

Top 10 CROI 2024 Denver



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Servei Malalties Infeccioses
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Homenaje Dr. Llibre

- 2023: 18º Top Ten (TT)



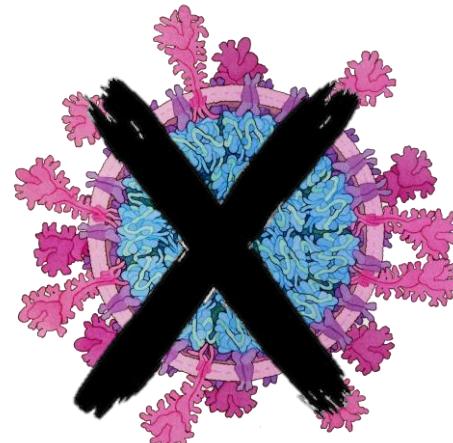
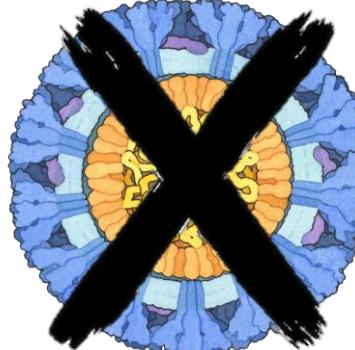
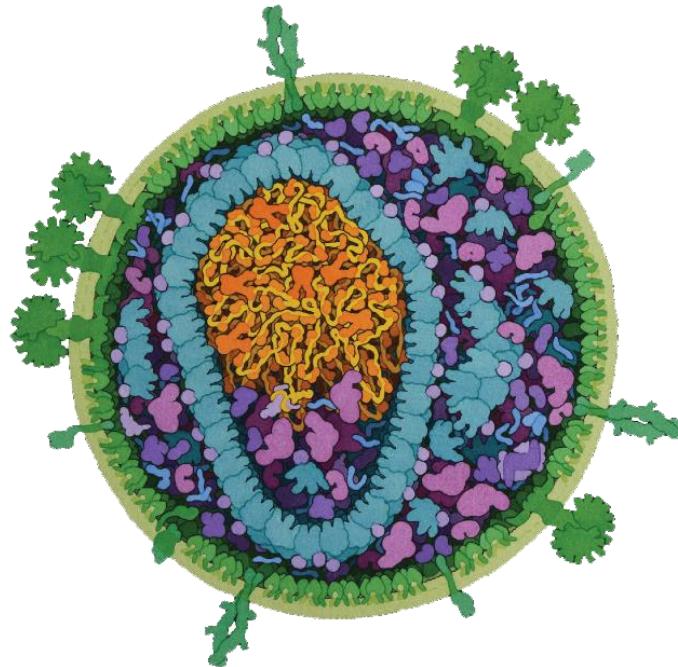
<https://forbes.es/actualidad/154602/quien-es-quien-en-la-investigacion-contra-el-vih/>

Denver, Colorado

- 2º CROI, previo en 2006



Disclaimer



Watercolors by Dr David Goodsell Scripps Research Institute
<https://www.croiconference.org/illustrations-viruses/>

Plenary-03 | Wednesday Plenary Session

8:30 AM - 9:30 AM • Bellco Theatre

CME



40 | Diagnostics 4.0: The Future of Diagnostics for HIV and Related Infections



Nitika P. Pai, McGill University, Montreal, Canada

#1. Together Take Me Home (#200LB)

Together Take Me Home (TTMH)

- In March 2023, CDC's *Let's Stop HIV Together* campaign, partnered with Emory, BHOC, NASTAD, Orasure and Signal
- The initial goal was a web-based platform to distribute at least 200K free HIV self-tests each year for 5 years
- Eligibility
 - ✓ 17 years or older
 - ✓ Living in the US including Puerto Rico
- Individuals can order up to 2 kits every 90 days
- People who are taking PrEP or ART encouraged to share the test instead of using it themselves



TTMH: Campaign Strategies

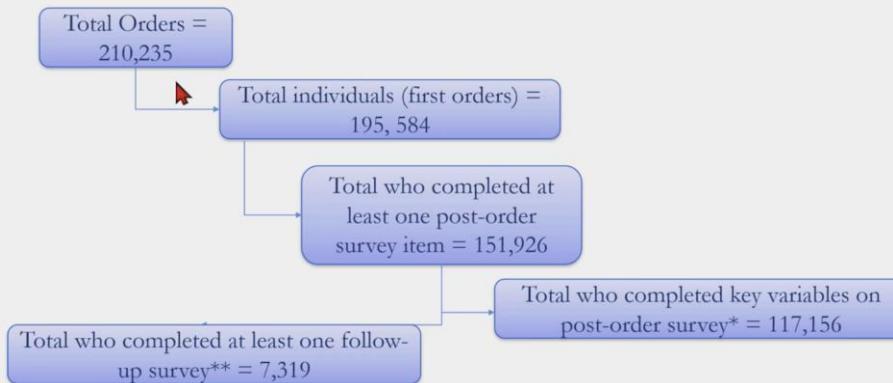
- CDC developed a marketing plan to reach priority audiences in jurisdictions that are the focus of the Ending the HIV Epidemic (EHE) initiative
- Priority audiences for the first year of the program
 - Black and Latino gay, bisexual and other men who have sex with men
 - Transgender women of all races/ethnicities
 - Cisgender Black women
- Paid and organic outreach strategies on social and digital platforms, as well as on the ground activities with partners
 - BHOC partnered with apps to promote the program including direct links to the program from within apps as well as free ad placements



Together TakeMeHome: User Experience



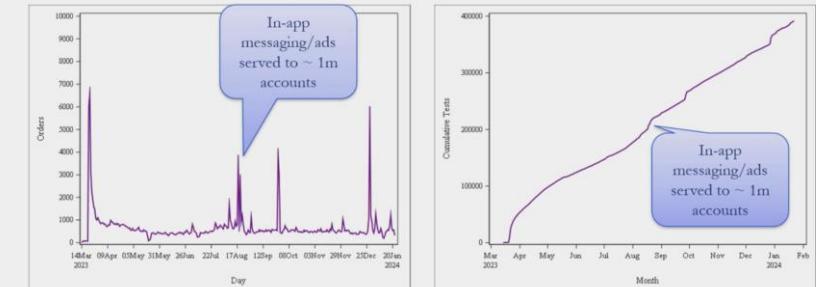
HIV self-test orders & surveys initiated by 1/22/2024



*Race, Ethnicity, Current Gender, sex of sex partners

**Surveys are sent at 10 days and 60 days after the order is placed

Together TakeMeHome Daily and Cumulative HIVST orders since Launch



Demographics – 151,926 unique individuals*

- 52% <35 years old
 - 7% over 55 years old
- 80% Male, 19% Female, <1% intersex
- 35% White NH, 31% Hispanic/Latino (any race), 24% Black NH
- Current Gender Identities were diverse
 - 74% man
 - 18% Woman
 - 2.6% Transgender Woman, Transfeminine
 - 1.4% Transgender man, Transmasculine
 - 5.3% Other non-binary, genderqueer, or gender fluid

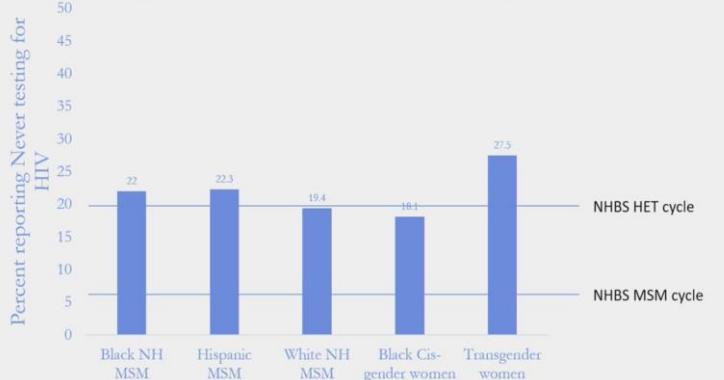
Populations served by TTMH, N=195,584*

Population	Overall N (%)	Of those with sufficient information N (%)
Key Populations (MSM, BW, TGW)	84,452 (43.2%)	84,452 (72.1%)
Other Populations	32,704 (16.7%)	32,704 (27.9%)
Insufficient information to categorize**	34,770 (17.1%)	
No Information***	43,658 (22.3%)	

Among those who completed a follow-up survey (N=7,319*)

- 90.4% had used at least one of their tests (by time of survey)
- 27.7% had shared at least one test with someone else
- 630 (8.6%) reported STI testing after receiving their test
- 396 (5.4%) reported starting PrEP after receiving their test
- 176 (2.8%) reported at least one reactive self-test

Proportion of Priority populations reporting never testing for HIV before ordering a self-test



Proportion* reporting at least one positive HIV self-test





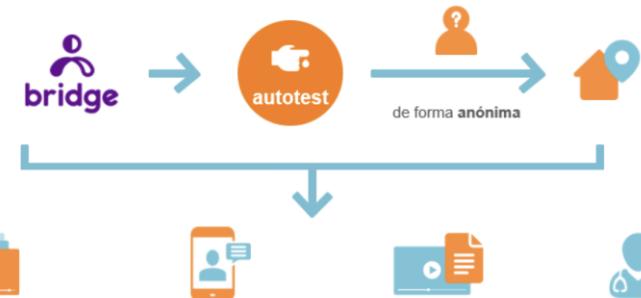

testate

Proves online
de VIH i altres ITS



www.testate.org


bridge



Videos para realizar
el test correctamente

Información y seguimiento
con la asistente virtual
Bridget mediante IA

Información pre,
durante y post test

Contacto con los
profesionales sanitarios

#2. bNAbs

Oral Abstract Session-03 | Clinical Trials of Novel Antiretroviral Therapies 10:00 AM - 12:00 PM • Mile High Ballroom 1-2-3

Introductions (Part 1)

- 115** Single Dose Administration of MK-8527, a Novel nRTT1, in Adults With HIV-1
10:05 AM

Russ P. Carstens, Yash Kapoor, Ryan Vargo, Arinjita Bhattacharya, Graigory Garrett, Jean-Francois Denef, Kemira Naidoo, Liliana Pretescu, Richard Kaplan, Mohammed Rassool, Johannes Lombard, Randolph P. Matthews, S. Aubrey Stoch, Marnen Iwamoto, Gillian Gillespie

- 116** Antiviral Activity, Safety, and Pharmacokinetics of GS-1720: A Novel Weekly Oral InSTI
10:13 AM

Carl J. Fichtenbaum, Mezgebe Berhe, Jose Bordon, Jacob P. Lalezari, Godson Oguchi, Gary Sinclair, Furong Wang, Brie Falkard, Haeyoung Zhang, Eva Mortensen, Jared Baeten, Moti Ramgopal

- 117** VH3810109 (N6LS) in Adults With HIV-1 Who Are ART-Naïve: Phase IIa BANNER Efficacy Data
10:21 AM

Peter Leone, Alejandro Ferro, Sergio Lupo, Joseph McGowan, Paul Benson, Marisa Sanchez, Stefan Schneider, Paul Wannamaker, Beta Win, Judah Abberbock, Viviana Wilches, Margaret Gartland, Max Lataillade, Jan Losos

- 118** A First-in-Human Study of the Trispecific HIV-1 Broadly Neutralizing Antibody, SAR441236
10:29 AM

Athe Tsibiris, Yu E. Zheng, Edmund Capparelli, Katherine Rodriguez, Randall Tressler, Antoine Deslandes, Katherine Shin, Philip Marzinek, Lucio Gama, Baiba Berzins, Chanelle Wimbish, Chih-Jen Wei, Gary Nabel, Daniel R. Kuritzkes, Pablo Tebas

Questions and Answers (Part 1)

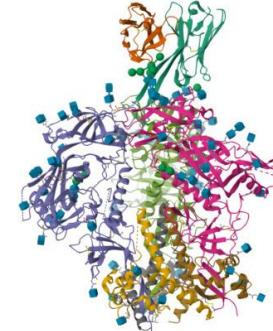
Introductions (Part 2)

- 119** Safety and Efficacy of VRC07-523LS Plus Long-Acting Cabotegravir in the Phase II ACTG A5357 Trial
11:00 AM

Babafemi Taiwo, Yu E. Zheng, Katherine Rodriguez, Leah Burke, Jackie Reeves, Paul Wannamaker, Lucio Gama, Christos Petropoulos, Kimberly K. Scarsi, Pablo Belauzaran-Zamudio, Ronald D'Amico, Katharine J. Bar, Pablo Tebas, for the ACTG A5357 Team

- 120** Lenacapavir Plus bNAbs for People With HIV and Sensitivity to Either Teripavimab or Zinlirivimab
11:08 AM

Joseph J. Eron, Paul P. Cook, Megha Mehrotra, Hailin Huang, Marina Caskey, Gordon Crofoot, Edwin DeJesus, Linda Gorgos, Laurie VanderVeen, Olayemi O. Osijemeyi, Cynthia Brinson, Sean E. Collins



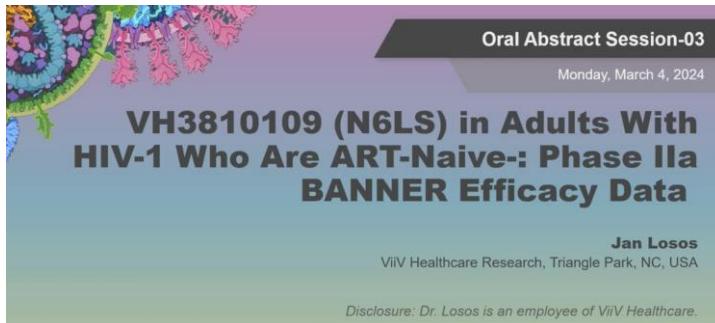
- 121** Therapeutic Efficacy of a Triple Combination of HIV-1 Broadly Neutralizing Antibodies
11:16 AM

LB Boris D. Juerg, Victoria E. Walker-Sperling, Kshitij Wagh, Kathryn Stephenson, Jinyan Liu, Malika A. Boudries, Roberto C. Arduino, Lucio Gama, Elena Giorgi, Richard A. Koup, Michael S. Seaman, Charlotte-Paige M. Rolle, Edwin DeJesus, Bette Korber, Dan H. Barouch

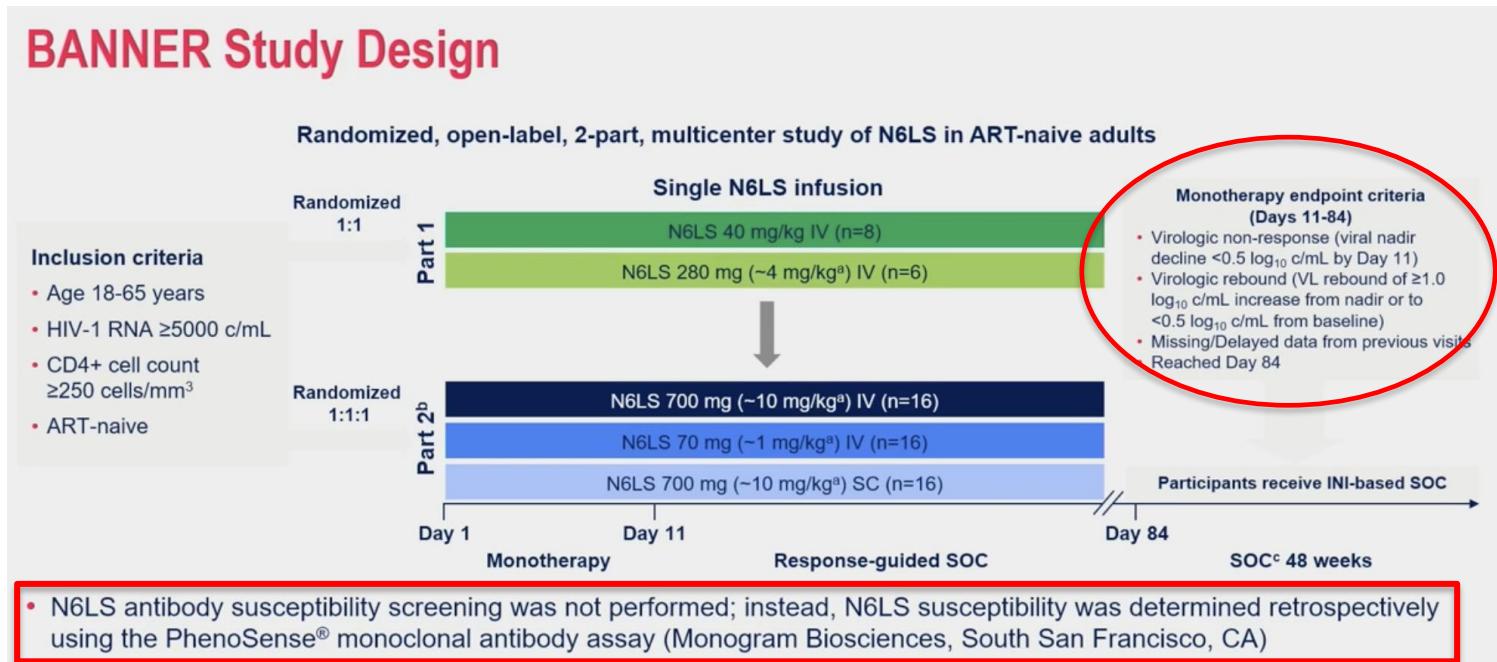
- 122** Randomized Trial of Cabotegravir and Rilpivirine Long-Acting in Africa (CARES): Week 48 Results
11:24 AM

LB Cissy M. Kityo, Ivan K. Mambule, Simiso Sokhela, Reena Shah, Caroline Otike, Joseph Musaazi, Kimton Opiyo, Fiona Cresswell, Charity Wambui, Gilbert Atugeka, Josphat Kosgei, Logashvari Naidoo, Fafa A. Boateng, Nicholas Paton

#2. bNabs: Banner (#117)

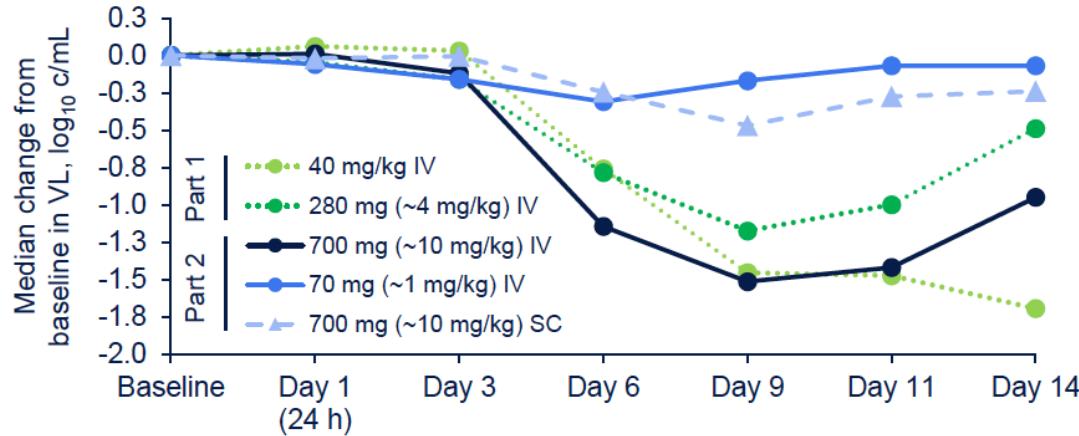


BANNER Study Design



BANNER Part 2: SC Antiviral Activity

N6LS antiviral activity correlated with drug exposure!!



- Lower exposures were observed with SC vs IV administration using the same N6LS dose
- Lower SC exposure due to first-pass lymphatic elimination
- The SC response was as expected when considering N6LS exposures achieved

Viral dynamic measures, median (range)	Part 1				Part 2
	N6LS 40 mg/kg IV (N=8)	N6LS 280 mg IV (~4 mg/kg ^a) (N=6)	N6LS 700 mg IV (~10 mg/kg ^a) (N=16)	N6LS 70 mg IV (~1 mg/kg ^a) (N=16)	
Viral nadir from baseline, log ₁₀ c/mL	-1.72 (-2.60, -0.60)	-1.18 (-2.18, -0.30)	-1.54 (-2.22, -0.41)	-0.43 (-1.29, -0.12)	-0.50 (-2.13, -0.09)
Time to viral nadir, days	16 (5-21)	9 (7-16)	9 (6-27)	7 (2-23)	9 (1-50)
Time to viral rebound among responders, days	35 (12-78) [n=8]	18 (14-29) [n=5]	22 (14-43) [n=14]	13 (10-22) [n=7]	17 (11-63) [n=8]

IV, intravenous; N6LS, VH3810109; SC, subcutaneous; VL, viral load.

^aFor a 70-kg individual.

Conclusions

- Robust antiviral response was observed with N6LS and was correlated with N6LS exposure¹; this exposure-dependent antiviral activity was consistent with reports for other bNAbs²
 - Baseline viral sensitivity to N6LS was an important predictor of N6LS concentrations required to achieve antiviral effect¹
 - Lower SC viral response was as expected when considering N6LS exposures achieved
- The SPAN study explores the safety and tolerability of higher doses of N6LS, including SC with rHuPH20 in HIV-negative adults and is presented in Poster 639³ **40 mg/Kg: 30 ml (3000 mg)!!**
- Results from BANNER and SPAN support the ongoing clinical development of N6LS as an ultra-long dosing strategy into phase 2b (EMBRACE, NCT05996471)

bNAb, broadly neutralizing antibody; Cmax, maximum plasma concentration; IV, intravenous; N6LS, VH3810109; SC, subcutaneous.

1. Edwards et al. EACS 2023; Warsaw, Poland. Poster eP.A.099. 2. Caskey et al. *Nature*. 2015;522:487-491. 3. Win et al. CROI 2024; Denver, CO. Poster 639.

Plenary-03 | Wednesday Plenary Session

8:30 AM - 9:30 AM • Bellco Theatre

CME



39 | The End of Oral? How Long-Acting Formulations Are Changing the Management of Infectious Diseases



Charles W. Flexner, *The Johns Hopkins University,
Baltimore, MD, USA*

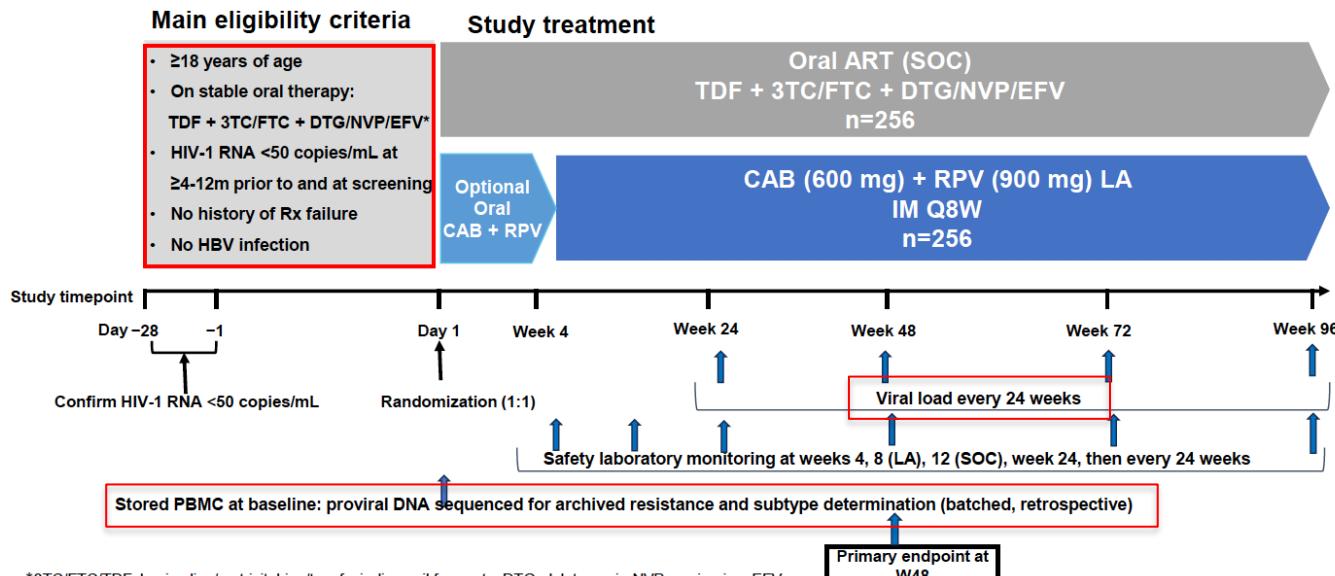
#3. CARES (#122)

Randomized trial of Cabotegravir and Rilpivirine Long-acting in Africa (CARES): Week 48 Results

Cissy Kityo Mutuluuza, Ivan K. Mambule, Simiso Sokhela, Henry Mugerwa, Reena Shah, Caroline Otike, Joseph Musaazi, Kimton Opiyo, Fiona Cresswell, Gilbert Ategeka, Charity Wambui, Josphat Kosgei, Logashvari Naidoo, Fafa A. Boateng, **Nicholas Paton**
on behalf of the CARES Study Team

Study Design

Phase 3b, Randomized (1:1), Open-Label, Active-Controlled, Multi-Centre, Parallel-Group, Noninferiority Study



*3TC/FTC/TDF, lamivudine/emtricitabine/tenofovir disproxil fumarate; DTG, dolutegravir; NVP; nevirapine; EFV, efavirenz; CAB, cabotegravir; LA, long-acting; Q8W, every 8 weeks; RPV, rilpivirine; SOC, standard of care

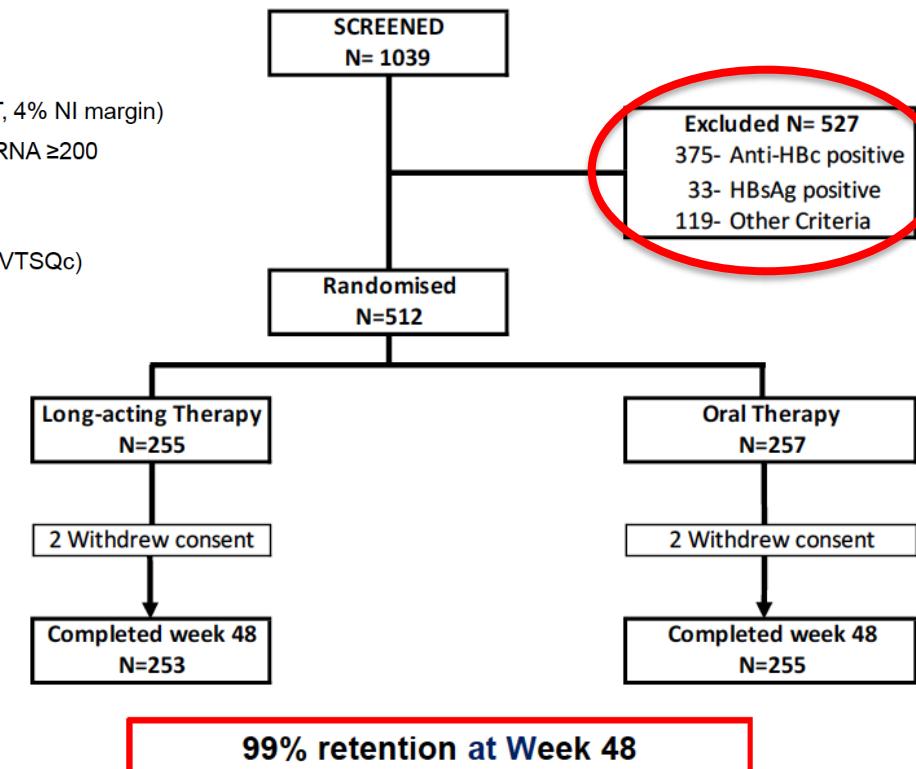
Outcomes & Analysis

Primary outcome:

- Proportion of participants with plasma HIV-1 RNA <50 copies/mL at week 48 (FDA snapshot)
- Non-inferiority assessed in the intention-to-treat (ITT) population, 10% NI margin
- Sensitivity analysis done in per-protocol population

Secondary / other outcomes:

- Proportion of participants with plasma HIV-1 RNA \geq 50 copies/mL (FDA Snapshot; ITT, 4% NI margin)
- Proportion of participants with confirmed virologic failure (CVF; 2 consecutive HIV-1 RNA \geq 200 copies/mL taken 4-6 weeks apart)
- Safety and tolerability
- Treatment satisfaction (HIV Treatment Satisfaction Questionnaire change version; HIVTSQc)

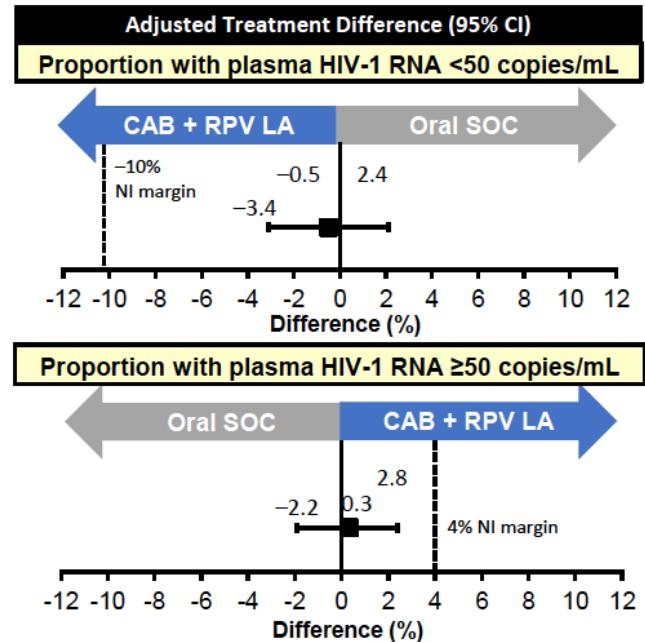
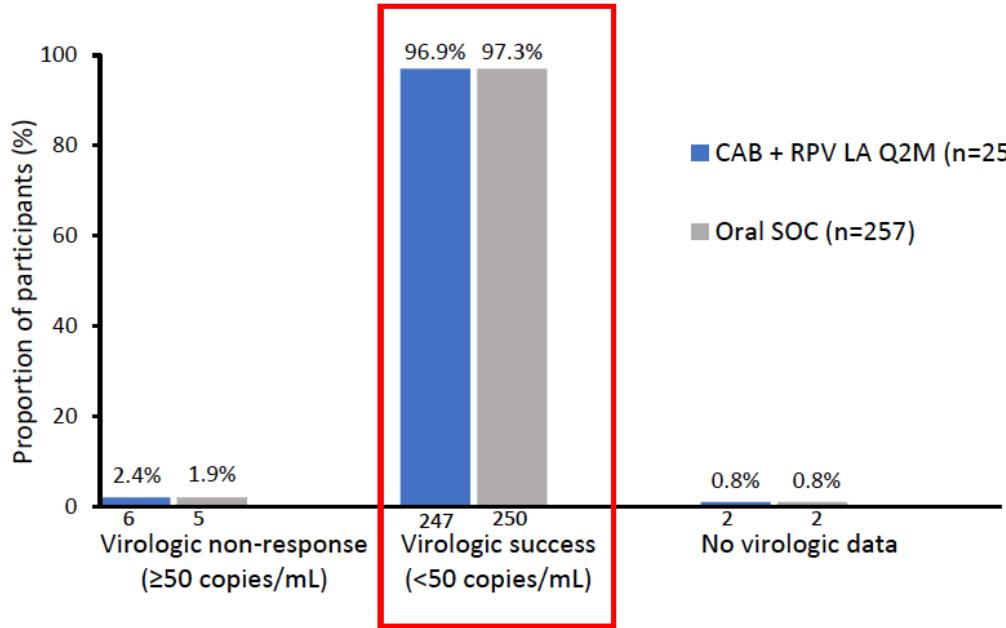


Baseline Characteristics

Characteristic	CAB + RPV LA (n=255)	Oral ART (SOC) (n=257)	Overall (N=512)
Female sex, n (%)	146 (57.2)	149 (58.0)	295 (57.6)
Age, median (IQR), years	43 (36-51)	42 (35-49)	42 (35-51)
BMI \geq 30 kg/m ² , n (%)	57 (22.4)	51 (19.8)	108 (21.1)
Black race, n (%)	254 (99.6)	256 (99.6)	510 (99.6)
Time on first-line ART, median (IQR), years	8 (4-13)	7 (4-13)	8 (4-13)
Prior exposure to NNRTI, n (%)	189 (73.7)	191 (74.3)	380 (74.2)
INSTI regimen at screening	231 (90.6)	240 (93.4)	471 (92.0)
NNRTI regimen at screening	24 (9.4)	17 (6.6)	41 (8.0)
<i>Archived DNA analysis * †</i>			
Viral subtype A1, n/n (%)	119/213 (55.9)	115/201 (57.2)	234/414 (56.5)
RPV resistance mutations, n/n (%)	25/200 (12.5)	26/177 (14.7)	51/377 (13.5)
RPV intermediate/high-level resistance, n/n (%)	17/200 (8.5)	21/177 (11.9)	38/377 (10.1)
CAB resistance mutations, n/n (%)	15/95 (15.8)	14/85 (16.5)	29/180 (16.1)
CAB intermediate/high-level resistance, n/n (%)	10/95 (10.5)	5/85 (5.9)	15/180 (8.3)

- * Retrospective, batched sequencing performed on archived viral DNA extracted from PBMCs stored at baseline
- † Viral subtype, resistance mutations and drug susceptibility were determined using the Los Alamos National Laboratory Panel, and Stanford algorithm respectively

Virologic Outcomes at Week 48 (ITT)



Primary outcome - proportion with plasma HIV-1 RNA < 50 copies/ml:

- Main analysis (ITT): adjusted difference -0.5% (95% CI, -3.4 to 2.4), **meeting the non-inferiority criterion**
- Sensitivity analysis (per-protocol): adjusted difference -0.3% (95% CI, -3.0 to 2.3) **confirming non-inferiority**

Note: minor changes in numbers from abstract

Participants with virological failure

	CAB + RPV LA	Oral ART	Difference (95% CI)
Confirmed virological failure (VL \geq 200 copies/ml x 2)	1 (0.4%)	0	0.4 (-0.4 to 1.2)

+ One additional virological failure (unconfirmed) in CAB + RPV LA arm (died before retest; HIV-unrelated cause)

Participant with confirmed virological failure

- Failure at week 48 (VL = 8,608 copies/ml)
- No delayed injections
- Female, Uganda
- Baseline BMI: 25.9 kg/m²
- Subtype A1
- Resistance mutations [Stanford resistance level]:**
Baseline*: No NNRTI or INSTI mutations
Failure:
V108I, E138K, V179L [RPV high]
E92E/V, N155H, L74M [CAB intermediate; DTG nil]
- Re-suppressed on TDF/3TC/DTG once daily

Participant with virological failure (unconfirmed)

- Failure at week 48 (VL = 44,984 copies/ml)
- No delayed injections
- Male, Uganda
- Baseline BMI: 22.0 kg/m²
- Subtype D
- Resistance mutations [Stanford resistance level]:**
Baseline*: K103N/S, E138A [RPV low]; no INSTI mutations
Failure:
K103N/S, V106V/A, E138A [RPV low]
G118R [CAB high; DTG intermediate]

* Retrospective, batched sequencing performed on archived viral DNA extracted from PBMCs stored at baseline

Injection Site Reactions (Week 48)

	Grade 1	Grade 2	Grade 3
Any ISR, n (%)	161 (63.1)	26 (10.2)	1 (0.4)
Pain	161 (63.1)	23 (8.6)	0 (0)
Swelling	17 (6.7)	3 (1.2)	0
Nodule	13 (5.1)	0	1 (0.4)
Erythema	3 (1.2)	1 (0.4)	0
Induration	1 (0.4)	1 (0.4)	0
Rash	1 (0.4)	0	0
Pruritus	1 (0.4)	0	0
Discharge	0	1 (0.4)	0
Abscess	0	2 (0.8)	0

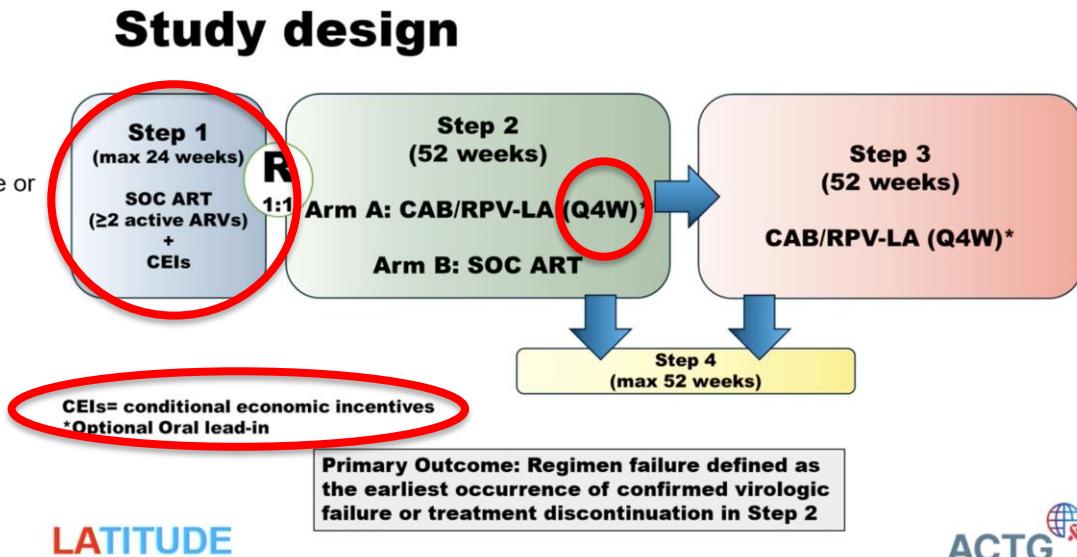
- Most ISRs were grade 1 or 2; only 1 grade 3; none were grade 4;
- Only 1 (injection-site sterile abscess) led to treatment discontinuation

#3. LATITUDE (#212LB)



- A5359-Long-Acting Therapy to Improve Treatment success in Daily life
- Phase III prospective, randomized, open-label trial
- Monthly IM CAB/RPV-LA vs. oral Standard of Care (SOC) ART
- PWH who have barriers to adherence:
 - a) Poor viral response despite oral ART for ≥6 months.
 - b) Loss to clinical follow-up with ART non-adherence ≥6 months.
- No Hepatitis B
- No INSTI or RPV RAM historically or by screening.
- No exclusion based on CD4⁺ T-cell, HIV VL, active substance/alcohol use or unstable housing.

Step 1: Adherence support + economic incentives!!



Study population (Step 1 and Step 2)

Characteristic		Total (N=434)	Characteristic	Step 1 Total (N=434)	
Age, years	Median (Q1, Q3)	40 (32, 51)	Baseline HIV-1 RNA (c/mL)	<200	141 (32%)
	≤30	88(20%)		201-10,000	110 (25%)
	31-50	232(53%)		10,001-100,000	121 (28%)
	51+	114 (26%)		>100,000	62 (14%)
Sex at birth	Female	129 (30%)	Baseline CD4+ T (cells/mm ³)	Median (Q1, Q3)	270 (116, 498)
Gender Identity	Transgender Spectrum	21 (5%)			
Race	Black/African American	277 (64%)			
	White	117 (27%)			
	Other/multiple/unknown	40 (9%)			
Ethnicity	Hispanic/Latino	75 (17%)	Step 2 Treatment Arm		
History of IDU	Currently + Previous	61 (14%)	CAB/RPV-LA (n=146)	SOC (n=148)	
Non-Adherence criteria	Lost to follow-up	87 (20%)	Step 2 Baseline HIV-1 RNA (c/ml)	>200*	24 (17%)
	Poor response	283 (65%)	Baseline CD4+ T (cells/mm ³)	Median (Q1, Q3)	10 (7%)
	Both	64 (15%)		417 (198, 688)	374 (198, 605)
Time since HIV Dx, years	Median (Q1, Q3)	13 (7, 21)			

* including 8 participants with HIV-1 RNA >10,000 c/ml in the CAB/RPV-LA arm

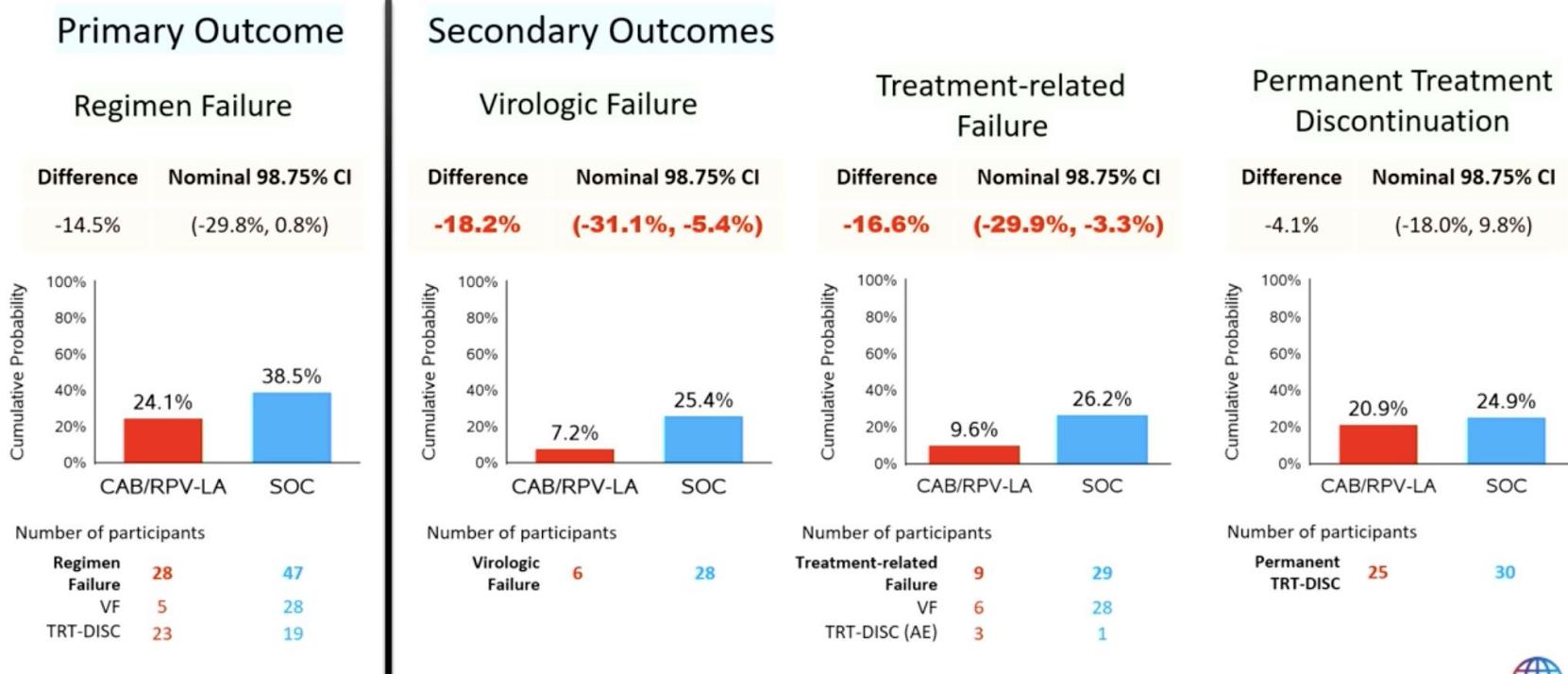


LATITUDE

Safety/tolerability/timing of injections for participants initiating CAB/RPV-LA in Step 2

Characteristic	Total (n=135)
Participants with at least 1 ISR, n (%) (Pain, tenderness, nodule)	77 (57%)
Grade ≥ 3	3 (2.2%)
Injection Timing Categories, n (%)	
Early injection (<21 days)	6 (1%)
On Time (21-<36 days)	1,092 (93%)
Delayed injection (≥36 days)	40 (3%)
Missed Injection	36 (3%)

Results-All Outcomes



LATITUDE

ACTG

Participants with confirmed VF in Step 2

RAM Evaluation	CAB/RPV-LA (n=6)	Oral SOC ART (n=28)	Total (n=34)
	2	2	
With new RAM, n	Week 18 E138EK; G140GS; Q148K; K103R	Week 37 A71V; V77I; V106I	4
	Week 49 E138K; Q148K; K20KR; M230ML	Week 48 M184I	
Without new RAM, n	3	19	22
D/c without confirmation sample, n	0	2	2
HIV-1 RNA <400 c/mL, n	1	3	4
Sample not collected, n	0	2	2

LATITUDE

ACTG

Conclusions

- Considering all endpoints together, CAB/RPV-LA demonstrated superiority when compared to daily oral SOC ART in PWH in the US who face barriers to adherence and have a prior history of virologic non-response or loss to follow-up.
- Clinical trials in this important population are feasible.
- These data support the use of LAI in this population. Future clinical trials should assess use of CAB/RPV in actively viremic patients.

Updated Treatment Recommendation on Use of Cabotegravir and Rilpivirine for People With HIV From the IAS-USA Guidelines Panel

Paul E. Sax, MD¹; Melanie A. Thompson, MD²; Michael S. Saag, MD³; et al.

➤ Author Affiliations | Article Information

JAMA. Published online March 1, 2024. doi:10.1001/jama.2024.2985

When supported by intensive follow-up and case management services, injectable cabotegravir and rilpivirine (CAB-RPV) may be considered for people with viremia who meet the criteria below when no other treatment options are effective due to a patient's persistent inability to take oral ART (rating AIIa under the conditions described).

- Unable to take oral ART consistently despite extensive efforts and clinical support
- High risk of HIV disease progression (CD4 cell count <200/ μ L or history of AIDS-defining complications)
- Virus susceptible to both CAB and RPV

above. However, no randomized clinical studies exist to support this recommendation, and available data are limited by small numbers with variable follow-up, variation in dosing regimens, and insufficient information regarding the types and intensity of clinical support deployed. To generate more robust

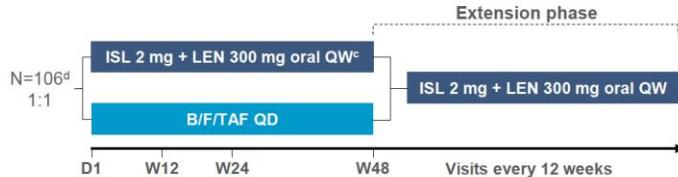
#5. ISL-LEN QW oral switch (#208LB)

Methods

A Phase 2, open-label, active-controlled study in virologically suppressed PWH^a

Inclusion criteria

- Aged ≥18 years
- Viral load <50 c/mL on B/F/TAF^b
- No history of virologic failure
- CD4 count ≥350 cells/µL
- Lymphocytes ≥900 cells/µL
- No HBV infection



- Primary endpoint: Proportion with HIV-1 RNA ≥50 c/mL at Week 24 per FDA Snapshot algorithm
- Secondary endpoints:
 - Proportion with HIV-1 RNA ≥50 c/mL at Weeks 12 and 48
 - Proportion with HIV-1 RNA <50 c/mL at Weeks 12, 24, and 48
 - Change from Day 1 in CD4
 - Adverse events (AE) leading to study drug discontinuation
 - PK parameters^e
- Exploratory endpoints^e:
 - Treatment-emergent resistance to ISL and LEN
 - Participant-reported outcomes

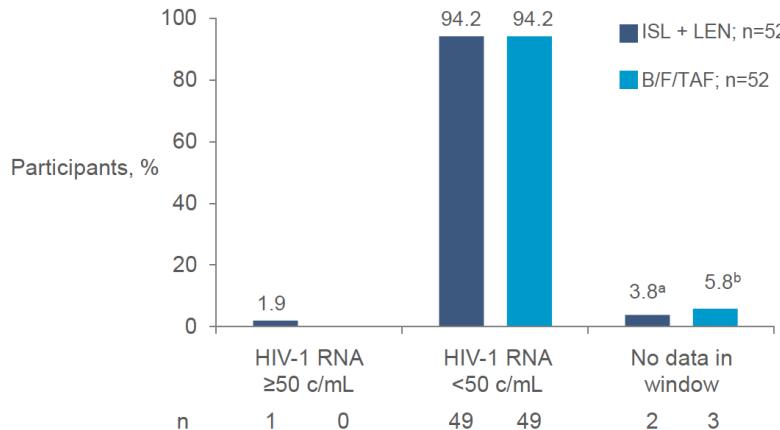
^aNCT0502996. ^bFor at least the previous 24 weeks. ^c600 mg of LEN was given on Day 1 and Day 2 for pharmacologic loading. ^dRandomized, N=106; dosed, N=104. ^eWill be presented in future presentation. B/F/TAF, bictegravir/emtricitabine/tenofovir alafenamide; D, day; HBV, hepatitis B virus; ISL, islatravir; LEN, lenacapavir; PK, pharmacokinetic; PWH, people with HIV-1; QD, daily; QW, weekly; W, week.

Baseline Demographic and Disease Characteristics

	Total (N=104)	ISL + LEN (n=52)	B/F/TAF (n=52)
Median (range) age, years	40 (26–76)	40 (28–67)	40 (26–76)
Female at birth, n (%)	19 (18.3)	10 (19.2)	9 (17.3)
Gender Identity, n (%)			
Transgender female	1 (1.0)	1 (1.9)	0
Non-binary/third gender	1 (1.0)	0	1 (1.9)
Race, n (%)			
White	52 (50.0)	25 (48.1)	27 (51.9)
Black	37 (35.6)	21 (40.4)	16 (30.8)
Asian	3 (2.9)	2 (3.8)	1 (1.9)
American Indian or Alaska Native	3 (2.9)	1 (1.9)	2 (3.8)
Native Hawaiian or Pacific Islander	1 (1.0)	0 (0)	1 (1.9)
Other	8 (7.7)	3 (5.8)	5 (9.6)
Ethnicity, Hispanic, or Latinx, n (%)	30 (28.8)	13 (25.0)	17 (32.7)
Mean (SD) CD4, cells/µL	786 (249.5)	755 (223.6)	818 (271.3)
≥500 cells/µL, n (%)	96 (92.3)	46 (88.5)	50 (96.2)
Mean (SD) absolute lymphocytes × 10 ³ /µL	1.94 (0.556)	1.94 (0.445)	1.95 (0.652)

B/F/TAF, bictegravir/emtricitabine/tenofovir alafenamide; c/mL, copies/mL; ISL, islatravir; LEN, lenacapavir; SD, standard deviation

Efficacy at Week 24



Participants in both treatment groups maintained high rates of virologic suppression

^aDiscontinued due to non-drug related adverse event with HIV-1 RNA <50 c/mL at time of discontinuation, n=1. ^bDiscontinued for other reason with HIV-1 RNA <50 c/mL at time of discontinuation, n=2.

B/F/TAF, bictegravir/emtricitabine/tenofovir alafenamide; c/mL, copies/mL; ISL, islatravir; LEN, lenacapavir

Participant on ISL + LEN with HIV-1 RNA ≥50 c/mL at Week 24

Visit	HIV-1 RNA (c/mL)
Screening	<50
Day 1	251
Week 24	64
Week 30	<50

- Resuppressed at Week 30 without change in regimen
- Adequate levels of plasma ISL and LEN
- No emergent resistance detected
- Participant remains on study drug

Safety Summary

Participants with AEs, n (%)	ISL + LEN (n=52)	B/F/TAF (n=52)
Any AE	40 (76.9)	38 (73.1)
Treatment-related AEs (TRAEs)	9 (17.3)	3 (5.8)
Grade 1 and 2 TRAEs	9 (17.3)	3 (5.8)
Occurring in ≥2 ISL + LEN participants		
Dry mouth	2 (3.8)	0
Nausea	2 (3.8)	0
Grade 3 and 4 TRAEs	0	0
Serious AE	3 (5.8) ^a	0
Serious TRAE	0	0
AE leading to study drug discontinuation	2 (3.8) ^b	0
TRAE leading to discontinuation	0	0

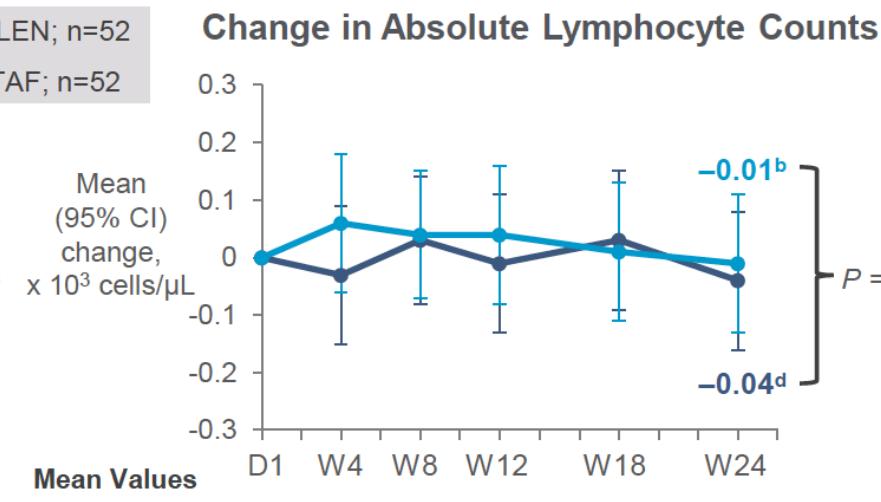
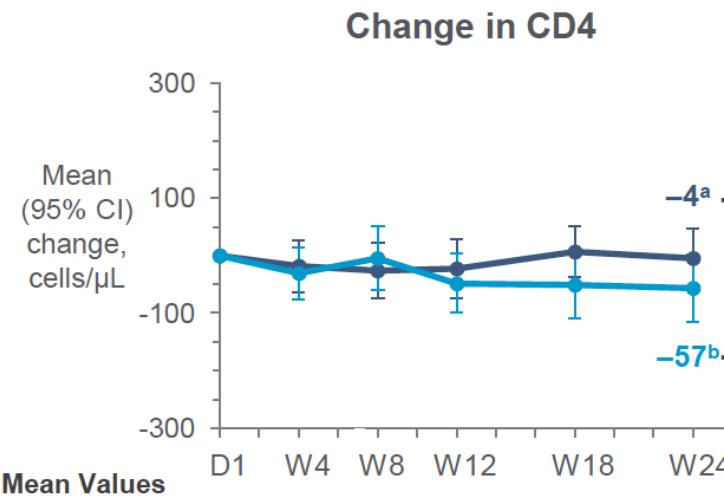
^aSerious AEs included large intestine perforation and renal colic (in the same participant), pneumonia, and neurologic anesthetic complication.

^bLarge intestine perforation and renal colic, n=1; acute hepatitis B infection, n=1.

AE, adverse event; B/F/TAF, bictegravir/emtricitabine/tenofovir alafenamide; ISL, islatravir; LEN, lenacapavir; TRAE, treatment-related adverse event

No Grade 3 and 4 laboratory abnormalities were clinically significant, except ALT elevation seen in a participant with acute hepatitis B

CD4 and Absolute Lymphocyte Count Changes Through Week 24



- No between-group differences in CD4 and absolute lymphocyte count changes at Week 24
- No participants discontinued due to CD4 or absolute lymphocyte count decreases

^an=50, ^bn=50, ^cLeast square mean difference, ^dn=49.

B/F/TAF, bictegravir/emtricitabine/tenofovir alafenamide; CI, confidence interval; D, day; ISL, islatravir; LEN, lenacapavir; SD, standard deviation W, Week

Interactive Symposium-09 | Follow Your Heart: Managing Cardiovascular Disease Risk in HIV
4:00 PM - 5:30 PM • Mile High Ballroom 4

CME

Objectives: At the completion of the session, participants will be able to:

- Summarize the findings from the REPRIEVE (Randomized Trial to Prevent Vascular Events in HIV) Trial and the implications for clinical practice
- Identify the potential mechanisms underlying excess cardiovascular risk in people with HIV
- Discuss challenges to the implementation of cardiovascular risk reduction in different clinical settings globally

Target Audience: This session is directed to clinicians and researchers involved in cardiovascular disease prevention and treatment for people with HIV.

Level of Knowledge: It is assumed that the participants are familiar with research on cardiovascular and metabolic complications of HIV infection.

Conveners

Matthew J. Feinstein, Northwestern University, Chicago, IL, USA



Franck Bocca, Sorbonne Universite, Paris, France



4:00 PM | Overview of the REPRIEVE Trial

Steven K. Grinspoon, Massachusetts General Hospital, Boston, MA, USA



45 | 4:05 PM | Sex Differences in Atherosclerotic CVD Risks and Mechanisms: Insights From REPRIEVE

Markella V. Zanni, Massachusetts General Hospital, Boston, MA, USA



46 | 4:25 PM | Immunomodulation and Cardiovascular Disease: Lessons Learned From HIV

Priscilla Y. Hsue, University of California San Francisco, San Francisco, CA, USA



47 | 4:45 PM | Implications for Implementing CVD Risk Prevention Strategies for Low- and Middle-Income Countries

Mpiko Ntsekhe, University of Cape Town, Cape Town, South Africa



5:05 PM | Panel Discussion

What's New in the Guidelines

Updated: February 27, 2024

Reviewed: February 27, 2024

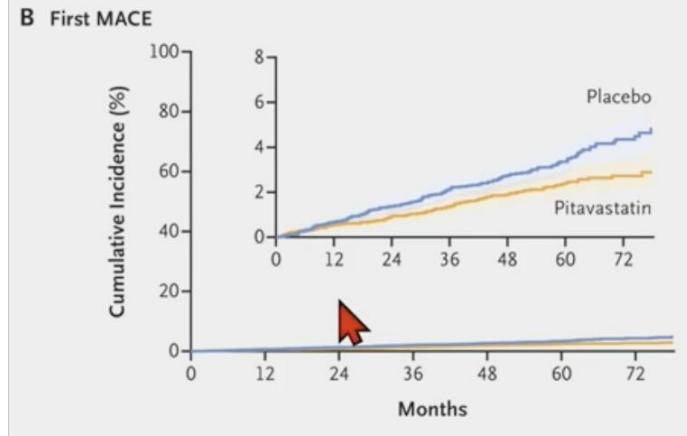


For people with HIV who have low-to-intermediate (<20%) 10-year ASCVD risk estimates:

- Age 40–75 years
 - When 10-year ASCVD risk estimates are 5 to <20%, the Panel recommends initiating at least moderate intensity statin therapy (**AI**).
 - Recommended options for moderate intensity statin therapy¹ include:
 - Pitavastatin 4mg once daily (**AI**)
 - Atorvastatin 20mg once daily (**AII**)
 - Rosuvastatin 10mg once daily (**AII**)
 - When 10-year ASCVD risk estimates are <5%, the Panel favors initiating at least moderate intensity statin therapy (**CI**). The absolute benefit from statin therapy is modest in this population, therefore the decision to initiate a statin should take into account the presence or absence of HIV-related factors that can increase ASCVD risk.
 - Same options for moderate intensity statin therapy as recommended for 10-year ASCVD risk estimates of 5 to <20% (see above)
- Age <40 years
 - Data are insufficient to recommend for or against statin therapy as primary prevention of ASCVD in people with HIV. In the general population, lifestyle modifications are recommended for people age <40 years, with statin therapy considered only in select populations (see [AHA/ACC/Multisociety Guidelines](#)).

<https://clinicalinfo.hiv.gov/en/guidelines/hiv-clinical-guidelines-adult-and-adolescent-arv/whats-new>

#6. REPRIEVE PCOLCE (#151)



Oral Abstract Session-07

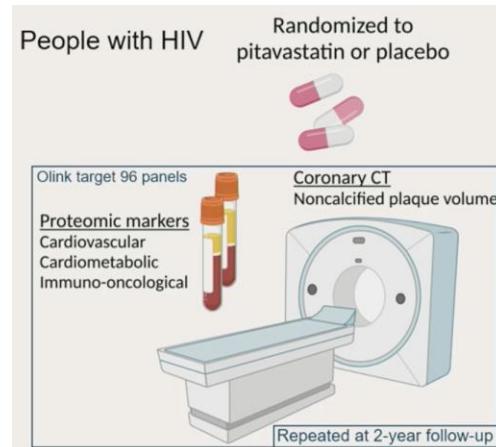
Tuesday, March 5, 2024

Pitavastatin Reduces Non-Calcified Plaque via Pro-Collagen PCOLCE Independently of LDL in REPRIEVE

Márton Kolossváry

Massachusetts General Hospital, Boston, MA, USA

Changes in LDL and biomarkers were not significantly associated with changes in noncalcified plaque volume



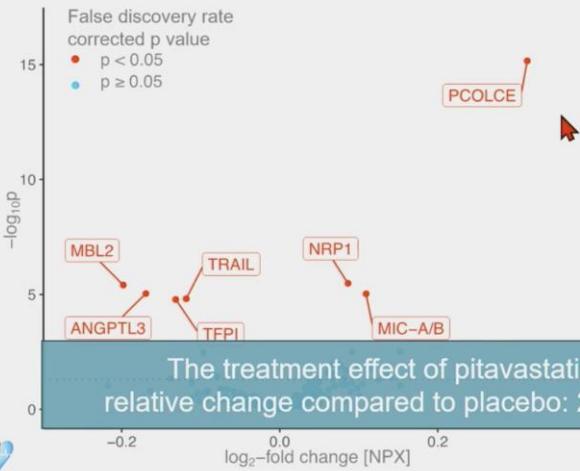
558 individuals passed all criteria for proteomic analysis

272 received Pitavastatin

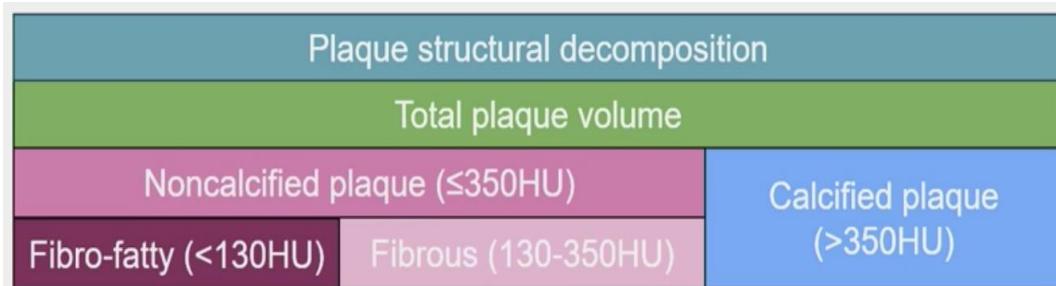
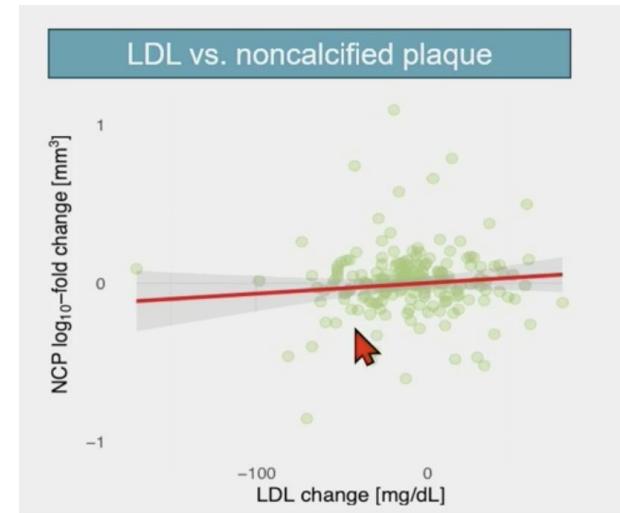
286 received Placebo

#6. REPRIEVE PCOLCE (#151)

Proteins differentially expressed over time between treatment groups



Proteins showing differential expression between treatment groups	
	Decreased expression
ANGPTL3	Angiopoietin-related protein 3: Involved in regulation of lipid and glucose metabolism.
MBL2	Mannose-binding protein C: Calcium-dependent lectin involved in innate immune defense.
TFPI	Tissue factor pathway inhibitor: Inhibits factor Xa directly. It possesses an antithrombotic action and the ability to associate with lipoproteins in plasma.
TRAIL	Tumor necrosis factor ligand superfamily member 10: Induces apoptosis.
	Increased expression
MIC-A/B	MHC class I polypeptide-related sequence A-B: Acts as a stress-induced self-antigen that is recognized by gamma delta T-cells. Binding to KLRL1 leads to cell lysis.
NRP1	Neuropilin-1: Receptor involved in the development of the cardiovascular system, in



PCOLCE: procollagen C-endopeptidase enhancer 1
Acelera maduración procolágeno, con agregación de calcio en la pared vascular.
Estabiliza la placa!

Protein changes vs. noncalcified plaque change

Variable	Univariable regression			Multivariable regression		
	% change in NCP	95% Confidence interval	p	% change in NCP	95% Confidence interval	p
LDL	1.5	[-1.2; 4.3]	0.26	-0.1	[-3.0; 2.9]	0.95
ANGPTL3	-19.8	[-34.0; -2.6]	0.026	2.3	[-20.3; 31.3]	0.86
MBL2	-18.7	[-31.5; -3.5]	0.018	-11.0	[-26.9; 8.4]	0.25
MIC-A/B	-11.1	[-36.2; 23.7]	0.48	-	-	-
NRP1	-30.0	[-53.0; 4.3]	0.08	-	-	-
PCOLCE	-31.9	[-42.9; -18.7]	<0.001	-31.2	[-45.3; -13.4]	0.00

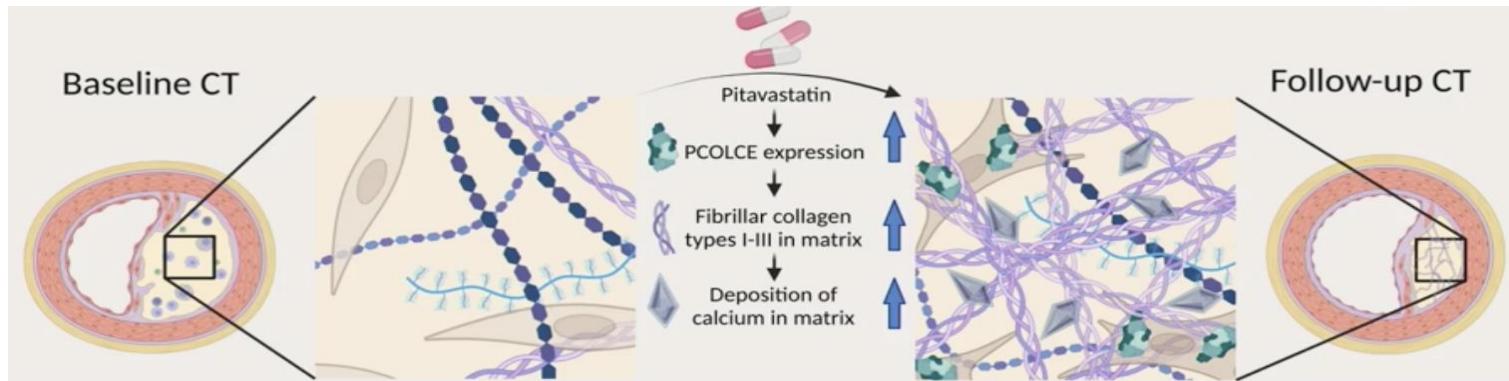
PCOLCE Doubling in PCOLCE expression was associated with a decrease in noncalcified plaque by -31%, [95%CI: -45%; -13%, p=0.002]

Protein changes vs. plaque components changes

Variable	Calciﬁed plaque			Noncalciﬁed plaque					
	Calciﬁed plaque volume (>350HU)			Fibro-fatty plaque volume (<130HU)					
Variable	Calciﬁed plaque volume (>350HU)			Fibro-fatty plaque volume (<130HU)			Fibrous plaque volume (130-350HU)		
	% change	95% Confidence interval	p	% change	95% Confidence interval	p	% change	95% Confidence interval	p
LDL	-3.7	[-9.5; 2.3]	0.22	6.1	[0.5; 11.8]	0.032	0.4	[-1.9; 2.6]	0.74
ANGPTL3	-1.2	[-33.8; 47.5]	0.95	-28.0	[-52.3; 8.9]	0.12	-20.7	[-32.3; -7.0]	0.004
MBL2	7.3	[-25.1; 53.6]	0.70	-25.9	[-48.5; 6.8]	0.11	-13.5	[-25.0; -0.4]	0.044
MIC-A/B	6.7	[-46.4; 112.3]	0.85	-25.7	[-63.0; 49.4]	0.40	-3.3	[-26.4; 27.1]	0.81
NRP1	13.8	[-50.1; 159.5]	0.76	-46.6	[-77.0; 24.1]	0.14	-13.9	[-38.1; 19.8]	0.37
PCOLCE	34.4	[-7.9; 96.2]	0.12	-38.5	[-58.1; -9.7]	0.013	-22.2	[-32.9; -9.7]	0.001
TFPI	77.3	[-0.4; 215.4]	0.051	-0.6	[-43.8; 75.8]	0.98	-8.1	[-26.4; 14.9]	0.46
TRAIL	9.6	[-40.2; 100.7]	0.77	18.2	[-37.7; 124.1]	0.61	-9.9	[-29.8; 15.6]	0.41

Increased PCOLCE expression was associated with a shift in plaque components promoting plaque stabilization

84% of the total effect of statins on NCP volume change was mediated through PCOLCE, independent of LDL change or achieved LDL





Themed Discussion-02 | Is the Weight Over: GLP-1 Receptor Agonists Are Here 1:30 PM - 2:30 PM • Mile High Ballroom 1-2-3

Themed Discussion Leader

Todd T. Brown, *The Johns Hopkins University, Baltimore, MD, USA*



Session Overview

797 Impact of Semaglutide on Weight Change Among People With HIV: A Stratified Analysis by Baseline BMI 1:35 PM

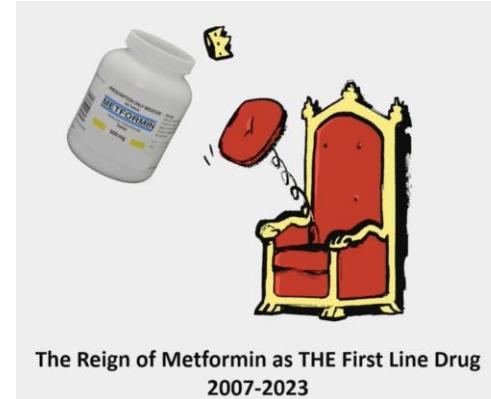
Lara Haidar, Heidi M. Crane, Robin M. Nance, Allison R. Webel, Geetanjali Chander, Bridget Whitney, Amanda Willig, Lyndsey S. Mixson, Alekhya Lavu, Laila Aboulatta, Mindy Dai, Andrew Hahn, Edward Cachay, Lydia N. Drumright, Sherif Eltonsy

798 Effects of Semaglutide on Inflammation and Immune Activation in HIV-Associated Lipohypertrophy 1:40 PM

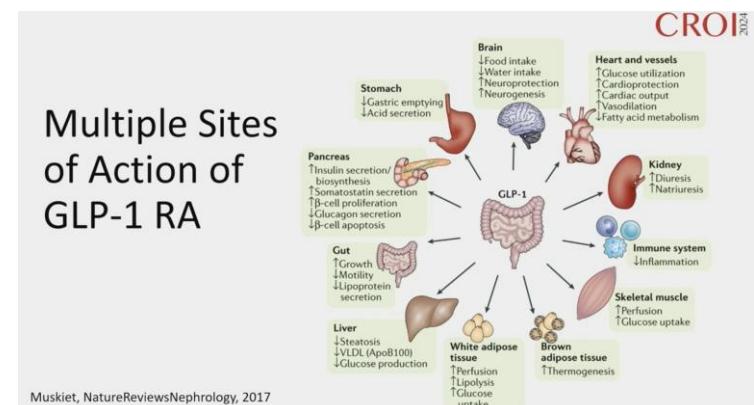
Allison Ross Eckard, Qian Wu, Abdus Sattar, Nicholas Funderburg, Kate Ailstock, Danielle Labbato, Grace A. McComsey

799 Effects of Semaglutide on Muscle Structure and Function in the SLIM Liver Study 1:45 PM NIS

Grace L. Ditzengerger, Jordan E. Lake, Douglas W. Kitch, Amy Kantor, Raja Muthupillai, Pablo Belaunzarán-Zamudio, Todd T. Brown, Kathleen Corey, Alan Landay, Anchalee Avihingsanon, Fred R. Sattler, Kristine M. Erlandson



The Reign of Metformin as THE First Line Drug
2007-2023



Mus�et, NatureReviewsNephrology, 2017

#7. SLIM LIVER (#159)



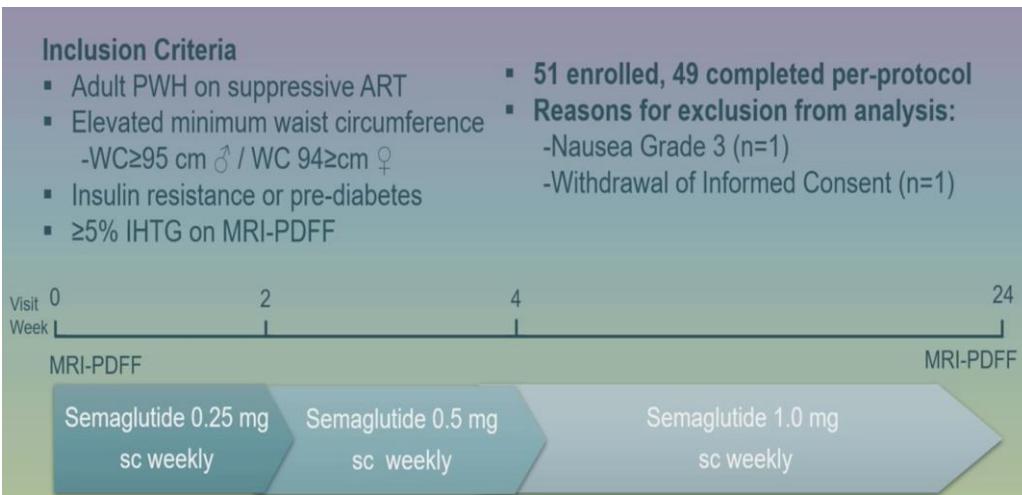
MASLD: Metabolic Dysfunction-Associated Steatotic Liver Disease

ACTG A5371: SLIM LIVER Study. Fase IIb, single arm, open label

Semaglutide: GLP-1 (glucagon-like peptide-1) receptor agonist

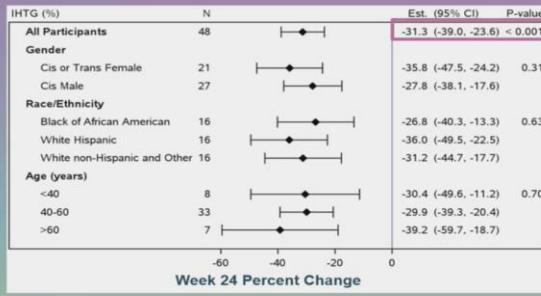
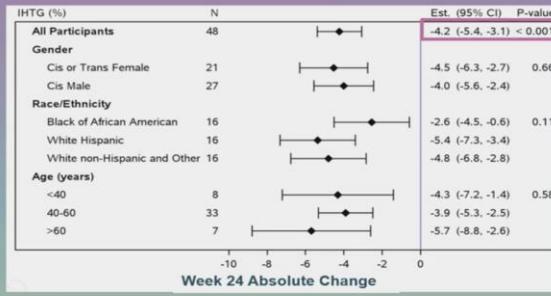
MRI-PDFF: MRI proton density fat fraction

IHTG: IntraHepatic TriGlyceride content



Baseline Characteristics*	
	N=49
Age	52 (42, 58)
Gender	
Cis woman	18 (37%)
Trans woman	3 (6%)
Cis man	28 (57%)
Race/ethnicity	
White non-Hispanic	13 (27%)
Black or African American*	16 (33%)
Hispanic	19 (39%)
American Indian or Alaskan Native	1 (2%)
BMI (kg/m ²)	35 (31, 39)
Waist circumference (cm)	114 (107, 124)
CD4+ T lymphocyte count (cells/mm ³)	701 (586, 869)
ART regimen	
PI	2 (4%)
NNRTI	10 (22%)
INSTI	40 (82%)
History of hepatitis C virus	4 (8%)

Primary Outcome: Changes in IHTG

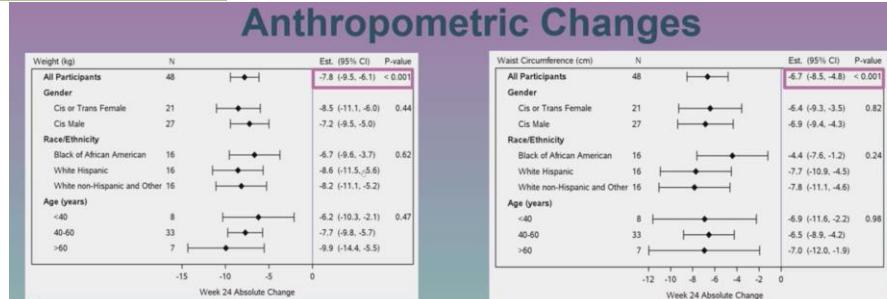


- Overall clinically significant reductions in IHTG
- ➡ 58% of participants had a ≥30% relative reduction in IHTG
- 29% of participants had complete MASLD resolution (absolute IHTG <5%)
- Greater reductions in IHTG were observed among*:
 - Women
 - Hispanic and non-Hispanic white participants
 - Participants with age >60 years

CROI²⁰²⁴

	24-week Change*	P value
Glucose (mg/dL)	-9.9 (-14.7, -5.1)	<0.001
HOMA-IR	-1.5 (-2.3, -0.8)	<0.001
Hemoglobin A1c (%)	-0.3 (-0.3, -0.2)	<0.001
Total Cholesterol (mg/dL)	-4.0 (-10.8, 2.9)	0.25
LDL Cholesterol (mg/dL)	-1.0 (-7.1, 5.1)	0.73
HDL Cholesterol (mg/dL)	2.0 (-0.02, 4.1)	0.053
Triglycerides (mg/dL)	-26.8 (-46.0, -7.5)	0.007

*Mean (95% confidence interval)



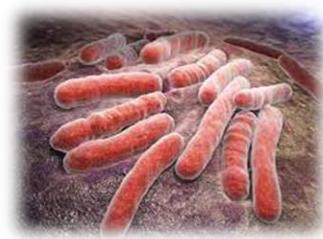
- Mean weight loss was 7.8 kg (17 lbs) over 24 weeks, with greater losses among*:
 - Women
 - Hispanic and non-Hispanic white participants
 - Persons ≥40 years of age
- IHTG improvements correlated with weight loss ($r=0.54$, $p<0.00001$)
- Amongst persons who lost >2.27 kg (5 lbs) on semaglutide (n=38), the mean absolute and relative changes in IHTG were -5.1% and -39.0%, respectively

CROI²⁰²⁴

Plenary-02 | Tuesday Plenary Session

8:30 AM - 9:30 AM • Bellco Theatre

CME



28 | Accelerating Tuberculosis Elimination: Short-Course Prevention and Treatment



Vidya Mave, *Center for Infectious Diseases in India,
Pune, India*

#8. INSIGHT Study (#211LB)



Oral Abstract Session-14
Wednesday, March 6, 2024

Efficacy, Safety, and PK of BIC/FTC/TAF in Adults With HIV and Tuberculosis on Rifampicin at Week 24

Anushka Naidoo
Center for the AIDS Programme of Research in South Africa, Durban, South Africa

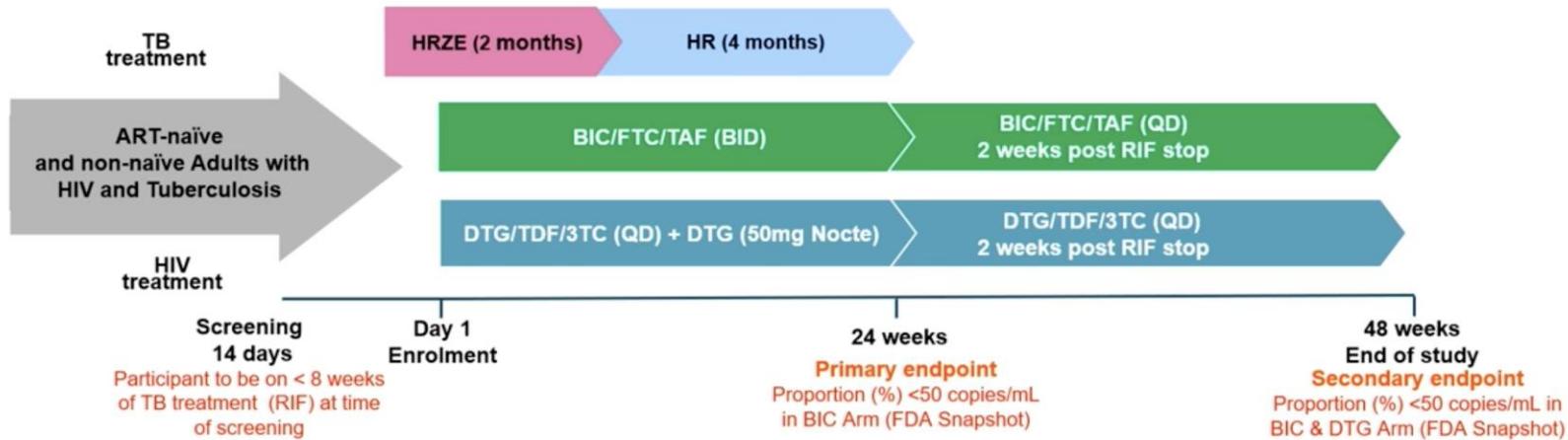
INSTI's FOR THE MANAGEMENT OF HIV-ASSOCIATED TB (INSIGHT STUDY)

EFFICACY, SAFETY, AND PK OF BIC/FTC/TAF IN ADULTS WITH HIV AND TUBERCULOSIS ON RIFAMPICIN AT WEEK 24

- **CAPRISA 093 INSIGHT study is being conducted to assess the efficacy, safety & PK of twice daily, BIC/FTC/TAF in adults with HIV and TB receiving a rifampicin-based TB regimen**
- In a healthy volunteer study*, rifampicin (RIF) reduced BIC drug concentrations (AUC/C_{trough}) by ~ 60%/80%, however,
 - the C_{trough} remained ~ 3-fold above inhibitory quotient IQ1 of 0.162 mg/L
 - the long dissociation half-life of BIC from HIV-1 integrase enzyme (163hrs ~7 days)***
 - may mitigate against potential breakthrough viraemia in any small minority of participants who have low drug exposures (below IQ1) for short periods of time

INSIGHT Study Design

Phase IIb open-label, non-comparative, randomized-controlled trial



Inclusion criteria

- ART-naïve OR ART non-naïve Adults with HIV (no exposure to ART at least ≥ 3 months at the time of enrolment)
- CD4+ ≥ 50 cells/ μ L; Females on contraception, HBsAg -ve
- Confirmed RIF-susceptible TB and/or on first-line RIF-based TB treatment (not > 8 weeks at the time of enrolment)
- eGFR ≥ 60 mL/min/1.73m 2 , ALT ≤ 3 ULN, Total bilirubin ≤ 2.5 ULN
- Hb ≥ 7.0 g/dL/ ♀ ≥ 6.5 g/dL, Platelet $\geq 50,000/\text{mm}^3$, ANC $\geq 650/\text{mm}^3$

Total Enrolled = 122
2:1 ratio
BIC (n=80) : DTG (n=42)

Demographic and Baseline Characteristics

	BIC (n=80)	DTG (n=42)	Total (N=122)
Age, median (range), years	35 (19-56)	35 (22-60)	35 (19-60)
Female, n (%)	25 (31)	18 (43)	43 (35)
Black, n (%)	80 (100)	42 (100)	122 (100)
HIV-1 RNA, median (Q1, Q3) copies/mL*	75649 (22784, 391299)	73735 (21242, 544830)	74692 (21475, 393703)
HIV-1 RNA ≥ 100000, n (%)	32 (42)	17 (41)	49 (42)
CD4+ cell count, median (Q1, Q3), cells/mm³	172 (108, 352)	139 (97, 237)	161 (101, 311)
50 - 100 cells/mm ³ , n (%)	18 (23)	13 (31)	31 (25)
101 - 199 cells/mm ³ , n (%)	26 (33)	16 (38)	42 (34)
≥ 200 cells/mm ³ , n (%)	36 (45)	13 (31)	49 (40)
Previous ART exposure, n (%)			
ART non-naïve	23 (29)	16 (38)	39 (32)
Time from start of TB treatment (RIF) to randomization day, median (range), days	15 (7-48)	16 (0-35)	15 (0-48)
Karnofsky score, n (%)			
70	21 (26)	10 (24)	31 (25)
80 - 100	59 (74)	32 (76)	91 (75)
WHO Stage 4, n (%)	7 (9)	0 (0)	7 (6)

Primary Endpoint: Viral Suppression at Week 24

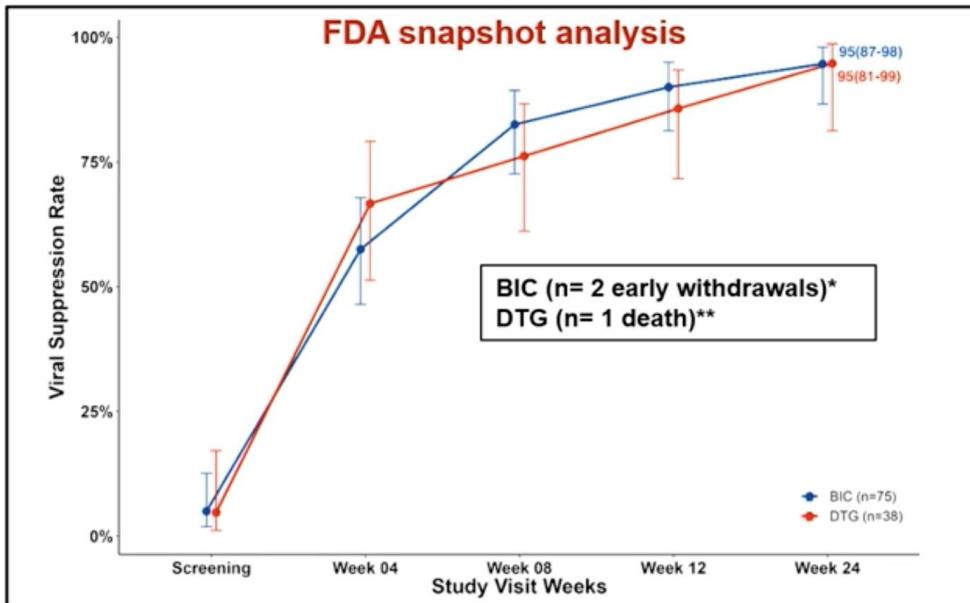


Figure 1: Viral Suppression Rate (FDA snapshot analysis) over study visits by Arm with two-sided 95% Confidence Interval

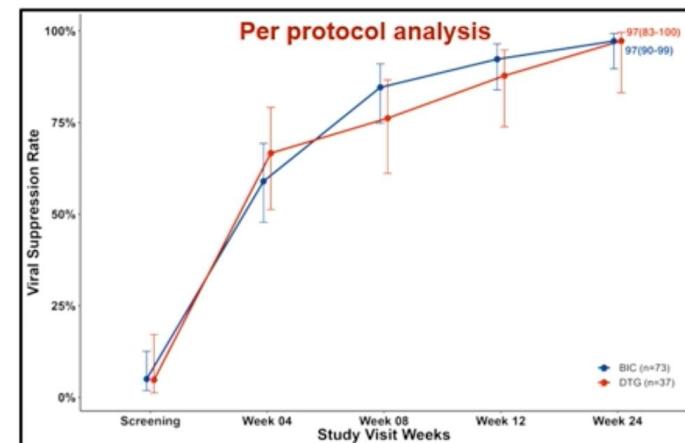


Figure 2: Viral Suppression Rate (per protocol analysis) over study visits by Arm with two-sided 95% Confidence Interval

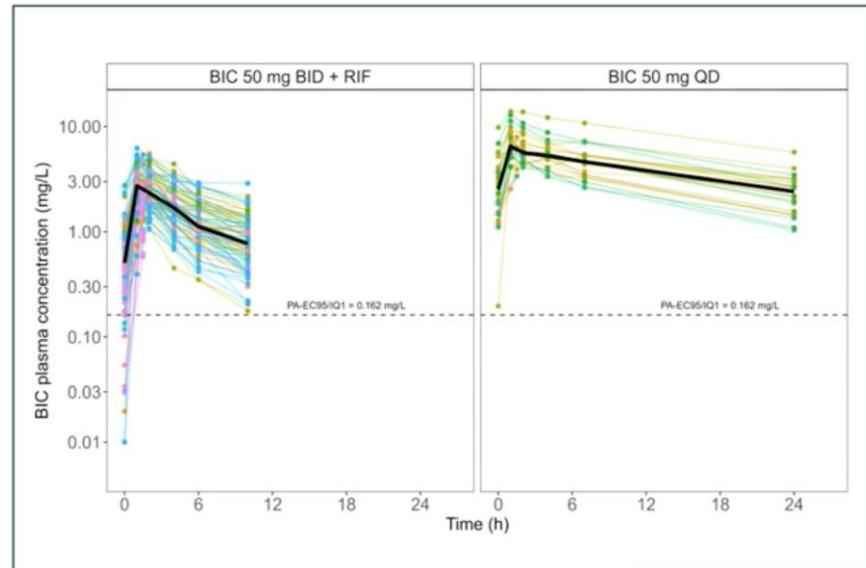
- Median CD4+ cell count (Q1, Q3) cells/mm³ at Week 24
 - BIC: 259 (213, 505)
 - DTG: 231 (170, 311)
- Median change in CD4+ cell count (Q1, Q3) cells/mm³ at Week 24
 - BIC: 96 (35, 137)
 - DTG: 69 (27, 122)

Viral suppression rates were high and similar in participants receiving BIC/FTC/TAF vs DTG/3TC/TDF

Summary of Adverse Events

n (%)	BIC (n=80)	DTG (n=42)
Any AE	80 (100)	42 (100)
Most frequently occurring AEs in either group		
Increased Amylase	44 (55)	23 (55)
Arthralgia	31 (39)	18 (43)
Peripheral neuropathy	21 (26)	21 (50)
Hyperglycaemia	28 (35)	14 (33)
Proteinuria	26 (33)	13 (31)
Anaemia	23 (29)	14 (33)
Decreased creatinine clearance	22 (28)	13 (31)
Any serious AE (SAE)	9 (11)	3 (7)
Any Grade 3 and 4 AEs		
Grade 3	30 (38)	15 (36)
Grade 4	6 (8)	6 (14)
Grade 3 and 4 Liver Chemistry Abnormalities		
Grade 3	3 (4)	3 (7)
Grade 4	1 (1)	0 (0)

NO AE's leading to treatment discontinuations, withdrawals or drug switches



*BIC Trough Concentration & AUC during and post-TB treatment

Trough concentration (C_{tau}) and AUC 0-24:
BIC 50 mg BID **with RIF**

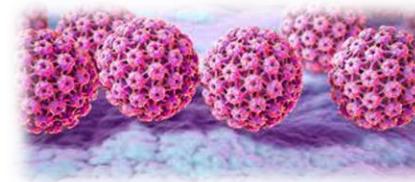
Time	n	BIC C _{tau} (mg/L) Geometric mean (CV%)	AUC 0-24 (mg*h/L) Geometric mean (CV%)
Weeks 4 and 12	75	0.397 (73.4%)	30.9 (42.2%)

Trough concentration (C_{tau}) and AUC 0-24:
BIC 50 mg QD **without RIF**

Time	n	BIC C _{tau} (mg/L) Geometric mean (CV%)	AUC 0-24 (mg*h/L) Geometric mean (CV%)
Week 32	22	2.29 (45.1%)	94.9 (35.9%)

Themed Discussion-07 | Anal Cancer Screening and Pathogenesis

1:30 PM - 2:30 PM • Four Seasons Ballroom 2-3



Themed Discussion Leader

**Timothy J. Wilkin, Weill Cornell Medicine,
New York, NY, USA**



Session Overview

- 760 Evaluation of the Performance of Different High-Resolution Anoscopy Triage Strategies in MSM LWH**

1:35 PM
Eugenio Nelson Cavallari, Federica Alessi, Chiara Eberspacher, Marco Ridolfi, Ilyass El Abboubi, Alessandra Latini, Angelina Pernazza, Daniela Bosco, Domenico Mascagni, Claudio Maria Mastroianni, Gabriella D'Ettorre

- 761 Anal Self-Sampling Is Suitable for Anal Cancer Screening**

1:40 PM
Among Men Who Have Sex With Men in Togo
Valentine M. Ferré, Arnold Sadio, Romane Guilbaud, Meryem Zaidi, Mawussé K. Attiso, Mounerou Salou, Laurent Abramowitz, Mélanie Bertine, Amivi P. Amenyah-Ehlan, Ephram Mensah, Claver Anoumou Dagnra, Jade Ghosn, Diane Descamps, Didier Koumavi Ekouevi, **Charlotte Charpentier**

- 759 Clinical Predictors and Outcomes of Anal Cancer for People With HIV in an Inception Cohort**

1:45 PM
Edward Cachay, Tari Gilbert, Huifang Qin, Christopher Mathews

- 762 Long-Term ART Is Not Associated With Reduced Anogenital Cancer Risk: A Case-Cohort Study**

1:50 PM
NIS
Maanasa Mendum, Taolo Ntloedibe, Memory Bvochora-Nsingi, Sebathu Chiyapo, Kutlo Manyake, Isaac Nkele, Rebecca Luckett, Tendani Gaolathe, Joseph M. Makhema, Peter Vuylsteke, Shahin Lockman, Scott Dryden-Peterson

#9. ASS (Anal Self Sampling) Study (#761)

ANRS-MIE 12400 DEPIST-H cohort

Togo. MSM VIH +/-

ASS: Dacron



ASP: cytobrush



testate

Proves online
de VIH i altres ITS

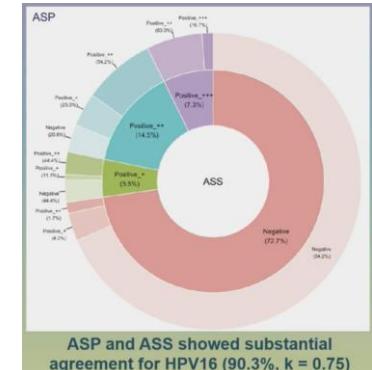
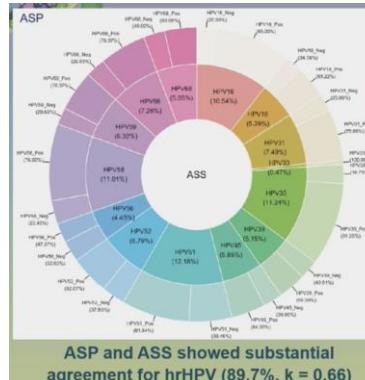


www.testate.org

- 188 MSM came to the M12 visit (107 living with HIV, median age = 23 y)
- All participants (99%) found the ASS procedure easy to carry out and 60% would prefer ASS to ASP at next visit while 19% would have no preference
- 6% of ASS samples were uninterpretable compared to 4% for ASP
- Albumin quantification reports a higher cellularity in ASS than ASP ($p<0.0001$), related to a lower volume of discharge

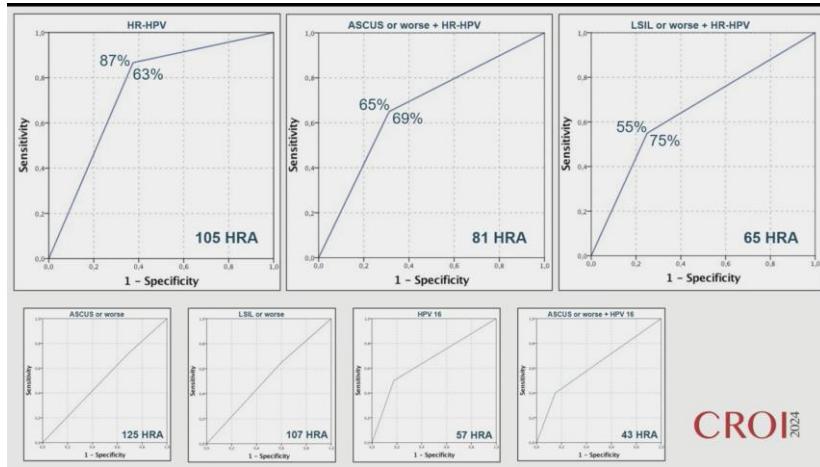
CONCORDANCE IN HPV TYPING BETWEEN ASS AND ASP

- At least one hrHPV was detected in 83% and 77% of ASS and ASP
- HPV16 was detected in 28% and 26% of ASS and ASP (all discordant samples had low HPV16 VL)



#9. ASS (Anal Self Sampling) Study (#761)

DOI: 10.1002/ijc.34850

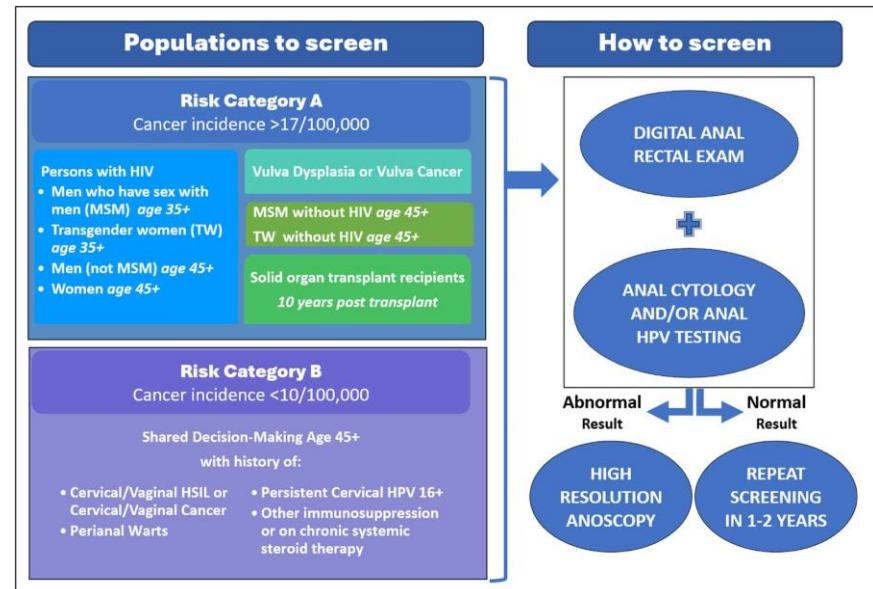


Cavallari N #761

SPECIAL REPORT

International Anal Neoplasia Society's consensus guidelines for anal cancer screening

Stier E et al. Int J Cancer. 2024; 1–9.



Recomendaciones de vacunación frente a VPH.

Revisión de la estrategia de una dosis.

Ponencia de Programa y Registro de Vacunaciones 2023

15 febrero 2024

Por lo tanto, las recomendaciones de vacunación frente a VPH quedarían como sigue:

- Vacunación sistemática de niñas y niños a los 12 años. Pauta de 2 dosis separadas al menos 6 meses.
- Captación de las mujeres no vacunadas hasta los 18 años y de varones no vacunados a partir de la fecha de introducción en el calendario de vacunación. Pauta de 2 dosis separadas al menos 6 meses.
- Personas no vacunadas con determinadas situaciones de riesgo. Pauta de 2 dosis separadas al menos 6 meses:
 - Hombres que tienen relaciones sexuales con hombres, hasta los 25 años (incluidos).
 - Situación de prostitución, hasta los 25 años (incluidos).
- En personas con inmunosupresión y hasta los 45 años (incluidos), se recomienda siempre una pauta de 3 dosis (0, 1-2 y 6 meses), independientemente de la edad de comienzo de la vacunación incluyendo:
 - Síndrome WHIM (IDP): vacuna que cubra tipos 6 y 11.
 - Infección por VIH.
 - Trasplante de órgano sólido o de progenitores hematopoyéticos.
- Mujeres, independientemente de la edad, que hayan recibido cualquier tratamiento de lesión intraepitelial de alto grado en cérvix (CIN2+). Pauta de 3 dosis (0, 1-2 y 6 meses).



Interactive Symposium-06 | Roundtable on DoxyPEP: Ready or Not...

4:00 PM - 5:30 PM • Mile High Ballroom 1-2-3

CME



35 | 4:00 PM | Introduction to DoxyPEP: Understanding the Issues

Chase A. Cannon, University of Washington, Seattle, WA, USA



36 | 4:20 PM | DoxyPEP: Should We Worry About Antimicrobial Resistance?

Beatrice B. S. L. Bercot, St Louis Hospital, Paris, France



37 | 4:40 PM | Implementation of DoxyPEP: Challenges and Opportunities

Stephanie E. Cohen, San Francisco Department of Public Health, San Francisco, CA, USA

Oral Abstract Session-04 | Game Changers in Prevention of HIV and Sexually Transmitted Infections

10:00 AM - 12:00 PM • Mile High Ballroom 4

Moderators

Ken Ho, University of Pittsburgh, Pittsburgh, PA, USA

Sharon Mannheimer, Harlem Hospital Center, New York, NY, USA



Introductions (Part 1)

123 | Phase I Safety, Tolerability, and Pharmacokinetics of Tenofovir Alafenamide Implants in African Women
10:05 AM

Tanuja N. Gengiah, Quarraisha Abdool Karim, Lara Lewis, Ishana Harkoo, Leila E. Mansoor, Johara Khan, Zainab Kharva, Nqobile Myeni, Natasha Samsunder, Marc M. Baum, John A. Moss, Catherine Hankins, Bruno Pozzetto, James F. Rooney, Salim S. Abdool Karim

124 | Final Results of ANRS 174 DOXYVAC: A Randomized Trial to Prevent STI in MSM on PrEP
10:13 AM

Jean-Michel G. Molina, Béatrice Berçot, Lambert Assoumou, Michele Algarte-Genin, Emma Rubenstein, Gilles Pilaloux, Christine Katlama, Laure Surgers, Cecile Bebear, Nicolas Dupin, Jean-Paul Viard, Juliette Pavie, Claudine Duvivier, Jade Ghosn, Dominique Costagliola

125 | Sustained Reduction of Bacterial STIs During the DoxyPEP Study Open-Label Extension
10:21 AM

Annie Luetkemeyer, Deborah Donnell, Stephanie Cohen, Julia C. Dombrowski, Cole Grabow, Clare E. Brown, Chase Cannon, Eric Vittinghoff, Hyman Scott, Edwin Charlebois, Susan P. Buchbinder, Diane Havlir, Olusegun Sogbe, Connie Celum, for DoxyPEP Study Team

126 | Doxycycline PEP: High Uptake and Significant Decline in STIs After Clinical Implementation
10:29 AM

LB Hyman Scott, Jorge Roman, Matthew A. Spinelli, Jason Bena, Thiago S. Torres, Susan P. Buchbinder

127 | Doxy-PEP Associated With Declines in Chlamydia and Syphilis in MSM and Trans Women in San Francisco
11:00 AM

Madeline Sankaran, David V. Glidden, Robert P. Kohn, Courtney Liebi, Thiago S. Torres, Susan P. Buchbinder, Annie Luetkemeyer, Monica Gandhi, Diane Havlir, Janet Q. Nguyen, Hyman Scott, Jorge Roman, Oliver Bacon, Trang Q. Nguyen, Stephanie E. Cohen

128 | Site-Based HIV Testing Assay Performance for Cabotegravir and TDF-FTC PrEP Failure in HPTN 083
11:08 AM

Raphael J. Landovitz, Emily Voldal, Brett Hanscom, Susan H. Eshleman, Estelle Piwowar-Manning, Philip Sullivan, Marybeth McCauley, Lydia Soto-Torres, James F. Rooney, Alex R. Rinehart, Myron S. Cohen, Mina Hosseinpour, Sinead Delany-Moretlwe, Beatriz Grinsztejn, for the HPTN 083 study team

129 | Safety and Pharmacokinetics of MK-8527, a Novel nRTTI, in Adults Without HIV
11:16 AM

Gillian Gillespie, Russ P. Carstens, Xiaowei Zang, Ryan Vargo, Yash Kapoor, Arinjita Bhattacharya, Jean-Francois Denef, Tom Reynards, Frédéric Vanhoutte, Sylvie Rottey, Randolph P. Matthews, S. Aubrey Stoch, Marian Iwamoto

130 | Phase I Study of Cabotegravir Long-Acting Injectable Formulations Supports ≥4-Monthly Dose Interval
11:24 AM

Kelong Han, Ronald D'Amico, Jörg Sievers, Darin Brimhall, Brian Spears, Dale Taylor, David Dorey, Paul Benn, Lisa Morgan, Randa Hareedy, Gilda Bontempo, Max Lataillade, William Spreen

131 | Cabotegravir Maintains Protective Efficacy in the Setting of Bacterial STIs: HPTN 083
11:32 AM

LB Meredith Clement, Brett Hanscom, Daniel Haines, Jose A. Bazan, Nuntis Chotirosniramit, Sharon Mannheimer, Kenneth H. Mayer, Mayara Seco Torres da Silva, Lydia Soto-Torres, Alex R. Rinehart, James F. Rooney, Marybeth McCauley, Beatriz Grinsztejn, Raphael J. Landovitz, for the HPTN 083 Study Team

#10. DOXY-PEP IMPLEMENTACIÓN FRISCO (#126LB)

SFDPH Recommended DoxyPEP in 10/2022



POPULATION HEALTH DIVISION
SAN FRANCISCO DEPARTMENT OF PUBLIC HEALTH



Health Update

Doxycycline Post-Exposure Prophylaxis Reduces Incidence of Sexually Transmitted Infections

October 20, 2022

SUCK.
FUCK.
GET
POUNDED RAW.
PREVENT STIs.



Make it your last
load of the night.

Doxy PEP prevents STIs including chlamydia, gonorrhea, and syphilis. When used within 24 hours (no later than 72 hours) after sex, it reduces infections by more than 60%.



sfaf.org/DoxyPEP



Oral Abstract Session-04

Monday, March 4, 2024

Doxycycline PEP: High Uptake and Significant Decline in STIs After Clinical Implementation

Hyman M. Scott

San Francisco Department of Public Health, San Francisco, CA, USA

Magnet Clinic @ Strut

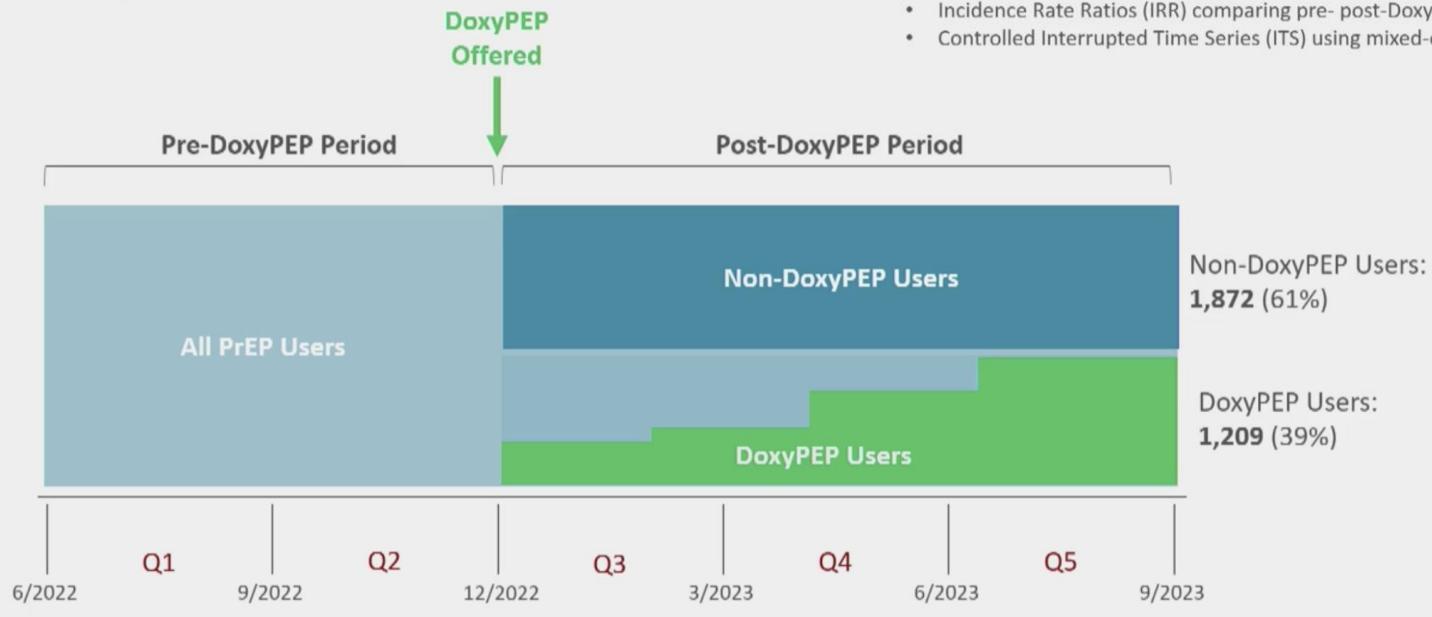
- Large sexual health clinic located in the Castro Neighborhood.
 - >8,000 clients seen annually for sexual health services
 - ~3,000 active PrEP users
- DoxyPEP rollout started in November 2022.

- Planned evaluation of STI incidence among PrEP users following DoxyPEP implementation.

Population and Methods

- **Study Population:** All active PrEP clients from 6/2022 through 9/2023 were included in this analysis.
 - DoxyPEP was offered to all PrEP clients at routine visits starting on 11/30/2022
- Two exclusive cohorts:
 - **DoxyPEP:** Clients who started DoxyPEP at any time after 11/30/2022
 - **Non-DoxyPEP:** Clients who never started DoxyPEP during the study period
- STI Incidence was evaluated per quarter:
 - Pre-DoxyPEP Period: 6/2022 through 11/29/2022
 - Post-DoxyPEP Period: 30 days after DoxyPEP initiation (among DoxyPEP users).
- Analysis:
 - Incidence Rate Ratios (IRR) comparing pre- post-DoxyPEP among DoxyPEP users, and
 - Controlled Interrupted Time Series (ITS) using mixed-effects Poisson regression

DoxyPEP Timeline



Race /Ethnicity	Total PrEP Clients N=3,081	DoxyPEP Uptake n=1,209
	n	%
American Indian or Alaska Native	9	56%
Asian	509	37%
Black or African American	126	37%
Hispanic or Latinx	723	43%
Multi-Racial	408	41%
Native Hawaiian or Pacific Islander	16	25%
White	1,095	37%
Declined/Other/Unknown	195	45%

Age (years)	Total PrEP Clients N=3,081	DoxyPEP Uptake n=1,209
	n	%
18-24	223	38%
25-29	636	40%
30-39	1,299	43%
40-49	535	36%
50-59	256	34%
60+	132	27%

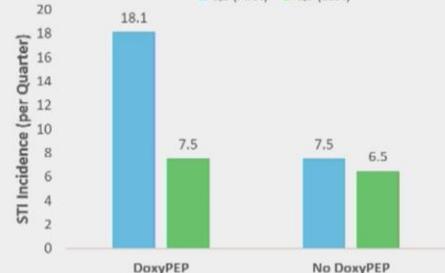
Gender Identity	Total PrEP Clients N=3,081	DoxyPEP Uptake n=1,209
	n	%
Cisgender man	2,763	39%
Cisgender woman	14	0%
Transgender woman	77	42%
Transgender man	32	25%
Non-binary	188	44%
Declined/Other/Unknown	7	57%

STI Incidence among DoxyPEP Users (Pre-Post Analysis)

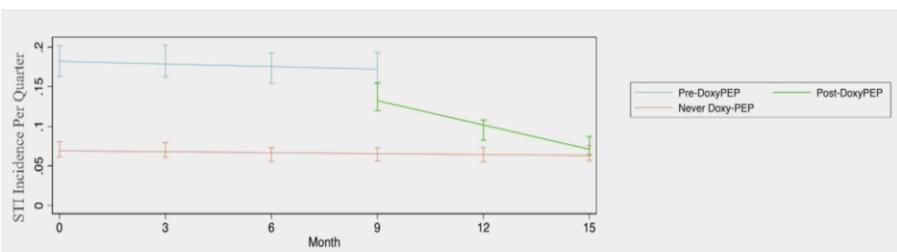
STI Incidence Between

First and Last Quarter of Implementation

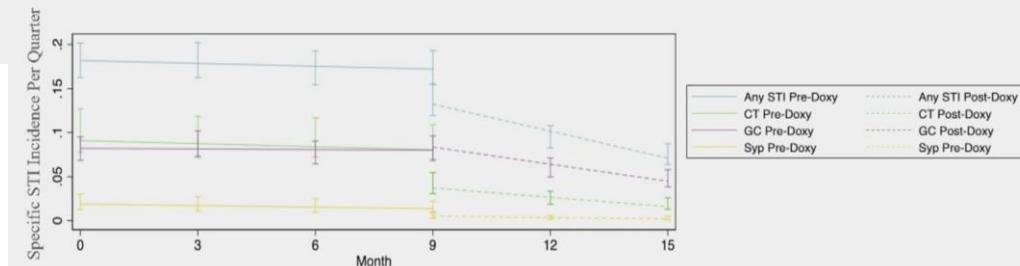
■ Q1 (First) ■ Q5 (Last)



	IRR	95% CI	p-value
Any STI	0.42	0.24 - 0.74	0.003
Chlamydia	0.33	0.23 - 0.46	<0.001
Syphilis	0.22	0.09 - 0.54	0.001
Gonorrhea	0.89	0.69 - 1.15	0.383



ITS: Any STI among DoxyPEP Users: 0.67, 95% CI: 0.46-0.96; p=0.032



S noticias-seimc <noticias-seimc-bounces@seimc.org> en nom de: SEIMC <listcorreo@...>
Per a: listcorreo@seimc.org

Dj. 14/3/2024 12:05

DOCUMENTO DE POSICIONAMIENTO

SOBRE EL USO PROFILÁCTICO DE DOXICICLINA PARA PREVENIR LAS ITS (DOXI-PEP) DE LA SOCIEDAD ESPAÑOLA DE ENFERMEDADES INFECCIOSAS Y MICROBIOLOGÍA CLÍNICA (SEIMC)

A TRAVÉS DEL GRUPO DE ESTUDIO EN INFECCIONES DE TRANSMISIÓN SEXUAL (GEITS), DEL GRUPO DE ESTUDIO DEL SIDA (GESIDA) Y DEL GRUPO DE ESTUDIO DE LOS MECANISMOS DE ACCIÓN Y DE LA RESISTENCIA A LOS ANTIMICROBIANOS (GEMARA)

Marzo, 2024

Así, en base a los resultados publicados hasta la fecha, los grupos de estudio de SEIMC firmantes de este documento de posicionamiento (GEITS, GeSIDA y GEMARA) consideramos que:

1. Hasta el momento, la doxiciclina no está aprobada para su uso en la prevención de las ITS; por lo tanto, su uso en este contexto se considera fuera de indicación.

2. La prescripción de Doxi-PEP debe ser considerada de forma individualizada y no generalizada.

3. La prescripción de la Doxi-PEP se debe considerar únicamente en HSH o MTG que tienen sexo con hombres y que han presentado ITS bacterianas en el último año.

4. La toma de Doxi-PEP (200mg/día) debe hacerse lo antes posible tras un contacto sexual oral, anal o vaginal sin preservativo, idealmente en las primeras 24 horas, y nunca después de las 72 horas.

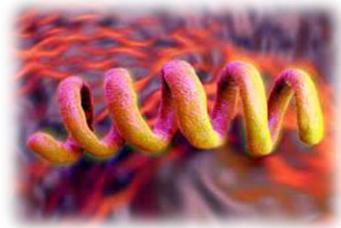
5. La decisión sobre la prescripción de la Doxi-PEP debe ser compartida con el paciente tras informarle de que su uso para la prevención de ITS está fuera de indicación y exponiéndole la efectividad, beneficios y riesgos que conlleva su administración.

6. La prevención de las ITS mediante la Doxi-PEP no debe realizarse a expensas de las medidas preventivas establecidas, por lo cual es fundamental informar al paciente sobre la importancia y necesidad de mantener relaciones sexuales con protección.

7. No se ha demostrado hasta el momento la eficacia de la Doxi-PEP en mujeres cisgénero ni en hombres transexuales, por lo que no deber ser considerada en este grupo de sujetos.

8. Es necesario generar evidencia sobre el impacto a medio y largo plazo que el uso de la Doxi-PEP puede tener en la selección y diseminación de resistencia a tetraciclinas u otras familias de antimicrobianos en microorganismos productores de ITS u otras patologías, así como en las alteraciones de la microbiota, por lo que consideramos necesario desarrollar estudios longitudinales que evalúen estos riesgos.
9. Es fundamental revisar periódicamente las evidencias que se generen en cuanto a los beneficios y riesgos que conllevan el uso de la Doxi-PEP con el fin de que los profesionales sanitarios puedan tomar las decisiones más oportunas para su prescripción.

Hablando de ITS y sífilis...



Interactive Symposium-03 | The Return of Syphilis

4:00 PM - 5:30 PM • Mile High Ballroom 1-2-3

CME

Objectives: At the completion of the session, participants will be able to:

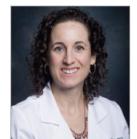
- List the current limitations, challenges, and prospects for syphilis testing
- Describe the current global epidemic of syphilis in pregnant people and the challenges with eradicating congenital syphilis
- Describe diagnostic and treatment challenges in the management of syphilis

Target Audience: This session is directed to physicians, laboratory scientists, and epidemiologists who have an interest in sexually-transmitted infections and syphilis in particular.

Level of Knowledge: It is assumed that the participants are familiar with syphilis etiology and the current epidemic of syphilis.

Conveners

Jodie A. Dionne, University of Alabama at Birmingham, Birmingham, AL, USA



Alex de Voux, University of Cape Town, Cape Town, South Africa



24 | 4:00 PM | Why Can't We Do Better at Diagnosing Syphilis?

Ina Park, University of California San Francisco, San Francisco, CA, USA



25 | 4:20 PM | The Burgeoning Epidemic of Congenital Syphilis

Angelica Espinosa Miranda, Ministry of Health, Brasilia, Brazil



26 | 4:40 PM | Syphilis Management Conundrums

Khalil G. Ghanem, The Johns Hopkins University School of Medicine, Baltimore, MD, USA



5:00 PM | Audience Questions and Answers

Final de viaje distinto...

CROI Denver 2006



CROI Denver 2024



Top Ten CROI 2024:



- 1) Together Take Me Home (#200LB)
- 2) bNAbs (#117)
- 3) CARES: CAB-RPV LA África (#122)
- 4) LATITUDE: CAB-RPV LA en problemas de adherencia (#212LB)
- 5) ISL-LEN QW oral (#208LB)
- 6) REPRIEVE PCOLCE (#151)
- 7) SLIM LIVER semaglutide (#159)
- 8) INSIGHT Study (#211LB)
- 9) ASS Study (#761)
- 10) DOXY-PEP IMPLEMENTACIÓN FRISCO (#126LB)

GRÀCIES!



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