



Kirby Institute

Factors associated with the non-use of pre-exposure prophylaxis (PrEP) among eligible men in Australia

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Why aren't high risk men using PrEP?



Background: Who is considered 'high risk'

Australian eligibility for accessing PrEP

Risk factor	HIV incidence per 100 PY	95% CI
At least one episode of condomless anal intercourse (CLAI) with a regular HIV+ partner (not on treatment and/or detectable viral load)	5.36	2.78 – 10.25
Receptive CLAI with any casual HIV+ male partner or a male partner of unknown status	2.31	1.48 – 3.63
Methamphetamine use	1.89	1.25 – 2.84
Rectal gonorrhoea	7.01	2.26 – 21.74
Rectal chlamydia	3.57	1.34 – 9.52

Aim: Identify factors associated with the non-initiation of PrEP among eligible men

Wright et al., (2018)

Methods: The Flux Study

Methodology

The Flux Study

- Following Lives Undergoing Change
- Prospective observational study on licit and illicit drug use among GBM
- 3253 enrolled between 2014 & 2018

Analysis

- Comparison of PrEP eligibility criteria to reported behaviours in Flux
- Analysis restricted to:
 - Non-HIV positive men
 - Reported no PrEP use at baseline
 - Met the eligibility criteria
 - Men enrolled in 2014 & 2015 (n=560)
- Logistic regression used to compare PrEP initiation among eligible men

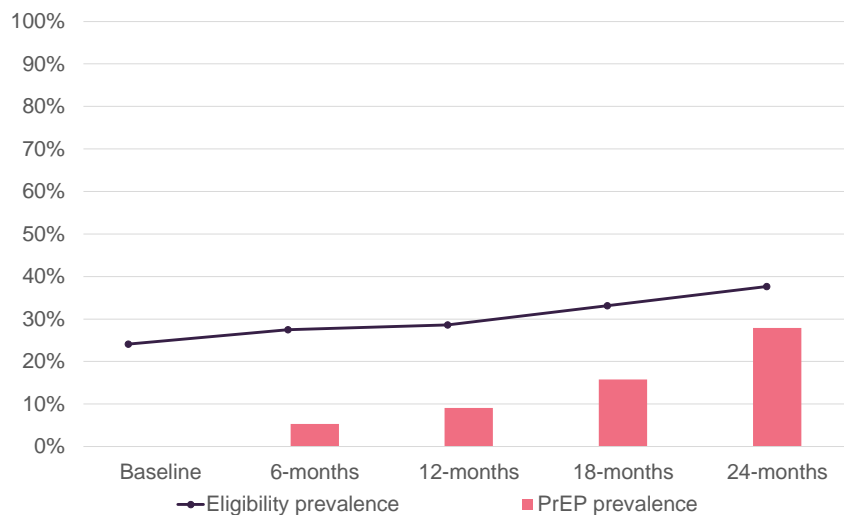
Results:

Factors associated with non-PrEP use among eligible men

Why aren't high risk men using PrEP?



Prevalence of PrEP use among eligible GBM



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Why aren't high risk men using PrEP?



Factors associated with non-initiation of PrEP

Factor	Did not initiate vs. initiated %	OR	Lower Upper	p	aOR	Lower Upper	p
State of residence							
NSW and ACT	42 58	1			1		
VIC	52 48	1.49	0.96 – 2.33	0.077	1.30	0.77 – 2.19	0.331
QLD	57 43	1.78	0.97 – 3.26	0.064	1.30	0.65 – 2.62	0.463
Other	61 39	2.02	1.30 – 3.72	0.003	2.11	1.16 – 3.85	0.014
Social engagement with other gay men	46 54	0.71	0.63 – 0.81	<0.001	0.78	0.68 – 0.91	0.001
Methamphetamine use							
No recent use	49 51	1			-		
Recent use	52 48	1.12	0.76 – 1.63	0.570	-		
Reasons for party drug use							
No recent drug use	63 37	1			1		
Drugs used (not for sex)	46 54	0.47	0.29 – 0.77	0.003	0.37	0.21 – 0.64	<0.001
Drugs used for sex	45 55	0.48	0.30 – 0.78	0.003	0.57	0.32 – 1.00	0.049

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Factors associated with non-initiation of PrEP

Factor	Did not initiate vs. initiated %		OR	Lower Upper	p	aOR	Lower Upper	p
Group sex								
No group sex	49	51	1			1		
Recent group sex	35	65	0.35	0.24 – 0.51	<0.001	0.59	0.37 – 0.93	0.025
Sex with casual partners								
No casual partners	80	20	1			1		
Insertive condomless anal intercourse	41	59	0.17	0.08 – 0.37	<0.001	0.21	0.09 – 0.51	0.001
Receptive condomless anal intercourse	36	64	0.15	0.08 – 0.27	<0.001	0.20	0.10 – 0.41	<0.001
Sex with regular partner								
No regular partner	50	50	1					
Condomless anal intercourse with HIV positive partner	-	-	0.68	0.44 – 1.03	0.070	-	-	-

Summary and conclusion:
What does all this mean?

Why aren't high risk men using PrEP?



Conclusion

Why aren't high risk men using PrEP?

- Not all men who met these eligibility criteria engaged in those behaviours as frequently or consistently as others
- Among non-initiators, perception of their own level of risk and their lack of social connection to other gay men may influence their decisions about the need for PrEP

What does this mean in the real world?

- Representations of PrEP users as sexually irresponsible may reinforce misconceptions about when PrEP use is appropriate

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Why aren't high risk men using PrEP?



Thank you

The Flux participants

All 3253 participants

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He knows why

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