

Enrolment characteristics associated with participants who disengaged from the Victorian PrEP implementation study

Ryan KE, Lal L, Roth NJ, Willcox J, Tee BK, Armishaw J, Chang CC, Fairley CK, Cundill P, Forgan-Smith G, Pickett C, Gall J, Price B, Murphy DA, Asselin J, Vujovic O, Nguyen L, Locke P, Ruth S, Batrouney C, Cornelisse V, de Wit J, Lockwood JT, El-Hayek C, Stooze M, Hoy JF, Grant RM, Mak A*, Wright EJ*



Background

- PrEPX is an implementation study that aims to emulate real world conditions
 - Participants attended GP and sexual health clinics for study visits
 - Participants collected study drug from retail pharmacies
 - Participants paid PBS equivalent price for each 3 month of study drug
- Aim of this abstract
To explore characteristics and predictors of passively disengaging with the PrEPX study



Methods

- Included: Participants enrolled in PrEPX Victoria between 26 July 2016 and 30 June 2017
- Excluded: Participants diagnosed at baseline (n=8) or officially withdrew (n=88)
- Data sources:
 - PrEPX enrolment survey
 - Demographics, reasons for enrolling, previous PrEP and PEP use completed at enrolment
 - Pharmacy data
 - Each dispensing of study drug at community pharmacy was recorded
 Enrolment survey and pharmacy data linked by study id
- Analysis
 - Describe participants with one, two, or three plus PrEP prescriptions dispensed
 - Minimum follow up time nine months (four prescriptions possible)
 - Adjusted logistic regression models



Client characteristics

	1 script dispensed n (%)	2 scripts dispensed n (%)	3+ scripts dispensed n (%)
Participants	241	262	2667
Median days between scripts (IQR)	NA	109 (81-175)	91 (83-102)
Aged 18-24	45 (18.7)	44 (16.8)	229 (8.6)
Ever injected	23 (9.4)	21 (8.0)	114 (4.3)
Previous PrEP use	42 (17.4)	44 (16.8)	730 (27.3)
Previous PEP use	83 (44.4)	109 (41.6)	1081 (40.5)



Covariates associated with disengaging from PrEPX

		One script dispensed		
		aOR*	95% CI	
Age at enrolment	18-24	2.42	1.73 - 3.39	
	25+	Ref		
Ever injected drugs	Yes	2.66	1.71- 4.15	
	No	Ref		
Previous PrEP use	No	1.60	1.14 - 2.42	
	Yes	Ref		
Previous PEP use	No	1.30	1.00 - 1.70	
	Yes	Ref		

*Compared to clients collecting three or more prescriptions over 15 months
Adjusted for all variables presented in table



Covariates associated with disengaging from PrEPX

		One script dispensed		Two scripts dispensed	
		aOR*	95% CI	aOR*	95%CI
Age at enrolment	18-24	2.42	1.73 - 3.39	2.07	1.45 - 2.96
	25+	Ref		Ref	
Ever injected drugs	Yes	2.66	1.71- 4.15	2.13	1.31 - 3.48
	No	Ref		Ref	
Previous PrEP use	No	1.60	1.14 - 2.42	1.80	1.28 - 2.53
	Yes	Ref		Ref	
Previous PEP use	No	1.30	1.00 - 1.70	0.92	0.71 - 1.19
	Yes	Ref		Ref	

*Compared to clients collecting three or more prescriptions over 15 months
Adjusted for all variables presented in table



Summary of findings and implications

- Participants who were younger, had ever injected, were PrEP and PEP naïve were more likely to disengage
 - Support needed for people who may face barriers to consistent PrEP use
 - Cost, side effects, changing risk



Summary of findings and implications

- Participants who were younger, had ever injected, were PrEP and PEP naïve were more likely to disengage
 - Support needed for people who may face barriers to consistent PrEP use
 - Cost, side effects, changing risk
- Challenges persist in understanding adherence and engagement
 - On-demand use
 - Sharing/lending PrEP when needed
 - Shifting to self-importation during study period

"He ran out of pills and gave them back to me after his next prescription"

"To cover them while they were waiting for their shipment to arrive"



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PrEPX Study Team

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ACCESS

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Community Organisations

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Research Participants

PrEPX participants
Participants in previous PrEP research



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