

POSTCR012021

Una actualización de la 28ª Conference on Retroviruses and Opportunistic Infections

Nuevos fármacos, enfoques terapéuticos y PrEP

Arkaitz Imaz Hospital Universitari de Bellvitge









POSTCROI 2021

Nuevos fármacos antirretrovirales en desarrollo

- Nuevos Ensayos Clínicos con fármacos antirretrovirales ya comercializados
- Nuevos fármacos y estrategia de PrEP

Lenacapavir (LEN): Novel, First-in-class HIV Capsid Inhibitor POSTCROI2021 Highly Potent and Long-acting



Study Design





*Oral LEN administered as 600 mg on Days 1 and 2, 300 mg on Day 8; SC LEN administered as 927 mg (2 x 1.5 mL) in the abdomen on Day 15. OBR, optimized background regimen (investigational agents, such as fostemsavir, were allowed; ATV, ATV/co, ATV/r, EFV, ETV, NVP, TPV were not allowed). 6

Segal-Maurer, S. et al. CROI 2021. Virtual. Abstract 127.

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Baseline Characteristics



	Randomized		Nonrandomized		
	LEN n=24	Placebo n=12	LEN n=36	Total N=72	
Age, median (range), years	55 (24 – 71)	54 (27 – 59)	49 (23 – 78)	52 (23 – 78)	5
Sex, % female at birth	29	25	22	25	
Race, % Black	42	55	31	38	
Ethnicity, % Hispanic or Latinx	25	36	14	21	
HIV-1 RNA, median (range), log ₁₀ copies/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)	
>75,000 copies/mL, %	17	50	28	28	
CD4 count, median (range), cells/µL	172 (16 – 827)	85 (6 – 237)	195 (3 – 1296)	150 (3 – 1296)	
≤200 cells/µL, %	67	92	53	64	/
Number of prior ARV agents, median (range)	9 (2 – 24)	9 (3 – 22)	13 (3 – 25)	11 (2 – 25)	
Years since HIV diagnosis, median (range)	27 (13 – 39)	26 (14 – 35)	23 (9 - 44)	24 (9-44)	
Prior ARV class exposure, %					
NRTI	96	92	97	96	
NNRTI	92	83	92	90	
PI	88	75	94	89	
INSTI	100	92	83	90	

Segal-Maurer, S. et al. CROI 2021. Virtual. Abstract 127.

Antiviral Activity during Functional Monotherapy



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Participants with HIV-1 RNA <50 copies/mL (M=F): To date (Feb2021) in those who received SC LEN (n=72)



*Denominators are those who received ≥1 dose of SC LEN and have available HIV-1 RNA at time of data cut, while study is still ongoing; D1 SC, the first day SC LEN was administered; 2 participants in Cohort 2 (nonrandomized cohort) had HIV-1 RNA <50 copies/mL on Day 1 but also >0.5 log reduction prior to Day 1 (presumably due to improved adherence).

Participant	Fully active agents in OBR*	At Prior Visits while on LEN	Emergent Capsid Mutations	At Subsequent Visits while on LEN
#1	None	Suppressed	M66I, N74D (at Wk10: 2870 copies/mL)	Resuppressed with change in OBR
#2	DRV/COBI, DTG, RPV	Suppressed	M66I (at Wk26: 561 copies/mL)	Resuppressed with <u>no</u> change in OBR

- Among 72 heavily treatment-experienced participants with multidrug resistance and failing therapy at baseline who received SC LEN, 2 had emergent capsid mutations
 - The mutations conferred high level LEN resistance: >884 and 138 fold-change in EC₅₀ (vs WT)
 - M66I mutation significantly impairs viral replication (1.5% replication capacity vs WT)
 - See oral presentation 1781: VanderVeen et al for additional information
- Further analyses are ongoing

*Other agents in the OBR:

- For participant #1: MVC, T20, DTG BID, DRV/COBI, 3TC.
- For participant #2: F/TAF; DRV/COBI and DTG were dosed BID.

Injection Site Reactions to SC LEN: Incidence





*Total n of participants on study or last study date in 2-week interval; only includes AE related to LEN and excludes those not related to it (e.g, T20).

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LEN Resistance Mutations Are Associated with Reduced Viral Fitness

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PhenoSense Gag-Pro (Single-cycle) vs. CD4+ T cell (Multi-cycle)



MC, multi-cycle; ND, not determined; SC, single cycle.

a. Ratio of Mutant/WT EC₅₀, determined with SC reporter HIV-1 in PhenoSense Gag-Pro assay.

b. Percentage of reference strain, determined with SC reporter HIV-1 in PhenoSense Gag-Pro assay.

1. Link, Nature 2020; Yant, IAS 2019. Gag-Pro: overlapping data with CD4+ T cell MC assay available for 3 of 9 mutants.

Strong CYP3A/P-gp Inhibition Increased LEN Exposure by ~ 2-fold



- ♦ Similar fold increase (2.3x [1.8 2.9x]) after COBI coadministration
- Deemed not clinically relevant based on available safety data
- LEN can be co-administered with strong CYP3A/P-gp inhibitors, such as DRV/COBI

EEV (moderate inducer) results pending

*Cmax increase was comparable



LEN is a Moderate Inhibitor of CYP3A: 3.3x (3.1–3.6x) Increase in MDZ AUC



85% Decrease in LEN AUC by Strong CYP3A/P-gp/UGT Induction



GSK'254 Proposed Mechanism of Action^{1,2}



Figure adapted from Lataillade et al. Conceptualization of HIV-1 maturation inhibition, and design of the mode of action of GSK3532795. In: 22nd CROI; February 22-26, 2015; Seattle, WA. Oral presentation 114LB. **1.** Adamson et al. *Expert Opin Ther Targets*. 2009;13:895-908. **2.** Hwang et al. *Clin Infect Dis*. 2017;65:442-452.

VIIV

Study Design: Double-blind (Sponsor-Unblinded), Randomized, POSTCROI2021 Placebo-Controlled, Adaptive Study in ART-Naive Adults



Primary endpoint: maximum change from Day 1 in plasma HIV-1 RNA during parts 1 and 2

^aParticipants attended 1 follow-up visit during Days 11-17 and started combination ART after the final follow-up visit during Days 18-24.

^bTo determine whether to proceed to part 2. Treatment-emergent resistance-associated mutations were noted in the 200-mg group in part 1. Thus, the sponsor temporarily halted the study and conducted resistance analyses. A subsequent protocol amendment decreased monotherapy from 10 to 7 days in part 2 to reduce potential for treatment-emergent resistance mutations.

Participants started combination ART at the follow-up visit on Day 8 and attended a final follow-up visit during Days 10-12.

ViiV

Plasma HIV-1 RNA Decreased With All GSK'254 Doses in Parts 1 and 2



	Part 1 (Day 11)			Part 2 (Day 8)			
Plasma HIV-1 RNA change from baseline, mean (SD), log ₁₀ c/mL	GSK'254 10 mg (n=6)	GSK'254 200 mg (n=6)	Placebo (n=2)	GSK'254 40 mg (n=6)	GSK'254 80 mg (n=6)	GSK'254 140 mg (n=6)	Placebo (n=2)
Primary endpoint	-0.22 (0.309)	-1.96 (0.337)	0.14 (0.134)	-1.18 (0.436)	-1.02 (0.330)	-1.45 (0.235)	0.15 (0.226)
Maximum change	-0.36 (0.252)	-2.01 (0.329)	-0.21 (0.262)	-1.18 (0.436)	-1.02 (0.330)	-1.49 (0.267)	-0.03 (0.127)

VIIV



GSK'254 PK Results

VIIV



• Mean GSK'254 concentrations were above the clinical efficacy target of 110 ng/mL^c for the 40- to 200-mg GSK'254 doses

^aOne participant in the 10-mg group had a predose concentration that was inconsistent with the expected PK profile. One participant in the 200-mg group was excluded from PK analysis due to vomiting postdose <1 × tmax. ^bSteady state was measured at Days 8-9 in part 1 and Day 7 in part 2. ^cValue for which ≥95% of participants in a phase IIb study are projected to reach target trough concentrations.

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GSK'254 PK Results

ViiV



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ISL/MK-8507 oral QW phase 2 dose-ranging study – dose selection framework



ISL 20 mg QW provides forgiveness for a missed/late dose



Orange line and shaded region: median (95% Prediction Interval) for 20 mg QW

MK-8507: Doses ≥100 mg QW achieve target C_{trough}



in-vitro IC50



NCT04564547



ATLAS-2M Week 96: Study Design

Phase 3b, randomized, multicenter, parallel-group, noninferiority, open-label study



- The primary endpoint was the proportion of participants with plasma HIV-1 RNA ≥50 c/mL at Week 48 (Snapshot, ITT-E)
- Secondary endpoints included the proportion of participants with plasma HIV-1 RNA ≥50 or <50 c/mL at Week 96 (Snapshot, ITT-E)
- Other endpoints assessed at Week 96 included the incidence of CVF (two consecutive plasma HIV-1 RNA levels ≥200 c/mL), incidence of viral resistance in participants with CVF, and safety and tolerability

*ITT-E population. †Randomization was stratified by prior exposure to CAB + RPV (0 weeks, 1–24 weeks, >24 weeks). ‡Excluding participants with prior CAB + RPV exposure in ATLAS. For further study design details, please see Overton et al. CROI 2020; Boston, MA. Presentation 3334.¹

CAB, cabotegravir; CVF, confirmed virologic failure; ITT-E, intention-to-treat exposed; LA, long-acting; Q4W, every 4 weeks; Q8W, every 8 weeks; R, randomized; RPV, rilpivirine; SoC, standard of care; W, week. Overton ET, et al. Conference on Retroviruses and Opportunistic Infections 2020; Boston, MA; March 8–11, 2020. Presentation 3334. Available from: www.croiwebcasts.org/p/2020croi/croi/34

ATLAS-2M Week 96: Virologic Snapshot Outcomes for ITT-E: POSTCROI2021 CAB + RPV LA Continued to Maintain High Levels of Viral Suppression



*Based on CMH stratified analysis adjusting for the following baseline stratification factor: prior exposure to CAB + RPV (0 weeks, 1–24 weeks, >24 weeks). CAB, cabotegravir; CI, confidence interval; CMH, Cochran–Mantel–Haenszel; ITT-E, intention-to-treat exposed; LA, long-acting; NI, noninferiority; Q4W, every 4 weeks; Q8W, every 8 weeks; RPV, rilpivirine.

2

Difference (%)

-2

-4

-10

-8

8

10

Jaeger et al. CROI 2021; Virtual. Science Spotlight 1753.

D/C/F/TAF vs DTG/ABC/3TC FOR INITIAL TREATMENT IN HIV+ ADULTS: A RANDOMIZED STUDY

		D/C/FTC/TAF (n=151)	DTG/ABC/3TC (n=155)	
Median a	ge, years	34 (27-41)	36 (31-43)	
Gender (m	ale) (n, %)	146 (97%)	142 (92%)	
	MSM	127 (84%)	115 (74%)	
Pick practice (p. %)	Heterosexuals	16 (11%)	31 (20%)	
Risk practice (II, %)	Intravenous drug use	2 (1%)	2 (1%)	
	Others Unknown	6 (4%)	7 (4%)	
AIDS (opportunist	ic diseases) (n, %)	0 (0%)	0 (0%)	
Median CD4+ cell count (x10E6/µL)		420 (286-608)	383 (247-569)	
	<200 /µL	17 (11%)	22 (14%)	
CD4+ cell count (n, %)	200-350 /µL	40 (26%)	44 (28%)	
	>350 /µL	94 (62%)	89 (57%)	
Median HIV-1 RNA (copies/mL)		63096 (13534- 233000)	65900 (24786- 212000)	
HIV-1 RNA	<100000 c/mL	91 (60%)	93 (60%)	
concentration (n, %)	≥100000 c/mL	60 (40%)	62 (40%)	
Hepatitis C virus infection (n, %)		5 (3%)	5 (3%)	
Median w	eight (kg)	72.95 (64-79.97)	72.75 (64.5-80)	
Median Body Mass Index (kg/m²)		23.78 (21.77-26.3)	23.81 (22.04- 26.08)	

Podzamczer D, et al. CROI 2021 Virtual. Abstract 413. Science Spotlight

SYMTRI Study





DOLUTEGRAVIR VS. DARUNAVIR/r-BASED ART IN VERY ADVANZED PATIENTS: 48-WEEK RESULTS

The objective was to study the immune reconstitution in very immunosuppressed antiretroviralnaive, HIV-1–infected individuals by comparing a DTG-based regimen with a Darunavir/ritonavir (DRV/r)-boosted protease inhibitor regimen.

- To assess the impact of these ART regimens on bacterial translocation, inflammation and immune activation in antiretroviral-naïve individuals with very advanced HIV-1-infection.
 - The Advanz-4 trial (NCT02337322) is a multicenter RCT with 104 HIV-1-infected ART-naïve patients with <100 CD4+ cells/mm3 randomly assigned 1:1 to DTG (N=52) or DRV/r (N=52) plus abacavir and lamivudine at standard doses.
 - The primary end point was median increase in CD4 cell count at week 48. Secondary end points were the proportion of patients with plasma HIV-1 RNA viral load (VL) <50 copies/mm3, bacterial translocation, inflammation, immune activation, adverse events, IRIS, HIV disease progression and death.



Results (II): mITT analysis

Dolutegravir	Darunavir/rtv	p-value
N=52	N=49	
40 (30;48)	41 (34;46)	NA*
44 (87)	46 (88.5)	
31 (60)	25 (51)	
22 (42)	24 (46)	
5.47 (4.79;6.10)	5.67 (5.14;6.12)	
41 (18; 67)	30 (11; 54)	
172.50 (118; 255)	157 (66; 277)	0.430
40 (77)	31 (63)	0.191
5 (10)	6 (12)	0.911
4 (8)	6 (12)	0.666
4 (8)	12 (24.5%)	0.029

•	Age, yr	., median	(IQR)
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- Male gender, n (%)
- Men who have sex with men (MSM), n (%)
- Baseline AIDS-defining events (ADE), n (%)
- Baseline RNA HIV VL, median (IQR) log10/mL
- Baseline CD4, median (IQR) cells/mm³
- 48-wk CD4 increase (median delta, IQR)
- 48-wk RNA HIV VL <50 copies/ml, n (%)
- IRIS, n (%)
- New ADEs/death, n (%)
- Treatment discontinuation (any reason), n (%)**

Results (III): mITT analysis



Miró JM, et al. CROI 2021 Virtual. Abstract 412. Science Spotlight

- Median (IQR) increase in the CD4 count after 48 weeks by mITT analysis was +172 (118; 255) and 157 (66; 277) cells/mm³ in the DTG and DRV/r arms, respectively (p=0.430).
- Plasma HIV-1 RNA VL suppression (<50 copies/ml) was significatively faster in the DTG arm at 4 and 12 weeks. At 48 weeks, the rate of suppressed patients by mITT analysis was similar (77% vs. 63%; p=0.191).
- Inflammation (TNF-alpha, IL-6, hsCRP), immune activation (CD8+CD38+ T cells, CD8+CD38+DR+) and apoptotic (annexin-V) markers were similar at baseline and declined significantly and similarly in both ART arms (P>0.05 for all comparisons).
- A greater reduction in bacterial translocation (srCD14) marker in patients treated with DTG was found (-802 [-1302; -398] vs. -396 [-924, 0.00] ng/mL; p=0.011).

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ODYSSEY

- International multi-centre, randomised 96-week noninferiority trial
- Aim: compare efficacy and safety of Dolutegravir (DTG) with standard-of-care across different settings in children starting first- or second-line ART
- Main trial: children ≥14 kg
- Sample size assumptions
 - Total ODYSSEY population (A & B): N \geq 700
 - Failure 18%, 10% Non-inferiority (NI) margin
 - 10% LTFU, 90% power, 5% two-sided α <u>ODYSSEY A: N ≥310 children</u>
 - Failure 15%, 12% NI
 ODYSSEY B: N ≥390 children
 - Failure 20% 12% NI For each of A and B: 80% power





SOC= standard of care



Population at baseline (n=707)

Characteristics

- Age, median [range]: 12.2 years [2.9-18]
- 49% female
- 27% WHO stage 3/4
- 22% CD4 <200 cells/mm³
- 88% African

Baseline ART in ODYSSEY from randomisation

	DTG		SOC	
	ODYSSEY A	ODYSSEY B	ODYSSEY A	ODYSSEY B
3 rd agent	DTG	DTG	92% EFV	72% LPVr 25% ATVr
NRTI	82% ABC+3TC	54% ABC+3TC	78% ABC+3TC	55% ABC+3TC
	18% TDF+XTC	27% TDF+XTC	20% TDF+XTC	26% TDF+XTC
		19% ZDV+3TC		19% ZDV+3TC







Per protocol analysis over 96 weeks



No significant difference in treatment effects by sex, weight, age, stratification factors, baseline VL or baseline CD4

Penta ^{\$} Excluding all patients who did not meet eligibility criteria & censoring follow-up in both arms for switch to 3rd agent for protocol deviation, toxicity or pregnancy, or stop of ART for >31 days

Turkova A, et al. CROI 2021 Virtual. Abstract 174.





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R Matthews CROI 2021

Islatravir implants

- Islatravir implant uses Nexplanon[®] applicator
 - Nexplanon[®] is an implantable contraceptive placed subdermally





- Initial trial (P007) with prototype implants had encouraging results¹
 - Prototype implants (polymer and ISL only)
 - 12 weeks of placement, double-blind placebo-controlled trial of 54 mg and 62 mg implants in low-risk HIV-negative participants
 - Implants generally well tolerated, with higher dose implant (62 mg) projected to have sufficient ISL-TP levels for at least a year

- Next generation implants (P008) are radiopaque
- Contain additional excipients that facilitate manufacture
- Release rate dynamics of ISL from the next generation implants are different than those of the implants in the initial trial
 - 62 mg P007 implant ≈ 56 mg P008 implant
 - 54 mg P007 implant ≈ 48 mg P008 implant
- In the current study (P008), next generation radiopaque islatravir implants were evaluated for tolerability and PK relative to a threshold level

¹Matthews RP et al. IAS 2019



R Matthews CROI 2021

Protocol 008 Phase 1 next-generation implant study design

- · Double-blind, placebo-controlled multisite trial in low-risk HIV-negative men and women
 - Panel A: 48 mg
 - Panel B: 52 mg
 - Panel C: 56 mg
- Twelve (8 + 4 design) per panel
- Subdermal placement in upper arm of nondominant hand
- Implant in place 12 weeks, followed by 8 weeks postremoval
- PK (plasma and PBMC), ECGs, vital signs, safety labs collected throughout



Intracellular ISL-TP PK threshold of 0.05 pmol/10⁶ cells maintained throughout placement for two highest doses

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56 mg implant ISL-TP concentrations comparable to 62 mg from previous study

Half-life after removal of implant similar to half-life of orally dosed ISL (t_{1/2} for 56 mg is ~198 hr)

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56 mg implant projected to lead to concentrations above threshold for 52 weeks



 56 mg implant projected to release adequate ISL-TP (above the PK threshold) for almost all individuals for >52 weeks

Mathews RP, et al. CROI 2021 Virtual. Abstract 88.



R Matthews CROI 2021

Safety Summary Generally Mild Local Tolerability Effects

- Review of implant site adverse events (AEs) suggests that implants were generally well tolerated
 - 22/36 (61%) participants reported at least 1 implant site AE (not including hematoma)
 - All AEs were mild or moderate in severity
 - No serious AEs and no discontinuations due to an AE
 - Types of AEs observed consistent with those observed with other implants

	Number (percent) of individuals reporting AE during study N=8 active/dose, 12 PBO (placebo; mod=moderate)				
	PBO	48 mg	52 mg	56 mg	
TOTAL	6 (50)	6 (75)	4 (50)	6 (75)	
Erythema	3 (25)	4 (50) 2/4 mod	2 (25)	4 (50) 1/4 mod	
Tenderness/pain	4 (33)	2 (25)	4 (50)	4 (50)	
Pruritis	3 (25)	5 (63) 1/5 mod	2 (25)	6 (75)	
Induration	2 (17)	4 (50)	4 (50)	4 (50)	

- No clear relationship between dose and AE frequency/severity
- Most common AE not related to implant was headache, with no clear dose relationship
- No effects on laboratory studies, ECGs, vital signs Mathews RP, et al. CROI 2021 Virtual. Abstract 88.



M Patel CROI 2021

Monthly oral dose of ISL 60 mg is expected to maintain systemic ISL-TP concentrations above the PK threshold



1. Sharon Hillier et al, HIVR4P 2021, OA04.05LB

Note: Shaded area represents 95% Prediction Interval (N=1000); Solid line represent the population PK model predicted median concentration; Blue filled circles represent mean of Protocol 016 interim observed data; Blue error bars represent standard deviation of Protocol 016 interim observed data; Previously built Population PK model of ISL was leveraged for population PK simulations (CROI 2020, Abstract 462)

GS-CA1 Protects from Repeat Intrarectal SHIV Challenges



- 100% infection of placebo controls within 15 challenges
- Significant infection risk reduction with GS-CA1 vs placebo (86% and 96% for low- and high-dose groups, respectively)
- Infections in GS-CA1-dosed groups occurred only after marked compound washout (9+ weeks post dose*)

CI, confidence interval. *Assumes 2-week infection-detection window.

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Protection Correlates with GS-CA1 Exposure



Main conclusions:

- Single GS-CA1 dose achieved long-acting exposure (>IQ1 for 2-4 months) in macaques
- Mean IQ at time of infection was 1* (0.41-1.5 range)
- Complete protection from infection observed with GS-CA1 exposures above IQ1.5 (1.5x paEC95)
- GS-CA1 preclinical data support clinical evaluation of capsid inhibitors for HIV prevention



IQ, inhibitory quotient (protein-adjusted 95% effective concentration). LOD, limit of detection. *Assumes 2-week infection-detection window.



Accumulation of TFV, TFV-DP, and EVG in rectal fluids and tissue after single dose insert administration





N Makarova, et al. CROI 2021 Virtual. Abstract 715. Science Spotlight



High efficacy of weekly oral TAF against SHIV vaginal infection

100 Percent uninfected 80-13.7 mg/kg Oral TAF (n=6) 60· 27.4 mg/kg Oral TAF (n=6) Controls (n=10) 40-20-0 2 8 10 12 0 4 Challenges Efficacy = 92.1% [95%CI=39.6%, 99.0%] Efficacy = 92.3% [95%CI=41.4%, 99.0%]

Survival

TFV-DP in PBMCs

Study arm	TFV-DP at day 3 (fmols/10 ⁶ cells)	TFV-DP at day 6 (fmols/10 ⁶ cells)	TFV-DP in breakthrough infection (fmols/10 ⁶ cells)
27.4 mg/kg	6,095	3,290	405
13.7 mg/kg	3,454	1,321	3,457

Low TFV exposures in plasma

Study arm	TFV at day 3 (ng/ml)	TFV-DP at day 6 (ng/ml)
27.4 mg/kg	12.6 [BLOD-72.1]	BLOD [BLOD-10.9]
13.7 mg/kg	BLOD	BLOD

I Massud, et al. CROI 2021 Virtual. Abstract 714. Science Spotlight











CI, confidence interval



HIV testing

Back-testing



CAB arm: All visits **TDF/FTC arm:** Enrollment, weeks 2, 4, 5



CAB arm: Enrollment plus three visits prior to the first RNA pos visit **TDF/FTC arm:** Enrollment plus one visit prior to the first RNA pos visit

HIV genotyping (VL >500 c/mL)

CAB arm

• All study visits

TDF/FTC arm

- First HIV positive visit
- First site positive visit

Pharmacology testing

CAB concentrations

CAB arm

Plasma [CAB]: all study visits Plasma [TFV]: baseline infections, step 3 infections DBS [TFV-DP]: step 3 infections

TDF/FTC concentrations

Plasma [TFV]: first site pos, first HIV pos, 3 prior visits DBS [TFV-DP]: first site pos,1 prior visit

Ab If Ag/Ab test reactive

VL

If qualitative RNA test reactive



Selected cases/visits





13 Incident, 4 baseline Infections: Cabotegravir











Landovitz R, et al. CROI 2021 Virtual. Abstract 153.



Agradecimientos:

Imma Clotet Raphael Landovitz Daniel Podzamczer Marta Rosell Eva Xicola

¡MUCHAS GRACIAS!

aimaz@bellvitgehospital.cat





web http://www.vihhub.cat





Unitat_vihmts@bellvitgehospital.cat