Alcohol Use in Transgender Diverse Individuals Significantly Associated with Greater Syndemic Risks



Authors: Yezhe Lin, Hui Xie*, William Rea, Anita Kablinger, Robert Trestman, Margaret Rukstalis
Department of Psychiatry and Behavioral Medicine, Virginia Tech Carilion School of Medicine-Carilion Clinic and
*University of Wisconsin-Milwaukee



Virginia Tech Carilion

School of Medicine

INTRODUCTION

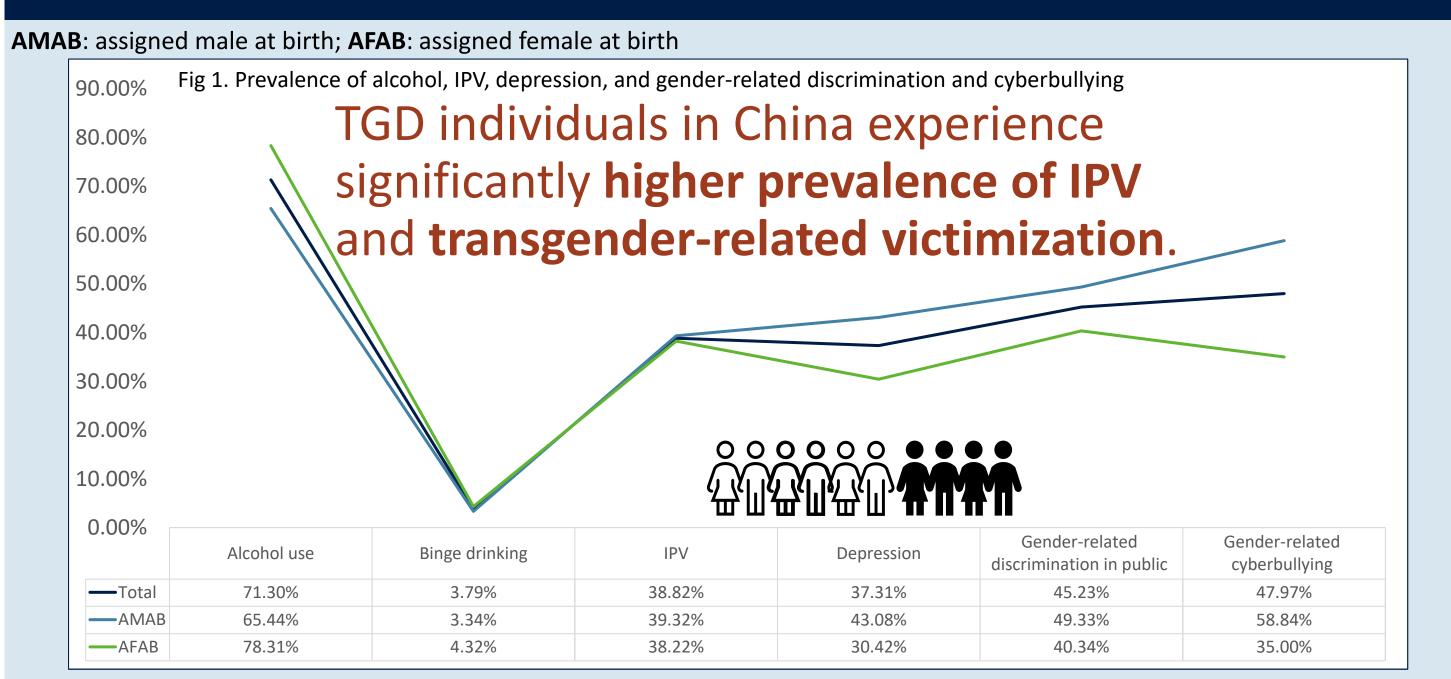
- Transgender-gender-diverse (TGD) individuals experience unique vulnerabilities to intimate partner violence (IPV) social marginalization, and health disparities.
- 1st study to explore social determinants of alcohol use in TGD in China.
- **Syndemics** (interaction between multiple health states/diseases) framework (definition below) was used to examine concurrent conditions: IPV, cyberbullying, transgender-related discrimination, and depression, in relation to alcohol use in TGD in China.

METHODS

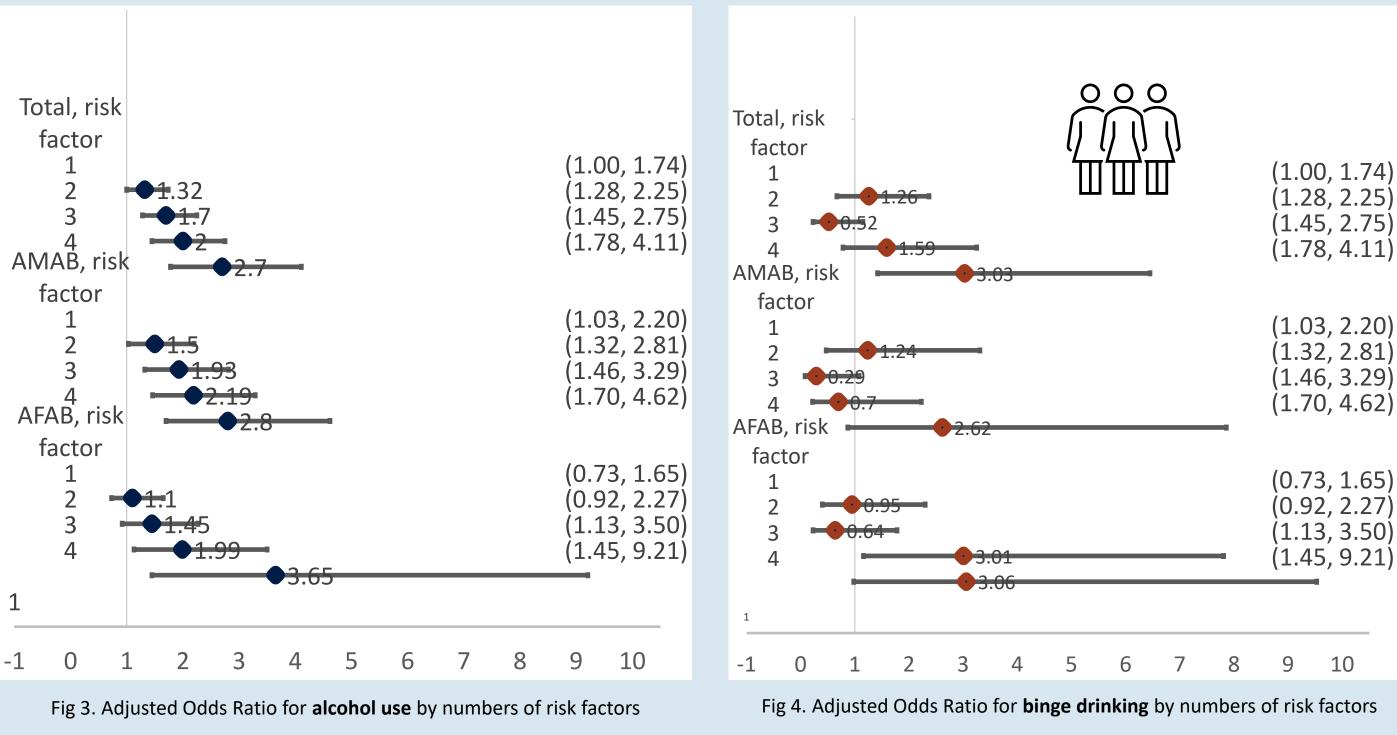
- Chinese National Transgender Health Survey (CTHS)
- Cross-sectional self report questionnaire data collected between May-December 2021 in China in 23 provinces, 5 autonomous regions, and 4 municipalities.
- Logistic regression adjusted for age, education, annual household income, relationship status, smoking status
- Alcohol use: "How often did you drink alcohol in past year?"
- Binge drinking: "How likely you had ≥ 3 beers or 150ml/5.3oz of liquor with ALC 52% in the past year?"
- Syndemic risk factors (IPV, cyberbullying, daily discrimination, and depression)
- Stratified by assigned sex at birth.

		Total TGD
Gender identity		N=2589, N (%)
Trans men		662 (25.57)
Trans women		1050 (40.56)
Non-binary/genderqueer/GD		605 (23.57)
Cross-dresser		90 (3.48)
Uncertain		150 (5.79)
Other		32 (1.24)
	AMAB (N=1409; 54.53%)	AFAB (N=1180; 45.58%)
	N (%)	N (%)
Age (Mean: 23.5	7, SD: 5.71; range: 13-59)	
<18	112 (7.95)	88 (7.46)
18-24	863 (61.25)	643 (54.49)
25-34	355 (25.20)	390 (33.05)
≥35	79 (5.61)	59 (5.00)

RESULTS



Alcohol use in TGD individuals (particularly in those assigned female sex at birth) is significantly associated with greater syndemic risks



CONCLUSION

- Evidence-based interventions urgently needed for TGD high-risk population with unique needs to
 - Reduce and prevent alcohol use esp. binge drinking
 - Identify and lower vulnerability to IPV and TG-related victimization.
 - Enhance health, wellness, social education, interpersonal- and individual-behavior interventions

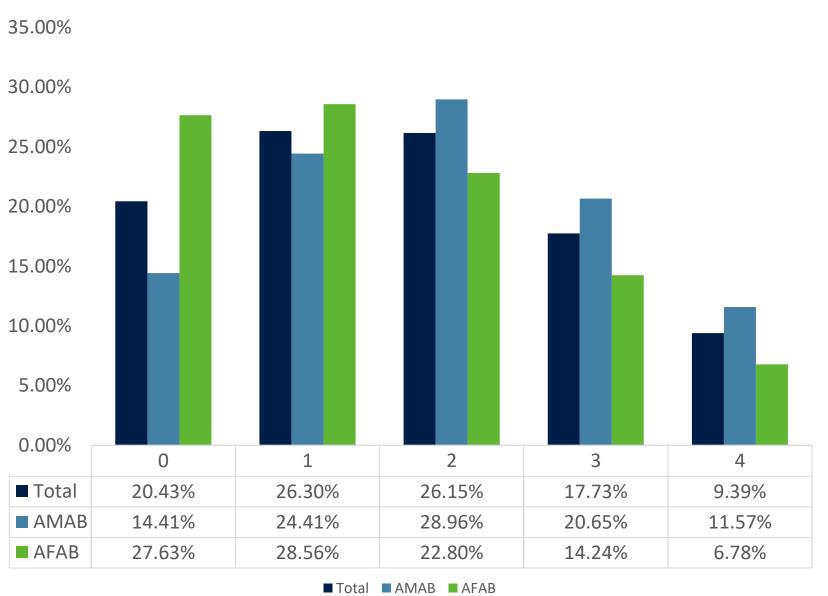


Fig 2. Syndemic Risk Factors Prevalence (%)

DISCLOSURES

All authors have no disclosures or conflict of interests

REFERENCES

Lin, Y., Xie, H., Huang, Z. et al. (2021). The mental health of transgender and gender non-conforming people in China: a systematic review. The Lancet Public Health, 6(12), e954-e969. Spadafino, J., Dodge, B., ... & Fernandez, M. I. (2016). Syndemic factors associated with drinking patterns among Latino men and Latina transgender women who have sex with men in New York City. Addiction Research & Theory, 24(6), 466-476.

Peng K, Zhu X, Gillespie A, Wang Y, Gao Y, Xin Y, Qi J, Ou J, Zhong S, Zhao L, Liu J. Self-reported rates of abuse, neglect, and bullying experienced by transgender and gender-nonbinary adolescents in China. JAMA Network Open. 2019 Sep 4;2(9):e1911058.

ACKNOWLEDGEMENT

Runsen Chen for providing the dataset.

Syndemics: a conceptual framework used to comprehend health condition or illnesses that emerge within a group of people and are amplified by the surrounding social, economic, environmental, and political factors.