

## Background

- Analytical treatment interruptions (ATI) are important endpoints in trials to determine whether an intervention can lead to virological control off antiretroviral therapy (ART).
- Understanding of ATI acceptability and how it should be conducted amongst people living with HIV (PLHIV) and their HIV healthcare providers (Providers) is limited.

## **Methods**

- 2 online surveys for were designed in collaboration with the Australian HIV Cure Community Partnership; one for PLHIV, and one for Providers, and were hosted online at HIVcure.com.au, an online hub developed to engage community in the field of HIV cure research. • Survey links were disseminated to community based organisations, research groups, professional societies and other groups conducting advocacy for PLHIV via social media platforms and newsletters.
- Responses were collected from July 2017-January 2018.
- Surveys assessed understanding and acceptability of different monitoring strategies during ATI (frequency of CD4, viral load (VL) and clinical assessment), potential risks of TI and prospect for HIV cure.
- A descriptive analysis of survey results was performed and comparable responses between PLHIV and Providers were analysed using chi<sup>2</sup> test.

Participant demogra	phics		
PLHIV (n=442)	n (%)	Providers (n=140)	
<b>Gender</b> Male	273 (78)	Practice location Metropolitan GP Rural GP	
Female	75 (22)	Tertiary teaching hospital Regional hospital Sexual health clinic Other	
<b>Country of Residence</b> South America North America/Canada Western Europe Eastern Europe Australasia Asia Africa	10 (3) 108 (31) 92 (27) 3 (1) 69 (20) 26 (8) 33 (10)	Country of Practice South America North America/Canada Eastern Europe Western Europe Australasia Asia Africa	
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# Community and Provider Attitudes Towards Treatment Interruptions in HIV Cure Trials

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## Results

### PLHIV

- 442 PLHIV completed the survey: 78% male, 64% identified as gay/homosexual, reflecting the epidemic in high income countries. 95% reported receiving ART and 86% had undetectable VL.
- 46% heard of ATI and 55% thought HIV cure achievable within 10 years.
- Preferred frequency of CD4, VL and clinical monitoring during ATI was monthly (31%, 35%, and 39% respectively) (Fig. 1)
- 35% would not accept a sustained period with viremia during TI, even if well, and would want ART recommenced when VL became detectable (Fig. 2)



# Fig.1: PLHIV preferred monthly monitoring

- Factors that made PLHIV more willing to undergo ATI:
  - 59% if home based VL testing was available
  - 51% if nurses could perform home visits
  - 54% if pre-exposure prophylaxis (PrEP) was offered for HIVpartners



Traffic flow to HIVcure.com.au in the first 2 months of response collection

## As long as required-

6-12 months

3-6 months

1-3 months-

1 month-

## Restart when detectable-

# ' VL CD4 Clinical review ŝ 0

### Providers

- 62% were aware of ATI.
- 19% believed HIV cure achievable within 10 years.

## Comparable responses

- in PLHIV compared to Providers.
- Providers were more aware of ATI
- scenario during ATI.

# Believe HIV cure achievable in ne

Believe HIV cure not achievable i Aware of ATI

Ever participated/enrolled a patien focused trial

Would not allow a sustained period detectable VL during TI

Would allow ATI for long as neces intervention if remained well

## Conclusions

- trials involving ATI.
- providers.





Fig. 2: Acceptable period of time off ART during ATI for PLHIV and Providers

• 140 Providers completed the survey: 76% practiced in Australasia (Table 1). 61% were "very interested" in HIV cure research, and 18% had enrolled a patient in a HIV cure trial.

• 18% wanted ART recommenced once VL was detectable during an ATI trial (Fig. 2)

Higher optimism for HIV cure and decreased acceptability of sustained viremia during ATI

• Transmission of HIV to a negative partner during ATI was a concern to both groups (44% of PLHIV and 42% of Providers responded that they were "very concerned" about this

	PLHIV (n=442)	Providers (n=140)	P-value
ext 10 years	55%, 226/410	19%, 26/140	< 0.001
n lifetime	14%, 56/410	16%, 23/140	0.4
	46%, 182/399	62%, 86/138	< 0.001
nt in HIV cure-	5%, 21/412	18%, 25/140	<0.001
od with a	35%, 135/387	18%, 24/136	< 0.001
ssary to test trial	26%, 99/387	27%, 37/136	0.7

• There is a disconnect in expectations of ATI in PLHIV to how cure trials are currently conducted in regards to duration of TI and frequency of monitoring.

• PrEP and home based monitoring are incentives for community participation in HIV cure

Clear education messages in relation to ATIs should be developed for both PLHIV and

