaired control over gaming, (b) increasing priority given to gaming over other activities to the extent that gaming takes precedence over other interests and activities, and (c) continuation of gaming despite experiencing negative consequences. It is also defined to be severe enough to cause significant functional impairment in various aspects of one's life (7). However, The American Psychiatric Association has placed “Internet Gaming Disorder” under Section III of Diagnostic and Statistical Manual of Mental Disorders (DSM-5), as a condition that warrants more clinical research (8). Related maladaptive behavior such as excessive use of Internet or social media, and their associated impact on mental health issues need further exploration.

A holistic approach to clinical evaluation of disorders associated with Internet or gaming addiction would involve (a) clear definition of problematic behaviors and disorders, (b) use of accurate diagnostic tools (c) identification of risk factors, and (d) identification of protective factors.

THE NEED FOR CLEAR DEFINITION

The prevalence of maladaptive behavior patterns associated with Internet use has garnered global interest. A study in Hong Kong showed that 11.4% of adolescents (n = 1,896) had social networking addiction (Yu and Shek). A study in Indonesia showed that 19.3% of adolescents (n = 2,932) were determined to have Internet addiction (Siste et al.). A South Korean study involving 2,984 adolescents explored defining various forms of Internet users, including gamers. Overall, 7 different profiles were described. These profiles showed variation in gender, problematic gaming behavior, as well as neuroticism (Kim et al.). These studies suggested that addictions are associated with various digital forms and need to be differentially identified in clinical assessment.
THE USE OF ACCURATE DIAGNOSTIC TOOLS

Since the definition of Internet addiction continues to evolve, it becomes challenging to adopt universal diagnostic tools. A meta-analysis that studied the reliability and validity of 5 Gaming Disorder Scales (GAS-7, AICA, IGDT-10, Lemmens IGD-9, and IGDS9-SF) showed that they had good internal consistency and test-retest reliability. However, few studies had checked for test-retest reliability (9). A China-based study evaluated the reliability and internal consistency of the “Chinese Internet Gaming Disorder Checklist (C-IGDC)” in determining the presence of Internet gaming disorder (Chen et al.). We need further research into the applicability of these tools in clinical practice across the globe.

IDENTIFICATION OF RISK FACTORS

As clinicians, we are also interested in risk stratification for a given disorder. There have been various studies that have researched risk factors associated with problematic Internet use and gaming addiction. A Hong Kong study identified social competence and a positive identity to be associated with social networking addiction. Parental roles have also been identified to be crucial in the development of social networking addiction (Yu and Shek). An Indonesian study had also explored the implication of the COVID-19 pandemic on Internet addiction. It found that increased duration of Internet use, internalization, externalization, low prosocial behavior as well as sleep disturbances have been associated with Internet addiction (Siste et al.). A study from Malaysia showed that age, male gender, ethnicity, and psychosocial factors (stress levels, loneliness, depression, anxiety) are also associated with Internet overdependence (Nik Jaafar et al.). Furthermore, a study from China supported the findings of psychological stress being associated with increased problematic smart phone use and social media use (Fung et al.). This information provides opportunities for preventive measures and interventions that target these risk factors.

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