Internet gaming disorder in adolescents

Abstract

Objective: The aim of this study was to determine the status of internet gaming disorder in adolescents.

Material and Method: The study was planned in Child Health Clinic of Tepecik Training and Research Hospital, and the relevant scale was administered to children attending high school between April 2019 and June 2019. All survey questionnaire questions used in the study were handled as variables, gender and age variables were also taken into consideration.

Results: A total of 2246 students were reached, and 177 of them did not provide any information about what grade they were in. The remaining 2069 students were in the 9th (42.4%: n=953), 10th (31.1%: n=703), 11th (14.5%: n=326), and 12th (3.9%: n=87) grade. A 56.1% of 2220 students who answered the question ‘What is your gender?’ were female students. As a response to the relevant question students indicated that they felt the need to spend an increasing amount of time playing games on internet most frequently to avoid negative emotions, and secondly to get satisfaction or enjoyment.

Conclusion: As a result, it is seen that internet gaming disorder, which is suggested to be investigated in DSM 5 and is a candidate for a new diagnosis, can be handled within the framework of a behavioral dependency. There is a need for further studies in terms of its incidence and effective factors related to this issue.

Keywords: adolescent, internet gaming disorder, behavioral dependency

Introduction

With the increase in the use of internet-related activities and the smart phones, the rapid assessment of technology is becoming increasingly popular worldwide. Following the acceptance of the term ‘internet dependency’, the concept of internet gaming disorder (IGD) has begun to be emphasized. It was categorized as a behavioral addiction for the first time in the Diagnostic and Statistical Manual of Mental Disorders -5 (DSM-5) and included under the heading of non-substance related disorders. As a result of the adoption of the concept of behavioral addiction in DSM-5, the debates about whether some behaviors such as internet addiction, video games, sex and physical exercise can be included in this group have gained momentum. IGD is a potential mental health disorder. The cognitive pathologies underlying IGD are overly prone to the overwhelming importance given to awards from online games, to take on different identities, to participate in activities, and thus to be extremely inclined to play video games. IGD, mostly resembles gambling addiction in DSM-5. IGD have 9 diagnostic criteria. These are concerns with internet games, feeling exhausted when being away from internet games, developing tolerance and increasing time spent on the internet, unsuccessful attempts to quit surfing on the internet, decreased enthusiasm in the fields of interests and hobbies, not being able to desist from playing games even though it is known that it will cause psychosocial problems. Misleading therapists and family members about the time spent during gaming, indulging in internet games to get away from negative moods, and missing friendship, work, education and career opportunities due to game addiction. Reaching consensus on the definition of IGD will speed up the diagnostic process, shape and guide treatment approaches.

Material and methods

The study was planned in Tepecik Training and Research Hospital Pediatric Clinic and performed after approvals from the local ethics committee of the hospital and provincial directorate of national education were obtained. Metropolitan Province of Izmir is located on the west coast with highly developed socio-cultural status. There are 240,202 high school students in Izmir. Within the scope of this study, the students who were between the ages of 14-18 and continued their high school education in Izmir constituted the study population. As sampling method, stratified random sampling method was used based on this method, the sample size was calculated as 2401 with a margin of 0.2 errors, a power value of 0.80, and a 95% confidence level. The survey questionnaire format was chosen as the data collection method. The study was conducted between April 2019 and June 2019 with the application of the nine-item Internet Gaming Disorder Scale (IGDS), which is one of the most popular DSM-5- based measurement tools to measure internet addiction among high school students at the international level. The scale consisting of 9 questions translated into Turkish by Arıcak OT et al.

All questionnaire survey questions used in the study were regarded as variables and variables of gender and age were also taken into consideration. All descriptive statistics (relevant means, deviations, ranges, etc.) will be obtained. Relationship between variables was determined using correlation coefficients, for pair wise comparisons between variables chi-square test, t-test, and z-test were used. ANOVA and Mann Whitney-U test were employed for the comparisons among more than two variables. The total score was obtained by averaging the answers given to each question, and the higher score indicated higher degree of dependence.

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Discussion

The first studies on internet dependency were conducted by Young in 1996. When Young conducted pioneering studies on internet dependency, it exacerbated a discussion among both clinicians and academicians.19 According to accessible international studies the prevalence of game dependency ranges between 0.6, and 15%.10,11 When literature is screened related to online game dependency, it is seen that the few studies conducted on this issue are limited to aiming at identifying, and defining online game dependency, revealing the similarities with internet addiction, and determining the reasons why individuals prefer such games.12 It is generally possible to explain this finding by the fact that self-control increases with age. This finding also emphasizes the fact that individuals in younger age groups are at greater risk for online gaming addiction,12 when we look at the discriminatory features, it can be said that one of the most frequently mentioned concepts resembling internet gaming disorder (IGD) is internet addiction.13 One of the most confused points has been related to separate concepts of internet addiction and IGD.14 For example, although problematic internet use is seen in a wide range of groups with different characteristics, IGD is mostly seen in the young male population. In particular, adolescents are looking for prestige in their families. Internet gaming disorder is one of the most important factors that confronts us in the prevention and evaluation of IGD. (5)

In the studies conducted, it has been discerned that the mean age of IGD patients indicate that adolescents and young adults are more prone to become victims of gaming addiction. This draws attention to the findings of the relationship between IGD and age of the netaholic. Indeed, it is reported that adolescents are the most risky group in developing IGD symptoms.17 Age is an important factor that faces us in the prevention and evaluation of IGD. (5) In our study, total score was found to be higher in the 9th grade namely approximately in the age group of 14-15 years, while dependency decreased in the 17 years of age. This condition may be related to the students’ preparing for university entrance exams, so they are not interested much in playing online games.

In the literature, it is noteworthy that studies on the treatment of IGD are very limited and there is no treatment protocol developed specific to this disorder which is proven to be effective. It is correct to say that the treatments in the current studies are general intervention techniques mostly used for the prevention of internet addiction or that such treatments are adapted to IGD,18 to the best of our knowledge, there has not yet been an empirical study on treatment of IGD in this country. In our country, studies are needed related to both incidence, and effective factors on the development of IGD, and also intervention methods regarding internet gaming disorder. In particular, it is hoped that the development of programs preventing adolescents from becoming internet addicts, and the increase in the number of psycho education programs that will enable early diagnostic signs, and symptoms to be understood by families will prevent the spread of the IGD. We believe that our study will form the basic source for researches and implementations regarding this issue in our country and, therefore will provide the basis for prevention programs that can be developed and implemented in our country for a candidate psychiatric problem. Higher number of young population in Turkey, the intensive use of digital technology, inadequacy of control and preventive measures may further substantiate the development and augmentation of this problematic issue. However, there is a need for further research results related to digital gaming addiction among adolescents and young adults in Turkey.19

Conclusion

As a result, it is seen that internet gaming disorder, which is suggested to be investigated in DSM 5 and is a candidate for a new diagnosis, can be handled within the framework of a behavioral dependency. There is a need for conduction of studies about incidence rates, an effective factors and intervention methods regarding IGD in our country. It is necessary to develop prevention programs especially for adolescents and also psycho education programs that will enable early stage diagnostic signs, and symptoms to be understood by families.
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Conflicts of interest
The author declares that there are no conflicts of interest.

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References