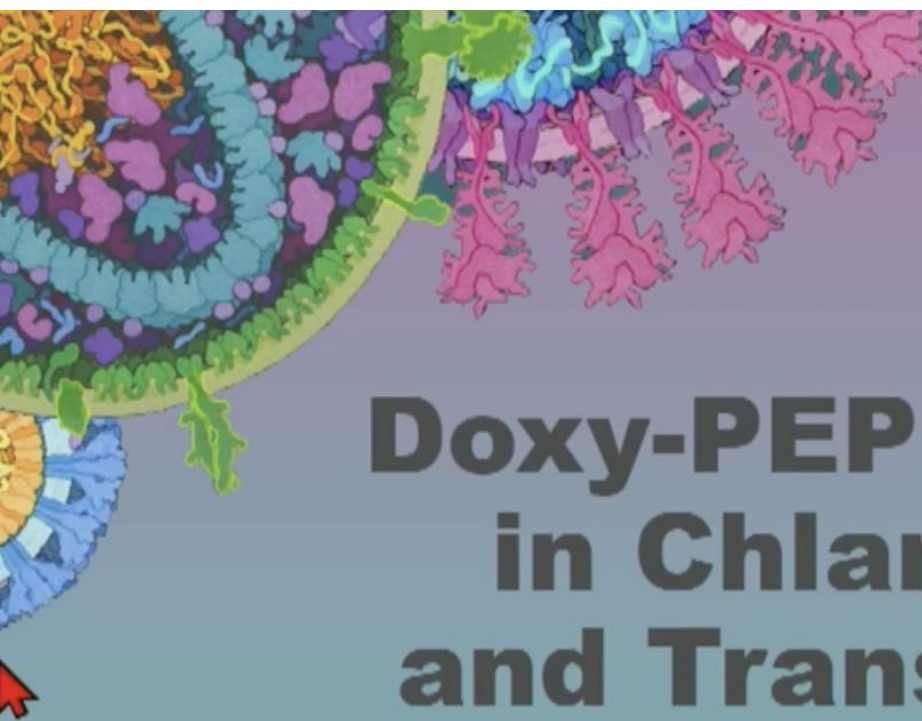


BEST OF CROI 2024



M. SEYDI, D. THIOUB & N'D. M. FALL

Service des Maladies Infectieuses et Tropicales, CHNU Fann, Dakar, Senegal



Oral Abstract Session-04

Monday, March 4, 2024

Doxy-PEP Associated With Declines in Chlamydia and Syphilis in MSM and Trans Women in San Francisco

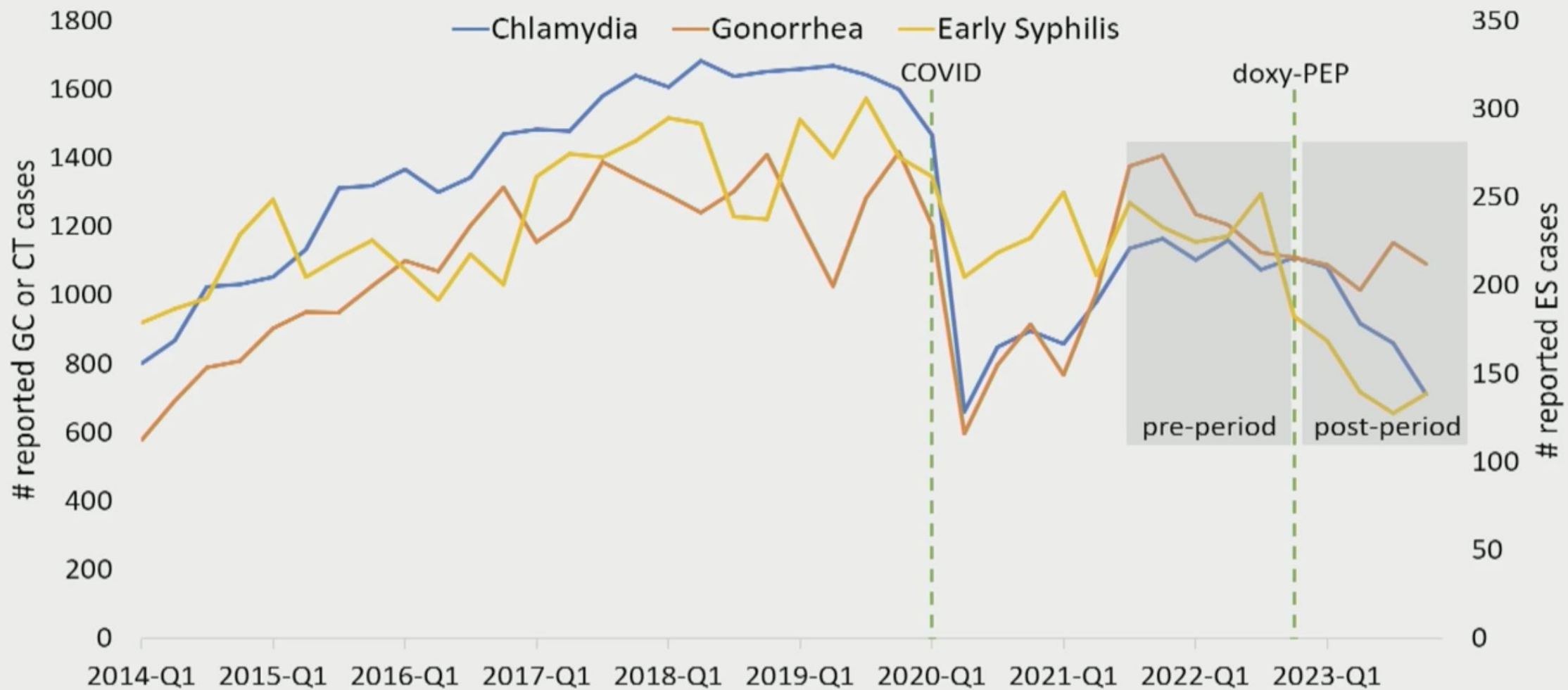
Madeline Sankaran

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

Disclosure: Ms Sankaran reported no relevant financial relationships with ineligible companies.

Background: STI Trends in San Francisco

MSM and TGW, 2014-2023



Objective

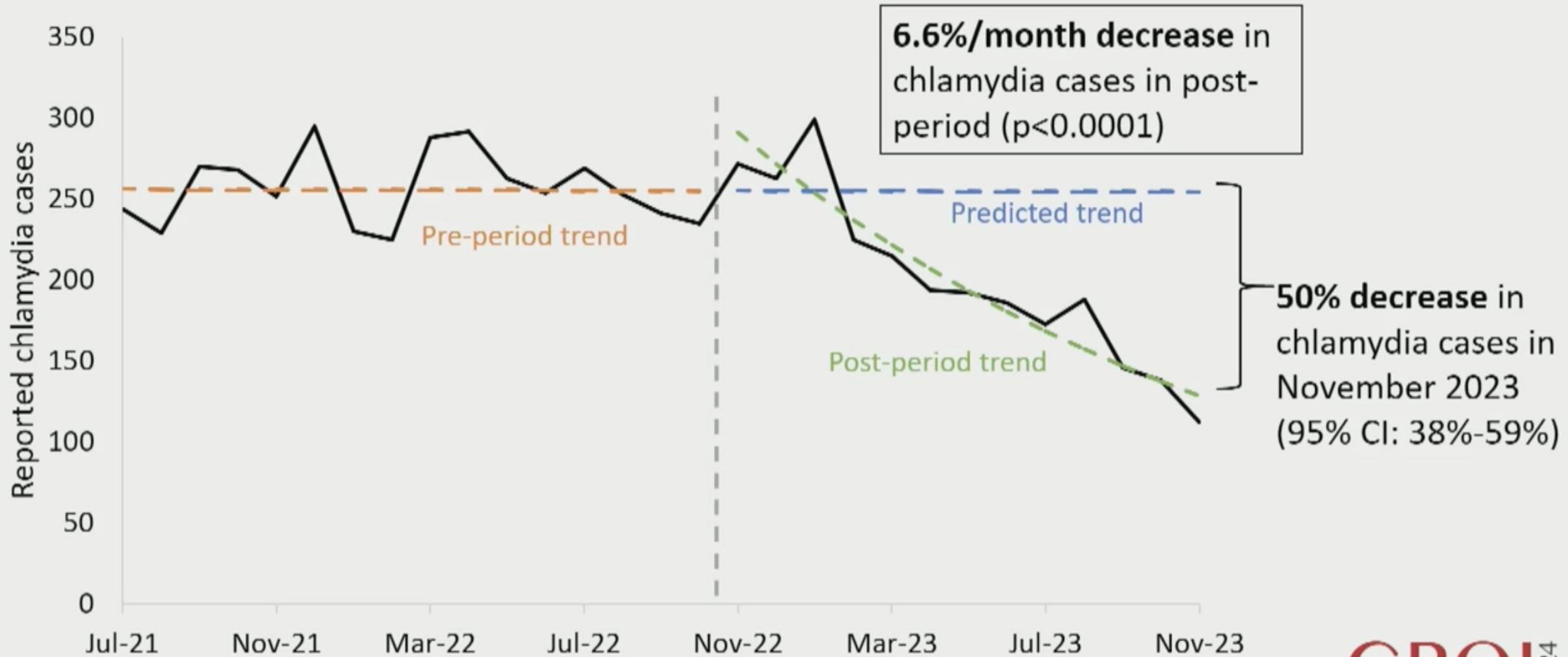
- To assess the ecological association between doxy-PEP program implementation and citywide STI incidence,
- Doxypep : doxycycline in post exposure to prevent getting an STI

Methods

- Interrupted time series analysis – **ecologic test of association**
 - Monthly case counts among MSM and TGW from citywide surveillance data
 - Chlamydia, gonorrhea, and early syphilis
 - Pre-period: Jul 1, 2021 - Oct 31, 2022
 - Post-period: Nov 1, 2022 – Nov 30, 2023
 - Supplemental analysis of chlamydia among cis women
- Autoregressive integrated moving average (ARIMA) models to predict post-period incidence in the absence of doxy-PEP
- Compared model predictions to observed trends in the post-period

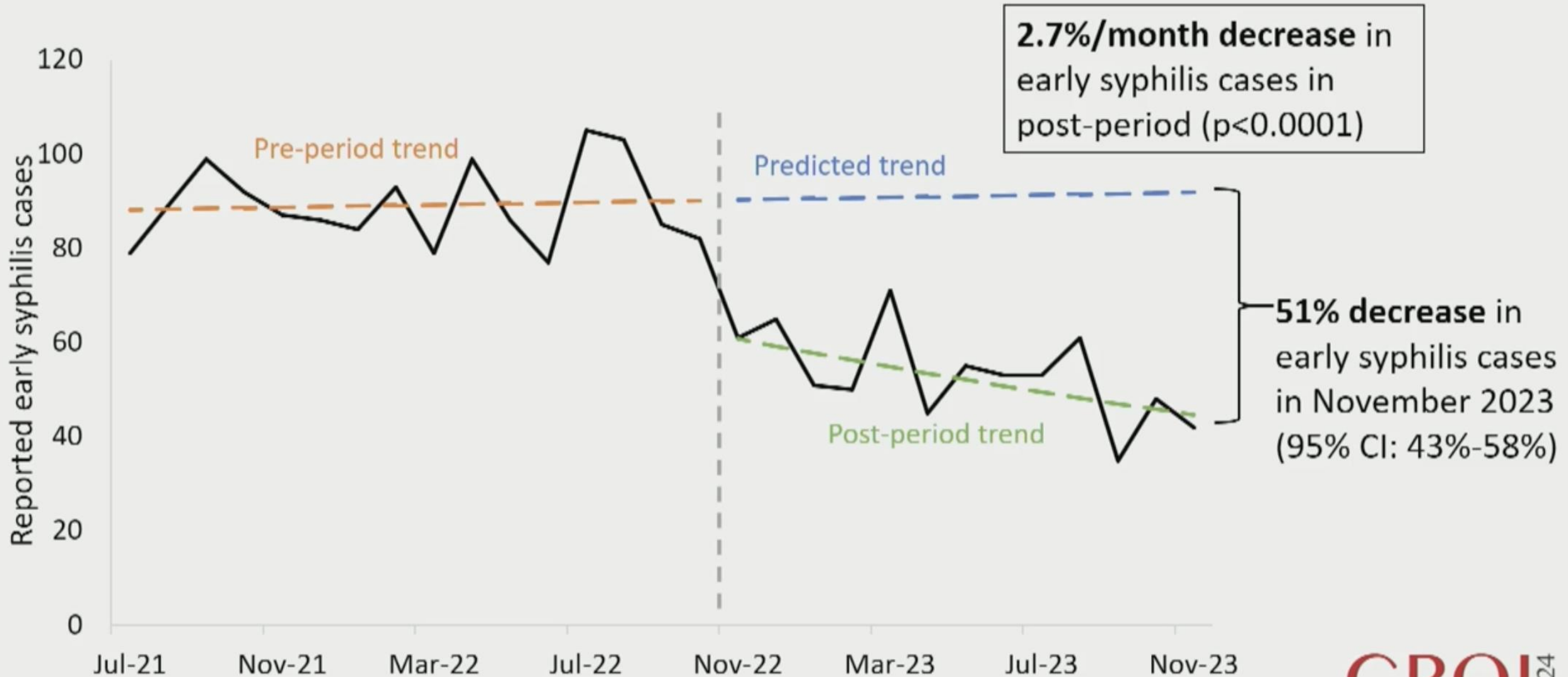
Results

Chlamydia Results: Monthly SF cases among MSM and TGW



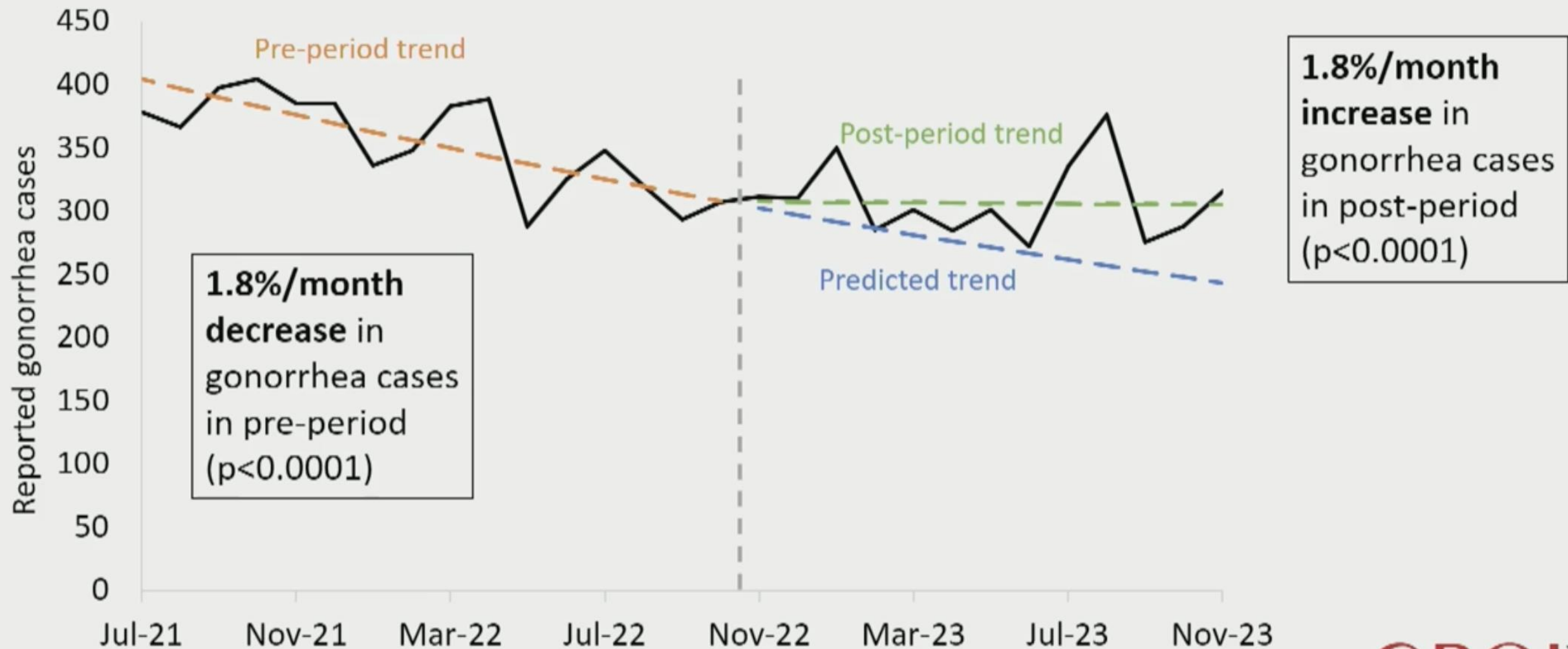
Results

Early Syphilis Results: Monthly SF cases among MSM and TGW



Results

Gonorrhea Results: Monthly SF cases among MSM and TGW



Conclusion

- Implementation of doxy-PEP guidelines was associated with significant decrease in CT and cases, but not GC cases , among MSM/TGW.

Long-Acting Injectable CAB/RPV is Superior to Oral ART in PWH With Adherence Challenges: ACTG A5359

Aadia I. Rana

University of Alabama at Birmingham, Birmingham, AL, USA

Disclosure: Dr Rana reported no relevant financial relationships with ineligible companies.

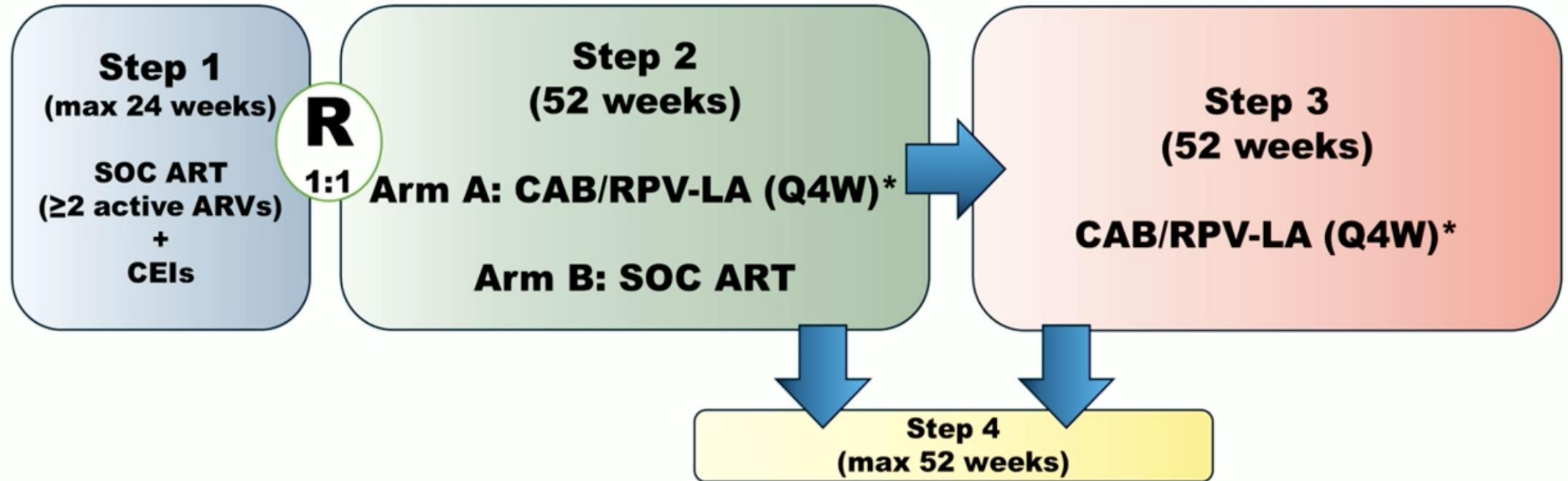
Background

- PLWH with adherence challenges were not include in previous Phase III clinical trials of CAB/RPV-LA
- CAB/RPV-LA (**injectable**) could offer a directly-observed in this population and facilitate treatment success

Objective

To demonstrate the superior efficacy of CAB/RPV-LA monthly compared to daily oral SOC in PWH with adherence challenges.

Study design



CEIs= conditional economic incentives

*Optional Oral lead-in

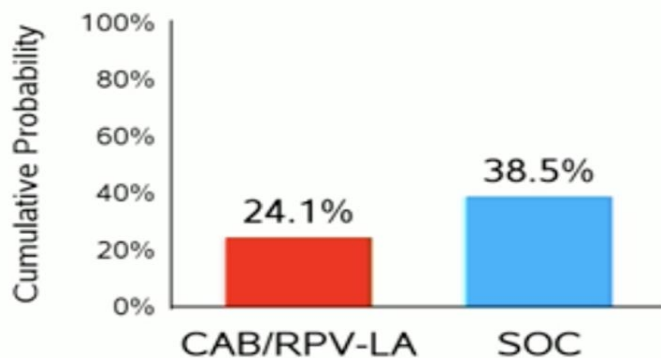
Primary Outcome: Regimen failure defined as the earliest occurrence of confirmed virologic failure or treatment discontinuation in Step 2

Results-All Outcomes

Primary Outcome

Regimen Failure

Difference Nominal 98.75% CI
 -14.5% (-29.8%, 0.8%)



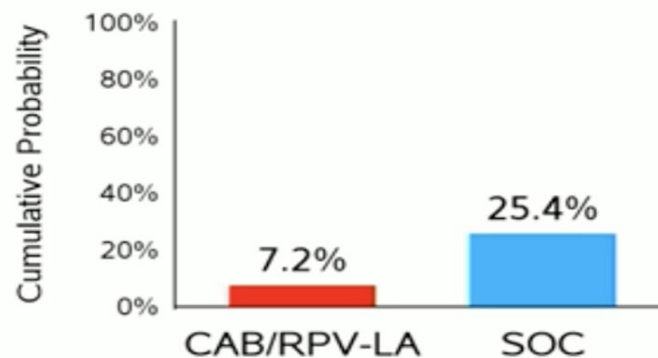
Number of participants

Regimen Failure	CAB/RPV-LA	SOC
VF	5	28
TRT-DISC	23	19

Secondary Outcomes

Virologic Failure

Difference Nominal 98.75% CI
-18.2% **(-31.1%, -5.4%)**

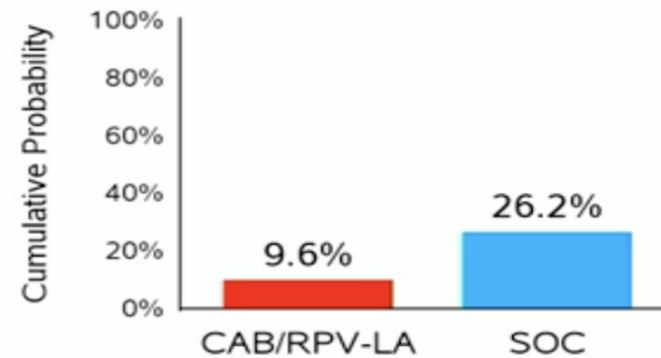


Number of participants

Virologic Failure	CAB/RPV-LA	SOC
VF	6	28

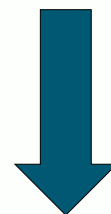
Treatment-related Failure

Difference Nominal 98.75% CI
-16.6% **(-29.9%, -3.3%)**

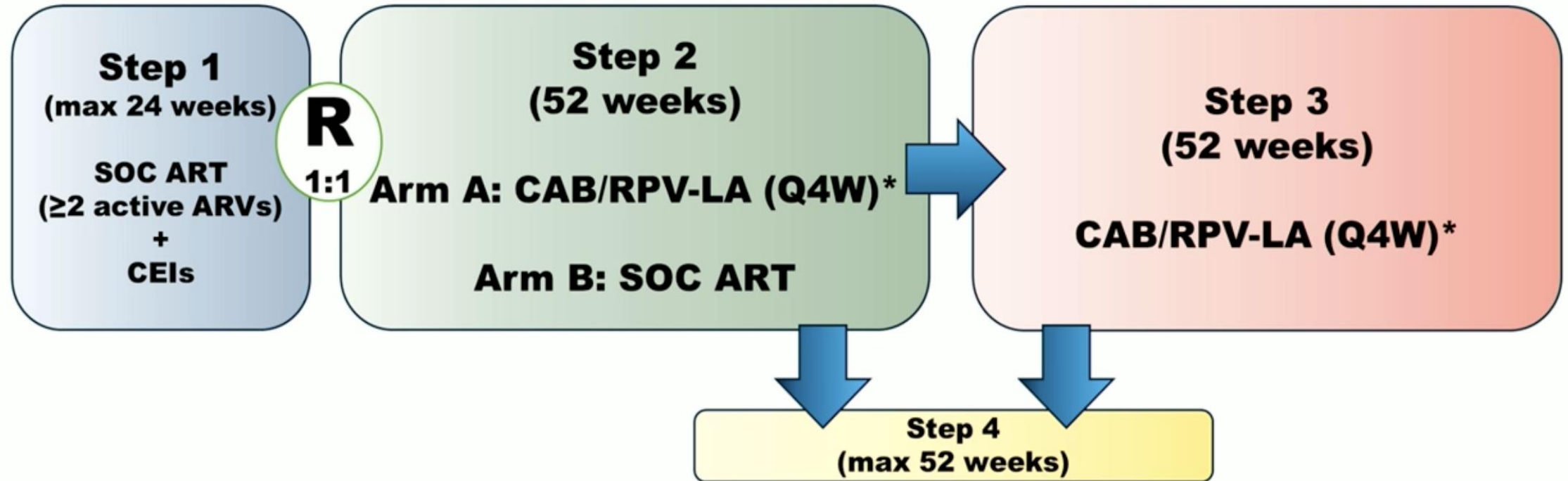


Number of participants

Treatment-related Failure	CAB/RPV-LA	SOC
VF	6	28
TRT-DISC (AE)	3	1



Study design



CEIs= conditional economic incentives

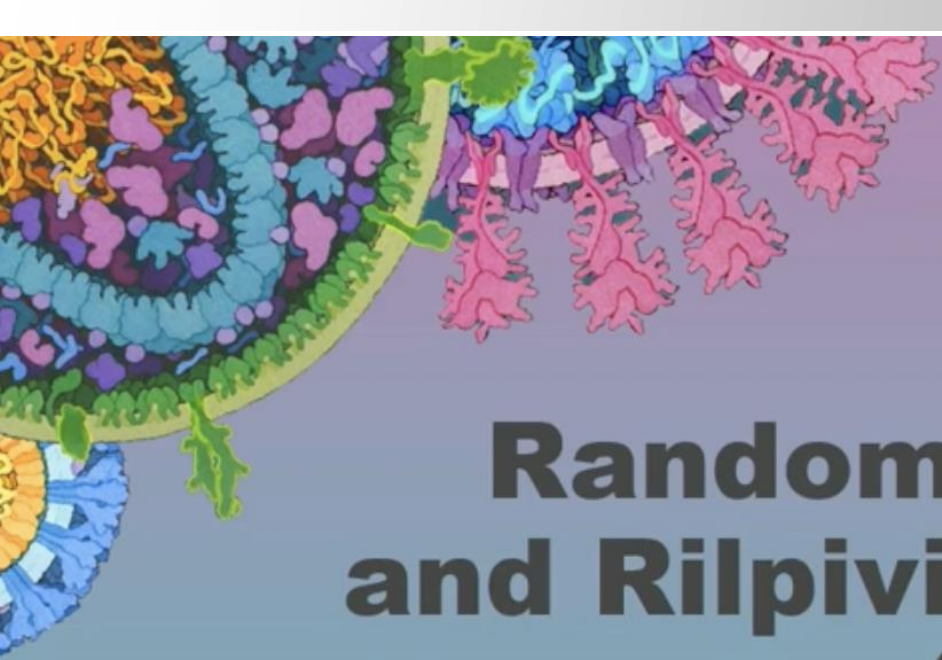
*Optional Oral lead-in

Primary Outcome: Regimen failure defined as the earliest occurrence of confirmed virologic failure or treatment discontinuation in Step 2

Conclusion

When considering evaluation of all endpoints together, CAB/

RPV LA **monthly** demonstrated superior efficacy compared to **daily** oral in PWH with **adherence** challenges.



Oral Abstract Session-03

Monday, March 4, 2024

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

Nicholas Paton

London School of Hygiene & Tropical Medicine, London, UK

Disclosure: Nicholas Paton received research funding from Janssen

CROI 2024

Background

- Additional evidences is required to confirm CAB R LA effectiveness in public health approach in Africa. This requirement is due to differences observed between Africa and Northern countries where these LA were studied.
 - Contrary to US an Europe, In Africa
 - People are **mostly** black,
 - VIH-1 subtypes are **usually** non B subtypes ,
 - Prior treatment exposure on INNRT is more **frequent**
 - Prevalence of pre-existing INNRT resistance is **higher**
 - Treatments and monitoring strategies plus limited more .
-

Objective

- To determine the non inferiority of the switching from **daily** SOC to CAB + RP LA (**injectable**) every **8 weeks to continuing daily** oral (SOC) as maintenance therapy in a public health approach in subsaharan Africa

Study Design

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

Main eligibility criteria

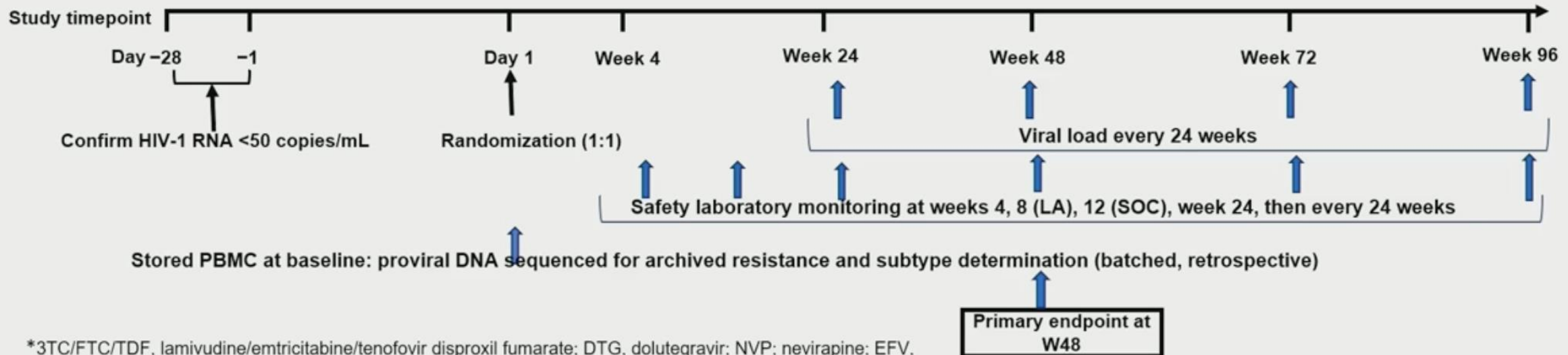
- ≥18 years of age
- On stable oral therapy:
TDF + 3TC/FTC + DTG/NVP/EFV*
- HIV-1 RNA <50 copies/mL at
≥4-12m prior to and at screening
- No history of Rx failure
- No HBV infection

Study treatment

Oral ART (SOC)
TDF + 3TC/FTC + DTG/NVP/EFV
n=256

Optional
Oral
CAB + RPV

CAB (600 mg) + RPV (900 mg) LA
IM Q8W
n=256



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

Outcomes & Analysis

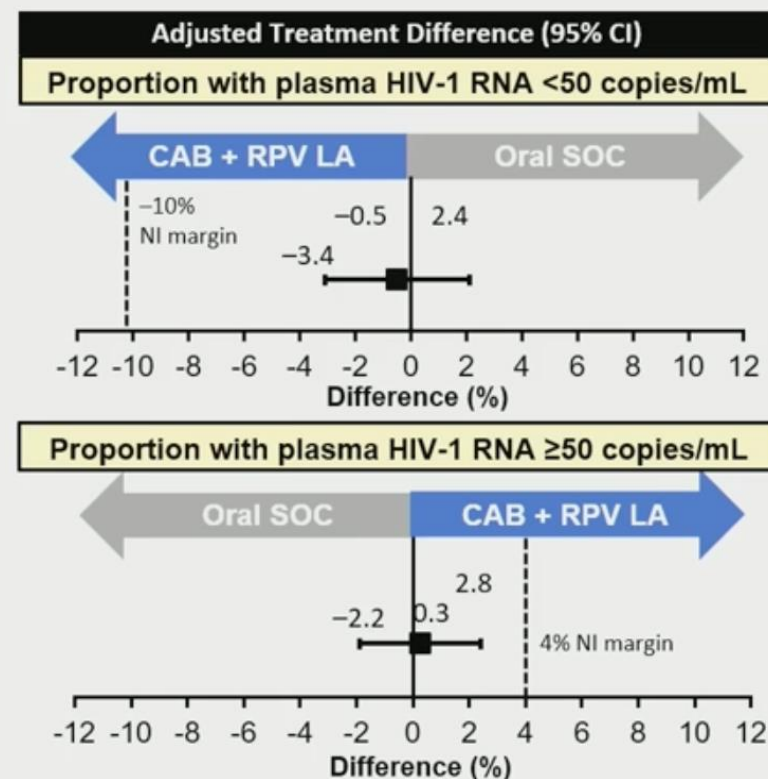
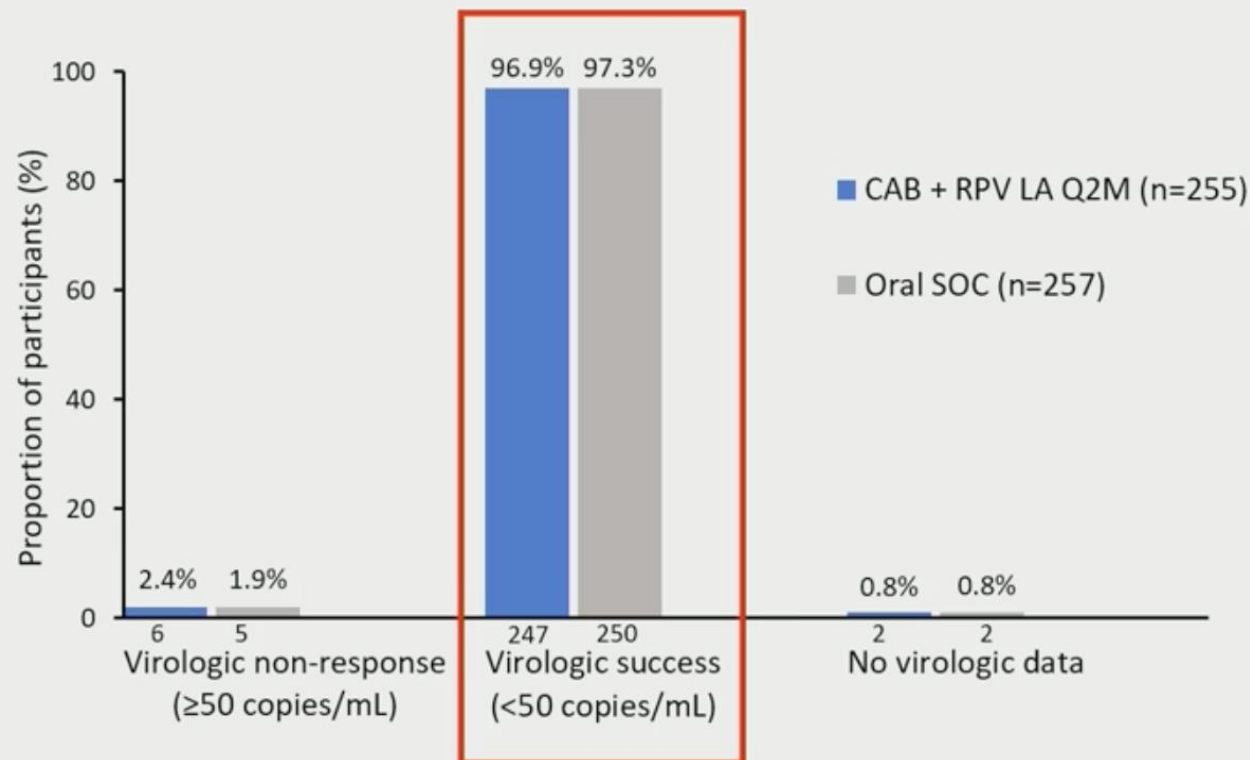
■ Primary outcome

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

■ Secondary outcomes

- Proportion of participants with plasma HIV-1 RNA \geq 50 copies/ml at week 48 (FDA snapshot, ITT, 4% NI Margin)
 - Safety and tolerability
 - Treatment satisfaction (HIV Treatment Satisfaction Questionnaire change version; HIVTSQc)
-

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

Safety: Adverse events

Participants with at least 1 AE, n (%)	CAB + RPV LA (n=255)	Oral ART (SOC) (n=257)	Difference (95% CI)
Grade ≥3 AE	24 (9.4)	10 (3.9)	5.5 (1.2 to 9.8)
Related to study drug *	3 (1.2)	2 (0.8)	0.4 (-1.3 to 2.1)
Serious adverse event	3 (1.2)	5 (1.9)	-0.8 (-2.9 to 1.4)
Any (grade 1-4) AE	220 (86.3)	161 (62.6)	23.7 (16.4 to 30.0)
Excluding injection-site reactions	181 (71.0)	161 (62.6)	8.4 (-0.3 to 16.5)
Leading to study drug discontinuation **	1 (0.4)	3 (1.2)	-0.8 (-2.3 to 0.7)

* Grade ≥3 AEs considered to be drug-related AEs were:

- injection-site nodule, increased LDL cholesterol, and proteinuria in the CAB + RPV LA arm
- decreased estimated glomerular filtration rate (eGFR) and increased blood glucose in the oral ART SOC arm

** Grade 1-4 AEs leading to study drug discontinuation were:

- injection-site sterile abscess in the CAB + RPV LA arm
- decreased eGFR, increased blood glucose and osteoporosis in the oral ART SOC arm

Treatment Satisfaction

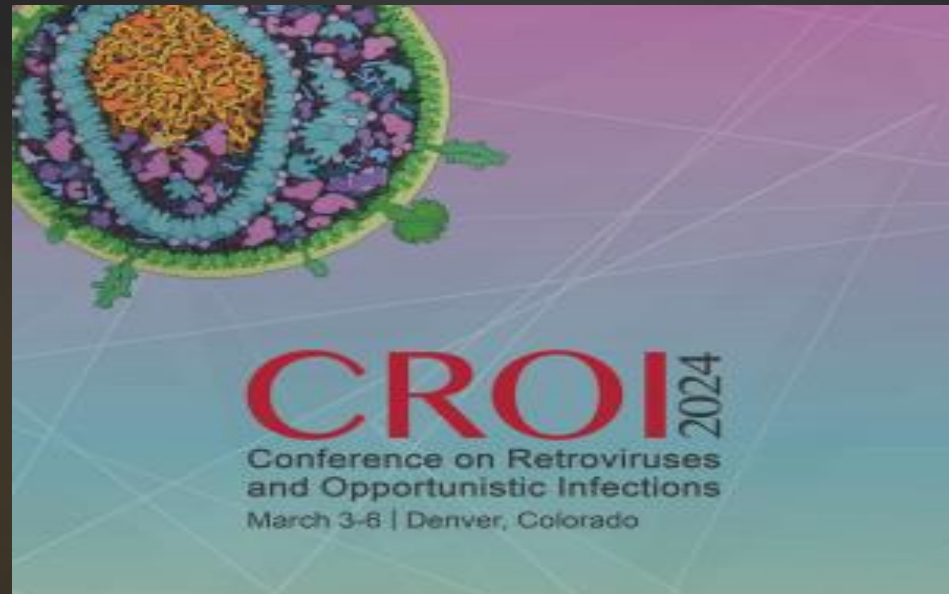
	CAB + RPV LA (n=253)	Oral ART (SOC) (n=255)	Adjusted mean difference (95% CI)	P value
Baseline (HIVTSQs)	53.6 ± 10.5	52.0 ± 12.5	-	-
Change at week 48 (HIVTSQc)	28.0 ± 0.65	17.6 ± 0.64	10.4 (8.7 to 12.2)	<0.001

- Treatment satisfaction score increased from baseline to week 48 to a greater extent in participants who switched to CAB + RPV LA vs. those who continued oral SOC

Conclusion

- CAB and RPV LA every **8 weeks** showed non-inferior efficacy to **daily** SOC for the maintenance of virologic suppression HIV-1 and must be taken into account in a public health approach in subsaharan Africa

Changes in Liver Fibrosis Stage Among People Living With Untreated Hepatitis B in Senegal Tenofovir-Containing Therapy



Adrià Ramírez Mena, Bruce Wembulua Shinga, Aboubakar S. Badiane, Kiné Ndiaye, Judicaël Tine, Alassane Ndiaye, Ndeye Maguette Fall, Hubert Akotia, Melissa S. Pandi, Daye Ka, Louise Fortes, Ousseynou Ndiaye, Ndeye Fatou Ngom, Moussa Seydi, Gilles Wandeler. CROI 2024 Abstract eBook. 2024; 215

Background

- Persons with HBV (pwHBV) who are ineligible for antiviral therapy represented 80% of patients in our Cohort and must be follow up.
- Nevertheless, it is unclear how stable liver **fibrosis stages** remain over time.

Objective

- We assessed changes in liver **fibrosis stage** in persons infected with **hepatitis B virus** followed in a SEN-B cohort in SMIT and CTA , Dakar, Senegal

Methods

- We included HBsAg-positive individuals who had not received antiviral treatment during the establishment of the SEN-B cohort from 2019 to 2023
- Liver stiffness was evaluated 6-monthly using transient elastography and was categorized as normal (<7.0 kPa; equivalent to Metavir stage F0-1), significant fibrosis (7.1-11.0 kPa; Metavir F2-3), or cirrhosis (>11.0 kPa; Metavir F4)
- We used multivariable logistic regression to explore potential risk factors of fibrosis progression, including sex, age, body mass index (BMI), ALT and HBV DNA levels, HBeAg, HDV co-infection and alcohol consumption

Results

Characteristics of the population

- N : 556
- Men : 51.1%
- Median age : 31 years (IQR : 25-39)
- BMI sup ou = 25/Kg/m² : 29.3%
- HBV DNA > 2000 IU/mL : 23.6%
- ALT > 40 UI : 5.2 %
- Progression Liver fibrosis : 4.5% (25/556)
 - and 96% (24/25) had F0-F1 fibrosis stage at inclusion

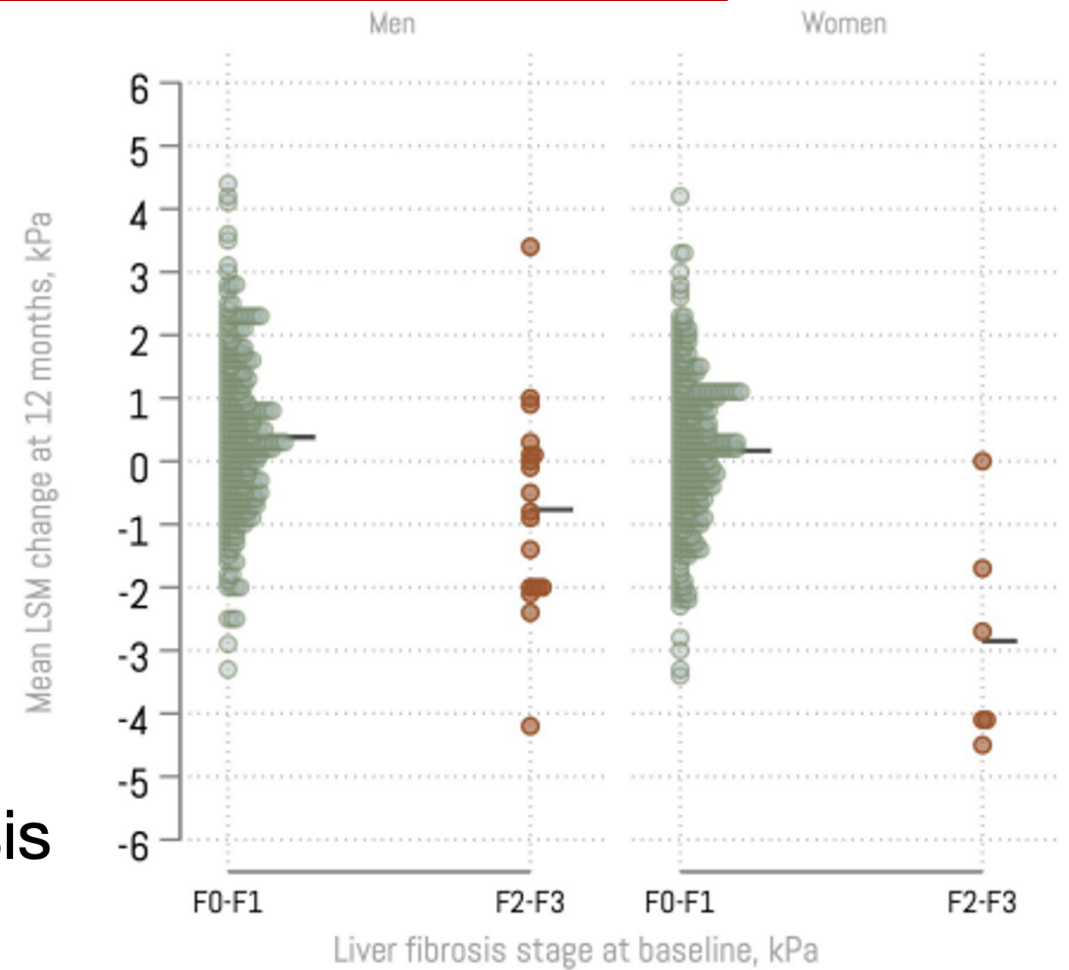
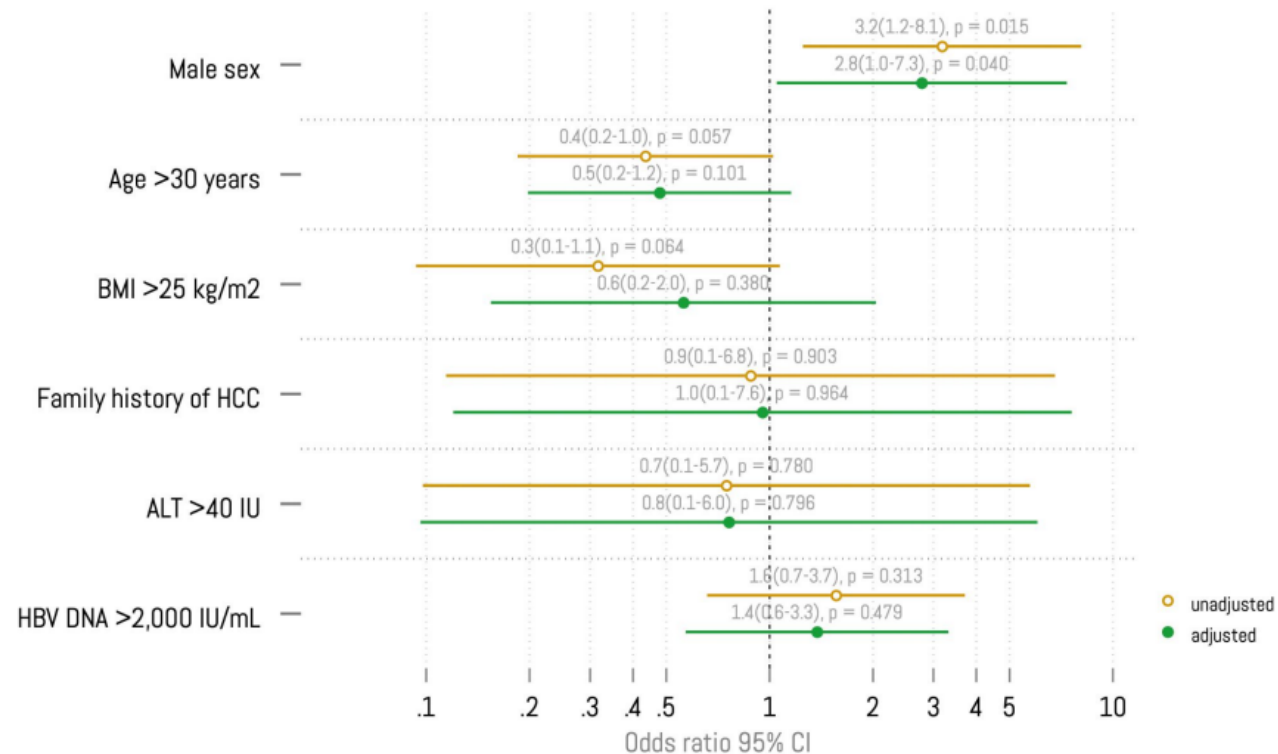


Figure 1: Mean LSM change at 12 months, by sex

Results

Predictors of liver fibrosis progression

- In multivariable analyses, male sex (adjusted odds ratio 2.77, 95% confidence interval 1.05-7.33) was the only factor associated with fibrosis progression (Figure 3).



Footnote: The variables [HBsAg-positivity] and [Hazardous drinking] were removed from the model due to collinearity.

Figure 3: Predictors of liver fibrosis progression at 12 months of follow-up

Conclusion

- Five percent of People Living With Hepatitis B virus and untreated with TDF in Senegal experienced a progression of liver fibrosis stage during the first year of follow-up and this outcome was more likely in men than women
- Long-term data is urgently needed to understand the determinants of liver fibrosis **changes** in Africa

