

ANRS 0250s-BI-LIGHT

(Information for researchers)

Title

Interventional, multicenter, open-label, randomized, non-comparative trial evaluating the safety, in terms of HBV virological control at 96 weeks, of 2 antiviral treatment relief strategies, in patients co-infected with the HIV-1 and HBV viruses.

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Headings	Content	
In a nutshell	Investigator / Principal investigator : Dr. Julie BOTTERO	
	Structure/teams : ANRS / INSERM U1136 / IMEA	
	Provisional start-up date: last quarter of 2024	
	Estimated completion date: first quarter of 2028	
	Number of participants: 140	
	Status: Waiting for start-up	
	Pathology: HIV/HBV co-infection	
	Sponsorship: ANRS-MIE	
	Funded under: AAP 2022-2	
The project (250 While therapeutic reductions, using dual or sequential therapies, are now wid		
words max)	maintain virological control after prolonged virological undetectability has been achieved with continuous triple therapy in HIV mono-infected individuals, no data are available on the possibilities of of reduced treatment for people co-infected with the HIV and Hepatitis B viruses. The primary objective of this trial is to evaluate the safety, in terms of control of viral	
	hepatitis B, of 2 treatment reduction strategies for patients with HIV-HBV co-infection previously controlled on continuous triple therapy (HIV-1 and HBV viral loads undetectable for ≥ 2 years).	
	 The 2 lightening strategies assessed will be: Reduction of previous triple antiviral therapy (containing TDF or TAF) to 4 consecutive days out of 7 Reduction of previous triple antiviral therapy (containing TDF or TAF) to continuous dual therapy without TDF or TAF but including 3TC in combination with Dolutegravir (DTG) or Darunavir boosted by ritonavir (DRVr) 	
	The trial will be interventional, sequential, Phase IIA equivalent, multicentre, open-label, randomised and non-comparative. It will evaluate, for 96 weeks, the safety in terms of HBV virological control of the 2 strategies for reducing antiviral treatment, in patients coinfected with HIV-1 and HBV, who have previously achieved prolonged virological success.	
Type of study	Interventional, sequential, Phase IIA equivalent, multicentre, open-label, randomised, non-comparative trial evaluating, for 96 weeks, the safety in terms of HBV virological control of 2 strategies for reducing antiviral treatment, in patients co-infected with HIV-1 and HBV viruses, with prolonged virological success (HIV-1 and HBV viral loads undetectable for \geq 2 years) on unmodified antiviral treatment for \geq 1 year, of 2 antiviral treatment strategies.	
Main objectives	The main objective of this trial is to evaluate at 96 weeks the safety with respect to chronic viral hepatitis B control of 2 treatment reduction strategies for patients with previously controlled HIV-HBV co-infection on continuous triple therapy	
Secondary objectives	The following will be assessed:	

HBV virological response at 96 weeks between arms

HBV virological response at 48 weeks



- HIV virological response at 48 and 96 weeks
- Selection of HBV resistance mutations at the time of virological failure
- Predictive factors for virological rebound(s)
- Clinical and biological tolerance
- Participants' quality of life

Contents

A - Study methodology and type of data and/or samples collected

B - How to access the collection

Main inclusion criteria

- HIV-1-HBV co-infection (positive HIV-1 serology associated with 2 positive HBsAg serologies within more than 6 months)
- 2. Age ≥ 18 years
- 3. Fibroscan less than 6 months < 9kPa
- 4. Current daily antiretroviral tritherapy not modified for ≥ 12 months must including tenofovir disoproxil fumarate (TDF) 245mg or tenofovir alafenamide fumarate (TAF -25mg) associated to lamivudine (3TC 300mg) or emtricitabine (FTC 200mg) and a NNRTI or PI/r or INSTI to choose from
 - o NNRTI = efavirenz, rilpivirine, etravirine, doravirine
 - PI/r = atazanavir/r ou darunavir/r
 - INSTI = bictegravir, dolutegravir, elvitegravir/cobicistat, raltegravir
- 5. Absence of documented HBV and HIV genotypic resistance compromising virologic control of any of the maintenance strategies. Patients with no genotypic history may be included)
- 6. HIV CV < 50cp/ml for ≥ 2 years (only 1 annual blip allowed if HIV CV < 200cp/ml and previous and subsequent viral loads are undetectable)
- 7. HBV CV < 10 IU/ml for ≥ 2 years (only 1 annual blip allowed if HBV CV < 200IU/ml and if previous and subsequent viral loads are undetectable)
- 8. Have ≥ 3 available measurements of HIV CV < 50cp/ml and HBV CV < 10 IU/mL over the past 24 months (including that of pre-inclusion)
- 9. CD4 lymphocytes > 250/mm3 at pre-inclusion
- 10. ALT < 3N at pre-inclusion
- 11. For women of childbearing potential, negative pregnancy test and commitment to use effective contraception throughout the trial
- 12. Person affiliated with or benefiting from a social security system
- 13. Free, informed, written consent, signed by the person and the investigator at the latest on the day of inclusion and before any examination carried out as part of the trial (article L1122-1-1 of the Public Health Code)

Main non-inclusion criteria Specific to Research

- 1. HIV-2 infection
- 2. HIV and/or HBV genotype not compatible with dual therapy DTG-3TC or DRVr-3TC.
- 3. HBeAg+.

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- 4. Fibrosis history at stage F3-F4 in pre-therapy evaluated by PBH, fibrotest and/or fibroscan with a value of Elastometry ≥ 9kPa
- 5. Chronic active viral hepatitis C (HCV RNA positive)
- 6. Delta co-infection
- 7. Alcohol consumption > 14 units/week for women and 21 units/week for men
- 8. Current treatment with chemo- or immunotherapy (including interferon or interleukins)
- 9. Active opportunistic infection or acute treatment for opportunistic infection



europsychiatric, etc.) that, in the promise patient compliance and of contraception hip or curatorship.		
The primary endpoint was the proportion of participants with HBV virological failure at 96 weeks. Failure was defined as two successive HBV viral load measurements >10 IU/mL or one HBV viral load measurement above the detection threshold followed by permanent discontinuation of the strategy or follow-up in the trial .		
eks /or HIV viral load) BV viral load blip until S48 and until e time of virological failure ts of grade 3 or higher, incidence of continuation of the strategy at W48 and the CD4/CD8 ratio from W0 to lesterol, LDL-c, HDL-c, triglycerides d W96 elf-questionnaire) at S0, S12, S24, self-questionnaire at S0, S12, S24,		
e.g. 96-week follow-up with follow-up every 4 weeks between S-4 and S24, then follow-up every 12 weeks from S24 to S96.		
betw		

	Biotech libraries	e.g.: plasma between S0 and S96 every 12 weeks
Data and samples collected	Data	e.g. virology and pharmacology

B - How to access the collection

- 1- project submission: via the sample request form on the website
- 2- project assessment: scientific committee and independent experts
- 3- Making the collection available: final decision by the ANRS MIE management and Scientific Council Contact e-mail address for submitting your project: biobanque@anrs.fr