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High Effectiveness and Rare Virologic Failure in Treatment-Experienced Individuals on Long-Acting Cabotegravir + Rilpivirine Therapy Across Europe: Insights from the EuroSIDA Study



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PURPOSE

- Cabotegravir + rilpivirine long-acting therapy (CAB+RPV LA) is the first complete long-acting regimen approved for treatment-experienced, virologically suppressed (HIV-RNA<50 copies/mL) people with HIV.
- We evaluated clinical outcomes of CAB+RPV LA in real-world settings across Europe.

METHODS

- All adults with HIV initiating CAB+RPV LA (baseline) between January 2021 and December 2023 in the pan-European EuroSIDA cohort were included.
- We describe their characteristics, adherence, discontinuation, and virologic outcomes during follow-up.
- On-time injections were those received within +/-7 days of their next scheduled injection; delayed injections were injections occurring >7 days after target date; missed injections were those missed without receiving oral bridging therapy.
- Confirmed virologic failure (CVF) was defined as two consecutive viral loads (VLs) ≥200 copies/mL or one VL ≥200 copies/mL followed by CAB+RPV LA discontinuation within 1 month.

CONCLUSIONS

- In this real-world European cohort, CAB+RPV LA demonstrated high rates of virologic suppression and no CVF among individuals virologically suppressed at initiation, with no missed injections and only few delays.
- Most individuals who were viraemic at CAB+RPV LA initiation achieved virologic suppression, with CVF seen in 2/7 individuals.
- Virologic suppression was consistent across BMI categories.
- The adverse events leading to discontinuation are in line with the safety profile described in the summary of product characteristics.
- These real-world data support prior studies demonstrating durable effectiveness and tolerability of CAB+RPV/LA.

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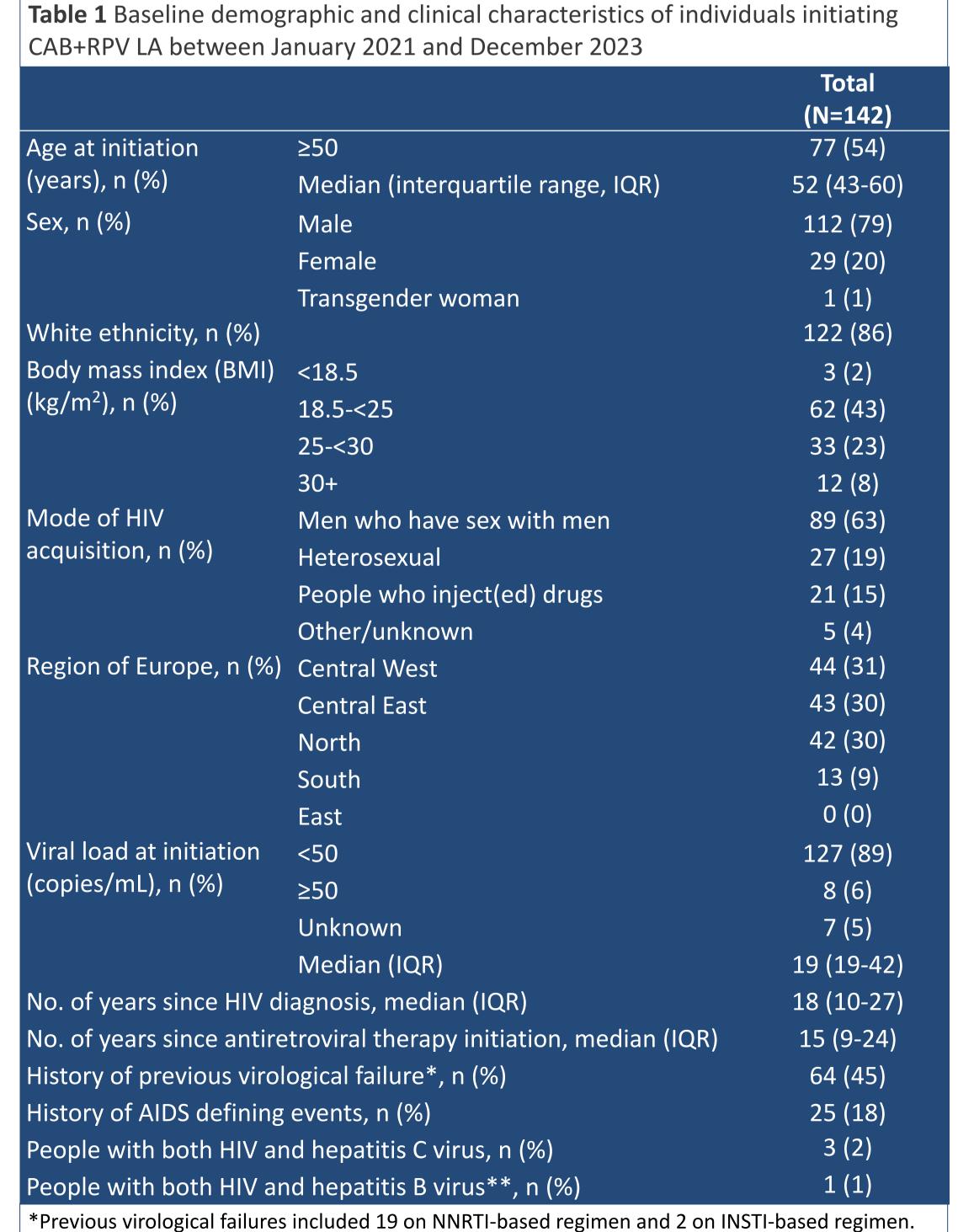
RESULTS

Among 13,419 individuals under follow-up in the EuroSIDA cohort, 142 initiating CAB+RPV LA were included in the analysis; median age was 52 years (IQR: 43-60), 79% males and 86% white (**Table 1**).

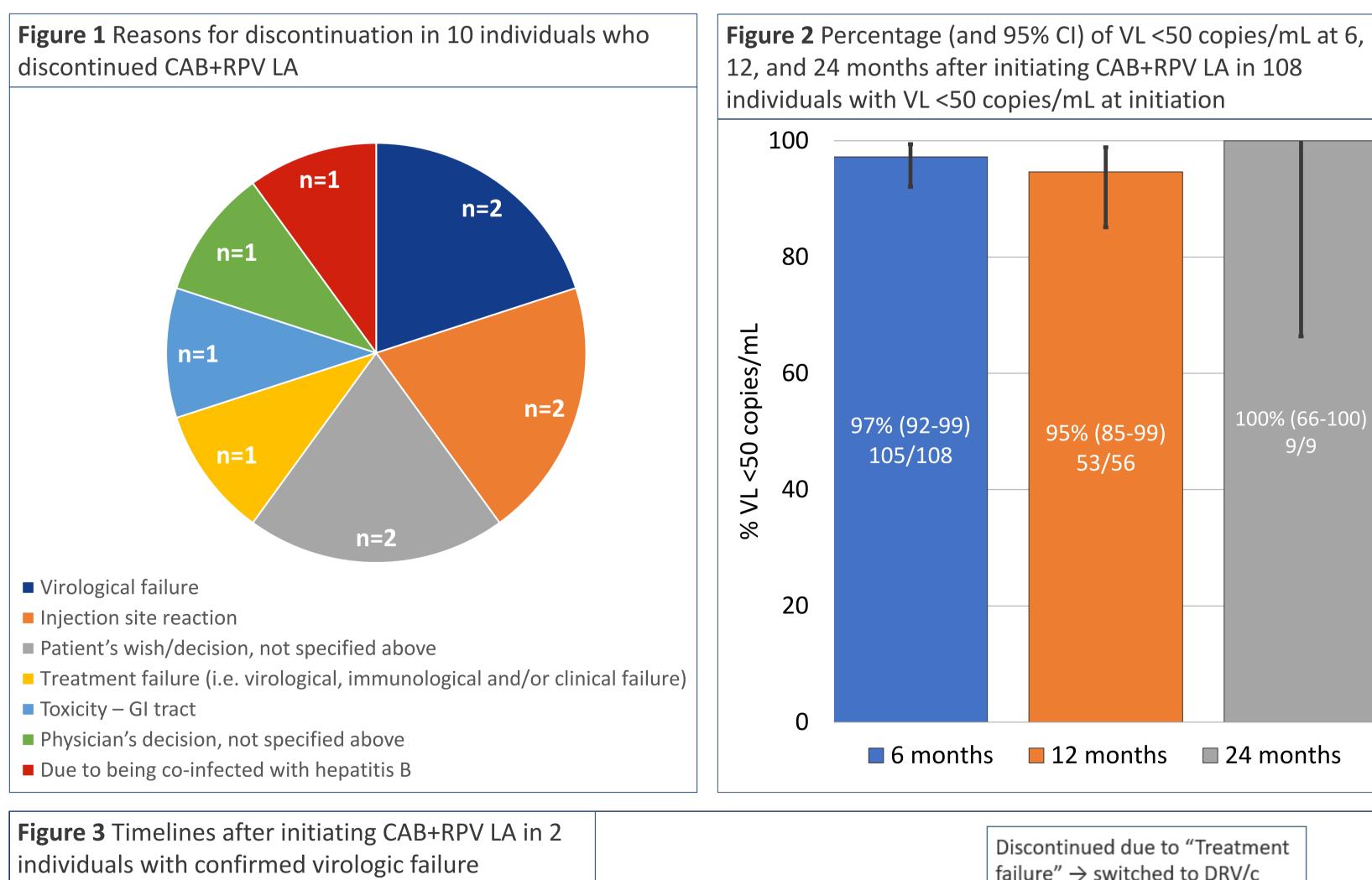
Most individuals (94%) had on-time injections, 8 (6%) had one delayed injection (median delay 9 days (IQR: 8-11)) after the target window and no individual missed any injections. Most (93%) remained on CAB+RPV LA over a median follow-up of 323 days (IQR: 204-466) at the time of analysis. Ten individuals (7%) discontinued CAB+RPV LA without resistance tests performed (Figure 1).

In a subset of 115 individuals with baseline and follow-up VL assessments:

- 108 individuals had VL <50 copies/mL at initiation, of which 105 (97%) had most recent VL <50 copies/mL, 97 (90%) had all follow-up VLs <50 copies/mL, and no individuals experienced CVF. Virologic suppression was consistently high at 6, 12, and 24- months with rates above 95% (Figure 2).
- 7 individuals had **VL ≥50 copies/mL** at initiation, of which 6 (86%) had most recent VL <50 copies/mL and 3 (43%) had all follow-up VLs <50 copies/mL. Two individuals experienced CVF with no resistance testing, switched to boosted darunavir-based regimens, and resuppressed to VL<50 copies/mL (**Figure 3**).
- 84 had baseline BMI <30 kg/m² and 12 had baseline BMI ≥30 kg/m² (19 unknown BMI). Most recent VL was <50 copies/mL in 81 (96%) and 12 (100%) individuals, respectively. Virologic suppression was sustained in all follow-up assessments by 74 (88%) and 10 (83%) individuals, respectively.



**Hepatitis B surface antigen positive, no HBV-DNA results, started HBV therapy.



DRV, darunavir; c, cobicistat; FTC, emtricitabine; TAF, tenofovir alafenamide

