

# **The Association Between Drinking to Intoxication and Gambling**

# Ben Burns, Applied Data Analysis, Wesleyan University

# Introduction

Understanding the relationship between sociodemographic individual factors and behaviors, helps portray mechanisms against heavy alcohol use, and thus reducing its severe impact on individuals and society as a whole (LaBrie et al., 2009)

Alcohol use is a necessary underlying cause for more than 30 conditions and a contributing factor

# **Research Questions**

Do those who drink to intoxication more frequently have a higher likelihood of experiencing more than 5 gambling

to many more. (Rehm, 2011).

Some think there is only financial risk associated to gambling, however some other effects include but are not limited to problematic behavioral disorder associated with depression, substance abuse, domestic violence, and high suicide rates (Moreira et al, 2023)

- episodes in a single year?
- Does this relationship differ between those who are male and female?

# Methods

#### Sample

- The sample included 43,093 adult participants aged 18 and older.
- The National Epidemiologic Survey on Alcohol and Related Conditions (NESARC) sampled the civilian, non-institutionalized U.S. adult population, including those in households, off-base military personnel, and residents of group quarters such as shelters, college dorms, and worker housing.

## Results

of Ga

Re

#### Measures

- Drinking was measured with the question "How often drank enough to feel intoxicated in the last 12 months? Possible responses ranged from 1 to 11 and went from nearly every day to never in the last year.
- Pathological gambling was measured with the question "Ever Gambled 5+ times in one year"
  - Gender is measured with the question SEX and males were given the Value 1 and Female with the Value 2

#### **Bivariate**

- Chi-Square analysis showed that drinking frequency is significantly associated with gambling frequency (p = .000).
- Heavy and nondrinkers are more likely to gamble compared to others (Fig. 1).

### n of Gambling Re Medium Low Rare Never Heavy

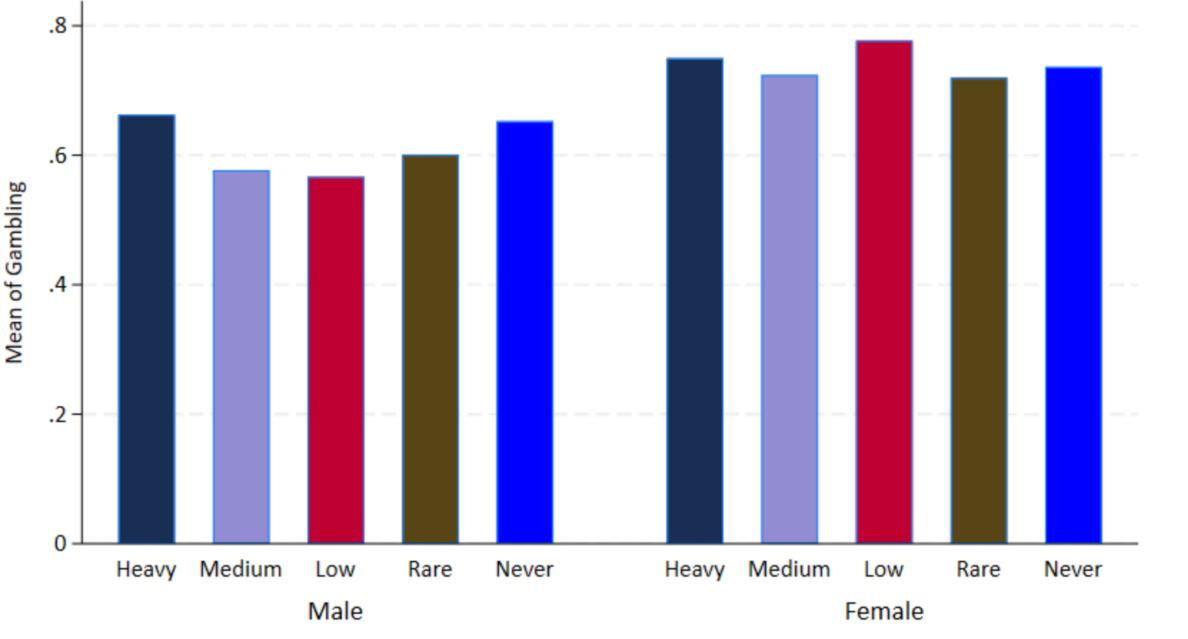
Association between Drinking Frequency and Gambling Frequency

#### Multivariate

Logistic regression analyses showed that drinking behavior is a significant predictor of gambling, with low drinkers are associated with reduced odds compared to

#### **Figure 1:** The Association between Drinking **Frequency and Gambling Frequency**

Association of Drinking Frequency and Gambling Frequency Over Gender



# Discussion

- While drinking or not didn't provide a statistically significant relationship with gender, low consuming individuals are associated with less gambling then high alcohol consuming individuals
- These findings may contribute to behavioral research regarding risk taking and substance abuse
- Future research is needed to determine the role of other covariates (e.g. income and homestate), any nuances between drinking frequency and moderates, and other forms of risk taking not explored in this study.

heavy drinkers. (OR=1.964, p=.000) After controlling for gender it does not moderate or confound the bivariate relationship, as there is no statistically significant relationship between associated with gender.

> **Figure 2:** Association of Drinking Frequency and **Gambling Frequency Over Gender**

## References

- Hodgins, D. C., & Racicot, S. (2013). The link between drinking and gambling among undergraduate university students. Psychology of Addictive Behaviors, 27(3), 885–892.
- Grant, J. E., Kushner, M. G., & Kim, S. W. (2002). Pathological Gambling and Alcohol Use Disorder. Alcohol Research & Health, 26(2), 143–150.
- Forsström, D., Rozental, A., & Sundqvist, K. (2022). Alcohol Use and Gambling Associated with Impulsivity among a Swedish University Sample. International journal of environmental research and public health, 19(4), 2436.
- Horn TL, Whelan JP, Weil GT. Does acute alcohol consumption increase risktaking while gambling? A systematic review and meta-analysis. Addiction. 2022; 117(11): 2780–2790.
- MARKHAM, F., YOUNG, M. and DORAN, B. (2012), The relationship between alcohol consumption, gambling behavior and problem gambling during a single visit to a gambling venue. Drug and Alcohol Review, 31: 770-777.
- Rehm, J. (2011). The risks associated with alcohol use and Alcoholism. Alcohol research & health : the journal of the National Institute on Alcohol Abuse and Alcoholism. https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3307043/