

Provider Perspectives on Long-Acting Injectable Antiretroviral Therapy: A "Golden Ticket"? Breana J. Uhrig Castonguay,¹ Jessica Carda-Auten,¹ Humberto Gonzalez Rodriguez,² Kenneth H. Mayer,^{3,4,5} Ricardo Fernandez,⁶ David A. Wohl,¹ Deanna Kerrigan,⁷ Clare Barrington^{2,8}

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Background

Long-acting injectable antiretroviral therapy (LAI-ART) is FDA approved as an alternative to daily oral ART for people living with HIV (PLWH). Several studies have assessed the LAI-ART knowledge, acceptance, and preferences among PLWH but is less understood about the perspectives of healthcare providers regarding injectable HIV therapy.

Purpose

To characterize perceptions and preferences related to LAI-ART and clinic implementation facilitators and barriers among HIV care providers.

Methods

Study Design

Formative qualitative study representing phase one of the Shared Decisions when Choosing between Long-Acting Injecting or Oral Therapy (SELIGO) study.

Sampling and Recruitment

From November 2019 to March 2021, providers were recruited at 3 clinics in the eastern U.S. Providers were purposively sampled based on provider type and included: physicians, nurse practitioners, physician assistants, registered nurses, clinical pharmacists, social workers, medical assistants, and HIV navigators. We used thematic saturation to determine the final sample size.

Data Collection

Interviews were audio-recorded and conducted in-person or virtually using a semi-structured guide that explored 3 key LAI-ART themes:

- 1. LAI-ART awareness and attitudes
- 2. HIV treatment decision-making process for patients considering LAI-ART
- 3. Clinic readiness to implement LAI-ART

Data Analysis

Using transcribed transcripts, we completed three phases of data analysis:

Narrative Summaries	Wrote short summary of each providers' experience providing H care to preserve the holistic nature of the data.
Coding	Developed and piloted a codebook integrating inductive and deductive codes. All transcripts single-coded using Dedoose.
Matrices	Compared data on concerns, information needed, benefits, and clinic readiness by clinic site.

HIV

Participan	t Demographics	n= 32	HIV Care
Age (Mean, Range)		42 (23-64)	
Gender Identity			Presc
	Cisgender Male:	6 (19%)	Provi
	Cisgender Female:	24 (75%)	n= 16
	Transgender Male:	1 (3%)	
	Transgender Female:	1 (3%)	
Race			
	White	22 (69%)	Non-Pre
	Black	2 (6%)	Provi
	Asian	1 (3%)	n= 16
	Multiracial	1 (3%)	
	Other	5 (16%)	
	Missing	1 (3%)	
Ethnicity			Years' Expe
	Hispanic	11 (34%)	(IVICAII, Nai
	Non-Hispanic	20 (63%)	
	Missing	1 (3%)	

Benefits of LAI-ART

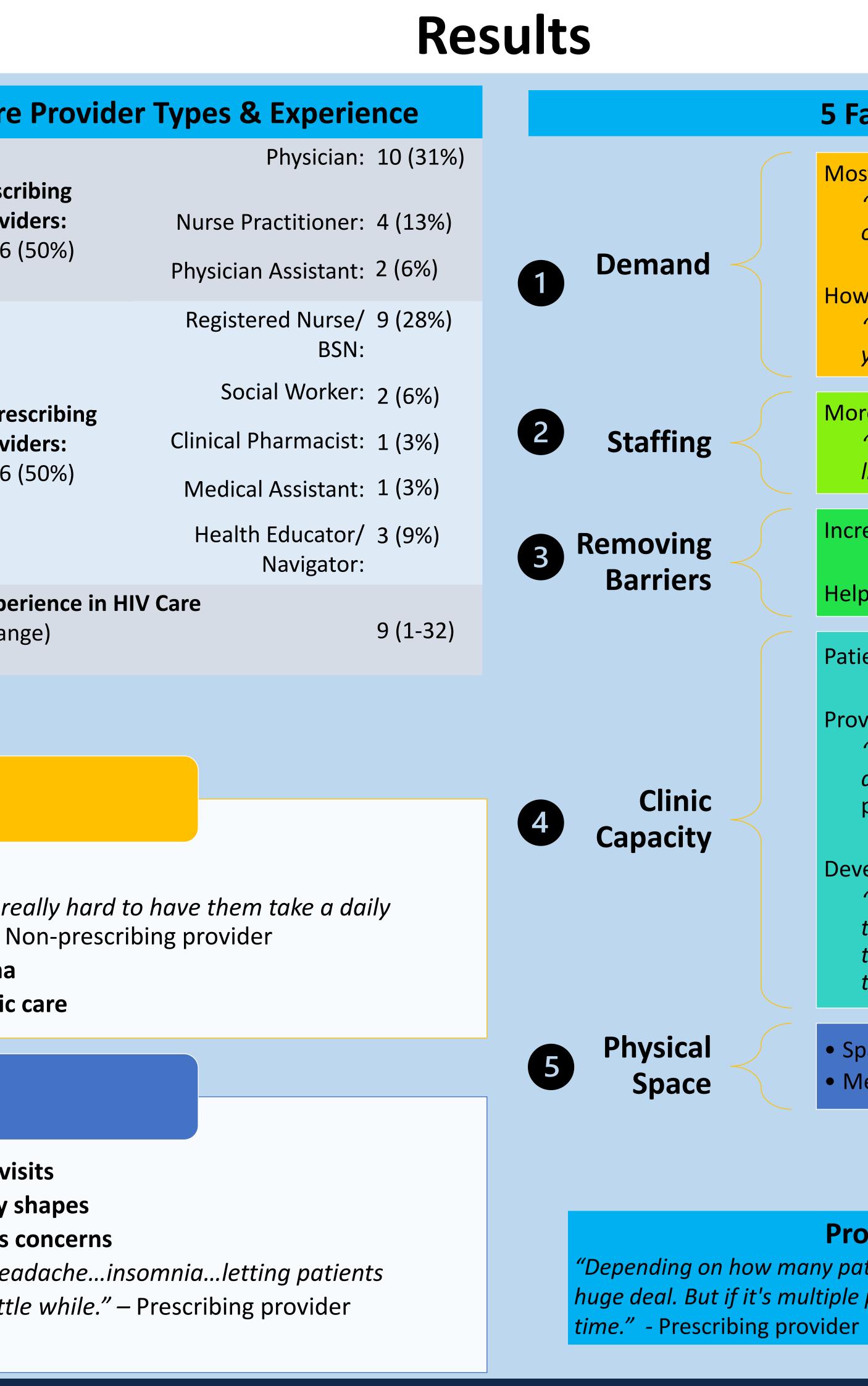
- Easier to take and improved ART adherence
- "...there's a lot of hope that for individuals that it's really hard to have them take a daily *medication – this might be like the golden ticket" –* Non-prescribing provider
- Reduce risk of HIV disclosure and internalized stigma
- Seeing patients more frequently could improve clinic care

LAI-ART Concerns

- Patients will not want to have more frequent clinic visits
- Understanding how LAI-ART works in different body shapes
- Understanding side effects and anticipating patients concerns "I know the integrase inhibitors can lead to some headache...insomnia...letting patients know about that, because once it's in, it's in for a little while." – Prescribing provider
- Risk of resistance and window between injections

Conclusions

•Many providers see the potential for LAI-ART to improve ART adherence and reduce social risks related to HIV but have concerns regarding the logistics of injection administration, side effects, and efficacy.



•LAI-ART was expected to place a burden on clinics including need for more staffing effort to support drug procurement, administration, and tracking as well as space for injecting and storage. •Providers concerns highlight the need for additional resources to support LAI-ART implementation and for decision-making between patients and providers.

5 Factors that Influence Clinic Readiness:

Most providers anticipate patient demand for LAI-ART to be low at the beginning: "I don't think like all of a sudden we're going to see this huge influx of like all of our patients switching to injectables." – Non-prescribing provider

However, some worried about clinic capacity:

"But even 5% of 1500 is you know, 75 people, right? If I do the math right. Um, you know, that, that's a pretty big number. " – Prescribing provider

More staff needed for injection administration and patient coordination: "...because already the case managers are so overtasked....if there could be, *like, another kind of coordinator person." - Non-prescribing provider*

Increased visits will require more transportation and parking resources

Helping patients navigate the cost of LAI-ART

Patient tracking system needed

Provider training desired:

"...if it has to be in divided doses, like a certain amount on one side, certain amount on the other – they [nurses] need to know that." – Prescribing provider

Developing LAI-specific protocols and clinic workflows:

"I think it'd be fine. I think we would treat it just like we treat hormone therapy...I mean, obviously it's a little bit different, but, there's probably going to be a consent form involved somewhere. There'll be teaching that will need to be signed off...– Non-prescribing provider

 Space for injections and observations • Medication storage and cold-chain management



Providers saw these 5 factors as interrelated:

"Depending on how many patients we were talking about. Even if it was just one a day is probably not a huge deal. But if it's multiple patients a day, it would probably require having a nurse with more protected



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