Psychological follow-up of HIV persons participating in a cure trial





What's in a name?

CURE



- /verb/ relieve (a person or animal) of the symptoms of a disease or condition.
- /noun/ a substance or treatment that cures a disease or condition.
- A cure is when a treatment makes a health problem go away and it's not expected to come back
- Curative misconception?
 - False beliefs that participants will be "cured" from early-phase experiments

Sterilizing/complete cure

Functional/treatment-free cure

VIENPOINT

Revisiting the 'sterilising cure' terminology: a call for more

Revisiting the 'sterilising cure' terminology: a call for more

Revisiting the 'sterilising cure' terminology: a call for more

Revisiting the 'sterilising cure' terminology: a call for more

Revisiting the 'sterilising cure' terminology: a call for more

Revisiting the 'sterilising cure' terminology: a call for more

Revisiting the 'sterilising cure' terminology: a call for more

Revisiting the 'sterilising cure' terminology: a call for more

Revisiting the 'sterilising cure' terminology: a call for more

Revisiting the 'sterilising cure' terminology: a call for more

Revisiting the 'sterilising cure' terminology: a call for more

Revisiting the 'sterilising cure' terminology: a call for more

Revisiting the 'sterilising cure' terminology: a call for more

Revisiting the 'sterilising cure' terminology: a call for more

Revisiting the 'sterilising cure' terminology: a call for more

Revisiting the 'sterilising cure' terminology: a call for more

Revisiting the 'sterilising cure' terminology: a call for more

Revisiting the 'sterilising cure' terminology: a call for more

Revisiting the 'sterilising cure' terminology: a call for more

Revisiting the 'sterilising cure' terminology: a call for more

Revisiting the 'sterilising cure' terminology: a call for more

Revisiting the 'sterilising cure' terminology: a call for more

Revisiting the 'sterilising cure' terminology: a call for more

Revisiting the 'sterilising cure' terminology: a call for more

Revisiting the 'sterilising cure' terminology: a call for more

Revisiting the 'sterilising cure' terminology: a call for more

Revisiting the 'sterilising cure' terminology: a call for more

Revisiting the 'sterilising cure' terminology: a call for more

Revisiting the 'sterilising cure' terminology: a call for more

Revisiting the 'sterilising cure' terminology: a call for more

Revisiting the 'sterilising cure' terminology: a call for more

Revisiting the 'sterilising cure' terminology: a ca

Inducing a state of durable, ART-free virological suppression in which small quantities of HIV remain but do not actively increase or cause immunological damage

Most highly desired outcomes of a cure among PLHIV

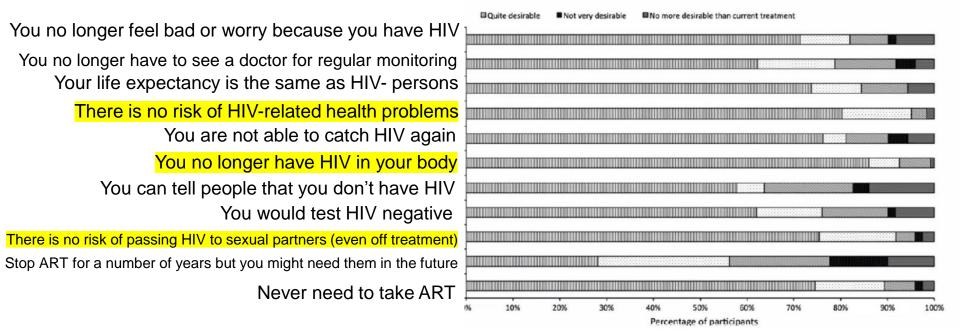
Alleviating uncertainty about future health problems

No longer being concerned about onward HIV transmission

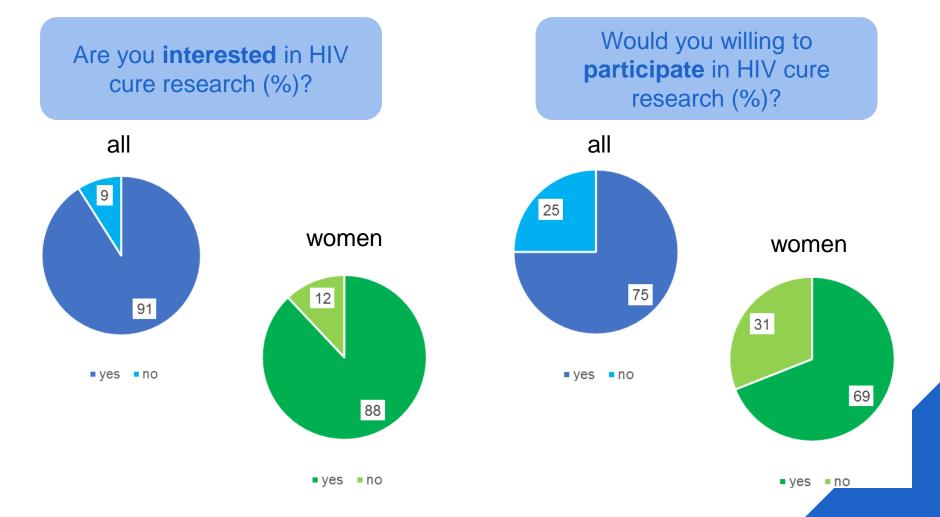
Reducing the negative social impact of HIV associated with stigma

Table 1. Participant expectations on completing an intensive HIV cure focused clinical trial.

Potential cure scena	arios ranked most impor	tant		_			P value
Not passing HIV on to others	Not getting HIV for a second time	Being considered a person not infected with HIV 32%		Stopping HIV medications		onger need to doctor for HIV	
47%	32%			25%		0%	
Desirability of sterri	nzing versus runeuonar e	are outcomes					
			Very desirable	Somewhat desirable	Somewhat undesirable	Very undesirable	
Sterilizing cure 'You are completely cured. So you no longer need to take HIV medications or see doctors about HIV'			90%	10%	0%	0%	
Functional cure The virus is still in your blood, but your body is able to keep the virus in check on its own. You no longer need to take HIV medications but you still need to visit your doctor for testing to monitor HIV'		55%	35%	0%	10%	0.02	



PROM UZ Ghent (N=855, N_{women}=196)





Journal of Virus Eradication



journal homepage: www.viruseradication.com

Motivations, barriers and experiences of participants in an HIV reservoir trial



Marie-Angélique De Scheerder a,1,* , Ward P.H. van Bilsen b,1 , Melissa Dullaers c , Javier Martinez-Picado d,e,f , Udi Davidovich b,2 , Linos Vandekerckhove a,2

- Baseline questionnaire
 - 32 items on motives, barriers and expectations of study participation at enrollment
- Exit questionnaire
 - 23 items to assess motives and investigate the overall satisfaction and experiences of study participation
- In-depth interviews to gain more insight in issues that had emerged from the questionnaires

Questionnaire A: participation in the HIV-STAR study

1.	How would you assess your physical health	1->5
2.	Have you participated in a medical study before	Y/N
3.	If yes, please note the study subject and describe your experiences	
4.	How big is your interest in HIV research	1->5
5.	How big is your interest in research in general	1->5
6.	Do you ever attend meetings about health-related issues	1->5 1->5
7.	My participation will provide me with extra information about my health and in particular my HIV infection	
8.	There might be unexpected events preventing me from attending my study appointments	
9.	Participation will have an important impact on my social life/relationship	
10	My participation will allow me to have better access to medical care in the future	
11	I hope that my participation will benefit my own health	1->5
	The allowance will allow me to do something extra	1->5
	Participating in the study makes me a better human being	1->5
	Participating in the study might damage my health	1->5
	My doctors will appreciate me more if I participate	1->5
16		1->5
17		1->5
18	My family/friends will be excited about my participation	1->5
19	Participating in this trial will give me a bigger chance not having to take my HIV medication anymore	
20	Participating in this trial will allow me to have faster access to new medication	
21	Staying in the hospital demands a lot of time	1->5
22	This study offers the possibility to get tests I cannot pay for myself	1->5
23	This study increases my chances of decreasing my HIV reservoir	1->5
24	My participation will help others	1->5
	My participation contributes to HIV cure	1->5
	The number of exams makes me nervous	1->5
	I know the risks related to the sampling interventions	1->5
	The chance of resistance after stopping treatment is low	1->5
29	Stopping treatment does not impact sexual transmission of HIV	1->5
30	Restarting HIV medication will have physical or mental consequences	1->5
31	The increase in viral load after stop of my HIV treatment worries me	1->5
32	I prefer to keep my participation a secret	1->5

Altruistic motives

Gaining more insight into their own health

Financia incentive

"makes me a better person"

MOTIVES

contribute to the likelihood of future individual care

be prioritized if new treatment options would become available

receiving more medical help for HIV or other health issues

Too time-consuming

Nervousness

BARRIERS

Impact on relationship

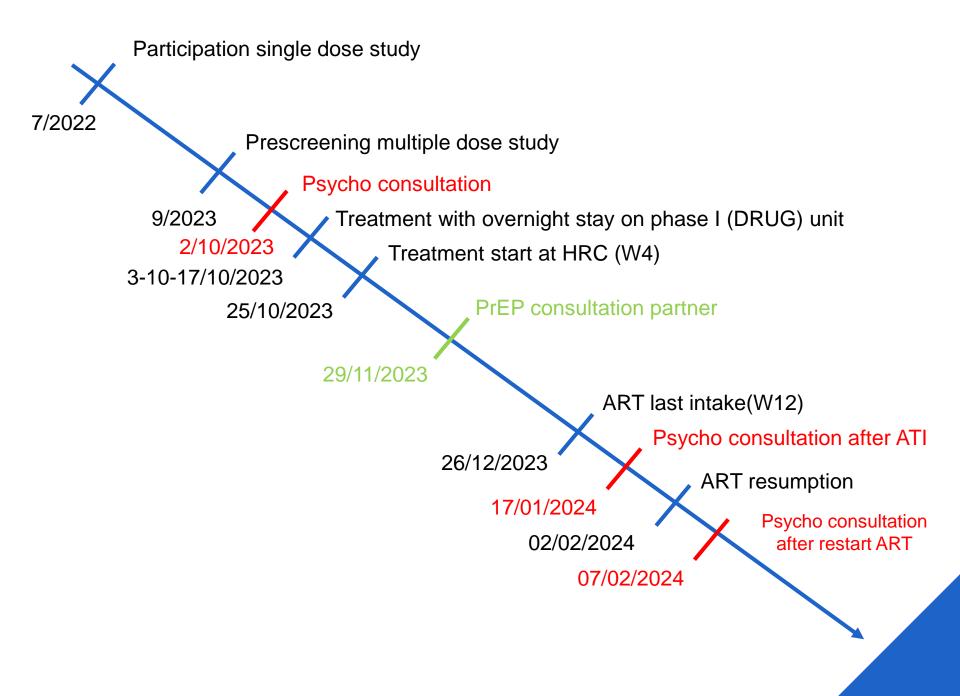
Impact on social life

Harm of privacy

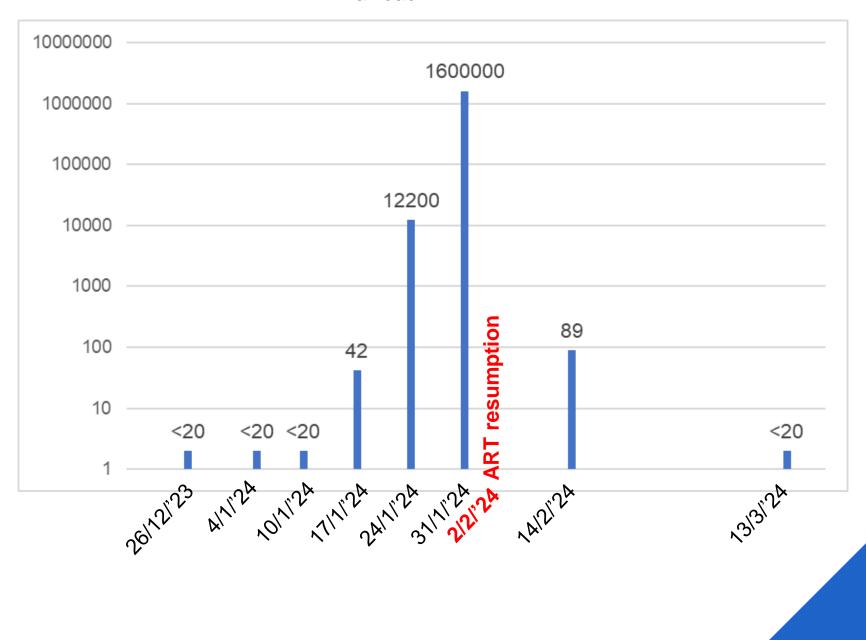
De Scheerder et al. (2021)

Case study G.

- 28 years
- ▶ Born in Brazil, since 1/2020 in Belgium
- Hiv+ since 11/2018
- Closed relationship since 14 months, hiv- partner
- Other medication: Trazodone



Viral load



Psychological follow up in HIV 'cure' trial

Prescreening consultation **PrEP** Follow-up consultation (before ATI) Partner At each medical consult: small Follow-up psycho check consultation (after ATI) If necessary, counseling in between!

Prescreening consultation

- Personality
- Work-life balance
- Relational/sexual status
- Social network
- Anxious/depressive feelings + coping mechanisms
- Motives

Psychological follow-up Case study

- 3/10/2023: consultation before ATI
 - Motives
 - Hope for HIV cure
 - No high expectations, not too much hope
 - Only partner is informed about participation
 - Little concerns: about U=U partner
 - Partner: PrEP



Follow-up consultation (before ATI)

- How would you rate your physical health?
- How would you rate your mental health?
- Does the study meet your expectations? Why (not)?
- Did you experience any moments of hesitation?
- What are the barriers up to now?
- What is your motivation to continue?

Partner

PrEP

Psychological follow-up Case study



- 17/1/2023: consultation one month after ATI
 - No worries (physical health 8/10, mental health 7/10)
 - Motivation ++
 - Barriers:
 - Time-consuming: impact on studies
 - Increased fatigue
 - Strange to stop taking medication
 - Partner on PrEP: more 'controlling behavior' towards
 PrEP intake partner

Follow-up consultation (after ATI)

- After stopping the medication, did you experience any anxious feelings or doubts?
- Did the stop of medication have an influence on your relationship/sexual life?
- Can you communicate well about the study issues with someone?

Psychological follow-up Case study



- ▶ 7/2/2023: Consultation after restart ART
 - Anxious and difficulties with sleep
 - Experiencing sexual distance in relationship
 - Find it difficult to communicate with partner
 - Negative self-perceptions: 'anticipation of worstcase scenario'

Strange, burdensome and stressful Preoccupation about becoming detectable again

EXPERIENCES ATI

becoming detectable again represented a personal confrontation with the reality of being HIV positive

Changes in sexual behaviour

Impact on relationship

Negative selfperceptions
associated with
becoming detectable
again

Partner

How did you react on the participation of your partner in a cure trial?

Overall very positive. I thought it was something very meaningful to participate in, with a potential life-changing outcome. At the same time we felt it was important to be careful setting too high expectations.

Were all your questions/concerns adequately answered? If so, by whom (e.g. partner, doctor,...)?

The introduction talk with the doctor provided adequate information to answer all my initial questions; that part was very clear. Still okay but somewhat less clear was the communication further into the trial, especially when the doctor/nurses communicated through G. rather than directly to myself. I wasn't always confident that I got all information and I noticed G. sometimes assumed I would have been informed about something where presumably he was supposed to convey the message.

Partner

As a partner, how did you experience participation?

I had the impression G. experienced some doubts and concerns more so than myself. I mostly tried to be supportive as much as possible.

How did you experience the period when your partner was detectable again?

The specific period where the viral load was going up, and it was detectable again but hadn't reached the trigger level yet, made me a little nervous. I remember asking one or two times when the next check would be so that we would immediately know when the trigger value was reached. Once G. started taking the usual medication again I was also looking forward to the next test to have confirmation levels were dropping again.

Have you ever felt anxious during this process?

No real anxiety, but some nervousness about having to wait a week to the next check while we already knew that values were rising. It was clear though the levels were within the limits set at the beginning of the trial so it was okay.

Partner

Has this participation had an impact on your relationship?

Apart from being a topic of discussion and presenting a thing to deal with together, I don't think it affected us too much during the trial. Once everything was over I think it left us somewhat with a feeling of improved confidence in each other knowing that we had successfully gone through it together. During the trial, I think G. sometimes struggled a bit with convincing himself it wasn't changing my feelings for him so I tried to assure him of that on a couple of occasions.

Do you have any suggestions/comments in involving partners in participation in such cure research?

Don't rely on the patient too much to relay messages to the partner during the trial. Even if communication is open and everyone is supportive of each other, it instills confidence to receive factual information and instructions wrt medication start dates etc. via a nurse or doctor.

Take home messages?

TAKEHOME

- Importance of language use
- Privacy
- Importance of prescreening consultation
 - Explore motives
 - Explore anxiousness and coping mechanisms
- Involve partner
- PrEP for partner
- Importance of psychological counseling
 - before-during-after







References

- McMahon JH, Elliott JH, Roney J, Hagenauer M, Lewin SR. Experiences and expectations of participants completing an HIV cure focused clinical trial. AIDS. 2015; 29(2):248–50. https://doi.org/10.1097/QAD.000000000000534 PMID: 25532611
- Verdult F. Community scientific literacy workshop 'Towards an HIV Cure', European community survey on HIV cure 19th International AIDS conference; Washington DC 2012.
- Simmons R, Kall M, Collins S, Cairns G, Taylor S, Nelson M, et al. A global survey of HIV-positive people's attitudes towards cure research. HIV Med. 2017; 18(2):73–9. https://doi.org/10.1111/hiv.12391PMID: 27167600
- De Scheerder MA, van Bilsen WPH, Dullaers M, Martinez-Picado J, Davidovich U, Vandekerckhove L. Motivations, barriers and experiences of participants in an HIV reservoir trial. J Virus Erad. 2021 Jan 23;7(1):100029. doi: 10.1016/j.jve.2021.100029. PMID: 33598311; PMCID: PMC7868726
- Dubé K, Kanazawa J, Taylor J, Dee L, Jones N, Roebuck C, Sylla L, Louella M, Kosmyna J, Kelly D, Clanton O, Palm D, Campbell DM, Onaiwu MG, Patel H, Ndukwe S, Henley L, Johnson MO, Saberi P, Brown B, Sauceda JA, Sugarman J. Ethics of HIV cure research: an unfinished agenda. BMC Med Ethics. 2021 Jun 30;22(1):83. doi: 10.1186/s12910-021-00651-1. PMID: 34193141; PMCID: PMC8243312.

CHARLOTTE VANDEN BULCKE

Psycholoog-seksuoloog| Wetenschappelijk medewerker Algemene Inwendige Ziekten





Universitair Ziekenhuis Gent | C. Heymanslaan 10 | 9000 Gent T+32 9 332 03 39

charlotte.vandenbulcke@uzgent.be
Ingang 69 |uzgent.be