# P012: PrEP cascade improvement through same-day PrEP initiation



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#### **Background**

This observational cohort study measured the impact of same-day PrEP initiation among gay, bisexual, and other men who have sex with men (gbMSM) in Ontario. Traditional PrEP care cascades involve multiple steps over time often at different locations, as well as significant wait times. Same-day initiation of PrEP could increase PrEP uptake through consolidation of the offer of PrEP, acceptance, screening, referral and initiation.

### **Materials and Methods**

Individuals at HQ clinic, aged 16 years and older, seeking either sexually transmitted and bloodborne infection (STBBI) testing or to start PrEP, and not currently on PrEP, were eligible to participate. PrEP eligibility and identification was determined using a modified HIRI score during intake. Participants underwent HIV testing at baseline by 4th generation serologic testing after patients accepted PrEP initiation (in contrast with past studies where HIV testing occurred prior to identification) [1]. PrEP offers (TAF/FTC) were made immediately following HIV testing. The primary endpoint was the proportion of eligible PrEP users initiating PrEP within 24 hours compared to historical rates within other clinics in Ontario. Secondary endpoints included demographic data analysis, renal safety, and PrEP retention at 6 months (defined as receiving a 90-day supply 3 or more times in the 6 month period).

#### Results

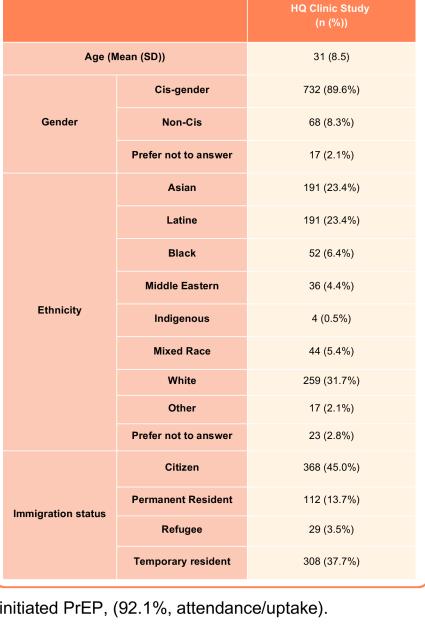
887 individuals were offered testing with rapid PrEP initiation (identification). Baseline HIV positivity was 1.5%, and those individuals were excluded from the study (n=13, excluded at offer).

Fifty-seven individuals did not start PrEP within twenty-four hours from initial screening (6.4%, excluded at acceptance/uptake), while 817 individuals initiated PrEP, (92.1%, attendance/uptake).

By six months, 188 individuals had either stopped PrEP or were lost to follow-up (21.2%), 581 individuals were retained on PrEP (65.5%), and 48 individuals (5.4%) were inconsistently taking their PrEP leading to non-compliant adherence (individuals with a gap of at least 6 months between prescriptions).

Five individuals had an eGFR less than 60mL/min/1.73m\*2 when starting PrEP with TAF/FTC, no one had and eGFR of less than 30mL/min/1.73m\*2. Eighteen individuals had eGFR less than 60 sometime during the study with return to normality for those without baseline renal dysfunction, these were deemed to be unrelated to the study drug.

PrEP cascade Historical PrEP Cascade Data<sup>1</sup> **HQ Clinic (Study)Data** Identification 100% 1. Identification\* 100% 95% Offer 60% Acceptance 98.5% 2. Offer\* CI: 97.4% - 99.1% 60% Referral 92.1% 3. Attendance/Uptake\* Attendance 32% CI: 90.1% - 93.8% 28% Uptake 65.5% 4. Retention at 6 months CI: 62.3% - 68.6% non-compliant Retention at 6 months 19% 0 20 40 60 80 100 0.0 20.0 40.0 60.0 80.0 100.0



**Table 1 - PrEP Cascade Study Demographics** 

# Cr (μmol/L) Min 94 Cr (μmol/L) Max 178 eGFR (mL/min/1.73m\*2) Min eGFR (mL/min/1.73m\*2) Max 59 Max

**Table 2 - Renal Safety** 

Count

Count

Baseline eGFR <60

Overall eGFR (mL/min/1.73m\*2)

# Conclusions

Same-day initiation of PrEP significantly streamlines the PrEP cascade for high-risk populations, demonstrating improved uptake and retention rates among gay, bisexual, and other men who have sex with men (gbMSM) when compared to the traditional cascade. There were no renal safety concerns with rapid initiation using TAF/FTC.

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Value

5

18



