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## Motivation for Gambling in Student Population – Application of the Self-Determination Theory Framework

## **Extended summary**

Research shows that a certain group of young people, such as students, is particularly vulnerable to involvement in gambling activities and the development of pathological gambling. Using Self-determination theory as a conceptual framework that focuses on understanding the motivation for starting a behavior and maintaining it over time (Ryan & Deci, 2020), which includes three forms of motivation: intrinsic motivation, extrinsic motivation and amotivation. The aim of this research is to examine the nature of the motivation for gambling among students of the University of Belgrade in relation to the extent of the risk of developing gambling problems. Starting from the fact that gambling among the student population in our country is still an unexplored area, an additional goal is to examine gambling-related activities (age of first contact with gambling, favorite gambling games, family gambling history) and so-ciodemographic characteristics (gender, material status, form of housing).

The research sample included 158 students of the University of Belgrade, 58% female and 42% male, aged between 18 and 25 years.

The research was conducted electronically in the period from December 2021 to June 2022. The instruments used are: Questionnaire on sociodemographic characteristics; The South Oaks Gambling Screen and The Gambling Motivation Scale. The questionnaire on sociodemographic characteristics contains questions on sociodemographic data (gender, age, material status, satisfaction with material status, form of residence, gambling history in the family, age at which the first gambling activities began). The South Oaks Gambling Screen (SOGS; Lesieur & Blume, 1987) consists of 12 scored questions and 11 additional questions. Initially, the

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questionnaire was developed according to the symptoms of pathological gambling from DSM-III and DSM-III-R and is one of the most widely used instruments for assessing the presence of pathological gambling internationally (Battersby et al., 2002). The questions are answered in the affirmative or in the negative, and several questions are scored based on the frequency of the given behavior. Scoring the questionnaire yields a general score on gambling addiction, on the basis of which respondents are selected according to threshold values: those who are pathological gamblers (more than 4 points) and potentially pathological (problem) gamblers (with 3 and 4 points). The Gambling Motivation Scale (GMS; Shantal et al., 1994) assesses three factors of motivation: intrinsic, extrinsic, and amotivation. The questionnaire contains 28 items that divide motivation into seven subscales, namely: 1) intrinsic motivation for knowledge, 2) intrinsic motivation for achievement, 3) intrinsic motivation for stimulation, 4) extrinsic motivation – identification; 5) extrinsic motivation – external regulation, 6) extrinsic motivation introjection, and 7) amotivation, which respondents evaluate on a seven-point Likert scale, from 1 - does not apply to me at all, through 4 - moderately applies to me, to 7 - it totally applies to me.

Statistical data processing was done in the statistical package IBM SPSS 23 and MS Excel. Descriptive statistical measures were used: percentages (%), and in testing statistical significance the chi-square test ( $\chi^2$ ), analysis of variance and the Kruskal-Wallis test and the difference between ranks.

The results show that of the total number of respondents, 10.6% of students met the criterion of being pathological gamblers, 6.96% of students are potentially pathological gamblers, and 82.28% of students did not have a problem with gambling. Based on the proposed motivational perspective, students who were motivated to experience stimulation/excitement had more gambling problems. Specifically, pathological gamblers had higher scores (M=5.16, SD=1.24) than the group of potential pathological gamblers (M=3.41 SD=1.84), with an average difference of 1.75 units (p=.002), but also from the group of students without risk (M=2.39, SD=1.44), with an average difference of 2.77 units (p=.000) on the subscale intrinsic motivation to experience stimulation. When it comes to extrinsic motivation on the subscale - regulation through identification, pathological gambler students (M=2.47, SD=1.74) had significantly higher scores than subjects from the risk-free group (M=1.69, SD=1.09), and that for an average 0.77 units (p=.011). In other words, students who used gambling as a way of coping with daily stress and provided some relief have more gambling problems. Most often they preferred: sports betting, casino and gambling on slot machines. Students whose gambling progressed to pathological gambling started in high school and have a positive family history of gambling. Such findings imply the need for education on risky behaviors to be integrated into the process of teaching organization, starting from elementary school age, which can prevent further escalation of problematic behavior at a later age. Also, the obtained results may have important implications for the prevention of gambling among students and the treatment of student gambling. Bearing in mind all of the above, the need for more systematic research in our country and the design of preventive programs is unequivocally imposed.

**Keywords**: student population, gambling, motivation, self-determination theory, prevention

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