



# Update on BREACH Research Activities

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# Previous Studies

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## Research Article


# A Characterization of Women Living with HIV in Belgium

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## A characterization of the HIV population with limited/exhausted treatment options: a multicenter Belgian study




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# Ongoing Studies

# Efficacy, Durability, and Tolerability of Bictegravir/ Emtricitabine/Tenofovir Alafenamide for the Treatment of HIV in a Real-World Setting in Belgium: Week 144 Analysis

ORIGINAL ARTICLE

# **Efficacy, durability, and tolerability of bictegravir/emtricitabine/tenofovir alafenamide for the treatment of HIV in a real-world setting in Belgium**

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# Background

- Bictegravir/emtricitabine/tenofovir alafenamide (BIC/FTC/TAF) is recommended by international guidelines as a first-line option for the treatment of most people living with HIV-1 (PLWH)
- 5-year real-world and randomized controlled trial data demonstrate sustained viral suppression, a favorable safety and tolerability profile, and a high barrier to resistance
- The aim of this study was to evaluate the long-term efficacy, durability, and tolerability of BIC/FTC/TAF at 144 weeks

# Objectives

- Primary objective
  - Effectiveness of BIC/FTC/TAF: number of participants with plasma HIV-1 viral load (VL) <50 copies/mL at week 144 (on-treatment analysis)
- Main secondary objectives
  - Proportion of participants who experienced protocol-defined loss of virologic suppression by week 144 (defined as 2 consecutive VLs of >200 copies/mL after initially being virologically suppressed) along with an analysis of resistance-associated mutations (RAMs) at the time of loss of virologic control
  - Tolerability of BIC/FTC/TAF as assessed by the rate, incidence, reasons, and time to discontinuation of treatment over the 144-week study period
  - Pregnancy-related data such as discontinuation of treatment due to intended or current pregnancy, maintenance of BIC/FTC/TAF during pregnancy, and pregnancy-related outcomes
  - Overall change in weight along with the proportion of participants reporting a 5-10% and >10% weight gain at week 144

# Design

- This is a retrospective, observational, multicenter study
  - Electronic data capture collected study variables on the individuals included in this study, from routine clinical practice
- Inclusion criteria
  - Only participants that were initially included in the BREACH BIC/FTC/TAF real-world cohort 48-week analysis (N = 2001) were included in this study. No new participants were included.
  - Treatment-naïve and -experienced PLWH, aged  $\geq 18$  years, who received BIC/FTC/TAF between January 1, 2019, which corresponds to the date of approval for use in Belgium, and September 30, 2020

# Status

- Completion of data collection phase
- Final report of study results: Q3 2026

# Use Of Long-Acting Injectable Cabotegravir/Rilpivirine For The Treatment Of HIV In Belgium

# Background

- Despite minimal pill burden, some patients struggle with adherence, as the increased duration of daily adherence demands can be associated with pill fatigue
  - Furthermore, daily oral ART can present other challenges such as maintaining confidentiality
- Long-acting injectable cabotegravir/rilpivirine (LAI CAB/RPV), which is approved for use in Belgium since September 2021, has the potential to improve medication adherence and reduce the challenges that people living with HIV (PLWH) face when taking their oral ART

# Objectives

- Primary objective
  - Evaluate the participant's perception of, and satisfaction with, LAI CAB/RPV for the treatment of HIV
- Main secondary objectives
  - Description of the demographic, HIV-, and non-HIV-related characteristics of participants included in this analysis
  - Virologic suppression at months 5 and 11 since initiation of LAI CAB/RPV (on-treatment analysis)
  - Virological failure and analysis of resistance-associated mutations at the time of loss of virologic suppression
  - Adherence to treatment at months 5 and 11, defined as receiving LAI CAB/RPV within the +/- 7-day dosing window relative to the target treatment date
    - Injections received after the 7-day dosing window, without the participant having taken bridging oral CAB/RPV, will be defined as a missed injection
    - Injections received after the 7-day dosing window, but the participant did take bridging oral CAB/RPV whilst waiting to receive their injection, will be defined as a delayed injection
  - Discontinuation of treatment over the 11-month period
  - Proportion of participants experiencing injection-site reactions (ISRs) and acceptability of ISRs
  - Change in weight from baseline and a  $\geq 10\%$  weight gain from baseline at months 5 and 11

# Design

- This was a multi-center, single arm observational cohort study with a cross-sectional assessment of perception/satisfaction and a retrospective assessment of clinical and virologic outcomes
- Inclusion criteria
  - Cross-sectional portion of the study
    - HIV-1 individuals, aged 18 years and above, currently being treated by LAI CAB/RPV and having made at least 4 injection visits (i.e. month 5 of treatment) and no more than 10 injection visits (i.e. at month 17 of treatment) at time of questionnaire administration
  - Retrospective portion of the study
    - HIV-1 individuals, aged 18 years and above, having received at least 1 dose of LAI CAB/RPV

# Data collected

- Participant characteristics
  - Age, gender, race, BMI, and co-morbidities
- HIV-related characteristics
  - Mode of HIV-1 acquisition, time since HIV diagnosis, prior AIDS-defining illness, time on ART and number of ART regimens prior to LAI initiation, last ART regimen prior to and reasons for initiation of LAI CAB/RPV, resistance data, CD4<sup>+</sup> and CD8<sup>+</sup> T-cell counts, and HIV-1 viral loads
- A 32-item questionnaire

## Characteristics of the study population

|                                      | Total<br>(N = 663) |
|--------------------------------------|--------------------|
| Age (years)                          |                    |
| Median (IQR)                         | 33 (27 – 40)       |
| Data not available, n (%)            | 34 (5.1)           |
| Gender, n (%)                        |                    |
| Male                                 | 464 (70)           |
| Female                               | 163 (24.6)         |
| Transgender female                   | 4 (0.6)            |
| Data not available                   | 32 (4.8)           |
| Race, n (%)                          |                    |
| White                                | 360 (54.3)         |
| Black                                | 199 (30)           |
| Other                                | 61 (9.2)           |
| Data not available                   | 43 (6.5)           |
| Weight (kg)                          |                    |
| Median (IQR)                         | 79 (46 – 88)       |
| Data not available, n (%)            | 201 (30.3)         |
| Body mass index (kg/m <sup>2</sup> ) |                    |
| Median (IQR)                         | 25.9 (23.2 – 28.9) |
| Data not available, n (%)            | 244 (36.8)         |

IQR, inter-quartile range.

## Characteristics of the study population

|   | Total<br>( <i>N</i> = 663) |
|---|----------------------------|
| HIV acquisition, <i>n</i> (%)             |                            |
| MSM                                       | 377 (56.9)                 |
| Heterosexual                              | 212 (32)                   |
| Other                                     | 26 (3.9)                   |
| Data not available                        | 48 (7.2)                   |
| Time on ART (years)                       |                            |
| Median (IQR)                              | 8.3 (4.3 – 13.5)           |
| Data not available, <i>n</i> (%)          | 36 (5.4)                   |
| Number of ART regimens received           |                            |
| Median (IQR)                              | 3 (2 – 4)                  |
| Data not available, <i>n</i> (%)          | 32 (4.8)                   |
| Prior virologic failure, <i>n</i> (%)     |                            |
| NNRTI-based treatment                     | 18 (2.7)                   |
| INSTI-based treatment                     | 14 (2.1)                   |
| Data not available                        | 54 (8.1)                   |
| NNRTI-experienced prior to LAI initiation |                            |
| <i>N</i> (%)                              | 174 (26.2)                 |
| Data not available, <i>n</i> (%)          | 31 (4.7)                   |
| INSTI-experienced prior to LAI initiation |                            |
| <i>N</i> (%)                              | 473 (65.2)                 |
| Data not available, <i>n</i> (%)          | 31 (4.7)                   |

MSM, men who have sex with men; ART, antiretroviral therapy; IQR, inter-quartile range; NNRTI, non-nucleoside reverse transcriptase inhibitor; INSTI, integrase strand transfer inhibitor; LAI, long-acting injectable.

## Characteristics of the study population

ART, antiretroviral therapy; LAI, long-acting injectable; BIC, bictegravir; FTC/TAF, emtricitabine/tenofovir alafenamide; DTG, dolutegravir; 3TC, lamivudine; RPV, rilpivirine; ABC, abacavir; EVG/c, elvitegravir/cobicistat.

|   | Total<br>(N = 663) |
|---|--------------------|
| Last ART regimen prior to LAI initiation, n (%)       |                    |
| BIC/FTC/TAF   | 170 (25.6)         |
| DTG/3TC   | 99 (14.9)          |
| RPV/FTC/TAF   | 75 (11.3)          |
| ABC/3TC/DTG   | 64 (9.7)           |
| EVG/c/FTC/TAF   | 50 (7.5)           |
| Data not available                                    | 32 (4.8)           |
| Reason for LAI initiation, n (%)                      |                    |
| Treatment modernization/simplification                | 331 (49.9)         |
| Participant's wish                                    | 246 (37.1)         |
| Physician's decision                                  | 19 (2.9)           |
| Data not available                                    | 44 (6.6)           |
| CD4 <sup>+</sup> T-cell count (cells/ $\mu$ L), n (%) |                    |
| <200  | 15 (22.6)          |
| 200 – 349   | 41 (6.2)           |
| 350 – 499   | 72 (10.9)          |
| $\geq$ 500  | 465 (70.1)         |
| Data not available                                    | 70 (10.6)          |
| CD4 <sup>+</sup> /CD8 <sup>+</sup> ratio              |                    |
| Median (IQR)  | 1 (0.7 – 1.3)      |
| Data not available, n (%)                             | 112 (16.9)         |
| HIV-1 viral load (copies/mL), n (%)                   |                    |
| <50   | 513 (77.4)         |
| 50 – 200  | 29 (4.4)           |
| >200  | 13 (2)             |
| Data not available                                    | 108 (16.2)         |

# Outcomes

|  | Month 5       | Month 11       |
|--|---------------|----------------|
| HBs Ag positive  |               |                |
| N  | 175           | 163            |
| Occurrence, n (%)  | 0 (0)         | 1 (0.6)        |
| Weight   |               |                |
| N  | 375           | 334            |
| Median (IQR)   | 80 (71 – 90)  | 81 (72 – 90)   |
| 5-10% increase from baseline, n (%)                      | 19 (5.1)      | 40 (12)        |
| >10% increase from baseline, n (%)                       | 8 (4.6)       | 13 (3.9)       |
| Change in CD4 <sup>+</sup> T-cell count (cells/ $\mu$ L) |               |                |
| N  | 465           | 414            |
| Median (IQR)   | 0 (-106 – 99) | 21 (-72 – 136) |
| HIV-1 viral load (copies/mL), n (%)                      |               |                |
| N  | 464           | 331            |
| <50  | 441 (95)      | 316 (95.5)     |
| 50 – 200   | 19 (4.1)      | 13 (3.9)       |
| >200   | 4 (0.9)       | 2 (0.6)        |

HBs Ag, hepatitis B surface antigen; N, number of participants on treatment, in follow-up, and with available data, IQR, inter-quartile range.  
Percentages calculated from the number of participants with available data.

## Adherence to treatment

|   | Total<br>( <i>N</i> = 663) |
|---|----------------------------|
| Adherence to treatment <sup>a</sup> , n (%) |                            |
| Yes   | 551 (83.1)                 |
| ≥1 Delayed injection <sup>b</sup>           | 21 (3.2)                   |
| ≥1 Missed injection <sup>c</sup>            | 57 (8.6)                   |
| Data not available                          | 34 (5.1)                   |

<sup>a</sup>Adherence was defined as receiving LAI CAB/RPV within the +/- 7-day dosing window relative to the target treatment date

<sup>b</sup>Delayed injection was defined as having received LAI CAB/RPV after the 7-day dosing window but having taken bridging oral CAB/RPV whilst waiting to receive LAI CAB/RPV

<sup>c</sup>Missed injection was defined as having received LAI CAB/RPV after the 7-day dosing window without having taken bridging oral CAB/RPV whilst waiting to receive LAI CAB/RPV

## Discontinuation of treatment

|   | Total<br>(N = 663) |
|---|--------------------|
| Number of participants that discontinued LAI CAB/RPV, n (%)                       | 51 (7.7)           |
| Reason for discontinuation, n (%)   |                    |
| Injection site reaction   | 12 (1.8)           |
| Participant's wish  | 10 (1.5)           |
| Virological failure <sup>a</sup>  | 8 (1.2)            |
| Neuropsychiatric toxicity   | 5 (0.8)            |
| Physician's decision  | 4 (0.6)            |
| Toxicity, other   | 3 (0.5)            |
| Time to discontinuation due to any reason (months)                                |                    |
| Median (IQR)  | 2.8 (0.9 – 7)      |
| Time to discontinuation due to injection site reaction (months)                   |                    |
| Median (IQR)  | 5.3 (2.8 – 9.2)    |
| Time to discontinuation due to any toxicity – not injection site related (months) |                    |
| Median (IQR)  | 3.1 (0.97 – 7.2)   |

LAI CAB/RPV, long-acting injectable cabotegravir/rilpivirine; IQR, inter-quartile range.

<sup>a</sup>Virological failure was defined as 2 consecutive HIV-1 viral loads >200 copies/mL or 2 consecutive HIV-1 viral loads >50 copies/mL and physician's discretion

## Details of the 8 individuals who experienced virological failure

| P | Age (years) | Gender/ Ethnicity | cART directly prior to LAI initiation | VL at LAI initiation (copies/mL) | Oral lead-in | Time to failure (months) | VL at time of failure (copies/mL) | RAMs at time of failure                      | cART started after LAI | Potential contributing factor |
|---|-------------|-------------------|---------------------------------------|----------------------------------|--------------|--------------------------|-----------------------------------|--|------------------------|-------------------------------|
| 1 | 42          | F/Black           | ABC/DTG/3TC                           | 746                              | Yes          | 3.5                      | 3850                              | NNRTI: 106I, 138K, 221Y<br>INSTI: 74I, 138K  | BIC/FTC/TAF            | UVL at LAI initiation         |
| 2 | 48          | F/Black           | BIC/FTC/TAF                           | <50                              | Yes          | 10.1                     | 580                               | NNRTI: 103N, 138K<br>INSTI: 118R             | DRV/c/FTC/TAF          | None                          |
| 3 | 23          | M/Black           | BIC/FTC/TAF                           | <50                              | Yes          | 3.3                      | 370                               | INSTI: 138K, 148R                            | DRV/c/FTC/TAF          | None                          |
| 4 | 35          | M/NA              | DTG + FTC/TDF                         | <50                              | Yes          | 3.2                      | 11800                             | NNRTI: 138K<br>INSTI: 138K, 148K             | DRV/c/FTC/TAF          | Subtype A6                    |
| 5 | 44          | M/White           | RPV/FTC/TAF                           | <50                              | Yes          | 6                        | 6407                              | INSTI: 155H; NNRTI: 138K                     | DRV/c/FTC/TAF          | None                          |
| 6 | 57          | F/Black           | EVG/c/FTC/TAF                         | <50                              | Yes          | 8.4                      | 1987                              | INSTI: 155H                                  | DOR/FTC/TDF            | BMI 41                        |
| 7 | 59          | M/White           | EFV/FTC/TDF                           | <50                              | Yes          | 7.1                      | 67                                | NA <sup>a</sup>                              | BIC/FTC/TAF            | BMI 31                        |
| 8 | 33          | M/White           | ABC/DTG/3TC                           | <50                              | Yes          | 11.7                     | 7310                              | NNRTI: 103N, 181C<br>INSTI: 147G, 155H, 230R | DRV/c/FTC/TAF          | None                          |

P, participant; cART, combined antiretroviral therapy; LAI long-acting injectable; VL, viral load; RAMs, resistance-associated mutations; UVL, unsuppressed viral load; F, female; ABC, abacavir; DTG, dolutegravir; 3TC, lamivudine; NNRTI, non-nucleoside reverse transcriptase inhibitor; INSTI, integrase strand transfer inhibitor; BIC, bictegravir; FTC, emtricitabine; TAF, tenofovir alafenamide; DRV/c, darunavir/cobicistat; M, male; NA, not available; TDF, tenofovir disoproxil fumarate; RPV, rilpivirine; EVG/c, elvitegravir/cobicistat; DOR, doravirine; BMI, body mass index; EFV, efavirenz.

<sup>a</sup>Viral load too low for accurate resistance testing

# 32-item questionnaire

$N = 156$

## Thinking back to when you were taking tablets as your HIV medication...

|  | Total<br>(N = 156) |
|--|--------------------|
| How often did your HIV medication remind you of your HIV status, n (%)             |                    |
| Always   | 72 (46.2)          |
| Often  | 29 (18.6)          |
| Sometimes  | 27 (17.3)          |
| Rarely   | 10 (6.4)           |
| Never  | 18 (11.5)          |
| How frequently were you worried about forgetting to take your HIV treatment, n (%) |                    |
| Always   | 31 (19.9)          |
| Often  | 45 (28.8)          |
| Sometimes  | 38 (24.4)          |
| Rarely   | 22 (14.1)          |
| Never  | 20 (12.8)          |

## Thinking back to when you were taking tablets as your HIV medication...

|  | Total<br>(N = 156) |
|--|--------------------|
| How frequently were you worried others may discover your HIV status because of your treatment, n (%)                     |                    |
| Always   | 48 (30.8)          |
| Often  | 42 (26.9)          |
| Sometimes  | 26 (16.7)          |
| Rarely   | 19 (12.2)          |
| Never  | 21 (13.4)          |
| Did you ever interrupt your treatment because you were travelling outside of Belgium, n (%)                              |                    |
| Never  | 104 (66.6)         |
| Yes, I forgot to bring my tablets with me  | 11 (7.1)           |
| Yes, I forgot to take my tablets every day   | 7 (4.5)            |
| Yes, I purposely did not bring my tablets because I was afraid that someone would discover my HIV status                 | 3 (1.9)            |
| Yes, I brought my tablets but purposely did not take them because I was afraid that someone would discover my HIV status | 3 (1.9)            |
| Yes, I ran out of tablets/they were lost by the airline and was not able to get more in the country that I was in        | 11 (7.1)           |
| Not applicable (no travel)   | 17 (10.9)          |

## LAI administration

|  | Total<br>(N = 156) |
|--|--------------------|
| Where else would you consider receiving your injections <sup>a</sup> , n (%)           |                    |
| Same day care in the hospital  | 50 (32.1)          |
| Pharmacy   | 34 (21.8)          |
| Mobile vehicle   | 11 (7.1)           |
| Nurse coming to your home  | 38 (24.4)          |
| General practitioner/Family physician  | 58 (37.2)          |
| Data not available   | 40 (25.6)          |
| How helpful would it be to receive your injections outside of your usual clinic, n (%) |                    |
| Very helpful   | 36 (23.1)          |
| Somewhat helpful   | 31 (19.9)          |
| A little helpful   | 29 (18.6)          |
| Not helpful  | 20 (12.8)          |
| Data not available   | 40 (25.6)          |
| How frequently are your injections now a reminder that you are HIV positive, n (%)     |                    |
| Never  | 32 (20.5)          |
| Rarely   | 44 (28.2)          |
| Sometimes  | 21 (13.5)          |
| Often  | 8 (5.1)            |
| Always   | 10 (6.4)           |
| Data not available   | 41 (26.3)          |

<sup>a</sup>This question allowed for more than one response.

## Injection site reactions

|   | Total<br>(N = 156) |
|---|--------------------|
| Number of participants that experienced an injection site reaction at least once, n (%) | 134 (85.9)         |
| Type of injection site reaction <sup>a</sup> , n (%)                                    |                    |
| Pain  | 113 (72.4)         |
| Redness   | 50 (32.1)          |
| Hardening   | 50 (32.1)          |
| Bruising  | 16 (10.3)          |
| Swelling  | 14 (9)             |
| Data not available  | 21 (13.5)          |
| Measure taken to relieve injection site reaction <sup>a</sup> , n (%)                   |                    |
| Pain reliever (paracetamol, anti-inflammatory drug)                                     | 61 (39.1)          |
| Light stretching/exercise   | 29 (18.6)          |
| Avoid sitting for a prolonged period of time  | 24 (15.4)          |
| Hot compress/massage  | 8 (5.1)            |
| Data not available  | 17 (10.9)          |
| Absence from work/education/daily activities because of injection site reaction, n (%)  |                    |
| None  | 91 (58.3)          |
| Only day of injection   | 4 (2.6)            |
| Up to one day after receiving injection   | 6 (3.8)            |
| Up to two days after receiving injection  | 10 (6.4)           |
| More than two days after receiving injection  | 2 (1.3)            |
| Data not available  | 21 (13.5)          |
| Acceptability of injection site reactions, n (%)  |                    |
| Totally acceptable  | 57 (36.5)          |
| Somewhat acceptable   | 52 (33.3)          |
| Minimally acceptable  | 10 (6.4)           |
| Not acceptable  | 3 (1.9)            |
| Data not available  | 12 (7.7)           |

<sup>a</sup>This question allowed for more than one response.

## Benefits of LAI visit

|  | Total<br>( <i>N</i> = 156) |
|--|----------------------------|
| Which of the following do you think are benefits of your in-person visit to receive your injections <sup>a</sup> , n (%) |                            |
| I have more opportunities to discuss HIV treatment concerns  | 43 (27.6)                  |
| I have more opportunities to discuss other healthcare issues   | 38 (24.4)                  |
| I feel my HIV is better controlled   | 72 (46.2)                  |
| I am more engaged in managing my HIV   | 36 (23.1)                  |
| I feel like I have a better relationship with the HIV doctors and nurses   | 72 (46.2)                  |
| There are no benefits  | 11 (7.1)                   |

<sup>a</sup>This question allowed for more than one response.

## Concerns with LAI

|   | Total<br>(N = 156) |
|---|--------------------|
| Which concerns do you have about your HIV treatment injections <sup>a</sup> , n (%)                   |                    |
| No concerns about the injection treatment   | 51 (32.7)          |
| Injection site reactions from the injection   | 18 (11.7)          |
| Other side effects or possible long-term effects from the treatment                                   | 29 (18.6)          |
| Impact on my viral load and/or CD4+ T-cell counts   | 15 (9.6)           |
| Scheduling my travel/holiday around my injection visits   | 33 (21.2)          |
| Forgetting my appointments for the injection visits   | 11 (7.1)           |
| Getting tired of the injections after a while   | 6 (3.8)            |
| Getting to the clinic for the injection visits (difficulty missing work/school, transportation, etc.) | 16 (10.3)          |
| Clinic/practice hours for injection visits not fitting with my schedule                               | 3 (1.9)            |
| Privacy/confidentiality concerns going to the clinic for my injection visit                           | 13 (8.3)           |
| Data not available  | 40 (25.6)          |

<sup>a</sup>This question allowed for more than one response.

## Preference for LAI

|  | Total<br>(N = 156) |
|--|--------------------|
| Reason for preference for injections <sup>a</sup> , n (%)  |                    |
| I was tired of taking tablet(s) for my HIV every day   | 59 (37.8)          |
| It is more convenient for me to receive injections every 2 months                                    | 82 (52.6)          |
| I do not have to worry as much about remembering to take my HIV medication every day                 | 83 (53.2)          |
| I do not have to carry my HIV medication with me   | 75 (48.1)          |
| I have difficulty swallowing oral HIV medication   | 15 (9.6)           |
| I do not have to worry about others seeing or finding my HIV pills                                   | 58 (37.2)          |
| I do not have to think about my HIV status every day   | 65 (41.7)          |
| I feel more in control of managing my HIV condition  | 42 (26.9)          |
| I like more frequent interaction with my HIV healthcare provider                                     | 37 (23.7)          |
| I believe injections are more reliable than daily oral medication to keep my viral load undetectable | 27 (17.3)          |
| Data not available   | 42 (26.9)          |

<sup>a</sup>This question allowed for more than one response.

# Conclusion

- The results show that CAB/RPV LAI maintained high rates of virological suppression and low rates of virological failure in real-world clinical practice
- Rates of discontinuations were low, including discontinuations due to ISRs, and most injections were administered within the  $\pm 7$ -day dosing window
- LAI treatment addressed multiple needs of PLWH
  - High satisfaction among the participants
  - Multiple benefits of additional clinic visits
  - Alleviating concerns about adherence to daily oral ART
  - Reducing reminders of HIV status
  - Providing more convenience and flexibility through less frequent dosing

**Thank you for your attention!**