

Perspectives on the Acceptability, Appropriateness, Feasibility, Barriers, and Facilitators From Patients Receiving Cabotegravir + Rilpivirine Long-Acting Injectable Treatment (CAB + RPV LA): Interim Results From the Cabotegravir and Rilpivirine Implementation Study in European Locations (CARISEL)

Laurent Hocqueloux¹, Cassidy Gutner², Rebecca DeMoor³, Martin Gill³, Rekha Trehan³, Ronald D’Amico², Susan Tomkins³, Melanie Schroeder⁴, Gilda Bontempo⁵, Mounir Ait-Khaled⁴, Monica Hadi⁶, Savita Bakhshi Anand⁶, Emma L. Low⁶, Eliette Jeanmaire⁷, María Crusells Canales⁸, Linos Vandekerckhove⁹, Fabrice Bonnet¹⁰, Julián Olalla Sierra¹¹, Maggie Czarnogorski²

¹CHR d’Orléans, Hôpital de la Source, Orléans, France; ²ViV Healthcare, Research Triangle Park, NC, United Kingdom; ³GlaxoSmithKline, Brentford, United Kingdom; ⁴ViV Healthcare, Brentford, United Kingdom; ⁵ViV Healthcare, Branford, CT, United States; ⁶Evidera, London, United Kingdom; ⁷CHRU de Nancy, Hôpitaux de Brabois, Vandœuvre-lès-Nancy, France; ⁸Hospital Clinico Lozano Blesa, Zaragoza, Spain; ⁹UZ Gent, Gent, Belgium; ¹⁰CHU de Bordeaux, Hôpital Saint André, Bordeaux, France; ¹¹Hospital Costa del Sol, Marbella, Spain

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Introduction

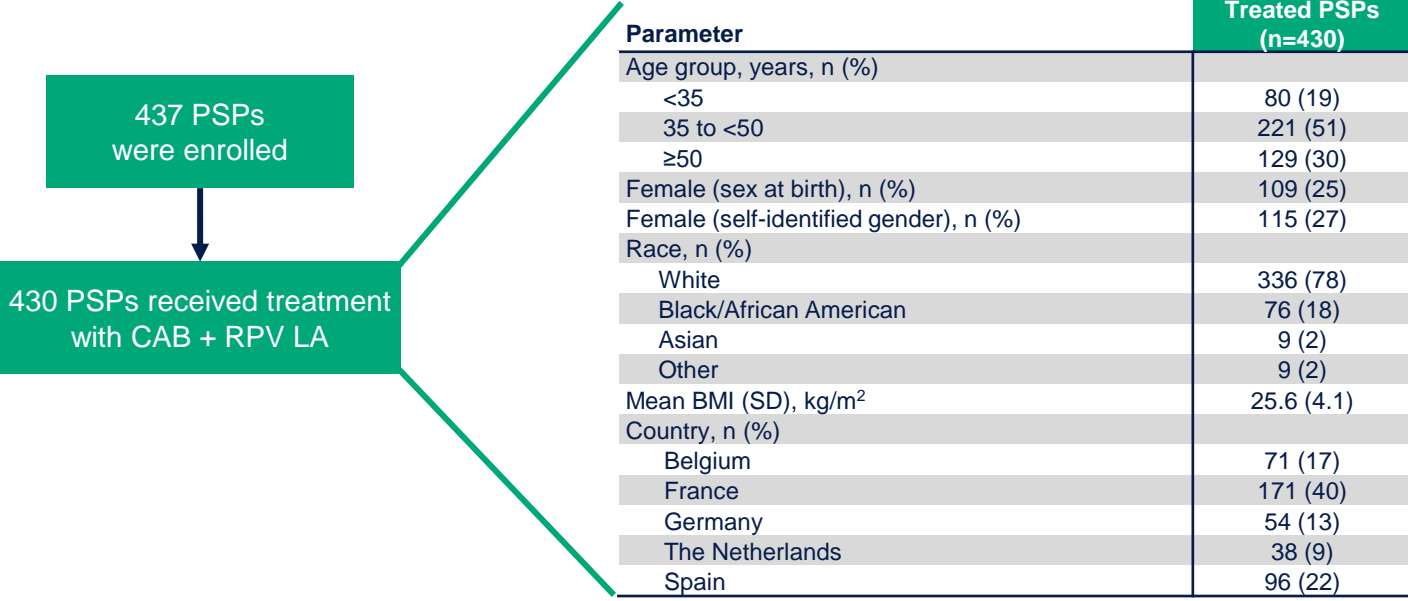
- Cabotegravir (CAB) plus rilpivirine (RPV) is the first complete long-acting (LA) regimen recommended by treatment guidelines^{1,2} for the maintenance of HIV-1 virologic suppression.
- CAB + RPV LA administered monthly³⁻⁵ or every 2 months⁶ may address some challenges associated with daily oral antiretroviral therapy, such as fear of inadvertent disclosure, anxiety related to staying adherent, and the daily reminder of HIV status.
- CARISEL (NCT04399551) is a Phase 3b, multicenter, open-label hybrid type III implementation-effectiveness study that examines the acceptability, appropriateness, and feasibility of CAB + RPV LA injections and implementation support in HIV centers across Belgium, France, Germany, the Netherlands, and Spain.
- This interim analysis summarizes patient study participant (PSP) perspectives on CAB + RPV LA implementation in the CARISEL study.

Methods

- Virologically suppressed patients were enrolled across 18 European clinics to receive CAB + RPV LA injections every 2 months.
- This interim analysis includes data from patient surveys conducted at Month 1 and Month 4 (prior to the first and third injections, respectively), with satisfaction of HIV treatment (HIV Treatment Satisfaction Questionnaire [HIVTSQ]) measured at Day 1 (prior antiretroviral therapy), Month 1 (CAB + RPV oral lead-in), and Month 4 (CAB + RPV LA).
- Acceptability Intervention Measure (AIM), Intervention Appropriateness Measure (IAM), and Feasibility Intervention Measure (FIM) are 4-item questionnaires that use a 5-point rating scale (1 = completely disagree to 5 = completely agree) to evaluate the acceptability, appropriateness, and feasibility of the regimen, respectively.
- Additional questionnaires assessed attitudes and expectations of patients regarding the CAB + RPV LA regimen.
- Clinical data on time in clinic for appointments were also collected at Months 1, 2, and 6.
- The univariate distribution of every survey item was tabulated and summarized using standard distributional statistics.

Results

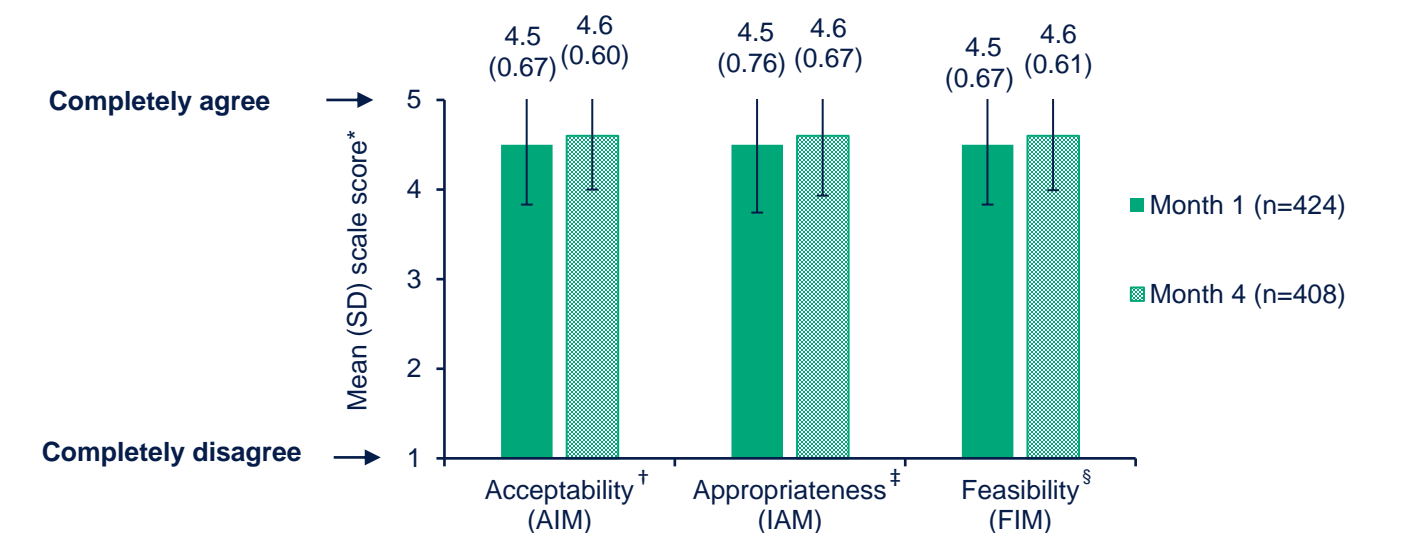
Figure 1. Baseline Characteristics



BMI, body mass index; CAB, cabotegravir; LA, long-acting; PSP, patient study participant; RPV, rilpivirine; SD, standard deviation.

- Overall, 25% of PSPs were female, 30% were 50 years of age or older, and 18% were Black/African American (Figure 1).
- At Month 1, 424/430 (98.6%) PSPs completed questionnaires; 408/430 (94.9%) completed the Month 4 questionnaire.

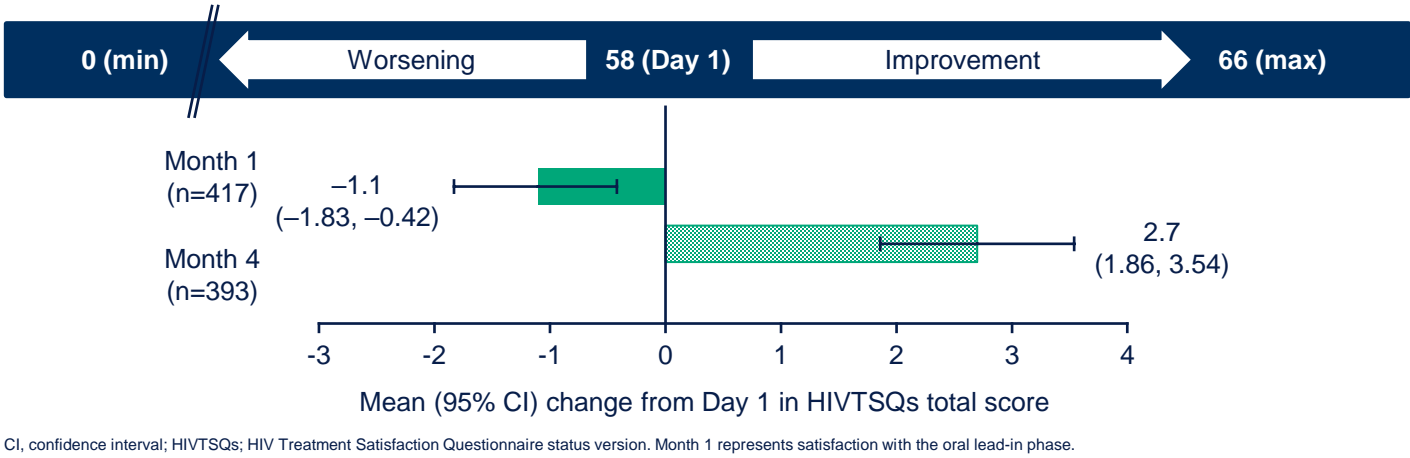
Figure 2. Acceptability, Appropriateness, and Feasibility of CAB + RPV LA



*Mean (SD) scores represent distributional characteristics at the timepoint. †M4, n=403; †M1, n=423; M4, n=403; †M4, n=401. AIM, Acceptability of Intervention Measure; CAB, cabotegravir; FIM, Feasibility of Intervention Measure; IAM, Intervention Appropriateness Measure; LA, long-acting; M, month; RPV, rilpivirine; SD, standard deviation.

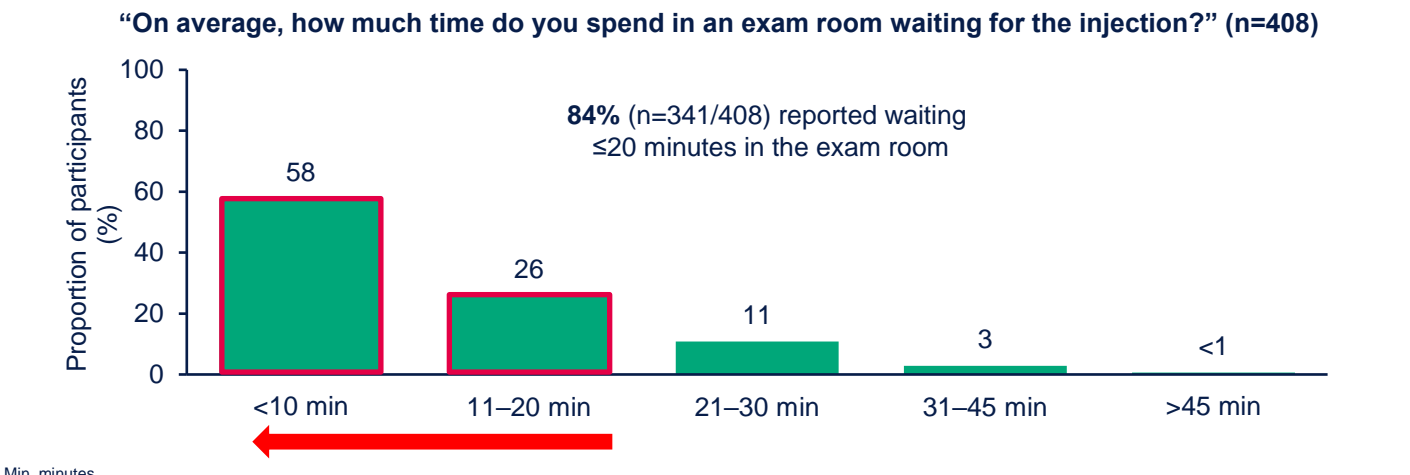
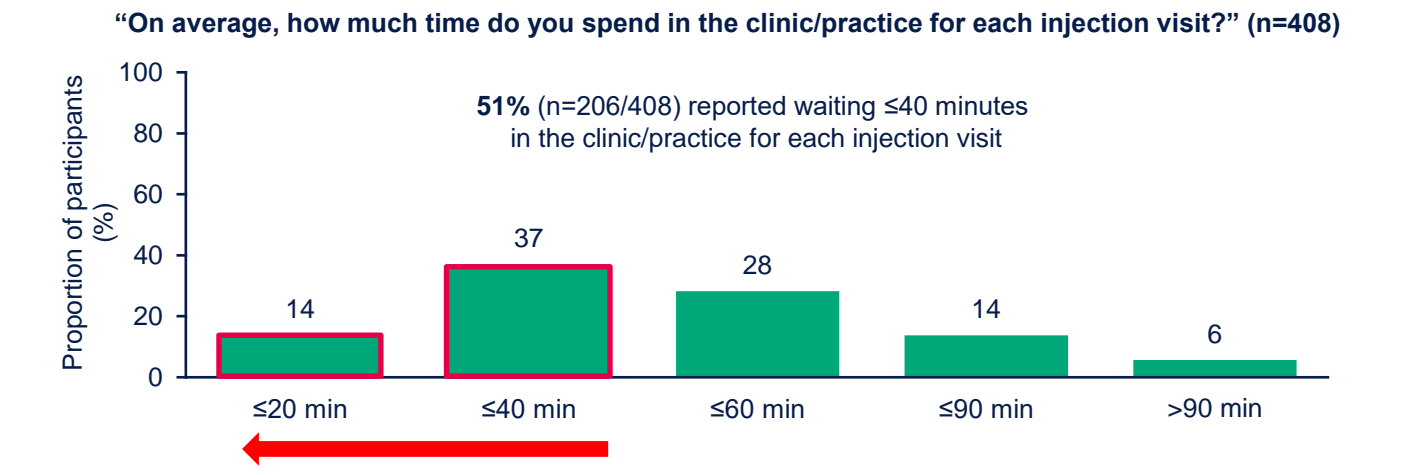
- At both timepoints, most PSPs found CAB + RPV LA injections highly acceptable, appropriate, and feasible (Figure 2).
- HIVTSQ scores increased over time, with most PSPs “satisfied” or “very satisfied” with treatment (Figure 3).
- Overall, 26.8% (n=107/399) of PSPs reported maximum satisfaction at Month 4.
- At Month 1, a small decrease in HIVTSQ score was observed compared with Day 1, although an increase was observed at Month 4 (Figure 3).

Figure 3. HIVTSQ Scores Over Time



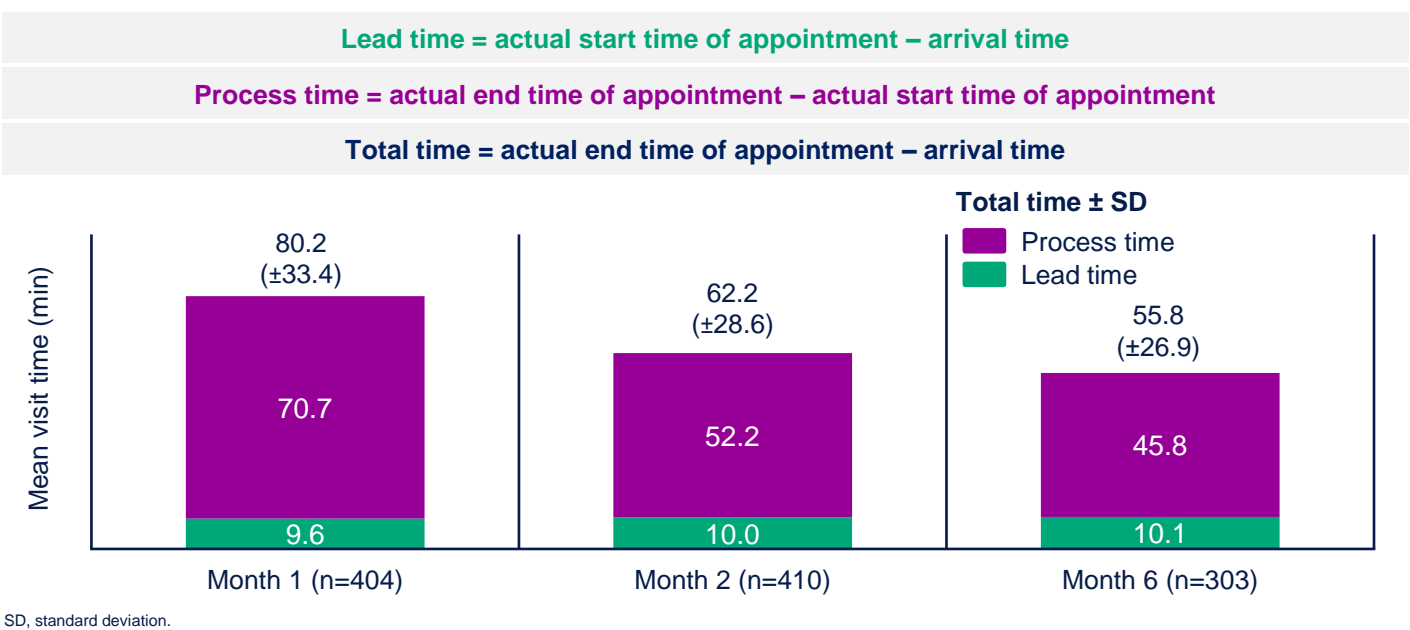
CI, confidence interval; HIVTSQs, HIV Treatment Satisfaction Questionnaire status version. Month 1 represents satisfaction with the oral lead-in phase.

Figure 4. Time Spent in Clinic at Month 4



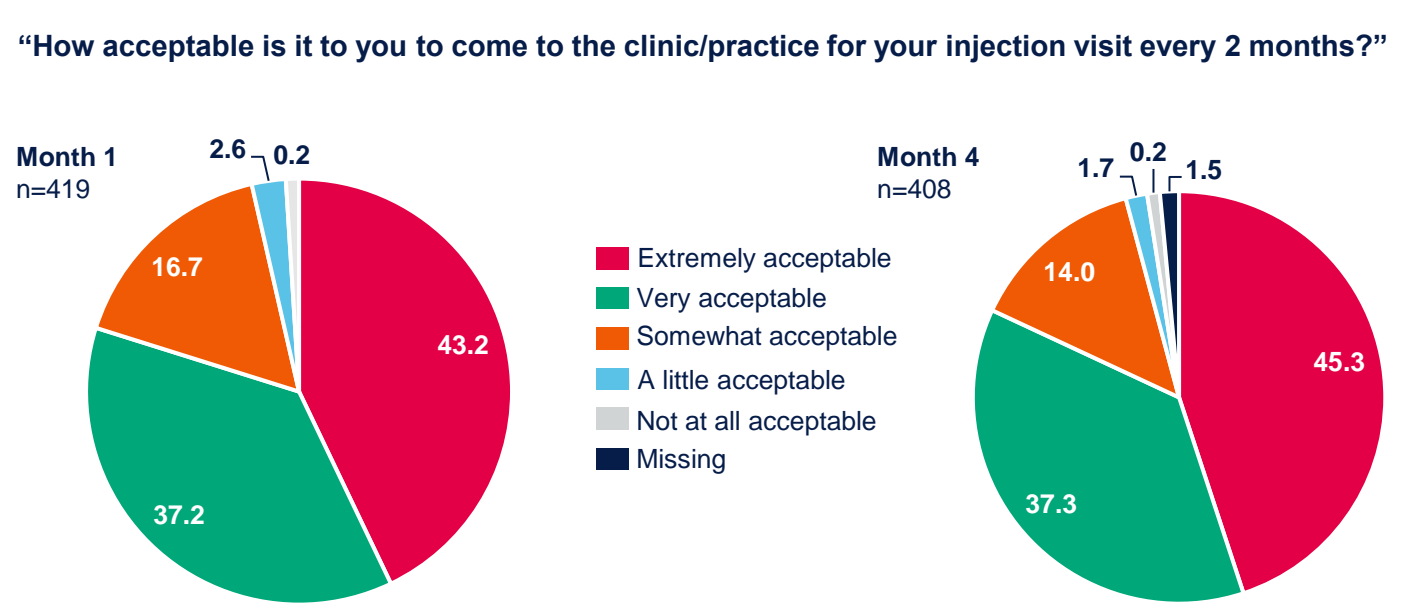
- The majority of PSPs spent ≤40 minutes in clinic for a CAB + RPV LA injection visit (Figure 4).
- 84% of PSPs spent ≤20 minutes waiting in the exam room for the CAB + RPV LA injection visit.

Figure 5. Overall Visit Time Between Month 1 and Month 6



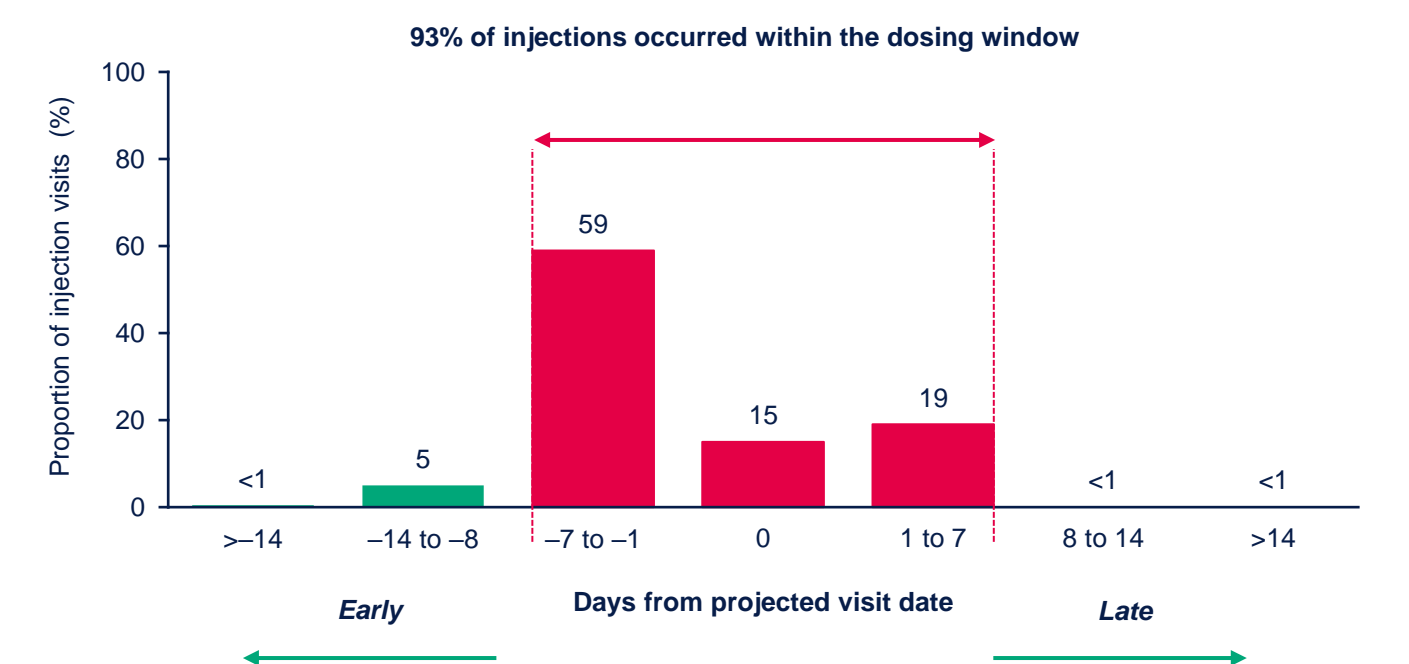
- A 30.4% (24.4-minute) reduction in mean appointment duration was observed from Month 1 to Month 6, which was mostly driven by a decrease in process time (Figure 5).

Figure 6. Acceptability of Clinic Visits at Months 1 and 4



- Acceptability of coming to CAB + RPV LA injection visits appears to start and remain high between Month 1 and Month 4 (Figure 6).
- Most patients felt it was extremely/very acceptable to come to the clinic every 2 months for the injection visit.

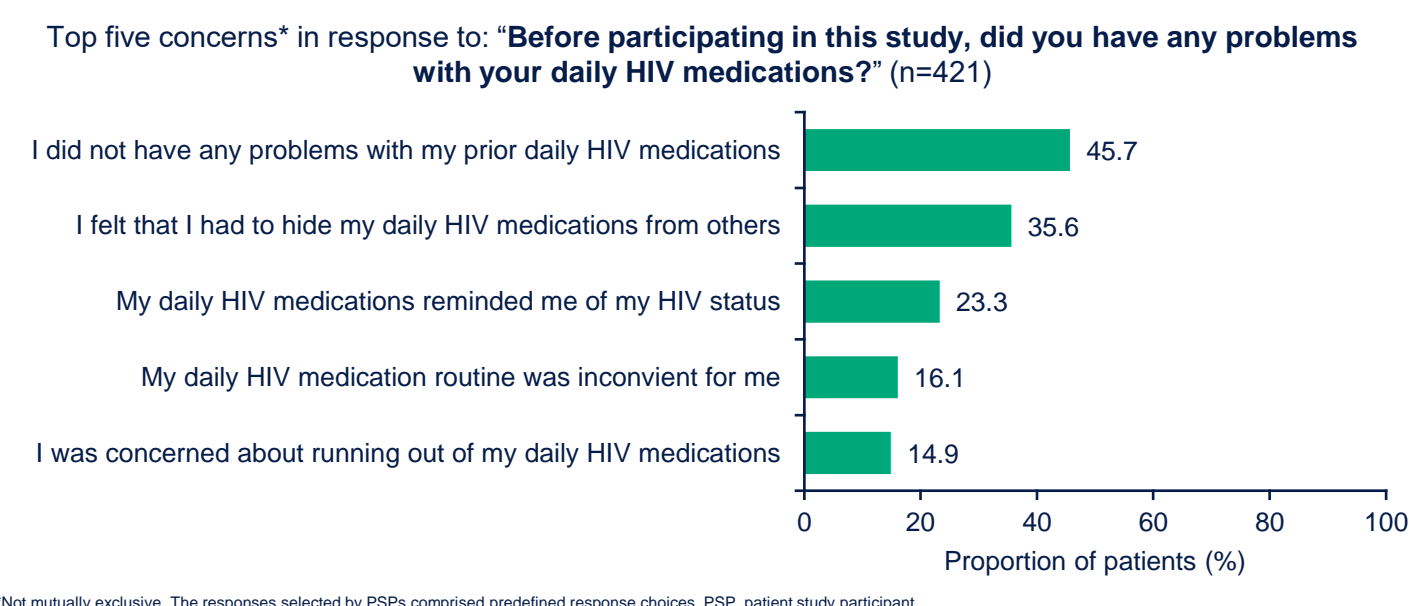
Figure 7. Adherence of Injection Visits*



*n=1092/1171. As per July 6, 2021, when all PSPs completed their Month 4 visit. PSP, patient study participant.

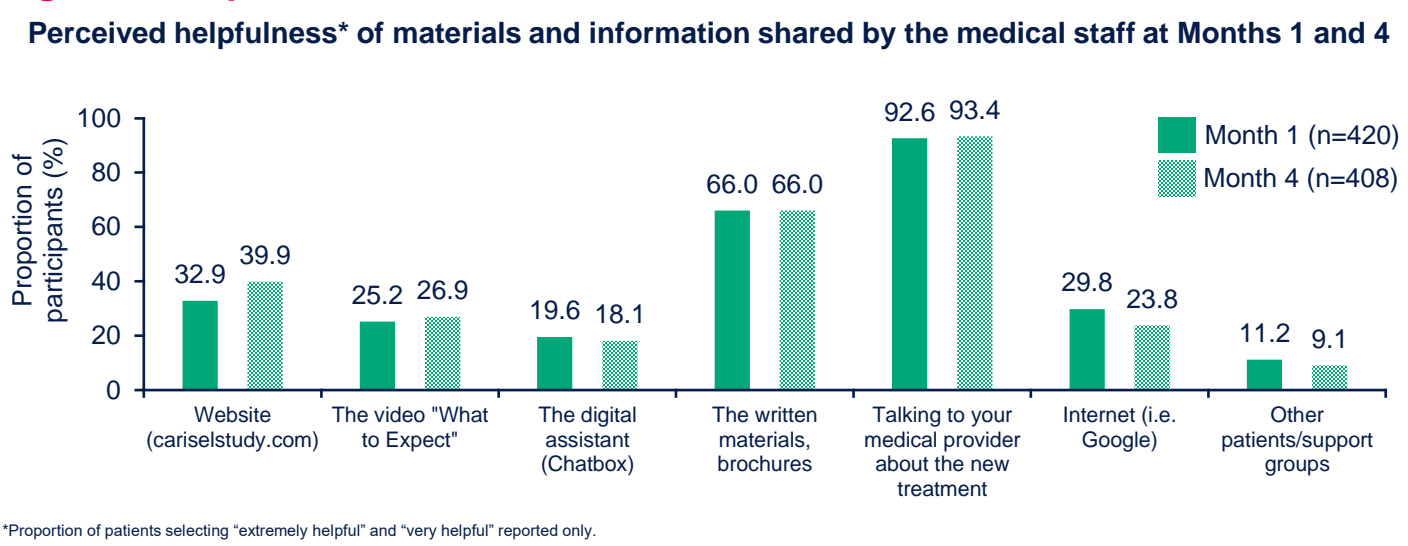
- Overall, 93% of injection visits occurred within ±7 days of the target date (Figure 7).

Figure 8. Top Concerns With Daily HIV Medications at Month 1



- At Month 1, the majority (54.3%) identified problems with taking daily oral therapy (Figure 8).

Figure 9. Helpfulness of Toolkit Materials



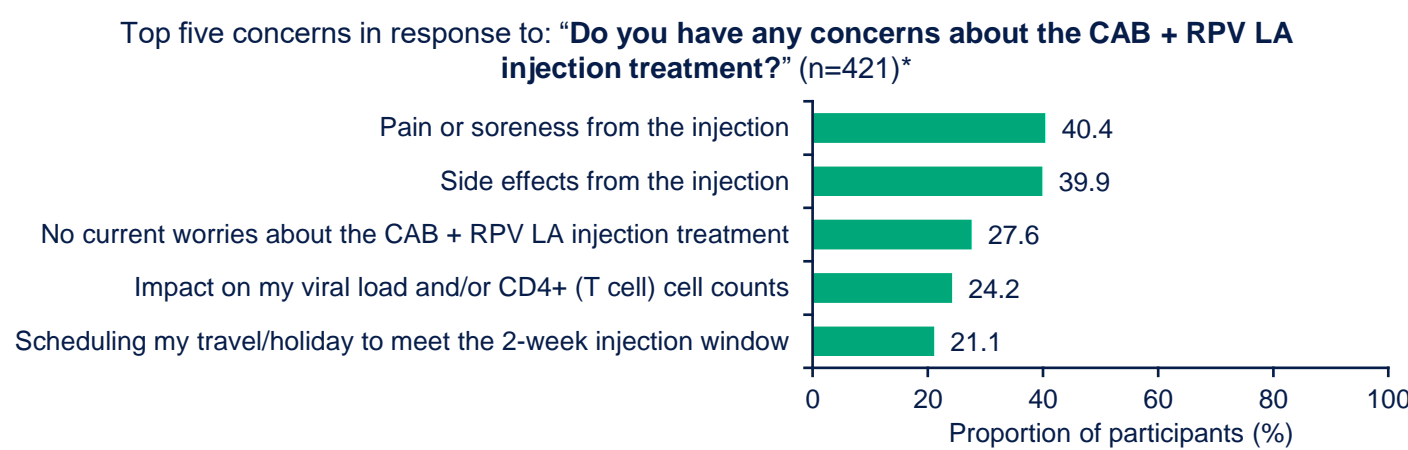
*Proportion of patients selecting “extremely helpful” and “very helpful” reported only.

Top three helpful materials and information at Months 1 and 4

- Talking to your medical provider about the new treatment
- The written materials, brochures
- Website (cariselstudy.com)

- Most PSPs felt that talking to their medical provider about the new treatment was the most helpful material/information shared at Months 1 and 4 (Figure 9).

Figure 10. Most Common Concerns About CAB + RPV LA Injection Treatment at Month 1



*Proportion of patients selecting “extremely helpful” and “very helpful” reported only.

CAB, cabotegravir; LA, long-acting; RPV, rilpivirine.

- At Month 1, the most common concerns about CAB + RPV LA injection treatment were pain or soreness and side effects from the injection (Figure 10).
- In total, 91.2% (n=372/408) of PSPs felt “very” or “extremely positive” about CAB + RPV LA treatment at Month 4, compared with 83.5% (n=350/419) at Month 1.

Conclusions

- CAB + RPV LA was observed to be an acceptable, appropriate, and feasible treatment option for the maintenance of HIV virologic suppression from Month 1 to 4.
- PSPs’ satisfaction improved versus oral therapy and the oral lead-in phase, and the majority found clinic wait time, recovery time, and treatment information appropriate and acceptable.
- 96.6% of PSPs felt it was acceptable to come to the clinic/practice for an injection visit every 2 months.
- The average amount of time PSPs spent in clinic decreased over time.
- PSPs thought talking to a medical provider about the new treatment was the most helpful way to receive information about CAB + RPV LA.
- Interim data from CARISEL suggest CAB + RPV LA is an appealing alternative treatment option for people living with HIV.

Acknowledgments

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