



Factors associated with alcohol use disorder among ethnic minority young adults: A cross-sectional Study

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INTRODUCTION

- Alcohol use disorder (AUD) is a significant and fatal problem among ethnic minority young adults (Vaeth et al., 2017).
- Defined as inability to control alcohol use despite social, psychological, physical, and occupational consequences (NIAAA, 2024)
- Diagnosis: Based on DSM-5 criteria (≥ 2 of 11 symptoms), categorized by severity as mild (2–3 symptoms), moderate (4 5 symptoms), and severe (6 or more symptoms)

Why focus on young adults?

- Early alcohol initiation quadruples AUD risk (Margret and Ries, 2016).
- Prevalence disparities: higher rates in ethnic minorities (Glass et al., 2020; Caetano et al., 2014).

Research gaps

• Ethnic minorities face unique risks overlooked in the existing literature (Vaeth et al., 2017).

RESULTS

- A total of 202 participants were analyzed.
- The overall prevalence of AUD was found to be 19.8% (95%CI: 14.4-24.8).



Mild AUDModerate AUDSevere AUD



- Limited evidence on culturally specific factors in ethnic minorities (Mendoza-Sassi and Béria, 2003; Barros et al., 2007; Soboka et al., 2014; Necho et al., 2020
- Our previous qualitative findings showed culture, family separation, and coping mechanisms drive AUD. However, the strength and quantitative association of these factors remains unaddressed.
- To address the gap in existing literature, the current study aimed to identify factors and measure the

association with AUD among ethnic minority young adults.

METHODS

STUDY DESIGN and SAMPLING

• Community-based cross-sectional study

Setting

• Hong Kong: conducted from May to October 2024

Participants

Inclusion criteria

- Ethnic minority young adults
- Able to speak English
- Voluntary to participate

Sample size

- Calculated: 203 (based on 15.6% lifetime AUD prevalence)
- Final sample size=254 (accounting for 25% attrition/ missing data)

Ag	C	Ň		1.1(0.70-		× ×		× ×		[×]	1 0.024	
		-1.23)	.16	1.25)	9	-1.27)	6	9-1.28)		1.34)		
Ge	nder											
	Male	6.65(1.3-	P=0	5.77(1.09-	P=0.0	6.8(1.24-	P=0.02	6.89(1.2	P=0.02	6.58(1.1	P=0.031	**
		34.0)	.023	30.49)	39	37.43)	7	5-37.9)	6	9-36.3)		
	Female	1		1		1		1		1		
	ligion											
	Catholic	1 03(0 32	P=0	0.92(0.28-	P=0.8	0.72(0.21)	P=0.6	0.7(0.20	P=0.5	0.62(0.1	P=0 A	
		`		× •		`		`		`	1-0.4	
		· ·		2.97)		,		<i>,</i>		,		
	Muslim	0.42(0.09	P=0	0.31(0.06-	P=0.1	0.31(0.06	P=0.16	0.29(0.0	P=0.14	0.18(0.0	P=0.07	
		-2.04)	.27	1.58)	6	-1.63)		5-1.54)		3-1.16)		
	Christians	1	1	1	_	1	1	1	1	1	1	
Ma	rital status											
	Single	0 23(0 05	P=0	0.24(0.05-	P=0.0	0 25(0 05	P=0.09	0.27(0.5	P=0.11	0.27(0.0)	0.11	
	Single	× ×		× ×		`		`		× ×	0.11	
				1.20)		/		/		/	0.1.4	
	Married	× ×		0.22(0.04-		`	P=0.12	`	P=0.12	`	0.14	
		-1.19)	.08	1.14)	7	-1.44)		4-1.44)		5-1.58)		
	Separated/divorc	1	1	1	1	1		1	1	1	1	
	ed/widowed											
	cational status											
	Below ≤8 grade	1		1	1	1	1	1	1	1	1	
	<u> </u>	2.3(0.59-	P=0.2	1.82(0.46-	P=0.39	2.1(0.51-	P=0.30	1.77(0.41-	P=0.4	1.55(0.36-	P=0.5	
	0	8.75)	3	7.17)		8.77)		7.55)		6.69)		
	Colleges and	2.14(0.54-	P=0.2	1.88(0.47-	P=0.37	/	P=0.41	1.69(0.42-	P=0.4	1.59 (0.39-	P=0.5	
	universities	8.54)	8	7.56)		7.18)		6.80)		6.43)		
Emp	oloyment											
	Unemployed	1.01(0.17-	P=0.9	0.8(0.133-	P=0.8	0.71(0.12-	P=0.70	0.68(0.11-	P=0.6	0.7(0.10-	P=0.72	
		5.99)	9	4.84)		4.34)		4.41)		4.93)		
	Employed	1		1		1	1	1	1	1		
Pare	ental family status	2.39(0.82-	p=0.1	2.7(0.89-	P=0.07	2.2(0.74-	P=0.15	2.02(0.67-	P=0.21	2.23(0,72-	P=0.16	
		6.95)		7.95)		6.67)		6.04)		6.89)		
Peer	r pressure	1.23(0.45-	P=0.6	1.2(0.42-	P=0.75	1.02(0.36-	P=0.9	0.93(0.31-	P=0.8	0.88(0.29-	P=0.8	
		3.36)		3.26)		2.95)		2.73)		2.67)		
	• -	``		5.6(1.71-	P=0.04	``			P=0.008	5.7(1.63-	P=0.006	**
	king	18.07)	05	18.49)		19.85)	D	18.68)	D 0 10	20.01)	D 0 1 1	
	Ŭ	0.36(0.14-		<pre>````````````````````````````````````</pre>	P=0.04	[×]	P=0.08	0.45(0.17-	P=0.10	0.45(0.17-	P=0.11	
	ted health problems	0.93)	35 11	0.97)	D 0.057	1.11)		1.19)	D 0 22	1.23)		
Accu	ulturation stress	#	#		P=0.057		P=0.20	1.01(0.99-	P=0.33	1.02(0.97-	P=0.88	
				1.05)		1.05)		1.04)		1.04)		
Dep	ression symptoms	#	#	#	#	1.02(0.93-	P=0.6	0.98(0.88-	P=0.7	0.96(0.85-	P=0.47	
<u>_</u>	Q9 score)					1.12)		1.09)		1.10)		
-	ryday discrimination	#	#	#	#	1.08(1.03-	P=0.01	1.08(1.03-	P=0.01	1.08(1.03-	P=0.01	**
(PH						1.13)		1.13)		1.13)		
(PH) Even					11	#	#	1.1(0.96-	P=0.16	1.1 (0.93-	P=0.35	
(PH) Even	idant coping	#	#	#	#	Ħ	11	1.1(0.50	1 0.10	(0	1 0100	
(PH) Even	r U							1.25)		1.22)		
(PHO Even Avoi	r U	#	#	#	#	#	#	`	#	[×]		**

Data Collection & Analysis

- Recruitment: Partnered with major ethnic minority-serving NGO (posters, referrals).
- Snowball Sampling: Participants referred peers
- ➢ Online Survey: Consent → QR code access → Google Forms.
- Analysis: A hierarchical binary logistic regression model was used to identify factors associated with AUD

Ethical clearance

- Ethical clearance was obtained from PolyU (Reference number: HSEARS20240210001).
- Informed consent was obtained from each participant, and the data were kept secure



DISSCUSSION

- Higher AUD prevalence due to: Acculturation stress & discrimination
- Experience avoidance behaviors
- ✓ suppress their negative thoughts and feelings via drinking or even self-intoxication until blackout. Nevertheless, such behavior is unable to solve the problem and results in more unpleasant emotions, which provoke continuous drinking.
- Every day discrimination
 - Marginalized and discriminated groups turn to alcohol as a maladaptive coping mechanism to alleviate feelings of anxiety, depression, or social isolation resulting from discrimination (Burke, 2024).

Limitations

• Self-reported questionnaires are subject to social desirability bias and underreporting

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- Most participants were Filipino residents; the findings might not be generalizable to all ethnic minorities in Hong Kong.
- Small sample size may reduce the statistical power of the study
- Convenience sampling limits the generalizability of the findings.

FUTURE DIRECTION

- We confirmed that the experience of discrimination and avoidance coping behaviors were significant factors contributing to AUD.
- These insights suggest that the future of interventions for ethnic minorities with AUD should focus on these two components.
- One of the viable treatment options is acceptance and commitment therapy (ACT), which establishes a meaningful life that aligns with personal life goals via accepting the inevitable pain and suffering.
- Therefore, future research should explore interventions ACT to assess their effectiveness in promoting alcohol abstinence within this population segment.