Increase in suicide rates among undergraduate students in Japanese national universities during the COVID-19 pandemic

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During the COVID-19 pandemic, many Japanese university students have been facing harsh living conditions. For example, instead of face-to-face sessions, many classes have been conducted remotely and students have had fewer opportunities to communicate with their friends, as a result of which they have often felt isolated. Many of them have suffered financial distress because of the pandemic-induced reduction in their parents’ income, and the additional difficulty of having to find part-time jobs to cover their tuition and living expenses. In addition, 4th-year students have had to address the challenge of job hunting in the face of a slowdown in employment activity. Furthermore, the pandemic has persisted much longer than they had first expected, and this has led some of them to have less hope. Under these circumstances, student mental health problems, including, in some cases, having suicidal thoughts, have been of particular concern.

On behalf of the Mental Health Committee of the Japanese National University Council of Health Administration Facilities, we have organized a continuous survey titled ‘The survey of undergraduate students who require temporary leave from school, drop out of school, or repeat the same class.’ We conducted part of the survey earlier than usual to see whether the suicide rate in the academic year 2020–2021 was higher than those in past years or not.

We requested health administration facilities at all 82 national universities with undergraduate schools in Japan to participate in the survey. Along with the total number of registered undergraduate students on 1 May 2020, we asked them to provide detailed information, including the sex and cause of death of each student who died in the academic year 2020–2021 (from 1 April 2020, to 31 March 2021). This study was approved by The Ethics Review Committee of the Japanese National University Council of Health Administration Facilities (N.3) and that of Ibaraki University (N. 150600).

All 82 universities participated in the survey and the number of registered students was 433 032 (273 308 men and 159 724 women). It was determined that 76 students (58 men and 18 women) died of suicide or suspected suicide as the cause of death. The suicide rates (per 100 000 students) were 17.6 in total, 21.2 for men, and 11.3 for women.

Figure 1 shows the annual tendency of suicide rates among undergraduate students from the academic years 2012–2013 to 2020–2021 extracted from our past surveys wherein about 70 universities participated each year. The suicide rates in total, and for men in the academic year 2020–2021 was the highest in the last six academic years, and that for women was the highest in the last 8 years.

Our continuous suicide rate survey is precise because it has been conducted every year. Thus, we can observe the annual transition of the suicide rates. Furthermore, all national universities with undergraduate schools participated in it on the academic year 2020–2021.

Tanaka and Okamoto reported the increasing trend of suicide rate following an initial decline during the COVID-19 pandemic in Japan, with larger increase among female, and according to the official report, the total suicide rate among the Japanese general population increased in 2020 for the first time in the last 12 years, and that of women increased for the first time in the last 2 years. We found that an increase in the suicide rate was seen not only among the general population, but also among undergraduate students. An alarming proportion of university students reportedly presented with depression, anxiety, and suicidal thoughts in various countries in 2020. The present results that the suicide rate among undergraduate students in Japanese national universities has increased reflects that Japan was no exception. Suicide prevention measures for university students are an urgent requirement. As the next step of our study, we should analyze the attributes of the students who died of suicide or suspected suicide in the academic year 2020–2021 and compare them with the results of our past study. It would lead us to find the characteristics of the high-risk population under the COVID-19 pandemic.
Psychiatric comorbidities and emotional intelligence in internet gaming disorder: Attention deficit hyperactivity disorder, major depressive disorder, generalized anxiety disorder, and social anxiety disorder

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Internet gaming disorder (IGD) has been included in the Diagnostic and Statistical Manual of Mental Disorders, Fifth Edition (DSM-5)1 and International Classification of Diseases, 11th Revision (ICD-11)2 because of its mental health impact. IGD had been reported to associate with a variety of psychiatric disorders, such as attention deficit hyperactivity disorder (ADHD), mood disorder, sleep disorder, or personality characteristics.3 Among them, ADHD, depressive disorder, and anxiety disorder are the frequent reported psychiatric comorbidities of IGD and are crucial in evaluating and treating IGD.4 However, how these comorbid psychiatric disorders affect emotional intelligence (EI) of individuals with IGD has not been adequately evaluated.

The facets of EI, such as emotional regulation, had been reported to be associated with IGD.5 However, the relationship between EI and IGD has not yet been evaluated through a diagnostic interview study. Further, understanding the characteristic EI of those with IGD and psychiatric comorbidities could contribute to the design of effective interventions specifically for individuals with IGD and a specific psychiatric disorder. Thus, in the present study, we aimed to evaluate (i) the psychiatric comorbidities of patients with IGD; (ii) the characteristic EI and psychiatric symptoms of participants with IGD and psychiatric comorbidities.

We recruited 69 individuals with IGD (IGD group), 69 matched regular gamers (RGs), and 69 nongamers aged between 20 and 38 years and all had >12 years of education. The regular gamers without IGD and nongamers were combined to represent a reasonable control group, to reach an adequate sample size, and to have a concise result. All participants underwent a diagnostic interview for IGD, ADHD, generalized anxiety disorder (GAD), major depressive disorder (MDD), and social anxiety disorder (SAD). They also completed scales assessing EI, depression, anxiety, and impulsivity those was detail in Supplement Materials (Appendix S1). All of them gave informed consent and their anonymity preserved. This study was conformed to the provisions of the Declaration of Helsinki and was approved by the Institutional Review Board of Kaohsiung Medical University Hospital in Taiwan (KMUHIRB-SV(II)-20150081).

The Chi-square analysis demonstrated a significant association between diagnoses of IGD and ADHD, GAD, and SAD (Table 1). ADHD was the most associated comorbid disorder of IGD, followed by GAD, in logistic regression analysis (Table S1). Participants with IGD had lower scores in all dimensions of EI (Table 1), particularly in self-control and wellbeing. Participants with IGD and ADHD exhibited lower self-control, emotionality, and higher impulsivity than other participants in IGD group (Table S2). Further, Participants with IGD and emotional comorbidity (MDD, GAD, or SAD) obtained lower scores in all subscales of EI and higher scores for depression and anxiety (Table S3). Details of the results are listed in Supplement Materials (Appendix S1).