

# Gay and bisexual men who use crystal methamphetamine are better at using biomedical HIV prevention strategies

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Australasian HIV&AIDS Conference | 19 September 2019

**Acknowledgments:** Thanks to the study participants; researchers, community organisations, government employees and other partners involved in Flux; and the funders.

**Disclosures:** This work was funded by the Australian Research Council (DP140102483) and a Gilead Australia Fellowship. Funders had no input in the data collection, analysis, interpretation, or presentation of any findings.

# **BACKGROUND, AIMS & METHODS**





# **Background**

- Crystal methamphetamine use among gay and bisexual men (GBM) has been strongly associated with condomless anal intercourse with casual partners (CLAIC) and subsequent HIV infection
- Biomedical HIV prevention strategies (PrEP and TasP) are changing understandings of 'safe sex' ('protected CLAIC')?

# Study objective

- To investigate factors associated with recent crystal methamphetamine use
  - Specifically, if 'protected CLAIC' was more common among crystal users

### **Methods**

- Flux is a national, prospective, observational online cohort study of licit and illicit drug use among Australian gay and bisexual men
- In 2018, 1,367 men completed a Flux survey and answered questions about crystal use and biomedical HIV prevention strategies
  - Men enrolled in PrEP implementation trials were excluded (n=276)
- Multivariable logistic regression was used to estimate adjusted odds ratios and 95% confidence intervals

## **RESULTS**





- 12% of men (n=169) reported crystal use in the previous six months
- Similar to other samples of Australian GBM
  - Median age 35 years (range 16-81)
  - 78% Anglo-Celtic background, 69% university-educated
  - 91% gay, 49% had a regular male partner
  - 8% HIV-positive (94% undetectable viral load)
  - 35% reported current PrEP use

# Factors associated with recent crystal use

Variable	Adjusted odds ratio	95% confidence interval
Greater social engagement with gay men	1.24	1.10 – 1.39
Number of sexual partners	1.00	1.00 – 1.01
Protected CLAIC		
HIV-positive men	14.10	7.50 – 26.54
HIV-negative men	1.80	1.17 – 2.76

### **CONCLUSIONS & IMPLICATIONS**





- Crystal was predominately used to enhance sexual pleasure; even among recent users, use was fairly infrequent
- Gay and bisexual men who used crystal and engaged in CLAIC were more likely to be biomedically protected against HIV than men who engaged in CLAIC and did not crystal
- Harm reduction interventions need to be carefully nuanced to guide the integration of biomedical prevention strategies into drug-using behaviours
- Gay community networks may provide a unique opportunity to promote the uptake of biomedical prevention, particularly within chemsex subcultures
- Among men who engage in CLAIC, recent crystal use may not be a reliable indicator of those at high risk of HIV
  - → Key implication for assessing behavioural eligibility for PrEP