# PREDICTORS OF MODERATE-RISK-TO-PROBLEM GAMBLING AMONG CANADIAN DAY TRADERS

| INTRODUCTION   | RI  |
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| <ul> <li>Financial speculation includes activities such as<br/>penny stocks, shorting stocks, trading options, fu<br/>cryptocurrencies, and day trading.</li> </ul>  | purchasing<br>utures, and   |
| • Previous studies have revealed that factors such gender <sup>[1-6]</sup> , racial/ethnic background <sup>[1, 2, 4, 6]</sup> , e income <sup>[1-6]</sup> , preferred game type (i.e., skill- or cl <sup>[1-2]</sup> , and the number of gambling activities enge associated with participation in financial specu | n as age <sup>[1, 4-6]</sup> ,<br>ducation <sup>[1-3, 6]</sup> ,<br>hance-based)<br>aged in <sup>[2]</sup> are<br>lation. |
| <ul> <li>Past research has also shown a positive association financial speculation and problem gambling se</li> </ul>  | tion between<br>verity <sup>[1, 2, 4, 6]</sup> .  |
| <ul> <li>There is a paucity of research examining predic<br/>gambling behaviour among financial speculato</li> </ul>   | tors of risky<br>ors.   |
| <ul> <li>The goal of the present study was to explore risk<br/>moderate-risk-to-problem gambling in a sample</li> </ul>  | e factors for<br>e of day traders.  |
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| METHODS  |   |
| <ul> <li>Recruitment</li> <li>Using the baseline AGRI National Project online N = 467 day traders were identified.</li> </ul>  | panel dataset,  |
| <ul> <li>Measures</li> <li>Sociodemographics</li> <li>Preferred game type (skill-based, chance-base</li> <li>Number of gambling activities</li> <li>Primary gambling motives</li> <li>Gambling Fallacies Measure (GFM)</li> <li>Problem Gambling Severity Index (PGSI)</li> </ul>                                  | ed, or none)  |
| <ul> <li>Statistical Analysis</li> <li>Binary logistic regression</li> </ul>   |   |
|  |   |
| PARTICIPANT CHARACTERISTICS  |   |
| <ul> <li>Mean age: 46.3 ± 16.2 years</li> </ul>  |   |
| Gender Distribution Problem Ga   | mbling Severity   |
| 28.3%<br>71.7%<br>16.9%  | 37.7%<br>16.9%  |
| <ul> <li>Male</li> <li>Female</li> <li>Moderate-ri</li> </ul>  | m Low-risk<br>isk Problem   |

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### ESULTS Odds Ratio [95% ( Predictors 1.00 [0.98, 1.03 Age (years) GENDER (REFERENCE = FEMALE) Male 1.20 [0.63, 2.30 RACIAL/ETHNIC ORIGIN (REFERENCE = EUROPEAN) Non-European or multi-racial/ethnic 0.81 [0.43, 1.56 MARITAL STATUS (REFERENCE = NOT MARRIED) Married or common-law 1.76 [0.94, 3.31 EDUCATION (REFERENCE = HIGH SCHOOL OR LESS) Post-secondary less than a Bachelor's 1.24 [0.52, 2.96 Bachelor's degree or higher 1.42 [0.60, 3.34 IPLOYMENT STATUS (REFERENCE = NOT WORKING OR STUDYING) 1.27 [0.61, 2.64 Working or studying full- or part-time INCOME (REFERENCE = < \$60,000) \$60,000 to \$119,000 **••>---** \*\* 0.40 [0.21, 0.78 \$120,000 or more + \* 0.33 [0.14, 0.77 Gambling fallacies score 0.68 [0.59, 0.79 **\*\***\* PREFERRED GAME TYPE (REFERENCE = NO PREFERENCE) Chance-based • 0.23 [0.08, 0.64 Skill-based 0.73 [0.14, 3.85 Number of gambling activities **\*\*\*** 1.33 [1.20, 1.48 PRIMARY GAMBLING MOTIVE (REFERENCE = NONE) 2.17 [0.52, 9.06 Financial Enhancement 1.41 [0.32, 6.20 Socialization 1.75 [0.23, 13.18 Coping 1.58 [0.19, 12.99 Skill-building 0.80 [0.10, 6.19 Other 0.98 [0.17, 5.67 2.00 3.00 4.00 5.00 6.00 7.00 8.00 9.00 10.00 11.00 12.00 13.00 14.00 0.00 1.00 **Odds Ratio**

**Vote.** Outcome variable = Non-problem-to-low-risk gambler (PGSI ≤ 2) vs. moderate-risk-to-problem gambler (PGSI ≥ 3). Reference = non-problem-to-low-risk gambler.

## low to Read this Graph

- The dashed red vertical line represents the line of null effect.
- The blue diamonds (i.e., point estimates) represent odds ratios.
- The horizontal lines attached to each point estimate (i.e., whiskers) represent 95% confidence intervals.
- Point estimates to the left of the line of null effect are negative predictors of moderate-risk-to-problem gambling. Point estimates to the right of the line of null effect are positive predictors of moderate-risk-to-problem gambling. If the whiskers and point estimates do not overlap the line of null effect, the predictor is statistically significant (p < .05). If the whiskers and/or point estimates do overlap the line of null effect, the predictor is not statistically significant (p > .05). The right-hand column shows the exact values of the odds ratios and 95% confidence intervals.
- \* = p < .05; \*\* = p < .01; \*\*\* = p < .001

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| SUMMARY  |
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| Findings   |
| <ul> <li>Day traders were more likely to engage in moderate-risk-to-<br/>problem gambling behaviours if they:</li> <li>reported a lower annual income</li> </ul>   |
| <ul> <li>were less resistant to endorsing gambling fallacies.</li> </ul>   |
| <ul> <li>showed no preference for game type.</li> </ul>  |
| <ul> <li>participated in a larger number of gampling activities.</li> </ul>  |
| <ul> <li>Age, gender, racial/ethnic origin, marital status, educational<br/>attainment, employment status, and primary gambling<br/>motives did not predict problem gambling severity (p &gt; .05).</li> </ul>   |
| Implications   |
| <ul> <li>Much of the research in this area has focused on identifying<br/>who is most likely to participate in financial speculation and</li> </ul>  |
| has reported associations between participation in financial   |
| speculation and problem gampling behaviour.  |
| There is a lack of research examining characteristics that may   |
| in problematic aambling behaviours. The present study  |
| addresses this research gap.   |
| <ul> <li>Sociodemographic behavioural and cognitive factors</li> </ul>   |
| appear to play a role in problem gambling risk among day<br>traders.   |
| <ul> <li>Generating an improved understanding of risk factors for</li> </ul>   |
| problem gambling among financial speculators can shed  |
| developing strategies for harm reduction and prevention.   |
|  |
| <ul> <li>Limitations and Future Directions</li> <li>This study's focus on only day traders limits the generalizability</li> </ul>  |
| of findings to other forms of financial speculation.   |
| Future research comparing characteristics of different types of the second                    |
| financial speculators (e.g., day traders, cryptocurrency   |
| traders, etc.) is needed to establish their similarities and   |
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