

# 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 Labeling<sup>1</sup>

### 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).

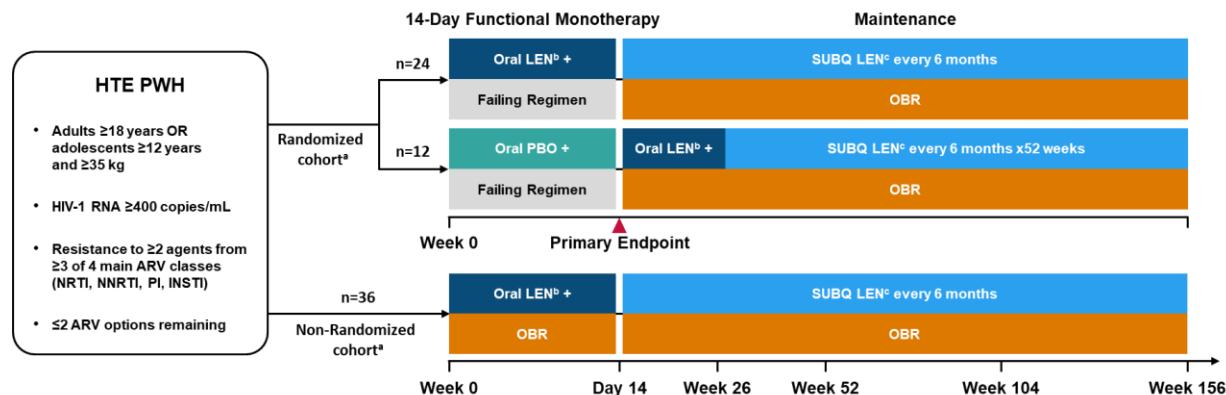
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## CAPELLA: LEN in HTE PWH

### Study Design and Demographics

CAPELLA ([NCT04150068](https://clinicaltrials.gov/ct2/show/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.<sup>2</sup>

### Figure 1. CAPELLA: Study Design<sup>2,3</sup>



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

<sup>a</sup>Participants with <0.5 log<sub>10</sub> 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 log<sub>10</sub> decline in HIV-1 RNA and/or had HIV-1 RNA <400 c/mL or were enrolled after the randomized cohort was fully recruited.

<sup>b</sup>Oral LEN dosing schedule: Day 1, 600 mg; Day 2, 600 mg; and Day 8, 300 mg.

<sup>c</sup>SUBQ 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-log<sub>10</sub> 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.<sup>2</sup> Baseline characteristics are provided in Table 1.

Table 1. CAPELLA Study: Baseline Demographics and Disease Characteristics<sup>2a</sup>

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 <sup>c</sup>	Mean ± SD, log <sub>10</sub> c/mL	3.97±0.92	4.87±0.39	4.06±1.16	4.17±1.03
	Median (range), log <sub>10</sub> 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.

<sup>a</sup>Percentages may not equal to 100 due to rounding.

<sup>b</sup>Race 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.

<sup>c</sup>Two 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.<sup>4</sup>

**Table 2. CAPELLA Study: Composition of Failing Regimens and OBR<sup>5</sup>**

		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, <sup>a</sup> median		1	2

Abbreviation: OSS=overall susceptibility score.

<sup>a</sup>OSSs 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)<sup>6</sup>**

Part. ID	Drugs in OBR							
	NRTI		NNRTI		PI	INSTI	EI	
1	FTC		TDF					IBA
2	FTC		TAF		DRV	DTG	IBA	MVC
3	FTC		TAF		DRV	DTG		T20
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 <sup>a</sup>	
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.

<sup>a</sup>Participant 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, Ratanasawan 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.
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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.

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## 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

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## 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](http://www.gilead.com/-/media/files/pdfs/medicines/hiv/sunlenca/sunlenca_pi).

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✉ <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](http://www.accessdata.fda.gov/scripts/medwatch)

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