QR code for a

copy of the poster and additional

Rapid Virologic Suppression With DTG/3TC Facilitates Early Switch to **CAB+RPV LA For Treatment-Naive People Living With HIV:**

Suppression Phase Outcomes From the Phase 3b VOLITION Study Ezequiel Córdova¹, Kai Hove², Laurent Hocqueloux³, Riya Moodley², Björn-Erik Ole Jensen⁴, Julie Priest⁵, Andrea Antinori⁶, Parul Patel⁵, Guillermo Cuevas Tascón⁷, Christopher Polk⁵, Marc Johnson⁸, Marty St Clair⁵, Francisco Xavier Zamora Vargas⁹, Suryakant Somvanshi¹⁰, Jason Szabo¹¹, Jacob Radford², Louise Garside¹²,

Richard Grove¹², Harmony P. Garges⁵, Jean van Wyk², <u>Bryn Jones</u>² ¹IDEAA Foundation, Buenos Aires, Argentina; ²ViiV Healthcare, London, United Kingdom; ³Centre Hospitalier Universitaire d'Orléans, Orléans, France, **13−17** July ⁴Department of Gastroenterology, Hepatology, and Infectious Diseases, Medical Faculty and University Hospital Düsseldorf, Heinrich Heine University, Düsseldorf, Germany; ⁵ViiV Healthcare, Durham, NC, United States, ⁶HIV/AIDS Department, National Institute of Infectious Diseases, L. Spallanzani, IRCCS, Rome, Italy; ⁷Departamento de Medicina Interna, Hospital Universitario Infanta Leonor, Madrid, Spain;





Key Takeaways

 Once-daily dolutegravir and lamivudine (DTG/3TC) enabled rapid virologic suppression in a diverse population of treatment-naive adults with HIV-1, confirming its high potency and providing a pathway to person-centered treatment, allowing people to choose an early switch to long-acting (LA) therapy of their own VOLITION.

- DTG/3TC virologic suppression outcomes were robust across baseline viral load and CD4+ cell count categories.
- DTG/3TC was well tolerated and participants maintained high levels of satisfaction throughout the Suppression Phase.

Background

- DTG/3TC has shown rapid and durable virologic suppression, regardless of baseline viral load or CD4+ counts, with rare reports of emergent resistance across numerous clinical trials and real-world studies in both treatment-naive and experienced individuals for over 5 years. 1-5
- Initial use of DTG/3TC can provide a route for treatment-naive people living with HIV to rapidly achieve virologic suppression and an opportunity to consider early switch to long-acting cabotegravir plus rilpivirine (CAB+RPV LA).
- VOLITION (NCT05917509) is the first study to evaluate optional switch from DTG/3TC to CAB+RPV LA immediately after attaining virologic suppression in antiretroviral therapy-naive adults with HIV-1.
- We present results of the 16-week Suppression Phase during initial treatment with DTG/3TC.

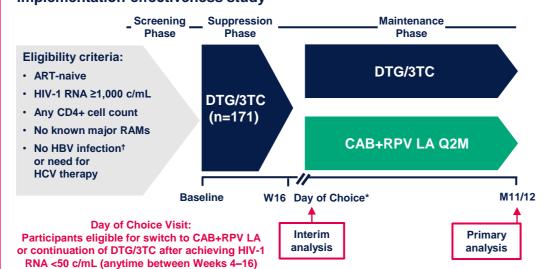
Methods

¹¹Clinical Department, L'Actuel Medical Clinic, Montréal, QC, Canada; ¹²GSK, London, United Kingdom

Figure 1. VOLITION Study Design

Phase 3b, multicenter, non-randomized, parallel-group, open-label, implementation-effectiveness study

⁸Atrium Health Carolinas Medical Center, Charlotte, NC, United States; ⁹Espacio EME, Región Metropolitana, Chile; ¹⁰Development Statistics, GCC, GSK, Bengaluru, India;



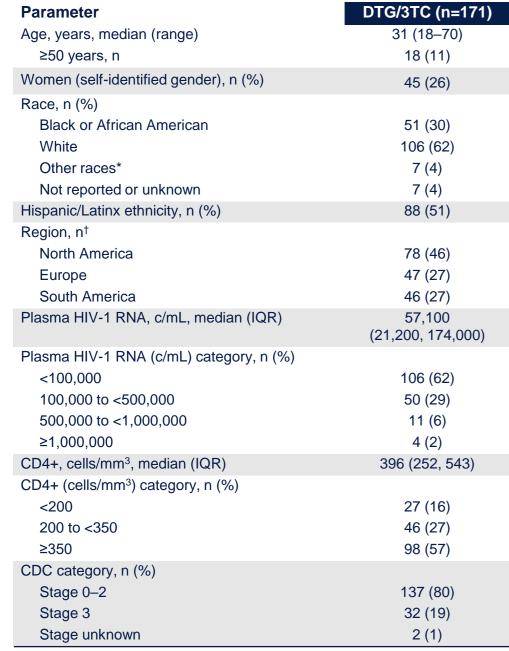
*Participants will proceed to Day of Choice at their next study visit following the first plasma HIV-1 RNA result <50 c/mL (Week 4 at the earliest but no later than Week 16). Participants must be suppressed <50 c/mL in order to qualify for option to switch to CAB+RPV LA. Exclusion criteria for switch included treatment-emergent ALT ≥5×ULN; or ALT ≥3×ULN and bilirubin ≥1.5×ULN (with >35% direct bilirubin) and pregnancy. †Participants positive for HBsAg were excluded. Participants negative for anti-HBs but positive for anti-HBc were excluded only if HBV DNA was detected. 3TC, lamivudine; ALT, alanine aminotransferase; anti-HBc, hepatitis B core antibody; anti-HBs, hepatitis

B surface antibody; ART, antiretroviral therapy; CAB, cabotegravir; DTG, dolutegravir; HBV, hepatitis B virus; HBsAg, hepatitis B surface antigen; HCV, hepatitis C virus; LA, long-acting; M, month; Q2M, every 2 months; RAM, resistance-associated mutation; RPV, rilpivirine; ULN, upper limit of normal; W, week

- The VOLITION study evaluated initial viral suppression with DTG/3TC up to ~16 weeks followed by participant-determined optional switch to CAB+RPV LA dosed every 2 months or continuation of DTG/3TC through Month 11/12 (Figure 1).
- The co-primary study endpoints were:
- Time to virologic suppression (HIV-1 RNA <50 c/mL) from baseline.
- Proportion of participants with HIV-1 RNA <50 c/mL per Snapshot algorithm at Month 11 (CAB+RPV LA).
- Secondary endpoints assessed during the Suppression Phase included:
- The proportion of participants with HIV-1 RNA <50 c/mL over time.
- The proportion of participants with confirmed virologic failure (CVF; consecutive plasma HIV-1 RNA values ≥200 c/mL after prior suppression to <50 c/mL) and the development of resistance.
- Change in CD4+ count over time; safety and tolerability; patient-reported outcomes.
- Virologic non-response was defined as either having a plasma HIV-1 RNA level decrease of <1.0 log₁₀ c/mL by Week 12 or a plasma HIV-1 RNA level of ≥200 c/mL on or after Day of Choice with no history of suppression <50 c/mL and confirmed upon re-test.
- HIV-1 RNA was measured using the Roche cobas 6800 assay for participant management. Prior studies in the DTG/3TC development program have used the Abbott RealTime HIV-1 assay.
- During the study, it was noted in contemporaneous trials that central lab viral load results were inconsistent with local lab findings and clinical assessments, prompting additional testing using the Abbott assay.
- Virologic efficacy analyses presented here are based on Abbott results.

Results

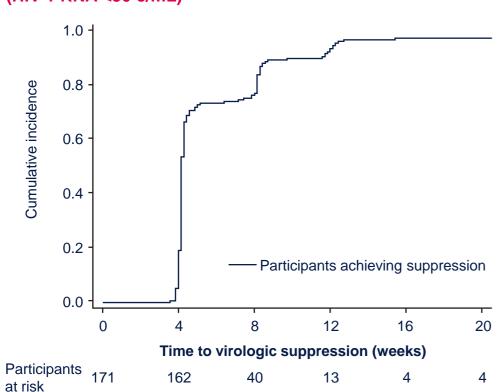
Table 1. VOLITION Enrolled a Diverse Population of **Treatment-Naive Adults With HIV-1**



*Other race participants: Multiple, n=3; Asian, n=4. †Argentina (n=28), Canada, (n=9), Chile (n=18), France (n=9), Germany (n=5), Italy (n=16), Spain (n=17), United States (including Puerto Rico; n=69). 3TC, lamivudine; DTG, dolutegravir; IQR, interquartile range.

- A diverse population of 171 participants was enrolled.
- 26% were female gender, 30% were Black, 51% were Hispanic/Latinx, and 19% had Centers for Disease Controlclassified Stage 3 disease (Table 1).
- 9% had a baseline plasma HIV-1 RNA ≥500,000 c/mL and 16% had a baseline CD4+ cell count <200 cells/mm³.

Figure 2. DTG/3TC Enabled Rapid Virologic Suppression (HIV-1 RNA <50 c/mL)

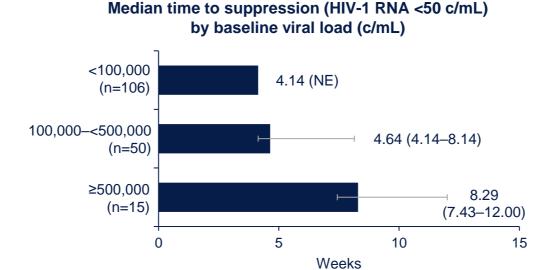


3TC, lamivudine; DTG, dolutegravir.

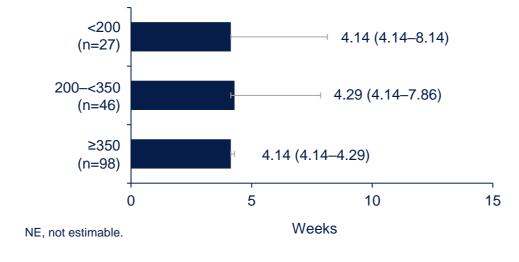
- Median (95% confidence interval) time to suppression with DTG/3TC was 4.1 (4.1–4.3) weeks and 97.7% (n=167/171) achieved virologic suppression within the 16-week Suppression Phase (Figure 2).
- One participant met protocol-defined CVF without treatmentemergent resistance and treatment was not changed.

13th IAS Conference on HIV Science; July 13-17, 2025; Kigali, Rwanda

Figure 3. Virologic Suppression Outcomes Were Robust Across Baseline Viral Load and CD4+ Cell Count Categories



Median time to suppression (HIV-1 RNA <50 c/mL) by baseline CD4+ cell count (cells/mm³)



- As expected, median time to suppression was longer in participants with very high baseline viral loads; however, it was similar across CD4+ cell count categories (Figure 3).
- High rates of suppression to HIV-1 RNA <50 c/mL were observed during the Suppression Phase regardless of baseline viral load (93–99%) and CD4+ cell count category (96–98%).
- Initial CD4+ cell counts substantially increased from baseline (n=171) to Day of Choice (n=157) with a mean change (standard deviation) of 157.3 cells/mm³ (216.7).

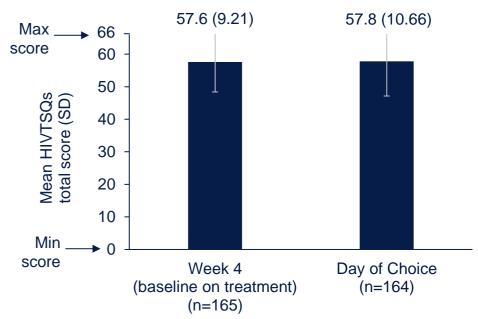
Table 2. DTG/3TC Was Well Tolerated With Few **Drug-Related AEs Through the Suppression Phase***

Parameter, n (%)	DTG/3TC (n=171)
Any AE	89 (52)
Any drug-related AEs [†]	17 (10)
Drug-related AEs reported in ≥2% of participants	
Fatigue	4 (2)
Diarrhea	3 (2)
Dizziness	3 (2)
Any Grade ≥3 AE	10 (6)
Drug-related	0
Any AE leading to withdrawal	1 (<1)‡
Drug-related	0
Any serious AE	5 (3) [§]
Drug-related	0

*Suppression Phase period was variable for participants. †All were Grade 1 or 2. ‡Pneumocystis jirovecii pneumonia. §Pneumocystis jirovecii pneumonia (n=2); cellulitis (n=1); cytomegalovirus infection reactivation (n=1); lower respiratory tract infection (viral, n=1); cholecystitis (n=1). AE, adverse event; 3TC, lamivudine; DTG, dolutegravir.

- Overall, 10% of participants had a drug-related Grade 1 or 2 adverse event (AE); there were no drug-related Grade ≥3 AEs (Table 2).
- No SAEs were considered drug-related and only one (<1%) participant withdrew due to an AE.
- Drug-related AEs were infrequent and consistent with the known safety profile of DTG/3TC.6

Figure 4. Treatment Satisfaction With DTG/3TC Was High at Week 4 (Baseline on Treatment) and Day of Choice*



*n=6 had missing data at Week 4; n=7 had missing data at Day of Choice. 3TC, lamivudine; DTG, dolutegravir; HIVTSQs, HIV Treatment Satisfaction Questionnaire status version: SD. standard deviation.

 HIVTSQ total scores were high with DTG/3TC at Week 4 (baseline on treatment) and maintained through Day of Choice (Figure 4).

Participants Reported Reductions in Bothersome Symptoms, Anxiety, and Depression With DTG/3TC **During the Suppression Phase**

- Mean (SD) total symptom bother scores, assessed using the Symptom Distress Module, reduced from 10.5 (11.1) at baseline to 7.3 (10.7) at Day of Choice.
- The top three most frequently reported bothersome symptoms at baseline were nervous/anxious, fatigue/loss of energy, and felt sad/down/depressed; all improved through the Suppression Phase.
- General Anxiety Disorder 7 (GAD-7) and Patient Health Questionnaire 9 (PHQ-9; depression) total mean (SD) scores reduced from baseline (GAD-7, 5.0 [4.4]; PHQ-9, 4.7 [4.7]) to Day of Choice (GAD-7, 3.0 [4.0]; PHQ-9, 3.5 [4.6]).

Participants Reported Positive Opinions About Switching to CAB+RPV LA at Day of Choice

- At baseline, 85% (n=101/119) of participants who had considered what treatment they would choose at Day of Choice expressed an interest in switching to CAB+RPV LA therapy.
- Positive opinion for switching to CAB+RPV LA was maintained from baseline to Day of Choice, with 89% (n=129/145) of eligible participants choosing to switch to CAB+RPV LA (see Poster EP0170 for further details on participants' perceptions of switching).⁷

Conclusions

- Once-daily DTG/3TC enabled rapid virologic suppression in a diverse population of treatment-naive adults with HIV-1. confirming its high potency and providing a pathway to person-centered treatment, allowing people to choose an early switch to LA therapy of their own VOLITION.
- A total of 98% of participants achieved virologic suppression on DTG/3TC by Day of Choice.
- The median time to virologic suppression on DTG/3TC was
- Rates of suppression with DTG/3TC were high regardless of baseline viral load or CD4+ count category.
- Initial CD4+ cell count recovery increased rapidly with DTG/3TC from baseline to Day of Choice.
- DTG/3TC was well tolerated with no new safety signals identified. Participants reported high levels of treatment satisfaction as well as reductions in bothersome symptoms, anxiety, and depression during the Suppression Phase.
- Most participants expressed an interest in switching to CAB+RPV LA at baseline and the majority of those who were eligible chose to switch at Day of Choice.

Disclaimer This content was acquired following an unsolicited medical information enquiry by a healthcare professional. Always consult the product information for your country, before prescribing a ViiV medicine. ViiV does not recommend the use of our medicines outside the terms of their license. In some cases, the scientific Information requested and downloaded may relate to the use of our medicine(s) outside of their license.