







NEW CHALLENGES AND UNMET NEEDS OF PEOPLE LIVING AND AGEING WITH HIV/AIDS AGED 18-50 – QUALITY OF LIFE AND PREVENTIVE HEALTHCARE, 3-6 MAY 2018, KYIV, UKRAINE

APSEC

HIV patients and health providers viewpoints and preferences regarding hypothetical participation in Cure clinical trials Results from the ANRS-APSEC survey

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Context

Scientific and therapeutic progresses allow considering HIV cure-related clinical trials (HCRCT) which could lead to transitory/definitive antiretroviral treatments (ART) interruption

HCRCT raised hope but also ethical questions

- target persons living with HIV (PLWH) treated and controlled, living "normal" lives
- poor individual benefit-risk ratio (uncertainty, potential side effects, no guarantee of any direct benefit)
- question individual and collective consequences of ART interruption (TI)

=> Are these trials acceptable? Under which conditions? For who?



What do we know from the social sciences literature? (mainly only among PLWH)

- 1. Interest in participating in HCRCT for a numbers of PLWH despite the lack of direct personal benefits
 - -> But higher rate of declared participation observed in quantitative surveys compared to qualitative surveys
- 2. Altruism has been shown to be a major motivation
- 3. Fear of side effects, fear of increased risk of transmission due to TI, burden associated with appointments and exams, poor expected personal benefits and uncertainty were also important decision criteria
- 4. Importance of designing cure trials considering the preferences of PLWH but also, knowing the importance of the patient-physician relationship, preferences of Health Providers (HP)

What do we not know:

- 1. What is the relative importance of each of the decision criteria?
- 2. Which cure strategies are preferred?
- 3. Did PLWH have the same preferences/viewpoints than health providers?



ANRS-APSEC: an integrated survey, all stakeholders

Step 1: Qualitative

- Eliciting PLWH' and health provider (HP)' perspectives regarding HCRCT
 - Individual and collective interviews

Step 2: Mixt

- Eliciting PLWH' and health provider (HP)' main viewpoints regarding participating/proposing HCRCT
 - Q methodology

Step 3: Quantitative

- Determining the preferred cure strategies for PLWH and physicians
 - Discrete Choice Experiment

Materials and methods

Study Population:

- **PLWH**: stable ART≥6 months, undetectable viral load, CD4 >500
- **HP**: physicians, nurses and clinical research technicians

Overall study design:

A qualitative approach (Sept-Dec 2014)

6 focus group discussions, 21 PLWH & 30 HP, 3 French infectious disease units

A mixed approach: Q methodology (June-July 2015)

- Q enables a relative prioritization and give a multidimensional picture of the subject at stake
- Respondents have to rank order statements regarding cure participation on a grid
- Factorial analysis to identify the structure of the main shared viewpoints

A quantitative approach: Discrete choice experiment (Oct 2016 - March 2017)

- DCE enables to estimate the value associated with any given cure strategy
- Cure strategies described with 5 attributes (each having 2 or 3 levels)
- 13 pairs of strategies were submitted to participants' choice

Three perspectives

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Acceptability of HIV cure-related trials: the challenges for physicians and people living with HIV (ANRS-APSEC)

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1. Individual: a comparative posture highlights the deficit in the individual benefit / risk balance

2. Epidemiological: refusal to renounce to prior knowledge acquired from therapeutic advances

3. Community: perception of research as a common militant history

Three perspectives

1. Individual: a comparative posture highlights the deficit in the individual benefit / risk balance

HIV seen as a chronic manageable illness and Cure trials seen as a source of uncertainty

2. *Epidemiological:* The refusal to renounce to prior knowledge acquired from therapeutic advances

Cure trials seen as a loss of infection control, with a focus on the treatment interruption period

3. Community: perception of research as a common militant history

Cure trials seen as a potential therapeutic innovation, emphasize on the patient-physician relationship and on the beginning of the mobilization against HIV/AIDS

Elicitation of viewpoints based on 7 dimensions

From the 3 perspectives \rightarrow 7 dimensions identified, illustrated with 33 statements

- Treatment modalities and follow up (5 statements),
- Risk, side effects and QoL (6 statements),
- Patient-physician relationship (3 statements),
- Belief and attitudes (4 statements),
- Benefits (7 statements),
- Information (4 statements)
- Target population (4 statements).



Patterns of patient and healthcare provider viewpoints regarding participation in HIV cure-related clinical trials. Findings from a multicentre French survey using Q methodology (ANRS-APSEC)

	PLWH (n=41)	HP (n=41)
Women	19,5%	66%
Age [median (25th – 75th)]	49 (41 – 53)	47 (38 – 53)
HIV experience [median (25th – 75th)]	14 (9 – 21)	15 (6 – 20)
Would participate/propose yes, certainly yes, maybe	63,4% 34,1%	58,5% 34,1%

PLWH & HP "Most motivated" To avoid long term **ART side-effects**

> To **participate** to HIV research

High acceptation

- of side-effects
- of constraints

Need of information

PLWH **Conditioned**

participation and access for all

> To **forget**, one day, the disease

Conditioned

- acceptation of side-effects
- of constraints

Access to HCRT for all

PLWH & HP **Moderately** motivated

More suitable for PLWH who find difficult to take ART

To avoid long term ART side-effects

Additional research is needed

rejection of side effects

acceptation of constraints

HP **Benefit centred**

PLWH & HP **Reticence and way** of life

To avoid long term **ART side-effects**

Need direct benefit for PLWH

High acceptation

- of side-effects. except irreversability
- of constraints

ART-free period>6 months

not confident in **HCRCT**

Rejection of

- Way of life modification
- side-effects
- constraints

concerned with prevention

Access to HCRT for all

5 viewpoints: a gradient of acceptability of HCRCT

- 2 were population-related viewpoints
- All placed importance on the wish to participate in HIV research.
- For some viewpoints, motivation was primarily conditioned by side-effects and/or by constraints
- Some viewpoints placed particular importance on HCRCT recruitment strategies.
- Some viewpoints emphasized the need for information

What about preferences between several specific strategies? -> DCE

Trade-off between attributes

Attribute / level		All (n=355)		
		SE		
Severe side effects ref=0: Allergy, infections, cancer risk)				
Allergy	5,17	0,41		
Allergy, infections	4,37	0,36		
Consultation frequency ref=0: Weekly)				
Monthly	2,49	0,20		
Outcomes: interruption & chance of success (ref=0: 3-6 months, 5%)				
6-12 months, 10%	2,09	0,21		
Moderate side effects (ref=0: Flu syndrome, digestive disorders, fatigue)				
Digestive disorders	1,86	0,22		
Flu syndrome	1,14	0,24		
Trial duration ref=0: 15-18 months)				
6-9 months	0,48	0,11		

Best theoretical strategy

- 6-9 months duration
- Monthly consultation
- Allergy
- Digestive disorders
- 6-12 months interruption, 10% *Utility score = 100*

Worst theoretical strategy

- 15-18 months duration
- Weekly consultation
- Allergy, infection, cancer risk
- Flu syndrome, Digestive disorders, Fatigue
- 3-6 months interruption, 5%

Utility score = 0

PLWH made different trade-offs than physicians

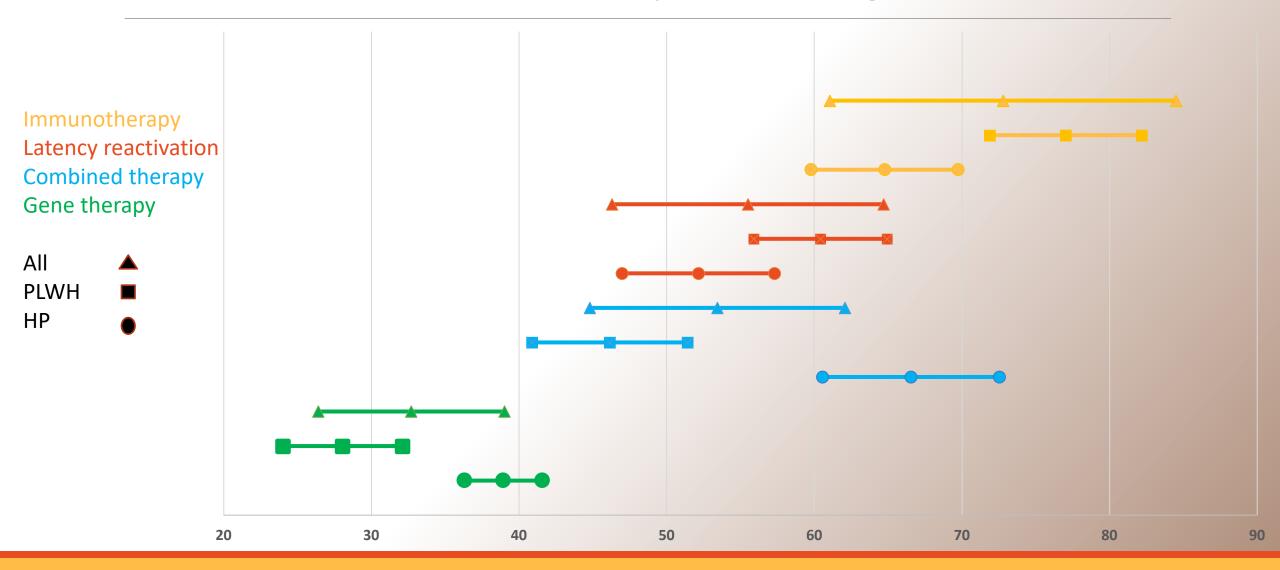
Attribute / level		Physicians (n=160)
		β***
Severe side effects (ref=1: Allergy, infections, cancer risk)		
Allergy	4,52	10,54
Allergy, infections	3,87	10,12
Consultation frequency (ref=1: Weekly)		—
Monthly	2,50	4,95
Outcomes: interruption & chance of success (ref=1: 3-6 months, 5%)		
6-12 months, 10%	1,14	6,77
Moderate side effects (ref=1: Flu syndrome, digestive disorders, fatigue)		
Digestive disorders	1,90	3,12
Flu syndrome	1,34	0,94
Trial duration (ref=1: 15-18 months)		
6-9 months	0,79	0,16

HCRCT strategies covering the main cure approaches

(translated according to their respective level of attributes)

	Latency reactivation (A)	Immunotherapy (B)	Gene therapy (C)	Combined therapy (A+B)
Trial duration	6-9 months	15-18 months	15-18 months	15-18 months
Consultation frequency	Weekly	Monthly	Weekly	Weekly
Moderate side effects (1-10%, few days)	Digestive disorders	Flu syndrome	I NODCTIVA MICARMARC	Digestive disorders, flu syndrome, fatigue
Severe side effects (<1/1 000)	Allergy, infections	Allergy	Allergy, infections, risk of cancer	Allergy, infections
ART interruption: duration, % of success	3-6 months, 5%	3-6 months, 5%	6-12 months, 10%	6-12 months, 10%

Utilities associated with the 4 specific strategies



Summary of the APSEC results: some concordances

- Importance of altruistic benefits (participating to HIV research / advances for future generations)
- Trial outcomes, even if more valuable for physicians, are not the most important attribute
- Severe side effects are the most important attributes for all stakeholders despite the context of innovation
 - ✓ Patients more willing to accept some of the side effects than health professionals "if the physician propose it to me, it means it's good for me" => Trust
- The wish of a regular feedback from the physicians on HCRCT results during the trial

Summary of the APSEC results: some differences

- Risk of transmission and financial incitation are no longer decisive criteria in the decision to participate
- PLWH and physicians do not give the same values to CURE strategies or priorities for some of the trade-off made between attributes
- The declared rate of participation is a function of the qualitative-quantitative approach
 - ✓ Opposition or complementarity?

Concluding remarks

Strengths:

- The sample
 - Physicians having different degree of familiarity with HIV cure research,
 - PLWH meeting the clinical criteria required for future cure trials; men, women, homosexuals, heterosexuals
- The design of the project and the concordance of the results

HIV cure research is included in the social and historical construction of HIV

- => The main motivation for participating is activism spirit
- => The most common decisive criteria is the level of severe side effects



Thank you for your attention!



APSEC

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