Exploring polysubstance use patterns and associated health and wellbeing outcomes among gender and sexuality diverse (LGBTQA+) young people: a latent class analysis

<u>Bailey, Sasha</u>¹; Norman, Thomas²; Strauss, Penelope³; Amos, Natalie²; Grant, Ruby²; Jones, Jami²; Power, Jennifer²; Hill, Adam²; & Bourne, Adam².

¹The Matilda Centre for Research in Mental Health and Substance Use, Faculty of Medicine and Health, The University of Sydney

²Australian Research Centre in Sex, Health, and Society, School of Psychology and Public Health, La Trobe University.

³The Kids Research Institute, The University of Western Australia.



We acknowledge the tradition of custodianship and law of the Country on which the University of Sydney campuses stand. We pay our respects to those who have cared and continue to care for Country.





Background



Queer and trans joy, euphoria, vitality









Background

Earlier ages, more frequently, and at higher intensities Substance use ≠ harms

23.5%

of those using drugs reported ever being concerned about their use but only 11.8% of these same participants had accessed professional support in relation to their drug use in the past six months

Hill et al., (2021) Writing Themselves In 4

Varied substance use motives and contexts

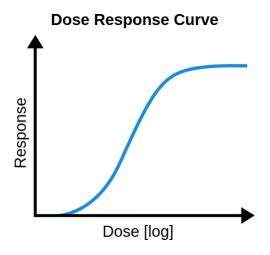




But lets take a step back

Substance use ≠ harms

Greater substance use = greater harms?



Polysubstance use



Why poly(substance) use?

- 1. Prolong a state of euphoria
- 2. Alleviate withdrawal symptoms
- 3. To counteract or balance the effect/s of a substance with those of another
- 4. Enhance a high
- 5. Reduce overall use
- 6. Mimic effect of another unavailable or more expensive substance

Potential harms from polysubstance use

- 1. Combining drugs from same class (e.g., stimulants, depressants)
- 2. Mixing different drugs (e.g., alcohol and medications)
- 3. Serotonin syndrome

Research Questions

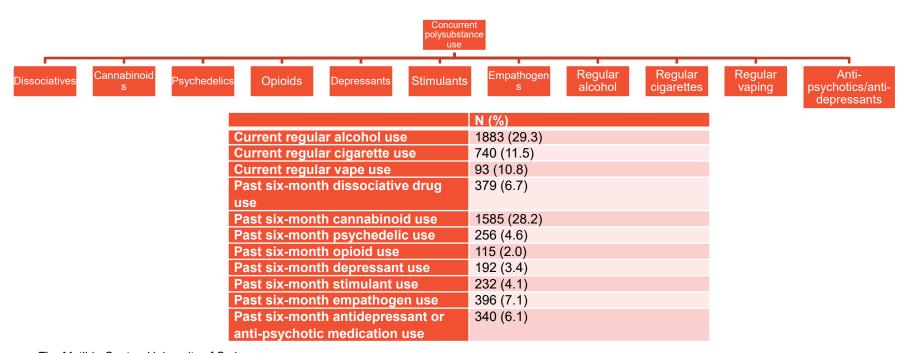
- Identify typologies of concurrent polysubstance use among LGBTQA+ youth in Australia
- 2. Analyse associations between concurrent polysubstance use class membership and health and wellbeing

Methods (N=6,418; Mage = 17.3yrs)





Adapted from ADF's drug classification framework

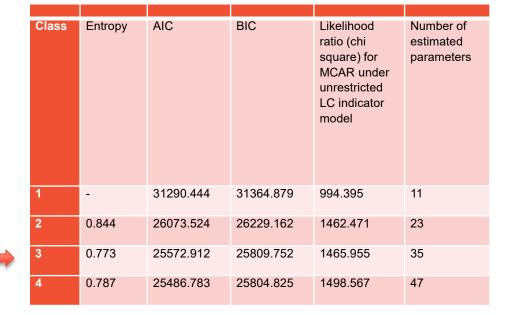


Outcomes

Past 4wk psych distress Past 12mth suicide attempt/s Past 12mth truancy Past 12mth workdays missed **Current subjective happiness** Own concern about drug use Friend/s concern about drug use Family concern about drug use Ever sought professional support for drug use

Fit indices

Three-factor solution chosen



Typologies of concurrent polysubstance use among LGBTQA+ youth

	Curious	Kicking back	Thrill-seekers	
Prevalence – n (%)	5021 (82.5%)	793 (13.0%)	270 (4.4%)	
Patterns of substance use				
Current regular alcohol use	11.1%	42.2%	70.7%	
Current regular cigarette use	8.5%	9.3%	20.3%	
Current regular vape use	0.6%	14.0%	73.5%	
Past 6-month dissociative drug use	10.7%	82.8%	95.1%	
Past 6-month cannabinoid use	0%	10.9%	51.3%	
Past 6-month psychedelic use	0.4%	4.9%	16.6%	
Past 6-month opioid use	0.4%	7.4%	35.5%	
Past 6-month depressant use	0%	7.1%	55.3%	
Past 6-month stimulant use	0%	15.9%	83.0%	
Past 6-month empathogen use	2.7%	14.2%	27.5%	
Past 6-month prescription anti-depressants or anti-psychotics use	11.1%	18.6%	34.8%	

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Folks with greater polySU older, higher odds being trans

	Class 1: 'Straight edged'	Class 2: 'Kickin g back'	Class 3: 'Thrill- seekers'	Class 3 vs Class 1 Thrill- seekers vs Curious (ref)	Class 2 vs Class 1 Kicking back vs Curious (ref)	Class 3 vs Class 2 Thrill- seekers vs Kicking back (ref)
	%	%	%	OR 95% CI p	OR 95% CI p	OR 95% CI p
Demographic characteristics						
Age 14 to 17 18 to 21	60% 40%	55% 45%	52% 48%	1.4 1.1, 1.8 0.01	1.3 1.1, 1.5 <0.001	1.1 0.8, 1.5 0.45
Gender diversity Cis Trans	74% 26%	72% 28%	66% 34%	1.5 1.1, 1.9 <0.001	1.1 0.9, 1.3 0.42	1.4 1.0, 1.8 0.04
Region of residence Metropolitan Rural or remote	89% 11%	92% 8%	87% 13%	1.3 0.9, 1.8 0.18	0.8 0.6, 1.0 0.04	1.7 1.1, 2.6 0.02
Past 12-month employment No Yes	40% 60%	38% 62%	38% 62%	1.1 0.8, 1.4 0.54	1.1 1.0, 1.3 0.17	1.0 0.7, 1.3 0.85

No difference in health and wellbeing outcomes though!

No statistically significant differences in psychological distress, suicide attempt/s, truancy, missed workdays, subjective happiness, drug use concerns from oneself/friends/family, or past support seeking from professional drug services

(obviously still a necessary competency of AOD clinicians though given high baseline rates of mental health and unmet support needs but more on that another time...)

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Why might be this be unsurprising to some?



Summary

- Nearly one in five LGBTQA+ youth engage in high levels of concurrent drug use, with older, trans, and metropolitan LGBTQA+ youth at particularly elevated odds
- Polysubstance use not associated with increased mental health difficulties, substance use concerns from oneself, family or friends, nor likelihood of accessing professional support for drug use
- Clinicians and harm reduction practitioners should be equipped to handle polysubstance use concerns in LGBQTA+ affirming given high baseline rates of mental health difficulties, substance use concerns, and related unmet professional support needs

Writing Themselves In 4/ARCSHS collaborators



Prof. Adam Bourne Professor & Director of ARCSHS, La Trobe



Dr Thomas Norman Research Fellow ARCSHS, La Trobe



Dr Nat Amos Research Fellow ARCSHS, La Trobe



Dr Ruby Grant Research Fellow ARCSHS, La Trobe

Bailey, S; Norman, T; Strauss, P; Amos, N; Grant, R; Jones, J; Power, J; Hill, J; & Bourne, A. Exploring polysubstance use patterns and associated health and wellbeing outcomes among gender and sexuality diverse young people: a latent class analysis. Sex Res Soc Pol. *Under Review*.

Thank you!

Miss Sasha Bailey, MPH (she/her)
PhD Candidate and Research Assistant
The Matilda Centre for Research in Mental Health and
Substance Use, University of Sydney

Email: sasha.bailey@sydney.edu.au

X/Twitter: @SashaBailey_v1