

Sunlenca[®] (lenacapavir)

Optimized Background Regimens in the CAPELLA Study

This document is in response to your request for information regarding Sunlenca[®] (lenacapavir [LEN]) and optimized background regimens (OBR) used in the CAPELLA study.

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Product Labeling¹

Indications and Usage

LEN, in combination with other ARV(s), is indicated for the treatment of HIV-1 infection in HTE adults with multidrug resistant HIV-1 whose current ARV regimen is failing due to resistance, intolerance, or safety considerations.

Clinical Studies

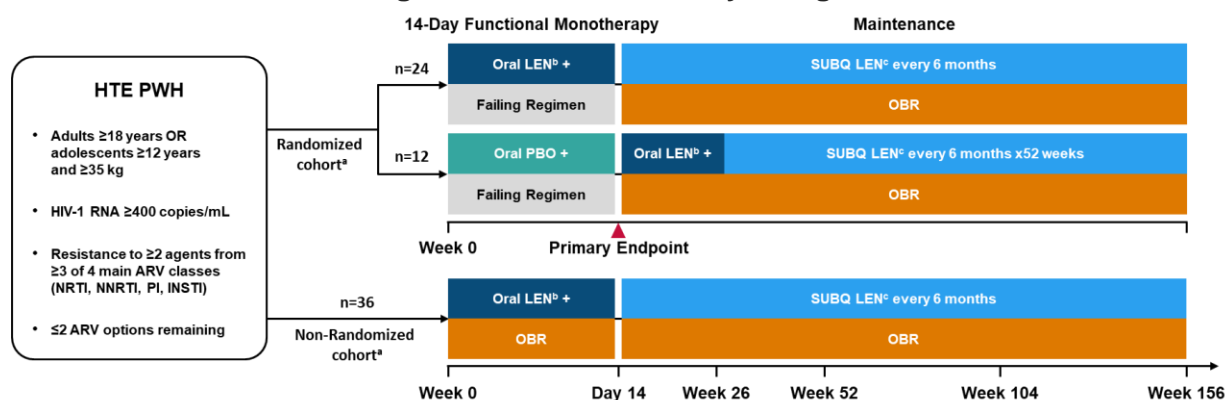
The efficacy and safety of LEN in HTE participants with multidrug resistant HIV-1 is based on 52-week data from CAPELLA, a randomized, placebo-controlled, double-blind, multicenter trial (NCT04150068).

CAPELLA: LEN in HTE PWH

Study Design and Demographics

CAPELLA ([NCT04150068](https://clinicaltrials.gov/ct2/show/study/NCT04150068)) is an ongoing, phase 3, PBO-controlled clinical study designed to evaluate LEN as add-on therapy to a failing regimen in HTE PWH with multidrug resistance. According to the change in the HIV-1 RNA level between the screening and cohort-selection visits, participants were either enrolled in the randomized cohort or the non-randomized cohort. Participants in the randomized cohort were assigned to receive oral LEN or PBO in a 2:1 ratio for 14 days, in addition to continuing their failing regimen. The non-randomized cohort started LEN (2-week oral initiation then SUBQ) with an OBR (Figure 1). Both cohorts are part of the maintenance phase evaluating the safety and efficacy of SUBQ LEN administered every 6 months in combination with an OBR.²

Figure 1. CAPELLA: Study Design^{2,3}



Abbreviations: ATV=atazanavir; c=cobicistat; EFV=efavirenz; NVP=nevirapine; r=ritonavir; TPV=tipranavir.

^aParticipants with <0.5 log₁₀ decline in HIV-1 RNA and HIV-1 RNA ≥400 c/mL were enrolled in the randomized cohort; participants were enrolled in the non-randomized cohort if they had ≥0.5 log₁₀ decline in HIV-1 RNA and/or had HIV-1 RNA <400 c/mL or were enrolled after the randomized cohort was fully recruited.

^bOral LEN dosing schedule: Day 1, 600 mg; Day 2, 600 mg; and Day 8, 300 mg.

^cSUBQ LEN dosing schedule: 927 mg (2 × 1.5 mL) on Day 15 and then every 6 months.

Note: ATV, ATV/c, ATV/r, EFV, ETV, NVP, and TPV were not permitted for use in OBR.

The primary endpoint was the proportion of participants who achieved a ≥0.5-log₁₀ c/mL reduction in HIV-1 RNA from baseline to the end of the functional monotherapy phase in the randomized cohort. Secondary endpoints included the percentage of participants in the randomized cohort with HIV-1 RNA <50 c/mL and <200 c/mL at Week 26.² Baseline characteristics are provided in Table 1.

Table 1. CAPELLA Study: Baseline Demographics and Disease Characteristics^{2a}

Key Demographics and Characteristics		Randomized Cohort		Non-Randomized Cohort	Total (N=72)
		LEN (n=24)	PBO (n=12)	LEN (n=36)	
Age, median (range), years		55 (24–71)	54 (27–59)	49 (23–78)	52 (23–78)
Female at birth, n (%)		7 (29)	3 (25)	8 (22)	18 (25)
HIV RNA viral load ^c	Mean ± SD, log ₁₀ c/mL	3.97±0.92	4.87±0.39	4.06±1.16	4.17±1.03
	Median (range), log ₁₀ c/mL	4.2 (2.3–5.4)	4.9 (4.3–5.3)	4.5 (1.3–5.7)	4.5 (1.3–5.7)
	>100,000 c/mL, n (%)	1 (4)	6 (50)	7 (19)	14 (19)
CD4 count	Mean ± SD, cells/mcL	199±166	85±63	258±273	210±224
	Median (range), cells/mcL	172 (16–827)	85 (6–237)	195 (3–1296)	150 (3–1296)
Known resistance to ≥2 drugs in class, n (%)	NRTI	23 (96)	12 (100)	36 (100)	71 (99)
	NNRTI	22 (92)	12 (100)	36 (100)	70 (97)
	PI	20 (83)	8 (67)	30 (83)	58 (81)
	INSTI	20 (83)	7 (58)	23 (64)	50 (69)
	All four major classes	14 (58)	3 (25)	16 (44)	33 (46)
Resistance to EIs, n/N (%)	MVC	19/24 (79)	8/11 (73)	14/26 (54)	41/61 (67)
	IBA	8/23 (35)	3/10 (30)	6/25 (24)	17/58 (29)
	FTR	5/23 (22)	5/10 (50)	7/21 (33)	17/54 (31)
	T20	2/23 (9)	3/10 (30)	0/25 (0)	5/58 (9)

Abbreviation: CD4=cluster of differentiation 4.

^aPercentages may not equal to 100 due to rounding.

^bRace was reported by the participants. Collection of race or ethnicity data was prohibited by local regulators for 1 participant in the PBO group and was excluded from the denominator of the percentage calculation.

^cTwo participants in the non-randomized cohort had HIV-1 RNA >400 c/mL at screening but <50 c/mL at enrollment.

Twenty-two percent of all participants (16/72) did not have changes in their OBR before they entered the open-label maintenance phase; the ARV classes and agents that comprised the failing regimen and OBR are shown in Table 2.⁴

Table 2. CAPELLA Study: Composition of Failing Regimens and OBR⁵

		Failing Regimen (N=72)	OBR (N=72)
Drug class or agent, %	NRTI	82	85
	INSTI	68	65
	PI	63	63
	NNRTI	31	33
	IBA	19	24
	MVC	14	14
	FTR	6	11
	T20	6	7
Number of fully active ARV agents, 0/1/≥2, %		42/36/22	17/38/46
OSS, ^a median		1	2

Abbreviation: OSS=overall susceptibility score.

^aOSSs were calculated with a proprietary algorithm (Monogram Biosciences Inc.), and investigators provided data for scoring from historical resistance reports. An OSS of 1 indicated full susceptibility, 0.5 indicated partial susceptibility, and 0 indicated no susceptibility. The OSS of the OBR was the total sum of the individual scores.

Individual OBRs for all 72 participants can be found in Table 3.

Table 3. CAPELLA Study: OBRs for Each Participant (N=72)⁶

Part. ID	Drugs in OBR															
	NRTI					NNRTI			PI		INSTI			EI		
1		FTC		TDF										IBA		
2		FTC		TAF						DRV		DTG		IBA	MVC	T20
3		FTC		TAF						DRV		DTG				
4		FTC		TAF		DOR					BIC				MVC	
5		FTC		TAF		DOR				DRV		DTG				
6		FTC		TAF								DTG				
7		FTC	ABC	TAF						DRV		DTG		IBA		
8		FTC		TAF		DOR					BIC			IBA		T20
9								RPV		DRV		DTG				
10		FTC		TAF						DRV				IBA		
11		FTC		TAF						DRV						
12						DOR				DRV						
13	3TC									DRV		DTG			MVC	T20
14		FTC		TAF		DOR					BIC			IBA		
15	3TC							RPV						IBA	MVC	
16		FTC		TAF						DRV						
17		FTC		TAF						DRV						
18		FTC		TAF							BIC			IBA		
19		FTC		TAF							BIC					
20						DOR						DTG				
21		FTC		TAF						DRV		DTG				
22				TDF						DRV		DTG				
23	3TC		ABC									DTG		IBA		
24		FTC		TAF							BIC					
25		FTC	ABC	TDF						DRV						
26		FTC		TAF						DRV		DTG		IBA		
27		FTC		TAF										FTR		

Part. ID	Drugs in OBR																
	NRTI					NNRTI			PI		INSTI			EI			
28		FTC		TAF					DRV	BIC						MVC	
29		FTC		TDF					DRV		DTG						
30	3TC			TDF	AZT				DRV								
31		FTC		TAF		DOR			DRV								T20 ^a
32	3TC										DTG			IBA	MVC		
33		FTC		TAF							DTG		FTR				
34						DOR					DTG						
35		FTC		TAF					DRV		DTG		FTR	IBA			
36				TDF					DRV		DTG						
37				TDF					DRV		DTG						
38		FTC		TAF		DOR				BIC							
39		FTC		TAF		DOR			DRV								
40						DOR					DTG						
41		FTC		TAF				FPV			DTG			IBA			
42		FTC		TDF							DTG						
43		FTC		TDF					DRV		DTG						
44		FTC		TAF						BIC							
45		FTC		TDF					DRV		DTG						
46		FTC		TAF		DOR			DRV					IBA	MVC		
47	3TC			TDF					DRV								
48		FTC		TAF		DOR			DRV								
49		FTC		TAF					DRV								
50									DRV		DTG						
51		FTC		TAF		DOR			DRV				FTR				
52		FTC		TAF					DRV				FTR				
53									DRV							MVC	
54		FTC		TAF		DOR			DRV								
55		FTC		TAF			ETV		DRV		DTG						T20
56						DOR							FTR	IBA			
57		FTC		TAF					DRV		DTG					MVC	
58									DRV		DTG					MVC	T20
59				TDF					DRV		DTG						
60									DRV		DTG			IBA			
61				TDF					DRV		DTG						
62		FTC		TDF							DTG						
63		FTC		TAF						BIC							
64						DOR					DTG						
65		FTC		TDF					DRV								
66		FTC		TAF				RPV			DTG						
67		FTC		TDF					DRV		DTG						
68		FTC		TAF					DRV	BIC	DTG						
69		FTC		TDF				RPV	DRV			RAL					
70	3TC			TDF		DOR											
71		FTC		TDF									FTR	IBA			
72		FTC		TAF		DOR							FTR				
Total use in OBR, n (%)	7 (10)	49 (68)	3 (4)	57 (79)	1 (1)	19 (26)	1 (1)	4 (6)	1 (1)	44 (61)	11 (15)	36 (50)	1 (1)	8 (11)	17 (24)	10 (14)	6 (8)

Abbreviations: 3TC=lamivudine; ABC=abacavir; AZT=zidovudine; BIC=bictegravir; DOR=doravirine; DRV=darunavir; DTG=dolutegravir; ID=identification; FPV=fosamprenavir; FTC=emtricitabine; Part.=participant; RAL=raltegravir; RPV=rilpivirine; TAF=tenofovir alafenamide; TDF=tenofovir disoproxil fumarate.

^aParticipant 31 discontinued T20 after 1 week.

References

1. SUNLENCA, Gilead Sciences Inc. SUNLENCA® (lenacapavir) tablets, for oral use. SUNLENCA® (lenacapavir) injection, for subcutaneous use. US Prescribing Information. Foster City, CA.
2. Segal-Maurer S, DeJesus E, Stellbrink HJ, et al. Capsid Inhibition with Lenacapavir in Multidrug-Resistant HIV-1 Infection. *N Engl J Med.* 2022;386(19):1793-1803.
3. Segal-Maurer S, DeJesus E, Stellbrink HJ, et al. Capsid Inhibition with Lenacapavir in Multidrug-Resistant HIV-1 Infection. [Protocol]. *N Engl J Med.* 2022;386(19):1793-1803.
4. Ogbuagu O, Segal-Maurer S, Ratanasuwan W, et al. Efficacy and Safety of Long-Acting Subcutaneous Lenacapavir in Heavily Treatment-Experienced People With Multi-Drug Resistant HIV: Week 52 Results [Oral Presentation 1585]. Paper presented at: Infectious Diseases Society of America ID Week; 19–23 October, 2022; Washington, D.C., US.
5. Stellbrink H, DeJesus E, Segal-Maurer S, et al. Subgroup Efficacy Analyses of Long-Acting Subcutaneous Lenacapavir in Heavily Treatment-Experienced People With HIV in the Phase 2/3 CAPELLA Study [Poster]. Paper presented at: 18th European AIDS Conference (EACS); October 27-30, 2021; London, UK.
6. Margot NA, Naik V, VanderVeen L, et al. Resistance analyses in Highly Treatment-Experienced People with HIV Treated with the Novel Capsid HIV Inhibitor Lenacapavir [Supplementary Tables]. *J Infect Dis.* 2022:1-7.

Abbreviations

ARV=antiretroviral
c/mL=copies per mL
EI=entry inhibitor
ETV=etravirine
FTR=fostemsavir
HTE=heavily
treatment-experienced
IBA=ibalizumab

INSTI=integrase strand
transfer inhibitor
LEN=lenacapavir
MVC=maraviroc
NNRTI=non-nucleos(t)ide
reverse transcriptase
inhibitor
NRTI=nucleos(t)ide reverse
transcriptase inhibitor

OBR=optimized background
regimen
PBO=placebo
PI=protease inhibitor
PWH=people with HIV
SUBQ=subcutaneous(ly)
T20=enfuvirtide

Product Label

For the full indication, important safety information, and boxed warning(s), please refer to the Sunlenca US Prescribing Information available at:

www.gilead.com/-/media/files/pdfs/medicines/hiv/sunlenca/sunlenca_pi.

Follow-Up

For any additional questions, please contact Gilead Medical Information at:

☎ 1-866-MEDI-GSI (1-866-633-4474) or 🌐 www.askgileadmedical.com

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Gilead Pharmacovigilance and Epidemiology ☎ 1-800-445-3235, option 3 or

🌐 <https://www.gilead.com/utility/contact/report-an-adverse-event>

FDA MedWatch Program by ☎ 1-800-FDA-1088 or ✉ MedWatch, FDA, 5600 Fishers Ln, Rockville, MD 20852 or 🌐 www.accessdata.fda.gov/scripts/medwatch

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