



Exploring the association between annual income of neverand former PrEP-using gay, bisexual, and other men who have sex with men and their willingness to use injectable PrEP

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Background





- HIV Pre-exposure prophylaxis (PrEP) is a highly effective biomedical HIV prevention strategy currently only available in pill form in Canada.
- Long-acting injectable cabotegravir has been shown to be superior to daily oral TDF/FTC as HIV PrEP in recent trials.
- Long-acting injectable cabotegravir has since been approved for PrEP use in the USA, however, has not been submitted for Health Canada approval yet.
- In eliminating the pill burden, injectable PrEP has the potential to improve adherence, minimize perceived stigma, and address other challenges with oral PrEP acceptability and adherence.
- Since injectable PrEP might be costlier than generic TDF/FTC, we sought to understand how its acceptability might vary with income.

Methods

- Data source: the PrEP Implementation Project (PRIMP) Community Survey a multicentre, cross-sectional survey of gay, bisexual and other MSM (GBM) in urban BC and ON.
- Eligibility: HIV-negative never/former PrEP-users meeting Canadian PrEP guideline criteria (syphilis, rectal chlamydia/gonorrhea, recurrent PEP, HIRI-MSM>25)
- Analysis: Multivariable logistic regression model estimating the association between income and willingness to use injectable PrEP, adjusted for age, previous PrEP use, postsecondary education, and ethno-racial identity.
 - Survey question: "Would you take PrEP if it was an injection by nurse/doctor every 8 weeks, instead of pills?"

Results

- 238 individuals were included
- 78% (185) were from ON
- 64% (150) were White

- 89% (212) had completed post-secondary education
- 47% (111) were former PrEP users
- Mean age was 31 years (SD=8.3)







Results, contd.

- Overall, 72% were willing to use injectable PrEP
- There was a negative association between annual income and willingness to use injectable PrEP
- Fewer never PrEP-users appeared willing to use injectable PrEP compared to former PrEP-users (66% vs 77%, χ =3.2, p=0.07)

Willingness to use injectable PrEP by income brackets						
Income	Willingness to use Injectable PrEP (Y/N)		OR (95% CI)	p- value	aOR (95% CI)*	p- value
	Y (n=163)	N(n=63)				
Less than \$40,000pa	57 (81%)	13 (19%)	ref	-	ref	-
\$40,001pa - \$60,000pa	67 (66%)	34 (34%)	0.45 (0.21 -0.92)	0.03	0.35 (0.15 -0.75)	0.01
More than \$60,000pa	39 (71%)	16 (29%)	0.56 (0.24 -1.28)	0.17	0.41 (0.16 -1.02)	0.06
*Adjusted for previous PrEP use, age, education, and race.						

Conclusions

- Among urban GBM meeting guideline criteria for HIV PrEP, those with lower income may be more amenable to injectable PrEP use than those with higher income.
- Investigating the reasons underlying this difference may help tailor PrEP delivery and optimize population-level impact in the future.

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