

Substance Use Differences between Problem- and Casual- Gamblers and Video Game Players

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BACKGROUND & RATIONALE

- Gambling and substance misuse commonly co-occur¹
- Use of alcohol, nicotine, and cannabis predict problem video gaming²
- Online access to both video gaming and gambling has lead to increased rates of problem gaming and gambling³

OBJECTIVES



To compare substance use rates between Canadian problem gamblers (PG), problem video gamers (PVG), and those with no problem (NP)

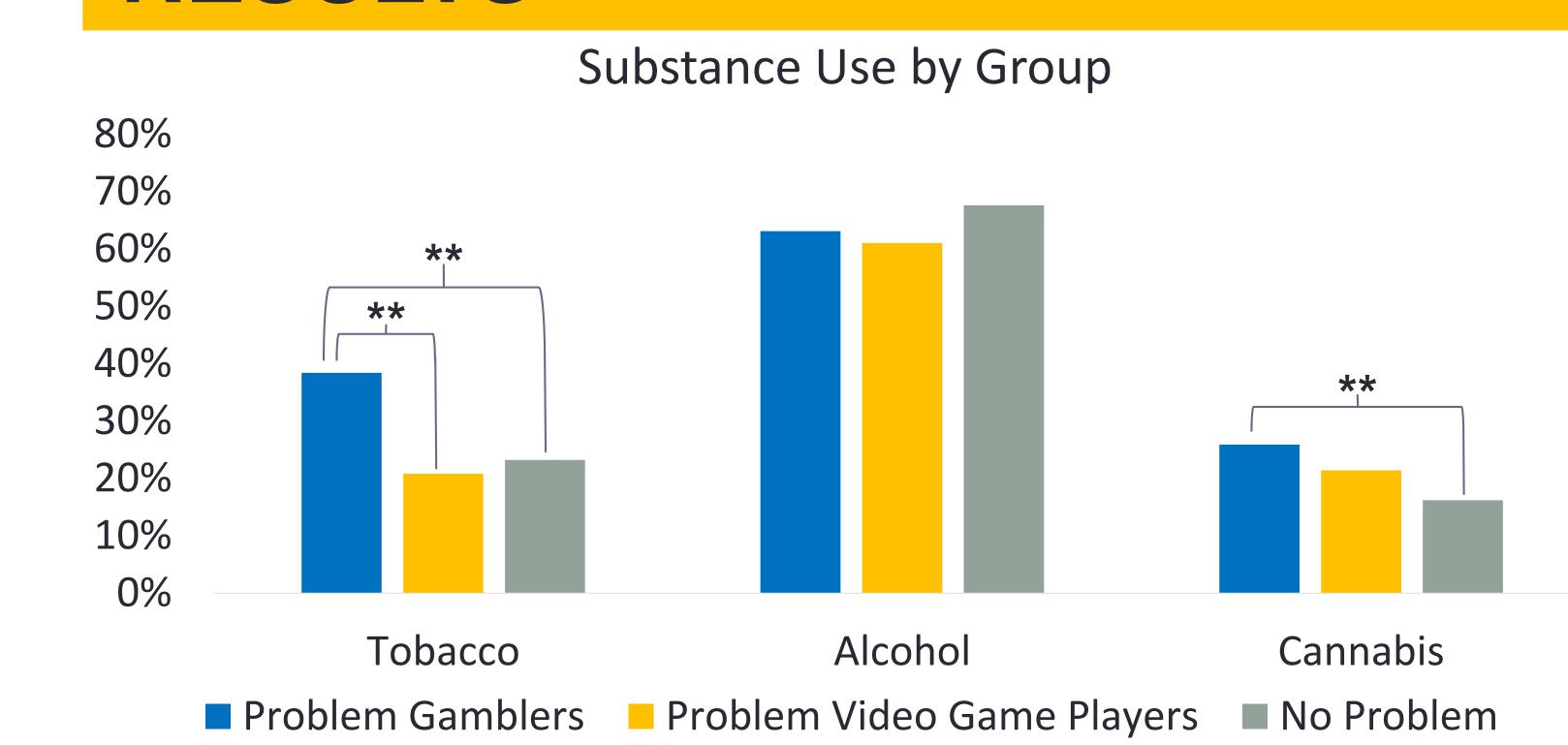


To identify differences in substance use rates between Canadian PG and PVG

METHODS

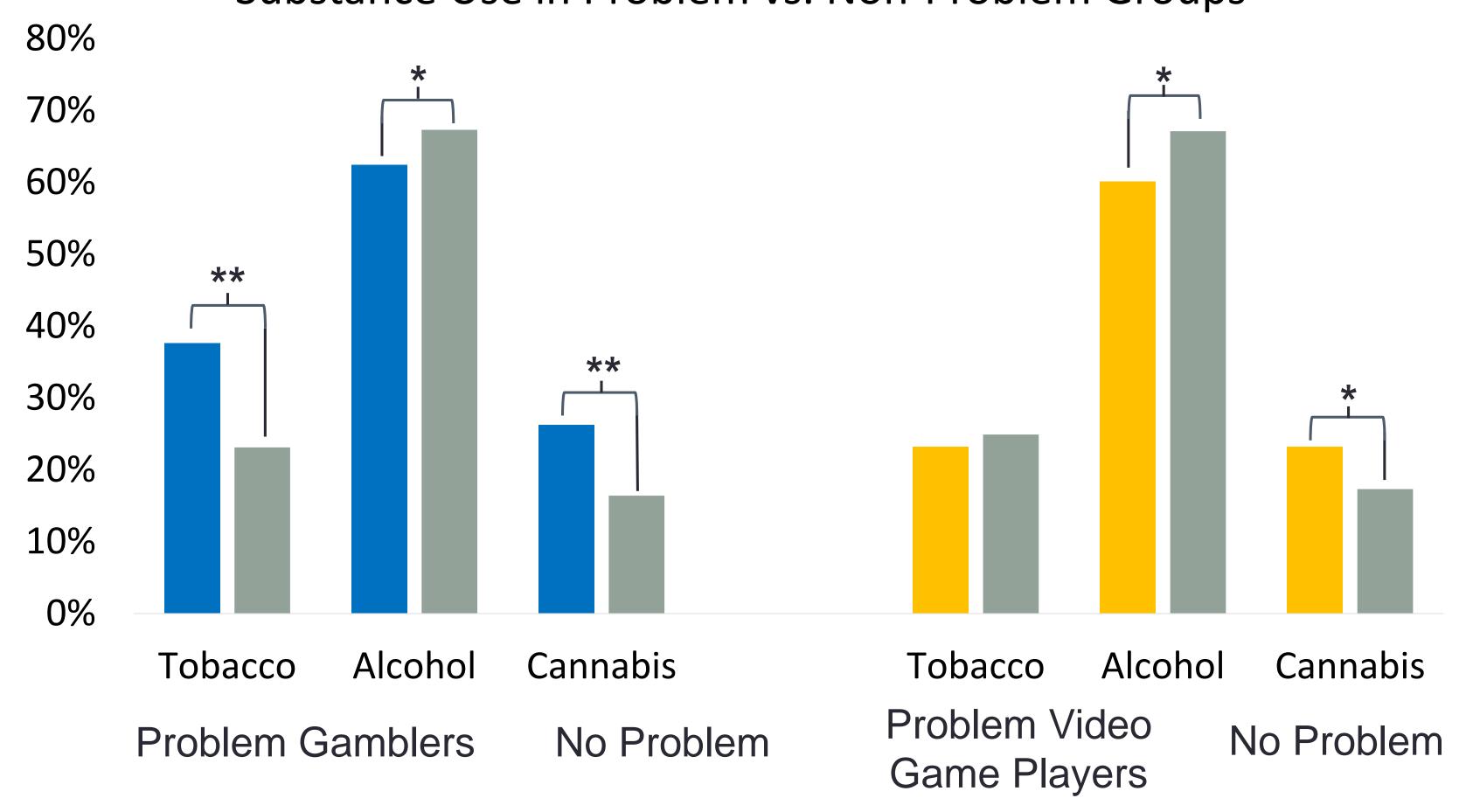
- Dataset: Secondary data from the Leger Survey offered to Canadians who play video games or gamble were used in the analysis
- Analyses:
 - χ2 analyses to examine different associations with substance use between PG, PVG, and non-problem groups
 - odds ratios calculated to determine differences in risk between problem and non-problem groups

RESULTS



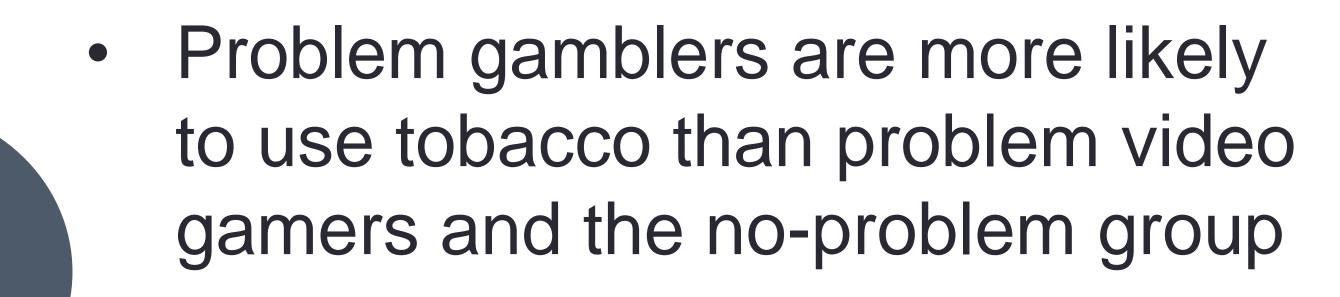
	PG	PVG	NP	χ^2	df	sig
Tobacco	38.4% _a	20.8% _b	23.2% _b	47	2	p=0.000
Alcohol	63.1% _a	61.0% _a	67.6% _a	6	2	p=0.054
Cannabis	25.9% _b	21.4% _{a.b}	16.2% _a	26	2	p=0.000

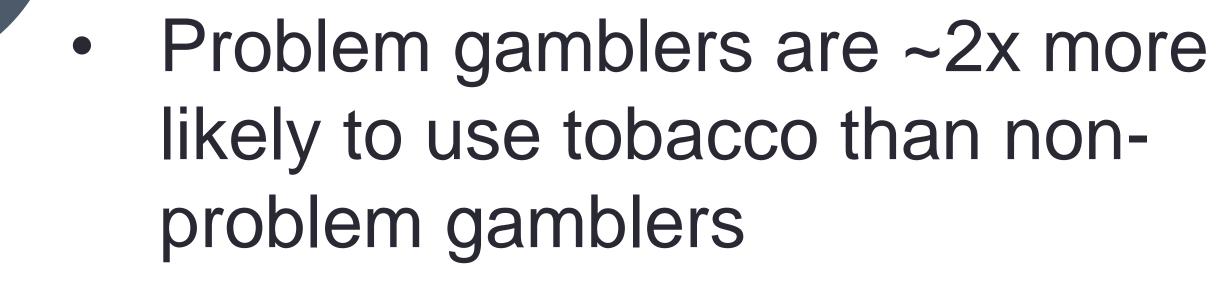
Substance Use in Problem vs. Non-Problem Groups



sig	OR (95% CI)	df	χ^2	Non-PG	PG		
p=0.000	1.999 (1.631 - 2.449)	1	45.795	23.1% _b	37.6% a	%	Tobacco
p=0.037	0.808 (0.662 - 0.988)	1	4.341	67.3% _b	62.4% a	%	Alcohol
p=0.000	1.804 (1.441 - 2.260)	1	26.978	16.4% _b	26.2% a	%	Cannabis
sig	OR (95% CI)	df	χ^2	Non-PVG	PVG		
p=0.569	0.907 (0.649 - 1.268)	1	0.325	24.9% a	23.2% a	%	Tobacco
p=0.040	0.739 (0.554 - 0.987)	1	4.223	67.1% _b	60.1% a	%	Alcohol
p=0.032	1.443 (1.030 - 2.021)	1	4.587	17.3% _b	23.2% a	%	Cannabis

CONCLUSIONS







- Problem gamblers are 17% less likely to consume alcohol than their non-problem gamblers
- Problem video gamers are 26% less likely to consume alcohol than non-problem video gamers
- Problem gamblers are ~1.8x more likely to use cannabis than non-problem gamblers and non-problem video gamers
- Problem video gamers are ~1.5x more likely to use cannabis than non-problem video gamers

REFERENCES

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- 2 Van Rooij, A.J., Kuss, D.J., Griffiths, M.D., Shorter, G.W., Schoenmakers, T.M., & Van De Mheen, D. (2014). The (co-)occurrence of problematic video gaming, substance use, and psychosocial problems in adolescents. *Journal of Behavioral Addictions, 3*(3), pp. 157-165.
- 3 Philander, K.S., & MacKay, T. (2014). Online gambling participation and problem gambling severity: is there a causal relationship? *International Gambling Studies, 14*(2), pp. 214-227.