

Cabenuva (CAB LA + RPV LA) Every 2 Months: ATLAS-2M Study

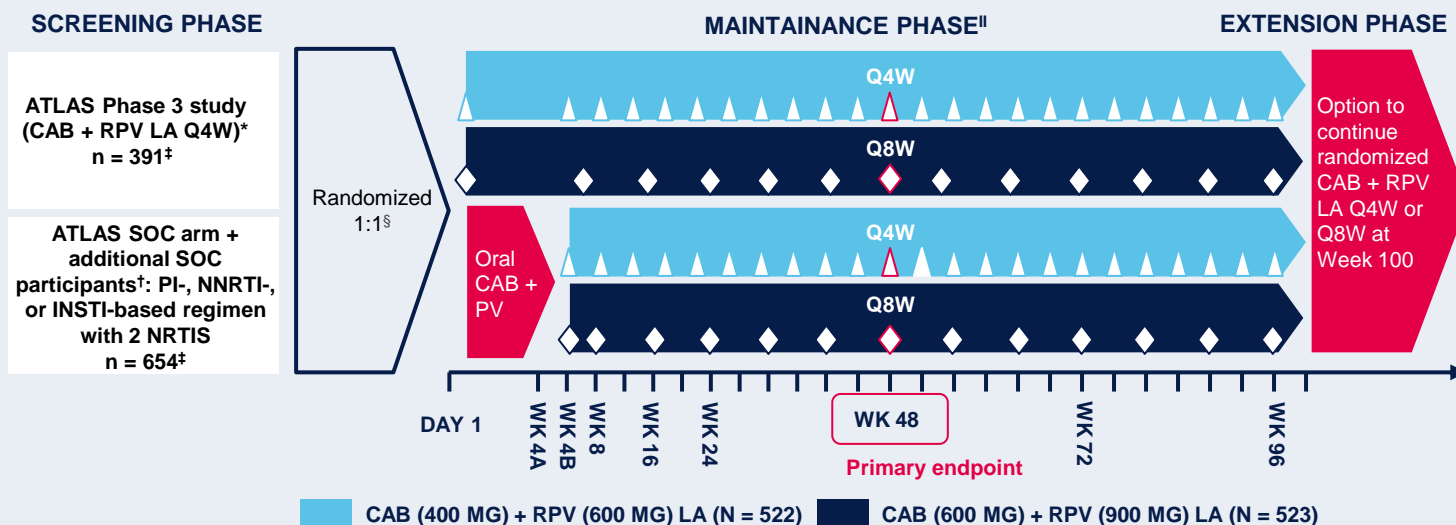
ATLAS-2M Study Design: Phase 3, randomized, multicenter, parallel-group, noninferiority, open-label study



Congress Presentation

Primary endpoint

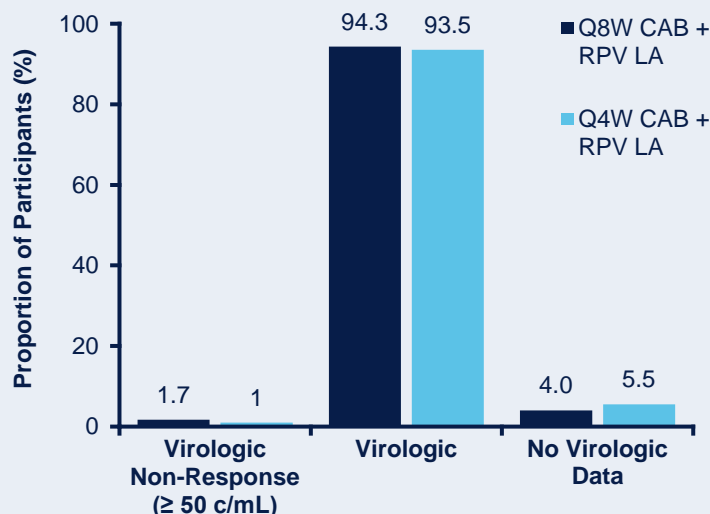
Proportion of participants with plasma HIV-1 RNA ≥ 50 c/mL at Week 48 (Snapshot, ITT-E); noninferiority margin of 4%.



*Participants transitioning from ATLAS must have been on CAB + RPV LA Q4W or a current ART regimen through at least Week 52 of the ATLAS study and had plasma HIV-1 RNA < 50 c/mL at screening. [†]SOC participants not transitioning from the ATLAS study were to be on uninterrupted current regimen (either the initial or second combined ART regimen) for at least 6 months prior to screening. Documented evidence of at least two plasma HIV-1 RNA measurements < 50 c/mL in the 12 months prior to screening, one within the 6- to 12-month window and one within 6 months prior to screening, was required. Participants were excluded if they had a history of virologic failure; evidence of viral resistance based on the presence of any resistance-associated major INSTI or NNRTI mutation (except K103N) from prior genotype assay results. [‡]Intent-to-treat exposed population. [§]1149 participants were screened, and 1049 participants were randomized. 4 participants did not receive study drug and therefore were not part of the ITT-E population. [¶]Participants who withdraw from the IM regimen must go into 52-week long-term follow-up if randomized regimen is not yet locally approved and commercially available. ^{||}Participants on oral lead-in treatment attended a Week 4 visit to assess tolerability. In participants in the Q4W arm who had an oral lead-in, the first LA dose was CAB 600 mg + RPV 900 mg.

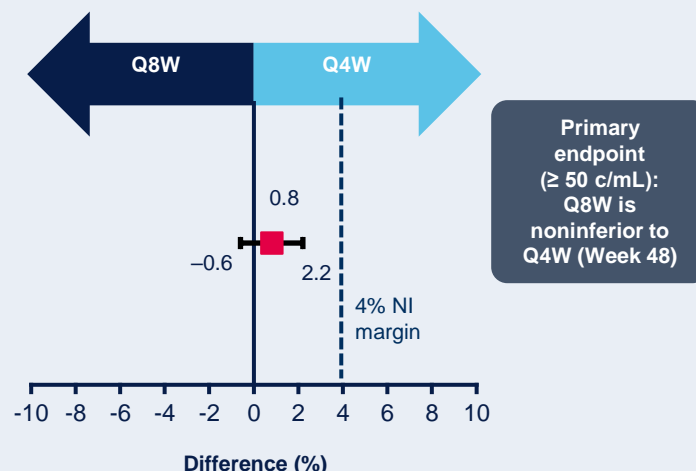
Results: Week 48

Virologic Snapshot Outcomes at Week 48 for ITT-E: Noninferiority Achieved for Primary and Secondary Endpoints



Participant numbers: n = 522 Q8; n = 523 Q4

Adjusted Treatment Difference at Week 48 (95% CI)*



*Based on CMH stratified analysis adjusting for the following baseline stratification factor: prior exposure to CAB + RPV (0 weeks, 1–24 weeks, > 24 weeks).

Results: Week 48

Virologic Failures

Summary of Confirmed Virologic Failures

| | n | CVFs n (%) | CVFs with RPV RAMs* | RPV RAMs Observed at Failure | CVFs with IN RAMs* | IN RAMs Observed at Failure |
|-----|-----|---------------|------------------------|---------------------------------|-----------------------|--|
| Q8W | 522 | 8 (1.5) | 6/8 | K101E, E138E/K, E138A, Y188L | 5/8 | Q148R, [†] N155H [†] |
| Q4W | 523 | 2 (0.4) | 1/2 | K101E, M230L | 2/2 | E138E/K, Q148R, N155N/H |

Post hoc baseline PBMC HIV-1 DNA results for Q8W arm:

- 5/8 CVFs had pre-existing major RPV RAMs (E138A, Y188L, Y181Y/C, H221H/Y, E138E/A, Y188Y/F/H/L)
- 1/8 CVFs had a pre-existing major IN RAM (G140G/R)
- 5/8 CVFs had L74I polymorphism (3 subtype A or A1, 1 subtype C, 1 complex subtype)

9/10 CVFs re-suppressed on fully active oral HAART (1/10 non-compliance on PI-based ART)

- All CVFs retained phenotypic sensitivity to dolutegravir

*For those with observed RAMs at failure: 6/6 Q8W and 1/1 Q4W CVFs had RPV resistance (fold-change > 2), and 3/5 Q8W and 1/2 Q4W CVFs had CAB resistance (fold-change > 2.5); CVF definition: 2 consecutive plasma HIV-1 RNA levels ≥ 200 c/mL after prior suppression to < 200 c/mL. [†]Or mixture.

Safety and Tolerability

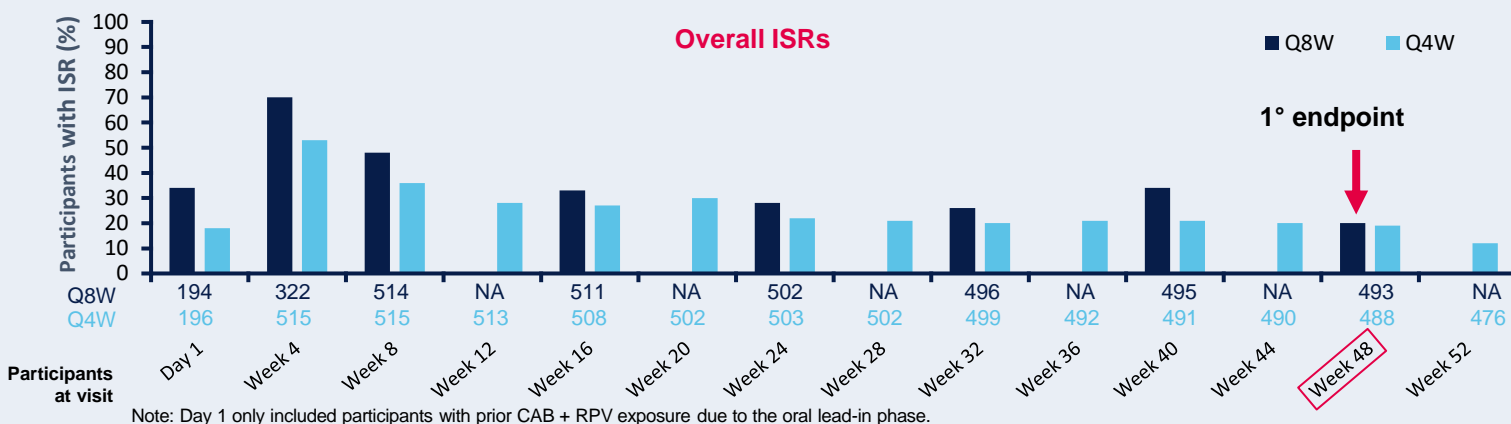
Similar Between Q8W and Q4W Dosing Arms: AEs Excluding ISRs

| | Q8W (n = 522) n (%) | Q4W (n = 523) n (%) |
|--|------------------------|------------------------|
| Drug-related AEs | 109 (21) | 125 (24) |
| Drug-related Grade ≥ 3 | 4 (< 1) | 5 (< 1) |
| Drug-related AEs leading to withdrawal | 5 (< 1) | 8 (2) |
| Drug-related SAEs* | 2 (< 1) | 1 (< 1) |

AEs were similar between the Q8W and Q4W dosing arms; Overall, 96% of drug-related AEs were Grade 1–2; Drug-related AEs led to withdrawal in 5 participants in the Q8W arm and 8 in the Q4W arm

*Drug-related SAEs were presyncope and acute pancreatitis in the Q8W group and allergic reaction in the Q4W group.

Injection Site Reaction



| Outcome, n (%), ITT-E | Q8W (n = 522) | Q4W (n = 523) |
|--|---------------|---------------|
| Number of injections | 8470 | 15,711 |
| Number of ISR events (events/injections)* | 2507 (30) | 3152 (20) |
| Grade ≥ 3 – severe [†] | 43 (< 1) | 48 (< 1) |
| Injection site reactions [‡] | | |
| Pain | 2014 (24) | 2567 (16) |
| Nodule | 113 (1) | 204 (1) |
| Discomfort | 92 (1) | 110 (1) |
| Withdrawals due to injection-related reasons, participant n (%) [§] | 6 (1) | 11 (2) |

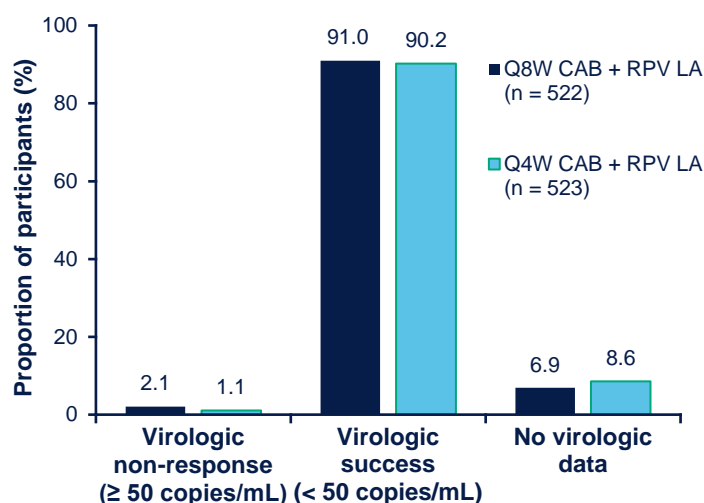
24,181 injections were administered in total; < 2% of participants discontinued due to injection-related reasons; The majority (98%, 5568/5659) of ISRs were Grade 1–2, with a median duration of 3 days in both arms

*All event-level ISR percentages are calculated from the total number of injections. Note: A single injection could result in more than one ISR. [†]There were no Grade 4 or Grade 5 ISRs.

[‡]ISRs occurring in > 1% of injections in either the Q4W or Q8W arms are shown. [§]Q8W: 5 participants had an ISR leading to withdrawal and 1 participant withdrew consent from the study due to injection intolerance; Q4W: 5 participants had an ISR leading to withdrawal and 6 participants withdrew consent from the study due to injection intolerance.

Results at Week 96 (Secondary Endpoint: proportion of patients with HIV-1 RNA ≥ 50 copies/mL)

Virologic Snapshot Outcomes at Week 96 for ITT-E²:



Confirmed Virologic Failures²

Summary of the 11 CVFs, 10 re-suppressed on alternative ART

| Regimen | N | CVFs N (%) | CVFs with RPV RAMs* | RPV RAMs at Failure | CVFs with INSTI RAMs* | INSTI RAMs at Failure |
|---------|-----|------------|---------------------|-------------------------------------|-----------------------|-------------------------|
| Q8W | 522 | 9 (1.7) | 7/9 | K101E, E138E/K, E138A, Y188L, Y181C | 5/9 | Q148R,† N155H† |
| Q4W | 523 | 2 (0.4) | 1/2 | K101E, M230L | 2/2 | E138E/K, Q148R, N155N/H |

*For those with observed RAMs at failure: 7/7 Q8W and 1/1 Q4W CVFs had RPV resistance (fold-change > 2), and 3/5 Q8W and 1/2 Q4W CVFs had CAB resistance (fold-change > 2.5); †Or mixture

— Between Weeks 48 and 96, one additional CVF occurred in the Q8W arm.

Safety²

The occurrence of adverse events was generally similar between the treatment arms and consistent with what was reported at Week 48

ISRs were most common AEs reported with ≥ 1 occurring in

80% of patients in Q8W
77% of patients in Q4W

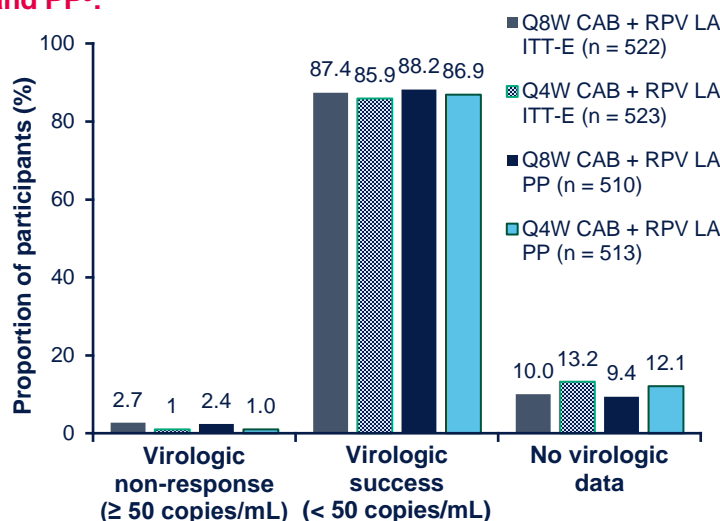
The most commonly reported non-ISR AEs were:

Pyrexia

Fatigue

Results at Week 152 (Secondary Endpoint: proportion of patients with HIV-1 RNA ≥ 50 copies/mL)

Virologic Snapshot Outcomes at Week 152 for ITT-E and PP³:



Injection Site Reactions³

Through Week 152, ISRs were mild to moderate in severity (99%); there were no Grade 4/5 ISRs

Confirmed Virologic Failures³

| Regimen | N | CVFs N (%) | CVFs with RPV RAMs* | RPV RAMs at Failure | CVFs with INSTI RAMs* | INSTI RAMs at Failure |
|---------|-----|-------------|---------------------|---|-----------------------|-------------------------|
| Q8W | 522 | 11 (2) | 9/11 | K101E, E138E/K, E138A, Y188L, Y181C*, M230M/L | 7/11 | Q148R,* N155H* |
| Q4W | 523 | 2 (< 1) | 1/2 | K101E, M230L | 2/2 | E138E/K, Q148R, N155N/H |

*or mixture

— An additional participant was identified as having non-protocol defined Virologic failure at Week 48 (Q8W). The participant had subtype A1, with RPV RAM E138K and IN mutation S230S/R observed at withdrawal; no RAMs to RPV or INIs were present at baseline; the participant resuppressed on an alternate regimen.

Safety³

| | Q8W | Q4W |
|---|-----|-----|
| ≥ 1 non-ISR adverse event through Week 152 | 90% | 94% |
| Non-ISR drug-related adverse events | 27% | 32% |
| Drug-related AEs leading to withdrawal | 1% | 2% |
| Drug-related Grade 3 or higher AEs | 2% | 2% |

For more information



Medical Information Response



Prescribing Information



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Some information contained in this response is outside the approved Prescribing Information. This product is not approved for the use described. This response is not intended to offer recommendations for administering this product in a manner inconsistent with its approved labeling. In order for Viiv Healthcare to monitor the safety of our products, we encourage healthcare professionals to report adverse events or suspected overdoses to the company at 877-844-8872. Please consult the attached Prescribing Information. This response was developed according to the principles of evidence-based medicine and, therefore, references may not be all-inclusive.

Abbreviations: AE = adverse event; ART = antiretroviral treatment; CAB = cabotegravir; CAB LA + RPV LA = cabotegravir + rilpivirine; CI = confidence interval; CMH = Cochran-Mantel-Haenszel test; CVF = confirmed virologic failure; HAART = highly active antiretroviral therapy; INSTI = integrase strand transfer inhibitor; ISR = injection site reaction; ITT-E = Intent to treat-exposed; LA = long-acting; NRTI = nucleoside reverse transcriptase inhibitor; NNRTI = nonnucleoside reverse transcriptase inhibitor; PBMC = peripheral blood mononuclear cell; PI = protease inhibitor; PP = per protocol; RAM = resistance associated mutation; RPV = rilpivirine; SAE = serious adverse event; SOC = standard of care; Q8W = every-8-week; Q4W = every-4-week.

References: 1. Overton ET, et al. CROI 2020; Boston, MA. Presentation 3334; 2. Jaeger H et al. *Lancet* 2021;8(11):E679-E689. DOI: [https://www.doi.org/10.1016/S2352-3018\(21\)00185-5](https://www.doi.org/10.1016/S2352-3018(21)00185-5); 3. Overton ET, et al. CROI, February 12-16, 2022, Virtual Event. Poster.