



Clinical trial results:

A Phase 3, Randomized, Double-Blind, Switch Study to Evaluate F/TAF in HIV-1 Positive Subjects who are Virologically Suppressed on Regimens containing FTC/TDF

Summary

| | |
|--------------------------|----------------|
| EudraCT number | 2013-005138-39 |
| Trial protocol | BE IT |
| Global end of trial date | 01 March 2019 |

Results information

| | |
|--------------------------------|---------------|
| Result version number | v1 (current) |
| This version publication date | 15 March 2020 |
| First version publication date | 15 March 2020 |

Trial information

Trial identification

| | |
|-----------------------|----------------|
| Sponsor protocol code | GS-US-311-1089 |
|-----------------------|----------------|

Additional study identifiers

| | |
|------------------------------------|-------------|
| ISRCTN number | - |
| ClinicalTrials.gov id (NCT number) | NCT02121795 |
| WHO universal trial number (UTN) | - |

Notes:

Sponsors

| | |
|------------------------------|---|
| Sponsor organisation name | Gilead Sciences |
| Sponsor organisation address | 333 Lakeside Drive, Foster City, United States, 94404 |
| Public contact | Gilead Clinical Study Information Center, Gilead Sciences, GileadClinicalTrials@gilead.com |
| Scientific contact | Gilead Clinical Study Information Center, Gilead Sciences, GileadClinicalTrials@gilead.com |

Notes:

Paediatric regulatory details

| | |
|--|----|
| Is trial part of an agreed paediatric investigation plan (PIP) | No |
| Does article 45 of REGULATION (EC) No 1901/2006 apply to this trial? | No |
| Does article 46 of REGULATION (EC) No 1901/2006 apply to this trial? | No |

Notes:

Results analysis stage

| | |
|--|----------------|
| Analysis stage | Final |
| Date of interim/final analysis | 01 March 2019 |
| Is this the analysis of the primary completion data? | Yes |
| Primary completion date | 12 August 2015 |
| Global end of trial reached? | Yes |
| Global end of trial date | 01 March 2019 |
| Was the trial ended prematurely? | No |

Notes:

General information about the trial

Main objective of the trial:

This study evaluated the efficacy of switching from emtricitabine/tenofovir disoproxil fumarate (FTC/TDF) fixed dose combination (FDC) to emtricitabine/tenofovir alafenamide (F/TAF) FDC in HIV-1 positive participants who were virologically suppressed on regimens containing FTC/TDF.

This study consisted of a 96 week double-blind treatment period. After Week 96, all participants continued on blinded study drug treatment and attended visits every 12 weeks until treatment assignments were unblinded. All participants returned for an unblinding visit and were given the option to receive open-label F/TAF and attended visits every 12 weeks until F/TAF was commercially available, or the sponsor terminated the F/TAF clinical development program.

Protection of trial subjects:

The protocol and consent/assent forms were submitted by each investigator to a duly constituted Independent Ethics Committee (IEC) or Institutional Review Board (IRB) for review and approval before study initiation. All revisions to the consent/assent forms (if applicable) after initial IEC/IRB approval were submitted by the investigator to the IEC/IRB for review and approval before implementation in accordance with regulatory requirements.

This study was conducted in accordance with recognized international scientific and ethical standards, including but not limited to the International Conference on Harmonization guideline for Good Clinical Practice (ICH GCP) and the original principles embodied in the Declaration of Helsinki.

Background therapy: -

Evidence for comparator: -

| | |
|---|-------------|
| Actual start date of recruitment | 06 May 2014 |
| Long term follow-up planned | No |
| Independent data monitoring committee (IDMC) involvement? | Yes |

Notes:

Population of trial subjects

Subjects enrolled per country

| | |
|--------------------------------------|--------------------|
| Country: Number of subjects enrolled | United Kingdom: 41 |
| Country: Number of subjects enrolled | Belgium: 6 |
| Country: Number of subjects enrolled | France: 40 |
| Country: Number of subjects enrolled | Italy: 8 |
| Country: Number of subjects enrolled | United States: 527 |
| Country: Number of subjects enrolled | Puerto Rico: 31 |
| Country: Number of subjects enrolled | Canada: 15 |
| Worldwide total number of subjects | 668 |
| EEA total number of subjects | 95 |

Notes:

| Subjects enrolled per age group | |
|---|-----|
| In utero | 0 |
| Preterm newborn - gestational age < 37 wk | 0 |
| Newborns (0-27 days) | 0 |
| Infants and toddlers (28 days-23 months) | 0 |
| Children (2-11 years) | 0 |
| Adolescents (12-17 years) | 0 |
| Adults (18-64 years) | 647 |
| From 65 to 84 years | 21 |
| 85 years and over | 0 |

Subject disposition

Recruitment

Recruitment details:

Participants were enrolled at study sites in North America and Europe. The first participant was screened on 06 May 2014. The last study visit occurred on 1 March 2019.

Pre-assignment

Screening details:

780 participants were screened.

Period 1

| | |
|------------------------------|--|
| Period 1 title | Double-Blind Phase |
| Is this the baseline period? | Yes |
| Allocation method | Randomised - controlled |
| Blinding used | Double blind |
| Roles blinded | Subject, Investigator, Carer, Assessor |

Arms

| | |
|------------------------------|-------------------|
| Are arms mutually exclusive? | Yes |
| Arm title | F/TAF + 3rd Agent |

Arm description:

Double-Blind Phase: F/TAF (200/25 mg or 200/10 mg) tablet + FTC/TDF placebo tablet + third agent administered orally once daily for at least 96 weeks.

| | |
|--|-------------------------------------|
| Arm type | Experimental |
| Investigational medicinal product name | Emtricitabine/tenofovir alafenamide |
| Investigational medicinal product code | |
| Other name | Descovy®, F/TAF |
| Pharmaceutical forms | Tablet |
| Routes of administration | Oral use |

Dosage and administration details:

200/25 mg or 200/10 mg tablet orally once daily

| | |
|--|---|
| Investigational medicinal product name | Emtricitabine/tenofovir disoproxil fumarate placebo |
| Investigational medicinal product code | |
| Other name | |
| Pharmaceutical forms | Tablet |
| Routes of administration | Oral use |

Dosage and administration details:

Tablet orally once daily

| | |
|--|-------------|
| Investigational medicinal product name | Third agent |
| Investigational medicinal product code | |
| Other name | |
| Pharmaceutical forms | Tablet |
| Routes of administration | Oral use |

Dosage and administration details:

Third agent orally once daily. An allowed third antiretroviral agent of the participant's pre-existing regimen included one of the following: ritonavir-boosted atazanavir (ATV/r), ritonavir-boosted lopinavir (LPV/r), ritonavir-boosted darunavir (DRV/r), efavirenz (EFV; Sustiva®), rilpivirine (RPV; Edurant®), nevirapine (NVP; Viramune®), raltegravir (RAL; Isentress®), dolutegravir (DTG; Tivicay®), and maraviroc (MVC; Selzentry®).

| | |
|------------------|---------------------|
| Arm title | FTC/TDF + 3rd Agent |
|------------------|---------------------|

Arm description:

Double-Blind Phase: FTC/TDF 200/300 mg tablet + F/TAF placebo tablet + third agent administered orally once daily for at least 96 weeks.

| | |
|--|---|
| Arm type | Experimental |
| Investigational medicinal product name | Emtricitabine/tenofovir disoproxil fumarate |
| Investigational medicinal product code | |
| Other name | Truvada®, FTC/TDF |
| Pharmaceutical forms | Tablet |
| Routes of administration | Oral use |

Dosage and administration details:

200/300 mg tablet orally once daily

| | |
|--|---|
| Investigational medicinal product name | Emtricitabine/tenofovir alafenamide placebo |
| Investigational medicinal product code | |
| Other name | |
| Pharmaceutical forms | Tablet |
| Routes of administration | Oral use |

Dosage and administration details:

Tablet orally once daily

| | |
|--|-------------|
| Investigational medicinal product name | Third agent |
| Investigational medicinal product code | |
| Other name | |
| Pharmaceutical forms | Tablet |
| Routes of administration | Oral use |

Dosage and administration details:

Third agent orally once daily. An allowed third antiretroviral agent of the participant's pre-existing regimen included one of the following: ritonavir-boosted atazanavir (ATV/r), ritonavir-boosted lopinavir (LPV/r), ritonavir-boosted darunavir (DRV/r), efavirenz (EFV; Sustiva®), rilpivirine (RPV; Edurant®), nevirapine (NVP; Viramune®), raltegravir (RAL; Isentress®), dolutegravir (DTG; Tivicay®), and maraviroc (MVC; Selzentry®).

| Number of subjects in period 1^[1] | F/TAF + 3rd Agent | FTC/TDF + 3rd Agent |
|---|--------------------------|----------------------------|
| Started | 333 | 330 |
| Completed | 296 | 300 |
| Not completed | 37 | 30 |
| Physician decision | 2 | 5 |
| Non-Compliance with Study Drug | 3 | 1 |
| Adverse event, non-fatal | 5 | - |
| Death | 1 | 1 |
| Withdrawal by Subject | 19 | 16 |
| Protocol Violation | - | 3 |
| Lost to follow-up | 7 | 4 |

Notes:

[1] - The number of subjects reported to be in the baseline period are not the same as the worldwide number enrolled in the trial. It is expected that these numbers will be the same.

Justification: 5 participants (F/TAF + 3rd Agent: N=1; FTC/TDF + 3rd Agent: N=4) who were randomized but not treated are not included in the subject disposition table.

Period 2

| | |
|------------------------------|------------------|
| Period 2 title | Open-Label Phase |
| Is this the baseline period? | No |
| Allocation method | Not applicable |
| Blinding used | Not blinded |

Arms

| | |
|------------------------------|-----------------------------|
| Are arms mutually exclusive? | Yes |
| Arm title | Open-Label F/TAF from F/TAF |

Arm description:

Open-Label Phase: F/TAF (200/25 mg or 200/10 mg) tablet orally once daily until F/TAF was commercially available or until Gilead Sciences terminated the F/TAF clinical development program in participants from the F/TAF + 3rd Agent group.

| | |
|--|-------------------------------------|
| Arm type | Experimental |
| Investigational medicinal product name | Emtricitabine/tenofovir alafenamide |
| Investigational medicinal product code | |
| Other name | Descovy®, F/TAF |
| Pharmaceutical forms | Tablet |
| Routes of administration | Oral use |

Dosage and administration details:

200/25 mg or 200/10 mg tablet orally once daily

| | |
|------------------|-------------------------------|
| Arm title | Open-Label F/TAF from FTC/TDF |
|------------------|-------------------------------|

Arm description:

Open-Label Phase: F/TAF (200/25 mg or 200/10 mg) tablet orally once daily until F/TAF was commercially available or until Gilead Sciences terminated the F/TAF clinical development program in participants from the FTC/TDF + 3rd Agent group.

| | |
|--|-------------------------------------|
| Arm type | Experimental |
| Investigational medicinal product name | Emtricitabine/tenofovir alafenamide |
| Investigational medicinal product code | |
| Other name | Descovy®, F/TAF |
| Pharmaceutical forms | Tablet |
| Routes of administration | Oral use |

Dosage and administration details:

200/25 mg or 200/10mg tablet orally once daily

| Number of subjects in period 2^[2] | Open-Label F/TAF from F/TAF | Open-Label F/TAF from FTC/TDF |
|---|-----------------------------|-------------------------------|
| Started | 33 | 31 |
| Completed | 21 | 21 |
| Not completed | 12 | 10 |
| Physician decision | 8 | 8 |
| Withdrawal by Subject | 3 | 2 |
| Lost to follow-up | 1 | - |

Notes:

[2] - The number of subjects starting the period is not consistent with the number completing the preceding period. It is expected the number of subjects starting the subsequent period will be the same as the number completing the preceding period.

Justification: Not all participants entered the Open-Label Phase.

Baseline characteristics

Reporting groups

| | |
|--|---------------------|
| Reporting group title | F/TAF + 3rd Agent |
| Reporting group description: Double-Blind Phase: F/TAF (200/25 mg or 200/10 mg) tablet + FTC/TDF placebo tablet + third agent administered orally once daily for at least 96 weeks. | |
| Reporting group title | FTC/TDF + 3rd Agent |
| Reporting group description: Double-Blind Phase: FTC/TDF 200/300 mg tablet + F/TAF placebo tablet + third agent administered orally once daily for at least 96 weeks. | |

| Reporting group values | F/TAF + 3rd Agent | FTC/TDF + 3rd Agent | Total |
|------------------------------------|-------------------|---------------------|-------|
| Number of subjects | 333 | 330 | 663 |
| Age categorical Units: Subjects | | | |

| | | | |
|---|-------------|-------------|-----|
| Age continuous Units: years arithmetic mean standard deviation | 47 ± 9.9 | 48 ± 9.7 | - |
| Gender categorical Units: Subjects | | | |
| Female | 48 | 54 | 102 |
| Male | 285 | 276 | 561 |
| Ethnicity (NIH/OMB) Units: Subjects | | | |
| Hispanic or Latino | 48 | 78 | 126 |
| Not Hispanic or Latino | 285 | 252 | 537 |
| Unknown or Not Reported | 0 | 0 | 0 |
| Race/Ethnicity, Customized Units: Subjects | | | |
| American Indian or Alaska Native | 2 | 1 | 3 |
| Asian | 6 | 0 | 6 |
| Black | 69 | 67 | 136 |
| Native Hawaiian or Pacific Islander | 2 | 1 | 3 |
| White | 244 | 253 | 497 |
| Not Permitted | 1 | 1 | 2 |
| Other | 9 | 7 | 16 |
| Region of Enrollment Units: Subjects | | | |
| Canada | 5 | 9 | 14 |
| Belgium | 3 | 3 | 6 |
| United States | 282 | 274 | 556 |
| Italy | 2 | 6 | 8 |
| United Kingdom | 23 | 17 | 40 |
| France | 18 | 21 | 39 |
| Baseline Third Agent Units: Subjects | | | |

| | | | |
|---|-------------|-------------|-----|
| Atazanavir boosted with ritonavir (ATV/r) | 53 | 50 | 103 |
| Darunavir boosted with ritonavir (DRV/r) | 84 | 82 | 166 |
| Lopinavir boosted with ritonavir (LPV/r) | 18 | 18 | 36 |
| Dolutegravir (DTG) | 26 | 23 | 49 |
| Efavirenz (EFV) | 8 | 6 | 14 |
| Maraviroc (MVC) | 1 | 6 | 7 |
| Nevirapine (NVP) | 74 | 66 | 140 |
| Raltegravir (RAL) | 66 | 73 | 139 |
| Rilpivirine (RPV) | 3 | 6 | 9 |
| HIV-1 RNA Categories | | | |
| Units: Subjects | | | |
| < 50 copies/mL | 329 | 326 | 655 |
| >= 50 copies/mL | 4 | 4 | 8 |
| CD4 Cell Count | | | |
| Units: cells/ μ L | | | |
| arithmetic mean | 691 | 667 | |
| standard deviation | ± 272.6 | ± 272.3 | - |

End points

End points reporting groups

| | |
|---|-------------------------------|
| Reporting group title | F/TAF + 3rd Agent |
| Reporting group description: Double-Blind Phase: F/TAF (200/25 mg or 200/10 mg) tablet + FTC/TDF placebo tablet + third agent administered orally once daily for at least 96 weeks. | |
| Reporting group title | FTC/TDF + 3rd Agent |
| Reporting group description: Double-Blind Phase: FTC/TDF 200/300 mg tablet + F/TAF placebo tablet + third agent administered orally once daily for at least 96 weeks. | |
| Reporting group title | Open-Label F/TAF from F/TAF |
| Reporting group description: Open-Label Phase: F/TAF (200/25 mg or 200/10 mg) tablet orally once daily until F/TAF was commercially available or until Gilead Sciences terminated the F/TAF clinical development program in participants from the F/TAF + 3rd Agent group. | |
| Reporting group title | Open-Label F/TAF from FTC/TDF |
| Reporting group description: Open-Label Phase: F/TAF (200/25 mg or 200/10 mg) tablet orally once daily until F/TAF was commercially available or until Gilead Sciences terminated the F/TAF clinical development program in participants from the FTC/TDF + 3rd Agent group. | |

Primary: Percentage of Participants With HIV-1 RNA < 50 Copies/mL at Week 48 as Defined by the FDA Snapshot Analysis

| | |
|--|---|
| End point title | Percentage of Participants With HIV-1 RNA < 50 Copies/mL at Week 48 as Defined by the FDA Snapshot Analysis |
| End point description: The percentage of participants achieving HIV-1 RNA < 50 copies/mL at Week 48 was analyzed using the snapshot algorithm, which defines a participant's virologic response using only the viral load at the predefined time point within an allowed window of time, along with study drug discontinuation status. The Full Analysis Set included all participants who were randomized into the study and received at least one dose of study drug. | |
| End point type | Primary |
| End point timeframe: 48 Weeks | |

| End point values | F/TAF + 3rd Agent | FTC/TDF + 3rd Agent | | |
|-----------------------------------|-------------------|---------------------|--|--|
| Subject group type | Reporting group | Reporting group | | |
| Number of subjects analysed | 333 | 330 | | |
| Units: percentage of participants | | | | |
| number (not applicable) | 94.3 | 93.0 | | |

Statistical analyses

| | |
|----------------------------|---|
| Statistical analysis title | Statistical Analysis 1 |
| Comparison groups | F/TAF + 3rd Agent v FTC/TDF + 3rd Agent |

| | |
|---|--------------------------------|
| Number of subjects included in analysis | 663 |
| Analysis specification | Pre-specified |
| Analysis type | non-inferiority ^[1] |
| P-value | = 0.5 ^[2] |
| Method | Cochran-Mantel-Haenszel |
| Parameter estimate | Percentage difference |
| Point estimate | 1.3 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | -2.5 |
| upper limit | 5.1 |

Notes:

[1] - Noninferiority was assessed using a conventional 95.002% confidence interval (CI) approach, with a noninferiority margin of 10%.

[2] - P-value was from Cochran-Mantel-Haenszel (CMH) test stratified by third agent.

Secondary: Percentage Change From Baseline in Hip Bone Mineral Density (BMD) at Week 48

| | |
|-----------------|--|
| End point title | Percentage Change From Baseline in Hip Bone Mineral Density (BMD) at Week 48 |
|-----------------|--|

End point description:

Hip BMD was assessed by dual energy x-ray absorptiometry (DXA) scan. Participants in the Hip DXA Analysis Set (participants who were randomized and received at least one dose of study drug and had nonmissing baseline hip BMD data) with available data were analyzed.

| | |
|----------------|-----------|
| End point type | Secondary |
|----------------|-----------|

End point timeframe:

Baseline; Week 48

| End point values | F/TAF + 3rd Agent | FTC/TDF + 3rd Agent | | |
|--------------------------------------|-------------------|---------------------|--|--|
| Subject group type | Reporting group | Reporting group | | |
| Number of subjects analysed | 304 | 305 | | |
| Units: percentage change | | | | |
| arithmetic mean (standard deviation) | 1.236 (± 2.6602) | -0.071 (± 2.3316) | | |

Statistical analyses

No statistical analyses for this end point

Secondary: Percentage Change From Baseline in Spine BMD at Week 48

| | |
|-----------------|---|
| End point title | Percentage Change From Baseline in Spine BMD at Week 48 |
|-----------------|---|

End point description:

Spine BMD was assessed by DXA scan. Participants in the Spine DXA Analysis Set (participants who were randomized and received at least one dose of study drug and had nonmissing baseline spine BMD data) with available data were analyzed.

| | |
|----------------|-----------|
| End point type | Secondary |
|----------------|-----------|

End point timeframe:

Baseline; Week 48

| End point values | F/TAF + 3rd Agent | FTC/TDF + 3rd Agent | | |
|--------------------------------------|-----------------------|------------------------|--|--|
| Subject group type | Reporting group | Reporting group | | |
| Number of subjects analysed | 304 | 309 | | |
| Units: percentage change | | | | |
| arithmetic mean (standard deviation) | 1.662 (\pm 3.1279) | -0.109 (\pm 3.3476) | | |

Statistical analyses

No statistical analyses for this end point

Secondary: Percentage of Participants With HIV-1 RNA < 20 Copies/mL at Week 48 as Defined by the FDA Snapshot Analysis

| | |
|-----------------|---|
| End point title | Percentage of Participants With HIV-1 RNA < 20 Copies/mL at Week 48 as Defined by the FDA Snapshot Analysis |
|-----------------|---|

End point description:

The percentage of participants achieving HIV-1 RNA < 20 copies/mL at Week 48 was analyzed using the snapshot algorithm, which defines a participant's virologic response using only the viral load at the predefined time point within an allowed window of time, along with study drug discontinuation status. Participants in the Full Analysis Set were analyzed.

| | |
|----------------|-----------|
| End point type | Secondary |
|----------------|-----------|

End point timeframe:

Week 48

| End point values | F/TAF + 3rd Agent | FTC/TDF + 3rd Agent | | |
|-----------------------------------|-------------------|---------------------|--|--|
| Subject group type | Reporting group | Reporting group | | |
| Number of subjects analysed | 333 | 330 | | |
| Units: percentage of participants | | | | |
| number (not applicable) | 91.6 | 90.9 | | |

Statistical analyses

No statistical analyses for this end point

Secondary: Change From Baseline in CD4+ Cell Count at Week 48

| | |
|-----------------|--|
| End point title | Change From Baseline in CD4+ Cell Count at Week 48 |
|-----------------|--|

End point description:

Participants in the Full Analysis Set with on-treatment data were analyzed.

| | |
|----------------------|-----------|
| End point type | Secondary |
| End point timeframe: | |
| Baseline; Week 48 | |

| End point values | F/TAF + 3rd Agent | FTC/TDF + 3rd Agent | | |
|--------------------------------------|-------------------|---------------------|--|--|
| Subject group type | Reporting group | Reporting group | | |
| Number of subjects analysed | 313 | 311 | | |
| Units: cells/ μ L | | | | |
| arithmetic mean (standard deviation) | 20 (\pm 161.8) | 21 (\pm 152.7) | | |

Statistical analyses

No statistical analyses for this end point

Secondary: Percentage of Participants With HIV-1 RNA < 20 Copies/mL at Week 96 as Defined by the FDA Snapshot Analysis

| | |
|------------------------|--|
| End point title | Percentage of Participants With HIV-1 RNA < 20 Copies/mL at Week 96 as Defined by the FDA Snapshot Analysis |
| End point description: | The percentage of participants achieving HIV-1 RNA < 20 copies/mL at Week 96 was analyzed using the snapshot algorithm, which defines a participant's virologic response using only the viral load at the predefined time point within an allowed window of time, along with study drug discontinuation status. Participants in the Full Analysis Set were analyzed. |
| End point type | Secondary |
| End point timeframe: | |
| Week 96 | |

| End point values | F/TAF + 3rd Agent | FTC/TDF + 3rd Agent | | |
|-----------------------------------|-------------------|---------------------|--|--|
| Subject group type | Reporting group | Reporting group | | |
| Number of subjects analysed | 333 | 330 | | |
| Units: percentage of participants | | | | |
| number (not applicable) | 83.5 | 86.1 | | |

Statistical analyses

No statistical analyses for this end point

Secondary: Percentage of Participants With HIV-1 RNA < 50 Copies/mL at Weeks 96 as Defined by the FDA Snapshot Analysis

| | |
|-----------------|--|
| End point title | Percentage of Participants With HIV-1 RNA < 50 Copies/mL at Weeks 96 as Defined by the FDA Snapshot Analysis |
|-----------------|--|

End point description:

The percentage of participants achieving HIV-1 RNA < 50 copies/mL at Week 96 was analyzed using the snapshot algorithm, which defines a participant's virologic response using only the viral load at the predefined time point within an allowed window of time, along with study drug discontinuation status. Participants in the Full Analysis Set were analyzed.

| | |
|----------------|-----------|
| End point type | Secondary |
|----------------|-----------|

End point timeframe:

Week 96

| End point values | F/TAF + 3rd Agent | FTC/TDF + 3rd Agent | | |
|-----------------------------------|-------------------|---------------------|--|--|
| Subject group type | Reporting group | Reporting group | | |
| Number of subjects analysed | 333 | 330 | | |
| Units: percentage of participants | | | | |
| number (not applicable) | 88.6 | 89.1 | | |

Statistical analyses

No statistical analyses for this end point

Secondary: Percentage Change From Baseline in Hip BMD at Week 96

| | |
|-----------------|---|
| End point title | Percentage Change From Baseline in Hip BMD at Week 96 |
|-----------------|---|

End point description:

Hip BMD was assessed by DXA scan. Participants in the Hip DXA Analysis Set with available data were analyzed.

| | |
|----------------|-----------|
| End point type | Secondary |
|----------------|-----------|

End point timeframe:

Baseline; Week 96

| End point values | F/TAF + 3rd Agent | FTC/TDF + 3rd Agent | | |
|--------------------------------------|-------------------|---------------------|--|--|
| Subject group type | Reporting group | Reporting group | | |
| Number of subjects analysed | 291 | 292 | | |
| Units: percentage change | | | | |
| arithmetic mean (standard deviation) | 1.856 (± 3.2195) | -0.289 (± 2.9912) | | |

Statistical analyses

No statistical analyses for this end point

Secondary: Percentage Change From Baseline in Spine BMD at Week 96

| | |
|-----------------|---|
| End point title | Percentage Change From Baseline in Spine BMD at Week 96 |
|-----------------|---|

End point description:

Spine BMD was assessed by DXA scan. Participants in the Spine DXA Analysis Set with available data were analyzed.

| | |
|----------------|-----------|
| End point type | Secondary |
|----------------|-----------|

End point timeframe:

Baseline; Week 96

| End point values | F/TAF + 3rd Agent | FTC/TDF + 3rd Agent | | |
|--------------------------------------|-------------------|---------------------|--|--|
| Subject group type | Reporting group | Reporting group | | |
| Number of subjects analysed | 290 | 296 | | |
| Units: percentage change | | | | |
| arithmetic mean (standard deviation) | 2.159 (± 3.8374) | -0.109 (± 3.6738) | | |

Statistical analyses

No statistical analyses for this end point

Secondary: Change From Baseline in CD4+ Cell Count at Week 96

| | |
|-----------------|--|
| End point title | Change From Baseline in CD4+ Cell Count at Week 96 |
|-----------------|--|

End point description:

Participants in the Full Analysis Set with on-treatment data were analyzed.

| | |
|----------------|-----------|
| End point type | Secondary |
|----------------|-----------|

End point timeframe:

Baseline; Week 96

| End point values | F/TAF + 3rd Agent | FTC/TDF + 3rd Agent | | |
|--------------------------------------|-------------------|---------------------|--|--|
| Subject group type | Reporting group | Reporting group | | |
| Number of subjects analysed | 299 | 296 | | |
| Units: cells/ μ L | | | | |
| arithmetic mean (standard deviation) | 50 (± 198.7) | 46 (± 169.4) | | |

Statistical analyses

No statistical analyses for this end point

Adverse events

Adverse events information

Timeframe for reporting adverse events:

First dose of study drug to the last dose (maximum: 227.4 weeks) plus 30 days

Adverse event reporting additional description:

The Safety Analysis Set included all randomized participants who received at least one dose of study drug.

| | |
|-----------------|------------|
| Assessment type | Systematic |
|-----------------|------------|

Dictionary used

| | |
|-----------------|--------|
| Dictionary name | MedDRA |
|-----------------|--------|

| | |
|--------------------|------|
| Dictionary version | 21.1 |
|--------------------|------|

Reporting groups

| | |
|-----------------------|----------------------------------|
| Reporting group title | F/TAF + 3rd Agent (Double-Blind) |
|-----------------------|----------------------------------|

Reporting group description:

Double-Blind Phase: emtricitabine/tenofovir alafenamide (F/TAF) (200/25 mg or 200/10 mg) tablet + emtricitabine/tenofovir disoproxil fumarate (FTC/TDF) placebo tablet + third agent administered orally once daily for at least 96 weeks.

| | |
|-----------------------|------------------------------------|
| Reporting group title | FTC/TDF + 3rd Agent (Double-Blind) |
|-----------------------|------------------------------------|

Reporting group description:

Double-Blind Phase: FTC/TDF 200/300 mg tablet + F/TAF placebo tablet + third agent administered orally once daily for at least 96 weeks.

| | |
|-----------------------|-----------------------------|
| Reporting group title | Open-Label F/TAF From F/TAF |
|-----------------------|-----------------------------|

Reporting group description:

Open-Label Phase: F/TAF (200/25 mg or 200/10 mg) tablet orally once daily until F/TAF was commercially available or until Gilead Sciences terminated the F/TAF clinical development program in participants from the F/TAF + 3rd Agent group.

| | |
|-----------------------|-------------------------------|
| Reporting group title | Open-Label F/TAF From FTC/TDF |
|-----------------------|-------------------------------|

Reporting group description:

Open-Label Phase: F/TAF (200/25 mg or 200/10 mg) tablet orally once daily until F/TAF was commercially available or until Gilead Sciences terminated the F/TAF clinical development program in participants from the FTC/TDF + 3rd Agent group.

| Serious adverse events | F/TAF + 3rd Agent (Double-Blind) | FTC/TDF + 3rd Agent (Double-Blind) | Open-Label F/TAF From F/TAF |
|---|----------------------------------|------------------------------------|-----------------------------|
| Total subjects affected by serious adverse events | | | |
| subjects affected / exposed | 29 / 333 (8.71%) | 31 / 330 (9.39%) | 2 / 33 (6.06%) |
| number of deaths (all causes) | 2 | 1 | 0 |
| number of deaths resulting from adverse events | | | |
| Neoplasms benign, malignant and unspecified (incl cysts and polyps) | | | |
| Lung adenocarcinoma | | | |
| subjects affected / exposed | 1 / 333 (0.30%) | 0 / 330 (0.00%) | 0 / 33 (0.00%) |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Lymphoma | | | |

| | | | |
|--|-----------------|-----------------|----------------|
| subjects affected / exposed | 1 / 333 (0.30%) | 0 / 330 (0.00%) | 0 / 33 (0.00%) |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 1 | 0 / 0 | 0 / 0 |
| Metastases to lung | | | |
| subjects affected / exposed | 1 / 333 (0.30%) | 0 / 330 (0.00%) | 0 / 33 (0.00%) |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Metastases to lymph nodes | | | |
| subjects affected / exposed | 1 / 333 (0.30%) | 0 / 330 (0.00%) | 0 / 33 (0.00%) |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Tonsil cancer | | | |
| subjects affected / exposed | 1 / 333 (0.30%) | 0 / 330 (0.00%) | 0 / 33 (0.00%) |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Vascular disorders | | | |
| Aortic aneurysm | | | |
| subjects affected / exposed | 0 / 333 (0.00%) | 1 / 330 (0.30%) | 0 / 33 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Venous thrombosis limb | | | |
| subjects affected / exposed | 1 / 333 (0.30%) | 0 / 330 (0.00%) | 0 / 33 (0.00%) |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| General disorders and administration site conditions | | | |
| Chest pain | | | |
| subjects affected / exposed | 2 / 333 (0.60%) | 1 / 330 (0.30%) | 1 / 33 (3.03%) |
| occurrences causally related to treatment / all | 0 / 2 | 0 / 1 | 0 / 1 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Drowning | | | |
| subjects affected / exposed | 0 / 333 (0.00%) | 1 / 330 (0.30%) | 0 / 33 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 1 | 0 / 0 |

| | | | |
|---|-----------------|-----------------|----------------|
| Mucosal inflammation | | | |
| subjects affected / exposed | 1 / 333 (0.30%) | 0 / 330 (0.00%) | 0 / 33 (0.00%) |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Respiratory, thoracic and mediastinal disorders | | | |
| Acute respiratory failure | | | |
| subjects affected / exposed | 1 / 333 (0.30%) | 1 / 330 (0.30%) | 0 / 33 (0.00%) |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 1 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 1 | 0 / 0 | 0 / 0 |
| Dyspnoea | | | |
| subjects affected / exposed | 1 / 333 (0.30%) | 1 / 330 (0.30%) | 0 / 33 (0.00%) |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 1 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Pleural effusion | | | |
| subjects affected / exposed | 0 / 333 (0.00%) | 1 / 330 (0.30%) | 0 / 33 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Pneumonia aspiration | | | |
| subjects affected / exposed | 0 / 333 (0.00%) | 1 / 330 (0.30%) | 0 / 33 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Pneumothorax | | | |
| subjects affected / exposed | 1 / 333 (0.30%) | 0 / 330 (0.00%) | 0 / 33 (0.00%) |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Pulmonary embolism | | | |
| subjects affected / exposed | 0 / 333 (0.00%) | 1 / 330 (0.30%) | 0 / 33 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Respiratory failure | | | |
| subjects affected / exposed | 0 / 333 (0.00%) | 1 / 330 (0.30%) | 0 / 33 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |

| | | | |
|---|-----------------|-----------------|----------------|
| Psychiatric disorders | | | |
| Alcoholism | | | |
| subjects affected / exposed | 0 / 333 (0.00%) | 1 / 330 (0.30%) | 0 / 33 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Delirium | | | |
| subjects affected / exposed | 0 / 333 (0.00%) | 0 / 330 (0.00%) | 1 / 33 (3.03%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 1 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Depressed mood | | | |
| subjects affected / exposed | 0 / 333 (0.00%) | 0 / 330 (0.00%) | 1 / 33 (3.03%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 1 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Depression | | | |
| subjects affected / exposed | 0 / 333 (0.00%) | 1 / 330 (0.30%) | 0 / 33 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Suicide attempt | | | |
| subjects affected / exposed | 0 / 333 (0.00%) | 1 / 330 (0.30%) | 0 / 33 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Investigations | | | |
| Lipase increased | | | |
| subjects affected / exposed | 1 / 333 (0.30%) | 0 / 330 (0.00%) | 0 / 33 (0.00%) |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 1 | 0 / 0 | 0 / 0 |
| Injury, poisoning and procedural complications | | | |
| Alcohol poisoning | | | |
| subjects affected / exposed | 0 / 333 (0.00%) | 1 / 330 (0.30%) | 0 / 33 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Anastomotic stenosis | | | |

| | | | |
|---|-----------------|-----------------|----------------|
| subjects affected / exposed | 0 / 333 (0.00%) | 1 / 330 (0.30%) | 0 / 33 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Ankle fracture | | | |
| subjects affected / exposed | 0 / 333 (0.00%) | 2 / 330 (0.61%) | 0 / 33 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 2 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Limb injury | | | |
| subjects affected / exposed | 1 / 333 (0.30%) | 0 / 330 (0.00%) | 0 / 33 (0.00%) |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Overdose | | | |
| subjects affected / exposed | 1 / 333 (0.30%) | 1 / 330 (0.30%) | 0 / 33 (0.00%) |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 1 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Cardiac disorders | | | |
| Myocardial infarction | | | |
| subjects affected / exposed | 0 / 333 (0.00%) | 0 / 330 (0.00%) | 0 / 33 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Ventricular extrasystoles | | | |
| subjects affected / exposed | 0 / 333 (0.00%) | 1 / 330 (0.30%) | 0 / 33 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Nervous system disorders | | | |
| Carotid artery stenosis | | | |
| subjects affected / exposed | 1 / 333 (0.30%) | 0 / 330 (0.00%) | 0 / 33 (0.00%) |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Dizziness exertional | | | |
| subjects affected / exposed | 1 / 333 (0.30%) | 0 / 330 (0.00%) | 0 / 33 (0.00%) |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Encephalopathy | | | |

| | | | |
|---|-----------------|-----------------|----------------|
| subjects affected / exposed | 0 / 333 (0.00%) | 2 / 330 (0.61%) | 0 / 33 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 2 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Headache | | | |
| subjects affected / exposed | 1 / 333 (0.30%) | 2 / 330 (0.61%) | 0 / 33 (0.00%) |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 2 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Loss of consciousness | | | |
| subjects affected / exposed | 1 / 333 (0.30%) | 0 / 330 (0.00%) | 0 / 33 (0.00%) |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Syncope | | | |
| subjects affected / exposed | 1 / 333 (0.30%) | 0 / 330 (0.00%) | 0 / 33 (0.00%) |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Gastrointestinal disorders | | | |
| Abdominal pain | | | |
| subjects affected / exposed | 0 / 333 (0.00%) | 1 / 330 (0.30%) | 0 / 33 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Abdominal pain upper | | | |
| subjects affected / exposed | 1 / 333 (0.30%) | 0 / 330 (0.00%) | 0 / 33 (0.00%) |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Chronic gastritis | | | |
| subjects affected / exposed | 1 / 333 (0.30%) | 0 / 330 (0.00%) | 0 / 33 (0.00%) |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Colitis | | | |
| subjects affected / exposed | 0 / 333 (0.00%) | 1 / 330 (0.30%) | 0 / 33 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Constipation | | | |

| | | | |
|---|-----------------|-----------------|----------------|
| subjects affected / exposed | 1 / 333 (0.30%) | 0 / 330 (0.00%) | 0 / 33 (0.00%) |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Diarrhoea | | | |
| subjects affected / exposed | 1 / 333 (0.30%) | 0 / 330 (0.00%) | 0 / 33 (0.00%) |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Haematemesis | | | |
| subjects affected / exposed | 1 / 333 (0.30%) | 0 / 330 (0.00%) | 0 / 33 (0.00%) |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Haemorrhoids | | | |
| subjects affected / exposed | 0 / 333 (0.00%) | 1 / 330 (0.30%) | 0 / 33 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Intestinal stenosis | | | |
| subjects affected / exposed | 0 / 333 (0.00%) | 1 / 330 (0.30%) | 0 / 33 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Intestinal ulcer | | | |
| subjects affected / exposed | 0 / 333 (0.00%) | 1 / 330 (0.30%) | 0 / 33 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Obstructive pancreatitis | | | |
| subjects affected / exposed | 0 / 333 (0.00%) | 1 / 330 (0.30%) | 0 / 33 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Oesophageal stenosis | | | |
| subjects affected / exposed | 1 / 333 (0.30%) | 0 / 330 (0.00%) | 0 / 33 (0.00%) |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Pancreatitis | | | |

| | | | |
|---|-----------------|-----------------|----------------|
| subjects affected / exposed | 0 / 333 (0.00%) | 1 / 330 (0.30%) | 0 / 33 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Pancreatitis acute | | | |
| subjects affected / exposed | 1 / 333 (0.30%) | 0 / 330 (0.00%) | 0 / 33 (0.00%) |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Hepatobiliary disorders | | | |
| Cholecystitis | | | |
| subjects affected / exposed | 1 / 333 (0.30%) | 2 / 330 (0.61%) | 0 / 33 (0.00%) |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 2 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Cholelithiasis | | | |
| subjects affected / exposed | 1 / 333 (0.30%) | 1 / 330 (0.30%) | 0 / 33 (0.00%) |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 1 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Cholelithiasis obstructive | | | |
| subjects affected / exposed | 1 / 333 (0.30%) | 0 / 330 (0.00%) | 0 / 33 (0.00%) |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Skin and subcutaneous tissue disorders | | | |
| Hyperhidrosis | | | |
| subjects affected / exposed | 1 / 333 (0.30%) | 0 / 330 (0.00%) | 0 / 33 (0.00%) |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Renal and urinary disorders | | | |
| Nephrolithiasis | | | |
| subjects affected / exposed | 0 / 333 (0.00%) | 1 / 330 (0.30%) | 0 / 33 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 1 / 1 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Renal colic | | | |
| subjects affected / exposed | 0 / 333 (0.00%) | 1 / 330 (0.30%) | 0 / 33 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |

| | | | |
|---|-----------------|-----------------|----------------|
| Musculoskeletal and connective tissue disorders | | | |
| Arthralgia | | | |
| subjects affected / exposed | 0 / 333 (0.00%) | 0 / 330 (0.00%) | 0 / 33 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Arthritis | | | |
| subjects affected / exposed | 0 / 333 (0.00%) | 0 / 330 (0.00%) | 0 / 33 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Back pain | | | |
| subjects affected / exposed | 1 / 333 (0.30%) | 0 / 330 (0.00%) | 0 / 33 (0.00%) |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Intervertebral disc protrusion | | | |
| subjects affected / exposed | 3 / 333 (0.90%) | 1 / 330 (0.30%) | 0 / 33 (0.00%) |
| occurrences causally related to treatment / all | 0 / 3 | 0 / 1 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Neck pain | | | |
| subjects affected / exposed | 1 / 333 (0.30%) | 0 / 330 (0.00%) | 0 / 33 (0.00%) |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Osteoarthritis | | | |
| subjects affected / exposed | 1 / 333 (0.30%) | 0 / 330 (0.00%) | 0 / 33 (0.00%) |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Rhabdomyolysis | | | |
| subjects affected / exposed | 2 / 333 (0.60%) | 0 / 330 (0.00%) | 0 / 33 (0.00%) |
| occurrences causally related to treatment / all | 0 / 2 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Infections and infestations | | | |
| Acute hepatitis C | | | |
| subjects affected / exposed | 1 / 333 (0.30%) | 0 / 330 (0.00%) | 0 / 33 (0.00%) |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |

| | | | |
|---|-----------------|-----------------|----------------|
| Arthritis bacterial | | | |
| subjects affected / exposed | 0 / 333 (0.00%) | 1 / 330 (0.30%) | 0 / 33 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Bone tuberculosis | | | |
| subjects affected / exposed | 0 / 333 (0.00%) | 1 / 330 (0.30%) | 0 / 33 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Diverticulitis | | | |
| subjects affected / exposed | 0 / 333 (0.00%) | 1 / 330 (0.30%) | 0 / 33 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Enteritis infectious | | | |
| subjects affected / exposed | 0 / 333 (0.00%) | 0 / 330 (0.00%) | 0 / 33 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Escherichia urinary tract infection | | | |
| subjects affected / exposed | 0 / 333 (0.00%) | 1 / 330 (0.30%) | 0 / 33 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Gastrointestinal infection | | | |
| subjects affected / exposed | 1 / 333 (0.30%) | 0 / 330 (0.00%) | 0 / 33 (0.00%) |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Herpes zoster | | | |
| subjects affected / exposed | 1 / 333 (0.30%) | 0 / 330 (0.00%) | 0 / 33 (0.00%) |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Influenza | | | |
| subjects affected / exposed | 0 / 333 (0.00%) | 0 / 330 (0.00%) | 1 / 33 (3.03%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 1 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Laryngitis | | | |

| | | | |
|---|-----------------|-----------------|----------------|
| subjects affected / exposed | 0 / 333 (0.00%) | 0 / 330 (0.00%) | 1 / 33 (3.03%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 1 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Localised infection | | | |
| subjects affected / exposed | 1 / 333 (0.30%) | 0 / 330 (0.00%) | 0 / 33 (0.00%) |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Lung infection | | | |
| subjects affected / exposed | 0 / 333 (0.00%) | 0 / 330 (0.00%) | 1 / 33 (3.03%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 1 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Mycobacterium abscessus infection | | | |
| subjects affected / exposed | 1 / 333 (0.30%) | 0 / 330 (0.00%) | 0 / 33 (0.00%) |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Oesophagitis bacterial | | | |
| subjects affected / exposed | 0 / 333 (0.00%) | 1 / 330 (0.30%) | 0 / 33 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Pneumonia | | | |
| subjects affected / exposed | 0 / 333 (0.00%) | 3 / 330 (0.91%) | 0 / 33 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 3 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Prostatitis Escherichia coli | | | |
| subjects affected / exposed | 0 / 333 (0.00%) | 0 / 330 (0.00%) | 1 / 33 (3.03%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 1 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Pyelonephritis | | | |
| subjects affected / exposed | 0 / 333 (0.00%) | 1 / 330 (0.30%) | 0 / 33 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Subcutaneous abscess | | | |

| | | | |
|---|-----------------|-----------------|----------------|
| subjects affected / exposed | 0 / 333 (0.00%) | 1 / 330 (0.30%) | 0 / 33 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Metabolism and nutrition disorders | | | |
| Dehydration | | | |
| subjects affected / exposed | 1 / 333 (0.30%) | 0 / 330 (0.00%) | 0 / 33 (0.00%) |
| occurrences causally related to treatment / all | 0 / 3 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Fluid overload | | | |
| subjects affected / exposed | 0 / 333 (0.00%) | 1 / 330 (0.30%) | 0 / 33 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |

| Serious adverse events | Open-Label F/TAF From FTC/TDF | | |
|--|----------------------------------|--|--|
| Total subjects affected by serious adverse events | | | |
| subjects affected / exposed | 3 / 31 (9.68%) | | |
| number of deaths (all causes) | 0 | | |
| number of deaths resulting from adverse events | | | |
| Neoplasms benign, malignant and unspecified (incl cysts and polyps) | | | |
| Lung adenocarcinoma | | | |
| subjects affected / exposed | 0 / 31 (0.00%) | | |
| occurrences causally related to treatment / all | 0 / 0 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Lymphoma | | | |
| subjects affected / exposed | 0 / 31 (0.00%) | | |
| occurrences causally related to treatment / all | 0 / 0 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Metastases to lung | | | |
| subjects affected / exposed | 0 / 31 (0.00%) | | |
| occurrences causally related to treatment / all | 0 / 0 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Metastases to lymph nodes | | | |

| | | | |
|--|----------------|--|--|
| subjects affected / exposed | 0 / 31 (0.00%) | | |
| occurrences causally related to treatment / all | 0 / 0 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Tonsil cancer | | | |
| subjects affected / exposed | 0 / 31 (0.00%) | | |
| occurrences causally related to treatment / all | 0 / 0 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Vascular disorders | | | |
| Aortic aneurysm | | | |
| subjects affected / exposed | 0 / 31 (0.00%) | | |
| occurrences causally related to treatment / all | 0 / 0 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Venous thrombosis limb | | | |
| subjects affected / exposed | 0 / 31 (0.00%) | | |
| occurrences causally related to treatment / all | 0 / 0 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| General disorders and administration site conditions | | | |
| Chest pain | | | |
| subjects affected / exposed | 0 / 31 (0.00%) | | |
| occurrences causally related to treatment / all | 0 / 0 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Drowning | | | |
| subjects affected / exposed | 0 / 31 (0.00%) | | |
| occurrences causally related to treatment / all | 0 / 0 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Mucosal inflammation | | | |
| subjects affected / exposed | 0 / 31 (0.00%) | | |
| occurrences causally related to treatment / all | 0 / 0 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Respiratory, thoracic and mediastinal disorders | | | |
| Acute respiratory failure | | | |

| | | | |
|---|----------------|--|--|
| subjects affected / exposed | 0 / 31 (0.00%) | | |
| occurrences causally related to treatment / all | 0 / 0 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Dyspnoea | | | |
| subjects affected / exposed | 0 / 31 (0.00%) | | |
| occurrences causally related to treatment / all | 0 / 0 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Pleural effusion | | | |
| subjects affected / exposed | 0 / 31 (0.00%) | | |
| occurrences causally related to treatment / all | 0 / 0 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Pneumonia aspiration | | | |
| subjects affected / exposed | 0 / 31 (0.00%) | | |
| occurrences causally related to treatment / all | 0 / 0 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Pneumothorax | | | |
| subjects affected / exposed | 0 / 31 (0.00%) | | |
| occurrences causally related to treatment / all | 0 / 0 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Pulmonary embolism | | | |
| subjects affected / exposed | 0 / 31 (0.00%) | | |
| occurrences causally related to treatment / all | 0 / 0 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Respiratory failure | | | |
| subjects affected / exposed | 0 / 31 (0.00%) | | |
| occurrences causally related to treatment / all | 0 / 0 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Psychiatric disorders | | | |
| Alcoholism | | | |
| subjects affected / exposed | 0 / 31 (0.00%) | | |
| occurrences causally related to treatment / all | 0 / 0 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Delirium | | | |

| | | | |
|---|----------------|--|--|
| subjects affected / exposed | 0 / 31 (0.00%) | | |
| occurrences causally related to treatment / all | 0 / 0 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Depressed mood | | | |
| subjects affected / exposed | 0 / 31 (0.00%) | | |
| occurrences causally related to treatment / all | 0 / 0 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Depression | | | |
| subjects affected / exposed | 0 / 31 (0.00%) | | |
| occurrences causally related to treatment / all | 0 / 0 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Suicide attempt | | | |
| subjects affected / exposed | 0 / 31 (0.00%) | | |
| occurrences causally related to treatment / all | 0 / 0 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Investigations | | | |
| Lipase increased | | | |
| subjects affected / exposed | 0 / 31 (0.00%) | | |
| occurrences causally related to treatment / all | 0 / 0 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Injury, poisoning and procedural complications | | | |
| Alcohol poisoning | | | |
| subjects affected / exposed | 0 / 31 (0.00%) | | |
| occurrences causally related to treatment / all | 0 / 0 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Anastomotic stenosis | | | |
| subjects affected / exposed | 0 / 31 (0.00%) | | |
| occurrences causally related to treatment / all | 0 / 0 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Ankle fracture | | | |
| subjects affected / exposed | 0 / 31 (0.00%) | | |
| occurrences causally related to treatment / all | 0 / 0 | | |
| deaths causally related to treatment / all | 0 / 0 | | |

| | | | |
|---|----------------|--|--|
| Limb injury | | | |
| subjects affected / exposed | 0 / 31 (0.00%) | | |
| occurrences causally related to treatment / all | 0 / 0 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Overdose | | | |
| subjects affected / exposed | 0 / 31 (0.00%) | | |
| occurrences causally related to treatment / all | 0 / 0 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Cardiac disorders | | | |
| Myocardial infarction | | | |
| subjects affected / exposed | 1 / 31 (3.23%) | | |
| occurrences causally related to treatment / all | 0 / 1 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Ventricular extrasystoles | | | |
| subjects affected / exposed | 0 / 31 (0.00%) | | |
| occurrences causally related to treatment / all | 0 / 0 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Nervous system disorders | | | |
| Carotid artery stenosis | | | |
| subjects affected / exposed | 0 / 31 (0.00%) | | |
| occurrences causally related to treatment / all | 0 / 0 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Dizziness exertional | | | |
| subjects affected / exposed | 0 / 31 (0.00%) | | |
| occurrences causally related to treatment / all | 0 / 0 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Encephalopathy | | | |
| subjects affected / exposed | 0 / 31 (0.00%) | | |
| occurrences causally related to treatment / all | 0 / 0 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Headache | | | |
| subjects affected / exposed | 0 / 31 (0.00%) | | |
| occurrences causally related to treatment / all | 0 / 0 | | |
| deaths causally related to treatment / all | 0 / 0 | | |

| | | | |
|---|----------------|--|--|
| Loss of consciousness | | | |
| subjects affected / exposed | 0 / 31 (0.00%) | | |
| occurrences causally related to treatment / all | 0 / 0 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Syncope | | | |
| subjects affected / exposed | 0 / 31 (0.00%) | | |
| occurrences causally related to treatment / all | 0 / 0 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Gastrointestinal disorders | | | |
| Abdominal pain | | | |
| subjects affected / exposed | 0 / 31 (0.00%) | | |
| occurrences causally related to treatment / all | 0 / 0 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Abdominal pain upper | | | |
| subjects affected / exposed | 0 / 31 (0.00%) | | |
| occurrences causally related to treatment / all | 0 / 0 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Chronic gastritis | | | |
| subjects affected / exposed | 0 / 31 (0.00%) | | |
| occurrences causally related to treatment / all | 0 / 0 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Colitis | | | |
| subjects affected / exposed | 0 / 31 (0.00%) | | |
| occurrences causally related to treatment / all | 0 / 0 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Constipation | | | |
| subjects affected / exposed | 0 / 31 (0.00%) | | |
| occurrences causally related to treatment / all | 0 / 0 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Diarrhoea | | | |
| subjects affected / exposed | 0 / 31 (0.00%) | | |
| occurrences causally related to treatment / all | 0 / 0 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Haematemesis | | | |

| | | | |
|---|----------------|--|--|
| subjects affected / exposed | 0 / 31 (0.00%) | | |
| occurrences causally related to treatment / all | 0 / 0 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Haemorrhoids | | | |
| subjects affected / exposed | 0 / 31 (0.00%) | | |
| occurrences causally related to treatment / all | 0 / 0 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Intestinal stenosis | | | |
| subjects affected / exposed | 0 / 31 (0.00%) | | |
| occurrences causally related to treatment / all | 0 / 0 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Intestinal ulcer | | | |
| subjects affected / exposed | 0 / 31 (0.00%) | | |
| occurrences causally related to treatment / all | 0 / 0 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Obstructive pancreatitis | | | |
| subjects affected / exposed | 0 / 31 (0.00%) | | |
| occurrences causally related to treatment / all | 0 / 0 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Oesophageal stenosis | | | |
| subjects affected / exposed | 0 / 31 (0.00%) | | |
| occurrences causally related to treatment / all | 0 / 0 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Pancreatitis | | | |
| subjects affected / exposed | 0 / 31 (0.00%) | | |
| occurrences causally related to treatment / all | 0 / 0 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Pancreatitis acute | | | |
| subjects affected / exposed | 0 / 31 (0.00%) | | |
| occurrences causally related to treatment / all | 0 / 0 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Hepatobiliary disorders | | | |
| Cholecystitis | | | |

| | | | |
|---|----------------|--|--|
| subjects affected / exposed | 0 / 31 (0.00%) | | |
| occurrences causally related to treatment / all | 0 / 0 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Cholelithiasis | | | |
| subjects affected / exposed | 0 / 31 (0.00%) | | |
| occurrences causally related to treatment / all | 0 / 0 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Cholelithiasis obstructive | | | |
| subjects affected / exposed | 0 / 31 (0.00%) | | |
| occurrences causally related to treatment / all | 0 / 0 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Skin and subcutaneous tissue disorders | | | |
| Hyperhidrosis | | | |
| subjects affected / exposed | 0 / 31 (0.00%) | | |
| occurrences causally related to treatment / all | 0 / 0 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Renal and urinary disorders | | | |
| Nephrolithiasis | | | |
| subjects affected / exposed | 0 / 31 (0.00%) | | |
| occurrences causally related to treatment / all | 0 / 0 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Renal colic | | | |
| subjects affected / exposed | 0 / 31 (0.00%) | | |
| occurrences causally related to treatment / all | 0 / 0 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Musculoskeletal and connective tissue disorders | | | |
| Arthralgia | | | |
| subjects affected / exposed | 1 / 31 (3.23%) | | |
| occurrences causally related to treatment / all | 0 / 1 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Arthritis | | | |
| subjects affected / exposed | 1 / 31 (3.23%) | | |
| occurrences causally related to treatment / all | 0 / 2 | | |
| deaths causally related to treatment / all | 0 / 0 | | |

| | | | | |
|---|----------------|--|--|--|
| Back pain | | | | |
| subjects affected / exposed | 0 / 31 (0.00%) | | | |
| occurrences causally related to treatment / all | 0 / 0 | | | |
| deaths causally related to treatment / all | 0 / 0 | | | |
| Intervertebral disc protrusion | | | | |
| subjects affected / exposed | 0 / 31 (0.00%) | | | |
| occurrences causally related to treatment / all | 0 / 0 | | | |
| deaths causally related to treatment / all | 0 / 0 | | | |
| Neck pain | | | | |
| subjects affected / exposed | 0 / 31 (0.00%) | | | |
| occurrences causally related to treatment / all | 0 / 0 | | | |
| deaths causally related to treatment / all | 0 / 0 | | | |
| Osteoarthritis | | | | |
| subjects affected / exposed | 0 / 31 (0.00%) | | | |
| occurrences causally related to treatment / all | 0 / 0 | | | |
| deaths causally related to treatment / all | 0 / 0 | | | |
| Rhabdomyolysis | | | | |
| subjects affected / exposed | 0 / 31 (0.00%) | | | |
| occurrences causally related to treatment / all | 0 / 0 | | | |
| deaths causally related to treatment / all | 0 / 0 | | | |
| Infections and infestations | | | | |
| Acute hepatitis C | | | | |
| subjects affected / exposed | 0 / 31 (0.00%) | | | |
| occurrences causally related to treatment / all | 0 / 0 | | | |
| deaths causally related to treatment / all | 0 / 0 | | | |
| Arthritis bacterial | | | | |
| subjects affected / exposed | 0 / 31 (0.00%) | | | |
| occurrences causally related to treatment / all | 0 / 0 | | | |
| deaths causally related to treatment / all | 0 / 0 | | | |
| Bone tuberculosis | | | | |
| subjects affected / exposed | 0 / 31 (0.00%) | | | |
| occurrences causally related to treatment / all | 0 / 0 | | | |
| deaths causally related to treatment / all | 0 / 0 | | | |
| Diverticulitis | | | | |

| | | | | |
|---|----------------|--|--|--|
| subjects affected / exposed | 0 / 31 (0.00%) | | | |
| occurrences causally related to treatment / all | 0 / 0 | | | |
| deaths causally related to treatment / all | 0 / 0 | | | |
| Enteritis infectious | | | | |
| subjects affected / exposed | 1 / 31 (3.23%) | | | |
| occurrences causally related to treatment / all | 0 / 1 | | | |
| deaths causally related to treatment / all | 0 / 0 | | | |
| Escherichia urinary tract infection | | | | |
| subjects affected / exposed | 0 / 31 (0.00%) | | | |
| occurrences causally related to treatment / all | 0 / 0 | | | |
| deaths causally related to treatment / all | 0 / 0 | | | |
| Gastrointestinal infection | | | | |
| subjects affected / exposed | 0 / 31 (0.00%) | | | |
| occurrences causally related to treatment / all | 0 / 0 | | | |
| deaths causally related to treatment / all | 0 / 0 | | | |
| Herpes zoster | | | | |
| subjects affected / exposed | 0 / 31 (0.00%) | | | |
| occurrences causally related to treatment / all | 0 / 0 | | | |
| deaths causally related to treatment / all | 0 / 0 | | | |
| Influenza | | | | |
| subjects affected / exposed | 0 / 31 (0.00%) | | | |
| occurrences causally related to treatment / all | 0 / 0 | | | |
| deaths causally related to treatment / all | 0 / 0 | | | |
| Laryngitis | | | | |
| subjects affected / exposed | 0 / 31 (0.00%) | | | |
| occurrences causally related to treatment / all | 0 / 0 | | | |
| deaths causally related to treatment / all | 0 / 0 | | | |
| Localised infection | | | | |
| subjects affected / exposed | 0 / 31 (0.00%) | | | |
| occurrences causally related to treatment / all | 0 / 0 | | | |
| deaths causally related to treatment / all | 0 / 0 | | | |
| Lung infection | | | | |

| | | | |
|---|----------------|--|--|
| subjects affected / exposed | 0 / 31 (0.00%) | | |
| occurrences causally related to treatment / all | 0 / 0 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Mycobacterium abscessus infection | | | |
| subjects affected / exposed | 0 / 31 (0.00%) | | |
| occurrences causally related to treatment / all | 0 / 0 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Oesophagitis bacterial | | | |
| subjects affected / exposed | 0 / 31 (0.00%) | | |
| occurrences causally related to treatment / all | 0 / 0 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Pneumonia | | | |
| subjects affected / exposed | 0 / 31 (0.00%) | | |
| occurrences causally related to treatment / all | 0 / 0 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Prostatitis Escherichia coli | | | |
| subjects affected / exposed | 0 / 31 (0.00%) | | |
| occurrences causally related to treatment / all | 0 / 0 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Pyelonephritis | | | |
| subjects affected / exposed | 0 / 31 (0.00%) | | |
| occurrences causally related to treatment / all | 0 / 0 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Subcutaneous abscess | | | |
| subjects affected / exposed | 0 / 31 (0.00%) | | |
| occurrences causally related to treatment / all | 0 / 0 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Metabolism and nutrition disorders | | | |
| Dehydration | | | |
| subjects affected / exposed | 0 / 31 (0.00%) | | |
| occurrences causally related to treatment / all | 0 / 0 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Fluid overload | | | |

| | | | |
|---|----------------|--|--|
| subjects affected / exposed | 0 / 31 (0.00%) | | |
| occurrences causally related to treatment / all | 0 / 0 | | |
| deaths causally related to treatment / all | 0 / 0 | | |

Frequency threshold for reporting non-serious adverse events: 5 %

| Non-serious adverse events | F/TAF + 3rd Agent (Double-Blind) | FTC/TDF + 3rd Agent (Double-Blind) | Open-Label F/TAF From F/TAF |
|---|-------------------------------------|---------------------------------------|--------------------------------|
| Total subjects affected by non-serious adverse events | | | |
| subjects affected / exposed | 242 / 333 (72.67%) | 226 / 330 (68.48%) | 12 / 33 (36.36%) |
| Vascular disorders | | | |
| Hypertension | | | |
| subjects affected / exposed | 16 / 333 (4.80%) | 20 / 330 (6.06%) | 0 / 33 (0.00%) |
| occurrences (all) | 16 | 20 | 0 |
| Nervous system disorders | | | |
| Headache | | | |
| subjects affected / exposed | 33 / 333 (9.91%) | 22 / 330 (6.67%) | 0 / 33 (0.00%) |
| occurrences (all) | 35 | 25 | 0 |
| General disorders and administration site conditions | | | |
| Fatigue | | | |
| subjects affected / exposed | 26 / 333 (7.81%) | 23 / 330 (6.97%) | 0 / 33 (0.00%) |
| occurrences (all) | 26 | 24 | 0 |
| Influenza like illness | | | |
| subjects affected / exposed | 6 / 333 (1.80%) | 10 / 330 (3.03%) | 0 / 33 (0.00%) |
| occurrences (all) | 6 | 10 | 0 |
| Pyrexia | | | |
| subjects affected / exposed | 6 / 333 (1.80%) | 17 / 330 (5.15%) | 0 / 33 (0.00%) |
| occurrences (all) | 7 | 21 | 0 |
| Gastrointestinal disorders | | | |
| Diarrhoea | | | |
| subjects affected / exposed | 44 / 333 (13.21%) | 42 / 330 (12.73%) | 1 / 33 (3.03%) |
| occurrences (all) | 50 | 51 | 1 |
| Nausea | | | |
| subjects affected / exposed | 23 / 333 (6.91%) | 19 / 330 (5.76%) | 0 / 33 (0.00%) |
| occurrences (all) | 24 | 19 | 0 |
| Respiratory, thoracic and mediastinal disorders | | | |

| | | | |
|--|--|--|---|
| Cough subjects affected / exposed occurrences (all) | 37 / 333 (11.11%) 42 | 20 / 330 (6.06%) 21 | 2 / 33 (6.06%) 2 |
| Skin and subcutaneous tissue disorders Rash subjects affected / exposed occurrences (all) | 19 / 333 (5.71%) 19 | 11 / 330 (3.33%) 11 | 1 / 33 (3.03%) 1 |
| Psychiatric disorders Anxiety subjects affected / exposed occurrences (all) Insomnia subjects affected / exposed occurrences (all) | 15 / 333 (4.50%) 15 15 / 333 (4.50%) 15 | 20 / 330 (6.06%) 20 13 / 330 (3.94%) 13 | 2 / 33 (6.06%) 2 0 / 33 (0.00%) 0 |
| Musculoskeletal and connective tissue disorders Arthralgia subjects affected / exposed occurrences (all) Back pain subjects affected / exposed occurrences (all) Pain in extremity subjects affected / exposed occurrences (all) | 35 / 333 (10.51%) 37 37 / 333 (11.11%) 42 26 / 333 (7.81%) 27 | 23 / 330 (6.97%) 25 28 / 330 (8.48%) 28 22 / 330 (6.67%) 23 | 0 / 33 (0.00%) 0 3 / 33 (9.09%) 3 0 / 33 (0.00%) 0 |
| Infections and infestations Bronchitis subjects affected / exposed occurrences (all) Fungal skin infection subjects affected / exposed occurrences (all) Gastroenteritis subjects affected / exposed occurrences (all) Influenza | 32 / 333 (9.61%) 37 1 / 333 (0.30%) 1 11 / 333 (3.30%) 11 | 26 / 330 (7.88%) 35 2 / 330 (0.61%) 2 8 / 330 (2.42%) 8 | 1 / 33 (3.03%) 1 0 / 33 (0.00%) 0 2 / 33 (6.06%) 2 |

| | | | |
|-----------------------------------|-------------------|-------------------|-----------------|
| subjects affected / exposed | 23 / 333 (6.91%) | 15 / 330 (4.55%) | 0 / 33 (0.00%) |
| occurrences (all) | 27 | 15 | 0 |
| Nasopharyngitis | | | |
| subjects affected / exposed | 43 / 333 (12.91%) | 27 / 330 (8.18%) | 4 / 33 (12.12%) |
| occurrences (all) | 59 | 32 | 5 |
| Onychomycosis | | | |
| subjects affected / exposed | 6 / 333 (1.80%) | 3 / 330 (0.91%) | 0 / 33 (0.00%) |
| occurrences (all) | 6 | 3 | 0 |
| Sinusitis | | | |
| subjects affected / exposed | 23 / 333 (6.91%) | 28 / 330 (8.48%) | 2 / 33 (6.06%) |
| occurrences (all) | 26 | 32 | 4 |
| Syphilis | | | |
| subjects affected / exposed | 18 / 333 (5.41%) | 7 / 330 (2.12%) | 3 / 33 (9.09%) |
| occurrences (all) | 20 | 8 | 3 |
| Upper respiratory tract infection | | | |
| subjects affected / exposed | 54 / 333 (16.22%) | 67 / 330 (20.30%) | 1 / 33 (3.03%) |
| occurrences (all) | 64 | 92 | 1 |

| Non-serious adverse events | Open-Label F/TAF From FTC/TDF | | |
|---|----------------------------------|--|--|
| Total subjects affected by non-serious adverse events | | | |
| subjects affected / exposed | 13 / 31 (41.94%) | | |
| Vascular disorders | | | |
| Hypertension | | | |
| subjects affected / exposed | 0 / 31 (0.00%) | | |
| occurrences (all) | 0 | | |
| Nervous system disorders | | | |
| Headache | | | |
| subjects affected / exposed | 1 / 31 (3.23%) | | |
| occurrences (all) | 1 | | |
| General disorders and administration site conditions | | | |
| Fatigue | | | |
| subjects affected / exposed | 0 / 31 (0.00%) | | |
| occurrences (all) | 0 | | |
| Influenza like illness | | | |
| subjects affected / exposed | 2 / 31 (6.45%) | | |
| occurrences (all) | 2 | | |

| | | | |
|---|---|--|--|
| Pyrexia subjects affected / exposed occurrences (all) | 0 / 31 (0.00%) 0 | | |
| Gastrointestinal disorders Diarrhoea subjects affected / exposed occurrences (all) Nausea subjects affected / exposed occurrences (all) | 0 / 31 (0.00%) 0 0 / 31 (0.00%) 0 | | |
| Respiratory, thoracic and mediastinal disorders Cough subjects affected / exposed occurrences (all) | 2 / 31 (6.45%) 2 | | |
| Skin and subcutaneous tissue disorders Rash subjects affected / exposed occurrences (all) | 0 / 31 (0.00%) 0 | | |
| Psychiatric disorders Anxiety subjects affected / exposed occurrences (all) Insomnia subjects affected / exposed occurrences (all) | 1 / 31 (3.23%) 1 2 / 31 (6.45%) 2 | | |
| Musculoskeletal and connective tissue disorders Arthralgia subjects affected / exposed occurrences (all) Back pain subjects affected / exposed occurrences (all) Pain in extremity subjects affected / exposed occurrences (all) | 2 / 31 (6.45%) 2 2 / 31 (6.45%) 2 0 / 31 (0.00%) 0 | | |
| Infections and infestations | | | |

| | | | |
|-----------------------------------|----------------|--|--|
| Bronchitis | | | |
| subjects affected / exposed | 1 / 31 (3.23%) | | |
| occurrences (all) | 1 | | |
| Fungal skin infection | | | |
| subjects affected / exposed | 2 / 31 (6.45%) | | |
| occurrences (all) | 2 | | |
| Gastroenteritis | | | |
| subjects affected / exposed | 0 / 31 (0.00%) | | |
| occurrences (all) | 0 | | |
| Influenza | | | |
| subjects affected / exposed | 2 / 31 (6.45%) | | |
| occurrences (all) | 2 | | |
| Nasopharyngitis | | | |
| subjects affected / exposed | 2 / 31 (6.45%) | | |
| occurrences (all) | 3 | | |
| Onychomycosis | | | |
| subjects affected / exposed | 3 / 31 (9.68%) | | |
| occurrences (all) | 3 | | |
| Sinusitis | | | |
| subjects affected / exposed | 3 / 31 (9.68%) | | |
| occurrences (all) | 3 | | |
| Syphilis | | | |
| subjects affected / exposed | 2 / 31 (6.45%) | | |
| occurrences (all) | 2 | | |
| Upper respiratory tract infection | | | |
| subjects affected / exposed | 0 / 31 (0.00%) | | |
| occurrences (all) | 0 | | |

More information

Substantial protocol amendments (globally)

Were there any global substantial amendments to the protocol? Yes

| Date | Amendment |
|------------------|--|
| 18 February 2014 | Amendment 1: Changed from open-label to double-blind; Changed the non-inferiority margin from 12% to 10%; Updated the statistical analysis method with stratified analysis of bone mineral density (BMD) by use of ritonavir; Added requirement for blood sample collection from both treatment groups for pharmacokinetic (PK) assessment; Added trough PK sample collection at Week 4 to determine tenofovir diphosphate (TFV-DP) concentration in peripheral blood mononuclear cells (PBMCs). |
| 28 April 2014 | Amendment 2: Changed TAF dose from 25 mg to 10 mg for subjects receiving DRV/r; Changed inclusion criteria so that plasma HIV-1 RNA levels should be < 50 copies/mL for ≥6 months preceding the screening visit as opposed to at least 6 months prior to the screening visit; Added new criteria to exclude subjects receiving ongoing treatment with bisphosphonate; Clarified that change in third agent was not permitted; Changed virologic failure management criteria so that virologic failure was defined as a subject having at least 2 consecutive plasma HIV-1 RNA levels ≥ 50 copies/mL compared to ≥ 400 copies/mL; Added criteria to describe the management of exacerbations of Hepatitis B virus (HBV) following discontinuation of study drugs. |

Notes:

Interruptions (globally)

Were there any global interruptions to the trial? No

Limitations and caveats

None reported

Online references

<http://www.ncbi.nlm.nih.gov/pubmed/27036991>