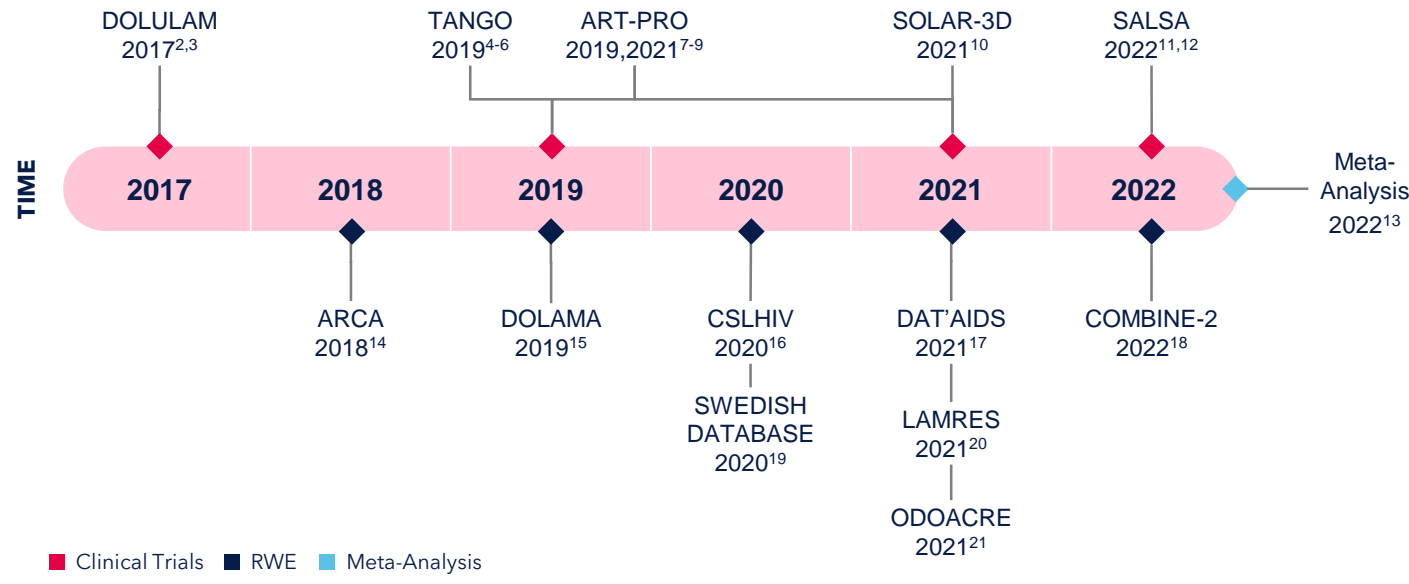


# Use of Dovato in Patients With the M184V/I Resistance Mutation

Dovato (dolutegravir/lamivudine [DTG/3TC]) is not recommended for use in patients with current or past history of resistance to any components of DTG or 3TC.<sup>1</sup> Data specific to the use of Dovato in patients with the M184V/I resistance mutation are limited.

## Summary of Data From Treatment Experienced Patients With M184V/I Receiving DTG + 3TC



In the TANGO and SALSA trials, 9 treatment-experienced participants with the M184V/I mutation (based on proviral DNA analysis) received DTG/3TC. All 9 patients maintained virological suppression (HIV-1 RNA < 50 copies/mL) at Week 48 (including Weeks 96 and 144 for TANGO).<sup>4-6,11,12</sup>

### Prospective Study: TANGO<sup>4-6</sup>

TANGO is a phase 3, non-inferiority trial evaluating the efficacy and safety of a switch to DTG/3TC in HIV-1-infected adults with virologic suppression (HIV-1 RNA < 50 copies/mL) on a 3-drug TAF-based regimen.

Patients, n (%)	DTG/3TC (N = 318) <sup>a</sup>	TAF-based regimen (N = 308) <sup>a</sup>
Archived M184V/I at Baseline	4 (1)	3 (1)
HIV-1 RNA < 50 copies/mL at Week 48 <sup>b</sup>	4 (100)	3 (100)
HIV-1 RNA ≥ 50 copies/mL at Week 48 <sup>b</sup>	0	0

### SALSA<sup>11,12</sup>

SALSA is a phase 3, non-inferiority trial evaluating the efficacy and safety of switching to the 2-drug regimen of DTG/3TC FDC compared with continuing any current 3- or 4-drug ART regimen in adults with HIV-1 over 48 weeks.

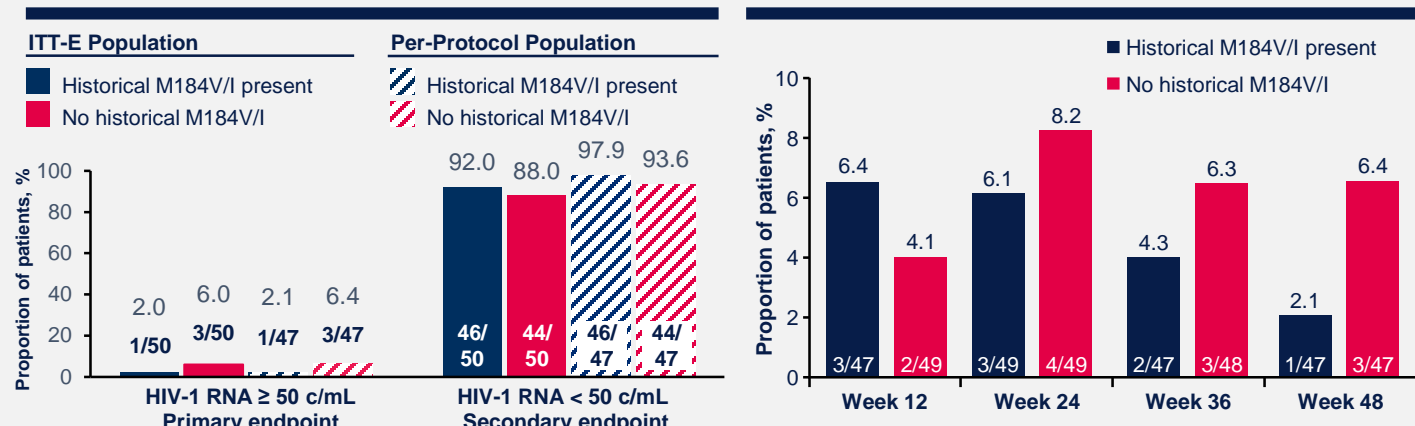
Patients, n	DTG/3TC (N = 246) <sup>c</sup>	CAR (N = 247) <sup>c</sup>
Archived M184V/I at Baseline	5	5
VL < 40 copies/mL and TND at Week 48	4	3
VF	0	0

- Limited prospective and observational cohort data are available specific to the use of DTG + 3TC in patients with varying levels of treatment experience and with a history of M184V/I.<sup>2,3,7-10,14-21</sup>
- LAMRES, Dat/AIDS, and SOLAR-3D are the largest studies in virologically suppressed patients switching to DTG + 3TC in the presence or absence of archived resistance.

## SOLAR 3D: Virologic control in the presence and absence of M184V/I through Week 48<sup>10</sup>

Virologic Suppression at Week 48 (FDA Snapshot Analysis)

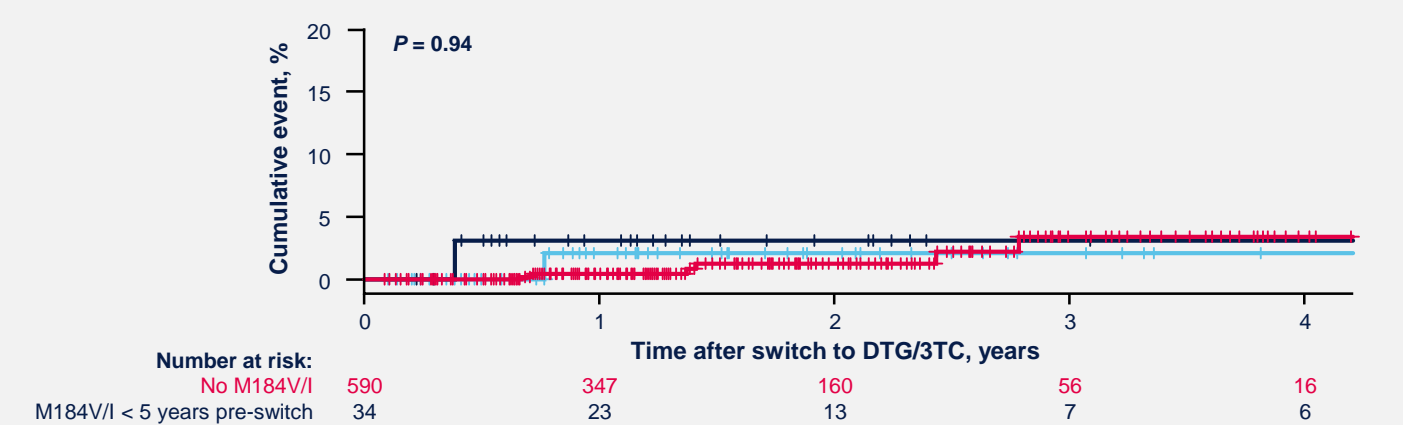
Frequency of VL Blips Through Week 48



- Key findings:**
- In this prospective study of 100 virologically suppressed patients switching to DTG/3TC, historic M184V/I was detected in 50 patients, 15 of whom had proviral M184V/I at baseline.<sup>d</sup>
  - At Week 48, the proportion of participants with HIV-1 RNA < 50 c/mL was similar between groups.
  - The VL TND<sup>a</sup> at Week 48 was 84% and 80% in participants with and without M184V/I, respectively.
  - Drug-related AEs and AEs leading to withdrawal were similar across treatment arms.
  - There were no cases of CVF, and thus, no cases of treatment-emergent resistance.

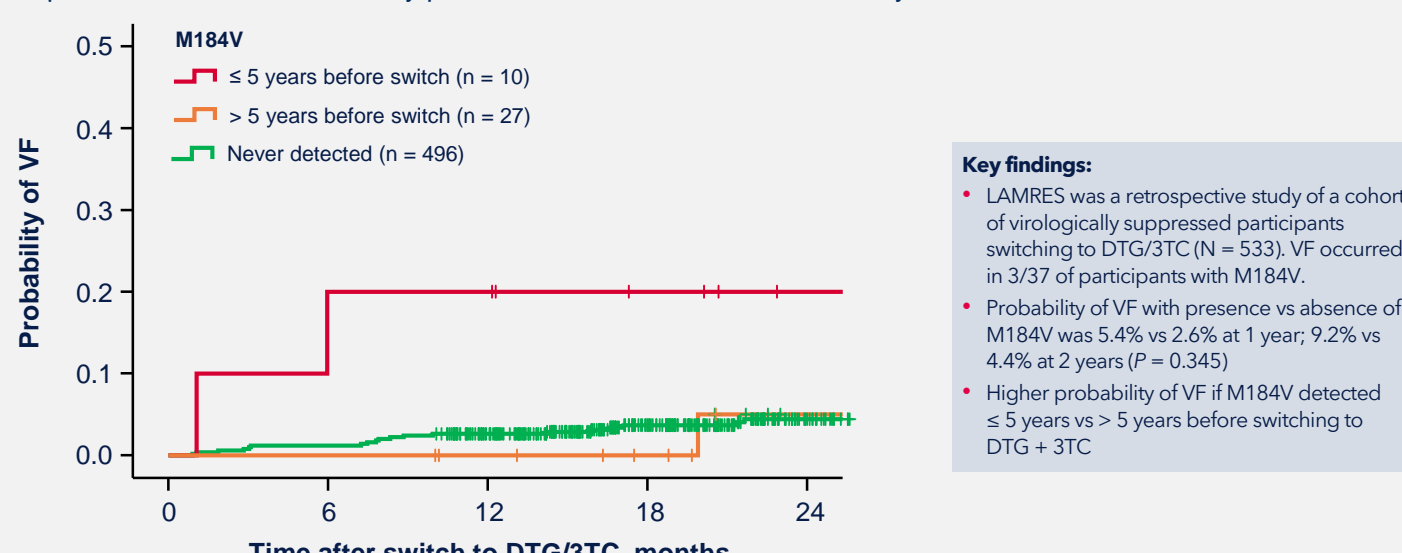
## Dat/AIDS: Incidence of VF and probability of survival without VF in the presence and absence of M184V<sup>17</sup>

Incidence of VF



## LAMRES: Probability of VF in virologically suppressed patients in the presence and absence of M184V<sup>20</sup>

Kaplan-Meier estimates of VF by presence or absence of M184V and by time of last M184V detection



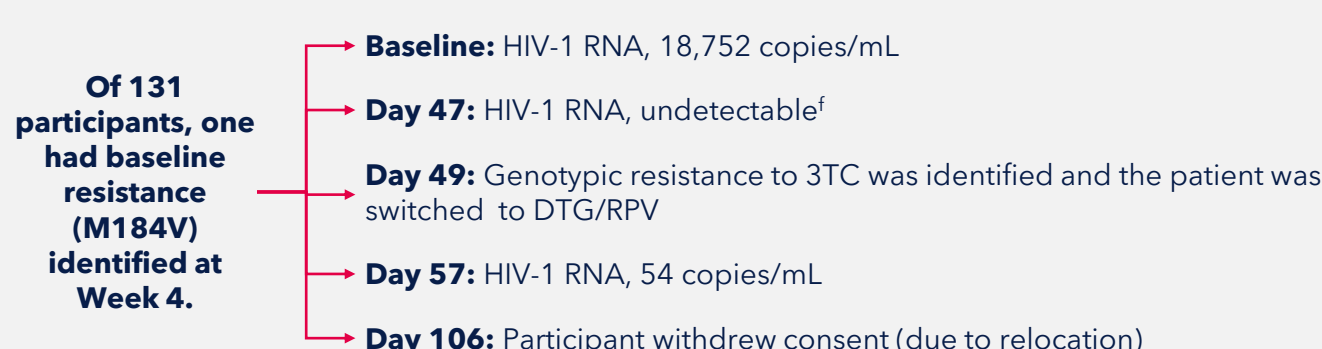
## Systematic Literature Review<sup>13</sup>

A systematic literature review and meta-analysis evaluated the impact of historical or archived M184V/I on the effectiveness of DTG + 3TC. Virologic failure rates ranged from 0.0%–3.76% up to Week 96, and no treatment-emergent mutations were reported.<sup>13</sup>

Data describing the use of DTG + 3TC in treatment naive patients who have the M184V/I is very limited.

## STAT Study<sup>22,23</sup>

The STAT study (ClinicalTrials.gov, NCT03945981) is a phase 3b, multicenter, open-label, single-arm, pilot study assessing the feasibility, efficacy, and safety of using DTG/3TC as a first-line regimen in a “test-and-treat” model of care in the United States.



### PI

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### FOOTNOTES:

<sup>a</sup> ITT-E Population with baseline proviral DNA resistance result, with ≥ 1 post-Baseline on-treatment HIV-1 RNA viral load result and excluding participants who have withdrawn from the study because of protocol deviation (n = 5); <sup>b</sup> Last available on-treatment HIV-1 RNA viral load through Week 48 analysis using last on-treatment HIV-1 RNA viral load before discontinuation (percentages based on baseline mutation status, n); <sup>c</sup> Overall proportions of participants with HIV-1 RNA < 50 c/mL at last available on-treatment VL were DTG/3TC, 191/192 (> 99%); CAR, 182/185 (98%); no participants in either arm met CVW criteria; <sup>d</sup> Assessed by NGS using a 10% detection threshold; <sup>e</sup> VL < 20 copies/mL; <sup>f</sup> VL < 40 copies/mL.

### ABBREVIATIONS:

3TC = lamivudine; AE = adverse event; ARCA = Antiretroviral Resistance Cohort Analysis; ART = antiretroviral therapy; CAR = current antiretroviral regimen; CVF = confirmed virologic failure; CVW = confirmed virologic withdrawal; DNA = deoxyribonucleic acid; DTG = dolutegravir; FDA = US Food and Drug Administration; FDC = fixed-dose combination; ITT-E = Intention to Treat-Exposed; RPV = rilpivirine; RWE = real world evidence; RNA = ribonucleic acid; TAF = tenofovir alafenamide; TND = target not detected; VF = virologic failure; VL = viral load.

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