

Improvement in Provider Experiences From Baseline to Month 12 With Integrating Cabotegravir Long-Acting (CAB LA) for PrEP Into Care in an Implementation Science Trial (PILLAR)

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Key Takeaways

- Healthcare providers' (HCPs') concerns for delivering cabotegravir long-acting (CAB LA) for pre-exposure prophylaxis (PrEP) improved as early as Month 4 and continued through Month 12.
- Over time, clinics reported an increased ability to manage more patients receiving CAB LA per week while requiring fewer staff.
- At Month 12, HCPs reported that CAB LA was highly acceptable and feasible to implement into standard of care.

Introduction

- In the United States (US), large disparities in HIV acquisition rates and PrEP use exist between different demographics.¹
 - In 2022, men who have sex with men (MSM) and transgender men (TGM) accounted for 67% and <1% of new US HIV diagnoses, respectively.²
- CAB LA administered every 2 months via intramuscular injection is the first approved LA agent indicated for PrEP.^{3,4}
 - CAB LA has demonstrated superiority to daily oral PrEP with tenofovir disoproxil fumarate plus emtricitabine for the prevention of new HIV acquisitions.^{5,6}
- Real-world clinical experience with CAB LA might be helpful to alleviate initial provider implementation concerns.
- PILLAR is a 12-month, Phase 4, implementation science trial evaluating the feasibility and acceptability of different strategies for delivering CAB LA for PrEP in the US for MSM and TGM.
 - To our knowledge, PILLAR is the first implementation science trial to gender align participants per community request and includes TGM, who are often not included in clinical studies.
- Here, we report changes in HCPs implementation outcomes with CAB LA over 12 months in the PILLAR study (NCT05374525).

Methods

- A total of 17 sites in the US were included in the study. Sites were randomized 2:1 to routine implementation (RI) and dynamic implementation (DI).
- RI: standard of care.
- DI: standard of care and enhanced support (implementation facilitation and support strategies and tools).
- HCPs providing PrEP services were enrolled and completed surveys at Months 1, 4, and 12.
- Change across six CAB LA implementation domains was assessed:
 - Acceptability using the Acceptability of Intervention Measure (AIM; 4 items).⁷
 - Feasibility using the Feasibility of Implementation Measure (FIM; 4 items).⁷
 - Resources needed to implement (4 items).
 - Fidelity to dosing administration (6 items).
 - Scheduling and patient management (5 items).
 - Patient adoption and adherence (6 items).

Clinic Site Locations



Results

Table 1. HCPs Demographics and Characteristics at Baseline

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Characteristic, n (%)*	DI (n=56)	RI (n=30)	Total (n=86)
Gender			
Cisgender male	21 (37.5)	13 (43.3)	34 (39.5)
Cisgender female	30 (53.6)	13 (43.3)	43 (50.0)
Other gender [†]	5 (8.9)	4 (13.3)	9 (10.5)
Median age, years (IQR)	38 (23–73)	40 (27–68)	38 (23–73)
Race			
Black	9 (16.1)	4 (13.3)	13 (15.1)
White	28 (50.0)	19 (63.3)	47 (54.7)
Other [‡]	19 (33.9)	7 (23.3)	26 (30.2)
Ethnicity			
Hispanic/Latinx	12 (21.4)	9 (30.0)	21 (24.4)
Provider type			
Physician/Physician assistant	22 (39.3)	10 (33.3)	32 (37.2)
Nurse/Nurse practitioner	8 (14.3)	6 (20.0)	14 (16.3)
Medical assistant	5 (8.9)	2 (6.7)	7 (8.1)
Pharmacist	4 (7.1)	3 (10.0)	7 (8.1)
Office administrator/Clinic administrator	4 (7.1)	3 (10.0)	7 (8.1)
Other roles§	13 (23.2)	6 (20.0)	19 (22.1)
Specialty ^{II}			
Infectious disease/HIV specialist	19 (70.4)	14 (93.3)	33 (78.6)
Internal medicine/primary care/general doctor	7 (25.9)	7 (46.7)	14 (33.3)

*Unless otherwise specified. [†]Gender queer (DI, n=1; Total, n=1), non-binary (RI, n=1; Total, n=1), and "I prefer not to answer" (DI, n=4; RI, n=3; Total, n=7). [‡]Asian (DI, n=7; Total, n=7), mixed race (DI, n=4; Total, n=4), Other race (DI, n=3; RI, n=3; Total, n=6), and "I prefer not to answer" (DI, n=5; RI, n=4; Total, n=9). PrEP educator/PrEP navigator (DI, n=1; RI, n=4; Total, n=5), laboratory staff/technician/phlebotomist(DI, n=2; RI, n=1; Total, n=3), social worker/case manager (DI, n=2; Total, n=2), front desk staff/scheduler (RI, n=1; Total, n=1), and other (DI, n=8; Total, n=8). This question was applicable among HCPs who prescribe medication (n=42), and multiple responses could be selected. DI, dynamic implementation; HCP, healthcare provider; IQR, interquartile range; RI, routine implementation.

• Overall, 86 HCPs enrolled between April and October 2022 and completed Month 1 surveys (**Table 1**); 80 and 81 HCPs completed Month 4 and Month 12 surveys, respectively.



Figure 1. HCPs' Perceptions of Acceptability and Feasibility of Implementing CAB LA for PrEP Over Time

*DI: Month 1, n=56; Month 4, n=51; Month 12, n=52; RI: Month 1, n=30; Month 4, n=29; Month 12, n=29 CAB, cabotegravir; DI, dynamic implementation; HCP, healthcare provider; LA, long-acting; PrEP, pre-exposure prophylaxis; RI, routine implementation

- HCPs reported high levels of acceptability and feasibility of CAB LA at Month 1 (mean scale scores \geq 4.4), Month 4 (mean scale scores \geq 4.1), and Month 12 (mean scale scores \geq 4.3) across both arms (**Figure 1**).
- Change from baseline to Month 12 between arms was not statistically significant.

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- Scheduling and managing patients, fidelity to dosing and administration, and patients' adoption and adherence reduced by an average of 46%, 42%, and 32%, respectively.
- A higher proportion of HCPs in the DI arm reported a decrease in concerns around resourcing and fidelity to dosing and administration than HCPs in the RI arm.

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- Over time, clinics' ability to manage more patients receiving CAB LA per week increased while requiring fewer staff.
- The use of available implementation tools, such as injection schedulers, appointment reminders, injection training videos, and guidance documents, support CAB LA implementation.⁹

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