

Changes in sexual behaviour and drug use following PrEP initiation among Australian gay and bisexual men

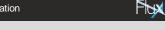
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Changes in behaviours following PrEP initiation



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Background, Aims, and Methods

Background

- Gay and bisexual men (GBM) account for the majority of new HIV infections in Australia
- Those considered 'high risk' are eligible to access PrEP

Aims

- · Estimate incidence of uptake and factors predicting PrEP initiation
- Describe changes in behaviour following initiaiton

Methods

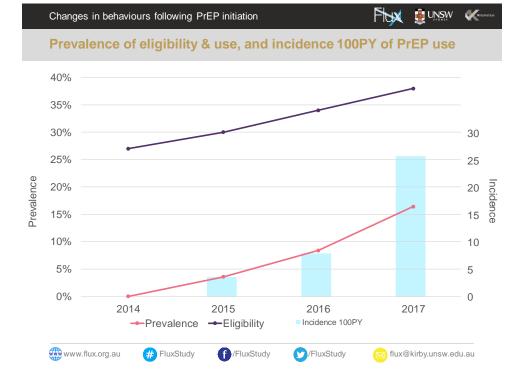
- Flux Study prospective observational study of Australian GBM
- Six monthly surveys since 2014
- Analysis restricted to non-HIV positive men who reported no PrEP use at baseline (n=1257)
- Poisson regression

Changes	in	behaviours	following	PrEP	initiation
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Australian eligibility for accessing PrEP

Risk factor	HIV incidence per 100 PY	95% Cl
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

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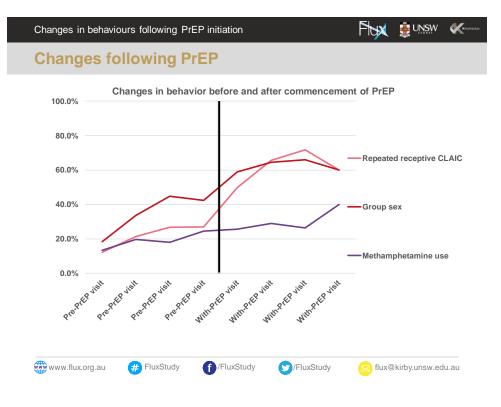
Prior behaviours predicting PrEP initiation

Factor	Did not initiate vs. initiated %		IRR	Upper-Lower	р
Social engagement with gay men	45	55	1.48	1.08 - 2.04	<0.00
Recent methamphetamine use					
No recent use	54	46	1		
Any recent use	34	66	1.50	1.10 - 2.05	<0.012
Number of sex partners					
1	84	16	1		<0.00
Up to 10	57	43	3.78	1.35 – 10.61	
Up to 50	32	68	7.91	2.75 – 22.73	
More than 50	25	75	8.03	2.40 - 26.87	
Sex with casual partner					
No casual partner	81	19	1		
Receptive condomless anal intercourse	25	75	2.5	1.29 - 4.67	<0.00
Sex with regular partner					
No regular partner	51	49	1		
Any condomless anal intercourse (HIV- positive partner)	46	54	14.74	7.53 – 28.86	<0.00

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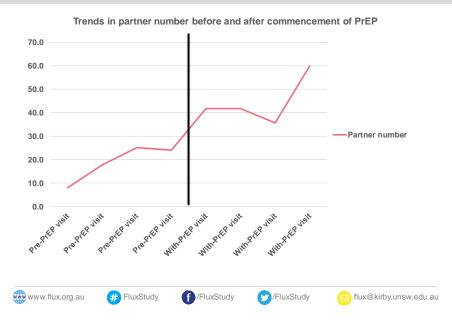
Factors associated with non-initiation of PrEP

Factor		d not ate vs. ated %	OR	Lower Upper	p at	aOR	Lower Upper	р
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
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	< 0.00
Drugs used for sex	45	55	0.48	0.30 - 0.78	0.003	0.57	0.32 - 1.00	0.049
Group sex								
No group sex	49	51	1			1		
Recent group sex		65	0.35	0.24 – 0.51	<0.001	0.59	0.37 – 0.93	0.025
Sex with casual partners								
No casual partners		20	1			1		
Insertive condomless anal intercourse		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	<0.00
Social engagement with other gay men	46	54	0.71	0.63 - 0.81	<0.001	0.78	0.68 - 0.91	0.001



Changes in behaviours following PrEP initiation

Changes following PrEP



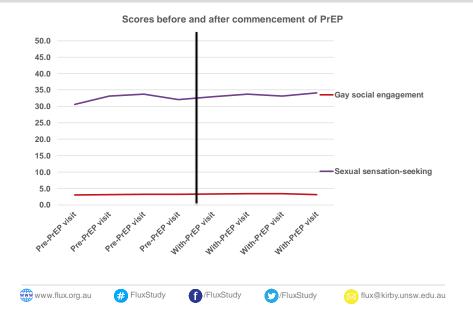
Changes in behaviours following PrEP initiation



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Changes following PrEP



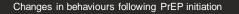
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Summary

- Drug use was common
 - But usually infrequent
- Commonly used drugs for sex & partying
 - Risk behaviour associated with chemsex drugs
- Negative health outcomes were associated with frequent or dependent use
- Initiation of drug use was very high
 - Particularly for younger men
- Stopping use of most drugs was also high
 - But can't be sure if it's really cessation need more data
- · Initiation of drug use associated with social engagement with gay men
 - Particularly with those that use drugs themselves
- Men who initiate methamphetamine use also tend to start using PrEP
 - Initiation of methamphetamine is often accompanied by increased sexual risk
 behaviour
 - Those who are riskier are particularly more likely to use PrEP
- Attitudes to drug use fairly accepting within gay men's friendship networks



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PrEP and sexual 'freedom'

"It's helped me be more confident sexually and have the freedom to enjoy the kind of sex I like and be less inhibited, less controlled by the 'dangers' associated with my sexuality, and less subject to the stigma that was historically associated with male on male sex. It's freeing and humbling, something that our gay forefathers never had the chance to try, and it's led to this kind of powerful new generation of gays that didn't have to self-actualise during the AIDS epidemic surrounded by death and pain. I feel privileged to be able to be so protected."

