

Introduction

- Attending graduate education is accompanied by high levels of stress, as graduate students are faced with both adult and professional responsibilities (El-Ghoroury et al., 2012; Offstein et al., 2004).
- Many graduate students have barriers to mental health services, resulting in the use of alcohol as a way to cope (Ayala et al., 2017).
- Related, professional doctoral students engage in problematic drinking, with a range of 33-50% drinking heavily (Organ et al., 2016; Waring et al., 1984).
- There is limited research examining the drinking patterns of students enrolled in academic doctoral programs and master's programs.
- We aimed to examine differences in drinking patterns and well-being among various degree types (i.e., masters programs, professional doctoral students, and academic doctoral students).

Methodology

- Graduate students were recruited via social media to participate in the current study and earned a \$20 Amazon gift card for completing the survey.
- Inclusion criteria: at least 18 years old and enrolled in a graduate school program.
- Measures
 - Daily Drinking Questionnaire (DDQ)
 - Brief Young Adult Alcohol Consequences Questionnaire (BYAACQ)
 - AUDIT
- Demographics by degree type (Table 1).

Results

- A negative binomial regression was used to explore how degree type predicted drinks per week. The results indicated that degree type was significantly predictive of drinks per week ($\chi^2 = 23.56$, $df = 2$, $p < .001$). A Tukey's post-hoc analysis results can be found in Table 2.
- A second negative binomial regression was used to explore how degree type predicted alcohol-related consequences. The results indicated that degree type was significantly predictive of alcohol-related consequences. ($\chi^2 = 11.25$, $df = 2$, $p < .01$). A Tukey's post-hoc analysis results can be found in Table 2.
- Lastly, a generalized linear model was used to explore how degree type predicted hazardous drinking (i.e., AUDIT scores). The results indicated that degree type was significantly predictive of hazardous drinking. ($\chi^2 = 1329$, $df = 2$, $p < .001$). A Tukey's post-hoc analysis results can be found in Table 2.

Table 1. Participant demographics by degree type

		Degree Type		
		Masters (N=129)	Academic Doctoral (N=50)	Professional Doctoral (N=149)
Age	M	25.570	27.08	26.42
	SD	3.35	3.45	3.14
Sex	Female	66.7% (N=86)	54% (N=27)	45.6% (N=68)
	Male	31.8% (N=41)	46% (N=23)	54.4% (N=81)
Race	White	84.5% (N=109)	76% (N=38)	59.1% (N=88)
	Black	5.4% (N=7)	14% (N=7)	36.9% (N=55)
	Asian	.8% (N=1)	8% (N=4)	.7% (N=1)
	Native American or Native Alaskan	9.3% (N=12)	2% (N=1)	2.7% (N=4)
	Native Hawaiian or other Pacific Islander	0	0	.7% (N=1)
	Ethnicity	Hispanic	30.2% (N=39)	28% (N=14)
	Non Hispanic	63.6% (N=82)	72% (N=36)	49.7% (N=74)
First Generation	Yes	44.2% (N=57)	34% (N=17)	60.4% (N=90)
	No	55.0% (N=71)	66% (N=33)	39.6% (N=59)

Table 2. Means of all dependent variables by degree type

Dependent variable	Masters	Academic Doctoral	Professional Doctoral
Drinks per week	6.20 (6.18) ^a	11.92 (11.88) ^b	9.44 (9.35) ^b
Alcohol-related consequences	6.10 (5.36) ^a	7.26 (4.47) ^{ab}	8.93 (5.36) ^b
AUDIT scores	10.47 (8.75) ^a	13.52 (6.53) ^b	14.81(6.84) ^b

Note: Different subscripts demonstrate significant differences at the .05 level

Conclusion

- We hope the results of this study can inform intervention efforts aimed at addressing heavy drinking behaviors among graduate students.
- Personalized normative feedback (PNF) interventions represent a promising approach to reducing heavy drinking among college students (Dotson et al., 2015; Lewis & Neighbors, 2006).
- In PNF interventions personalizing the feedback to the participant is essential in reducing drinking habits (Lewis & Neighbors, 2006).
- Undergraduate PNF interventions typically provided feedback based on all college students.
- Our findings highlight that master's versus doctoral students engage in different drinking habits, suggesting PNF interventions for graduate students should use normative feedback based on degree type to ensure efficacy.