

**Clinical trial results:****A Randomized, Double-Blind Evaluation of the Antiviral Efficacy, Safety, and Tolerability of Tenofovir Disoproxil Fumarate Versus Placebo in Pediatric Patients With Chronic Hepatitis B Infection****Summary**

|                          |                      |
|--------------------------|----------------------|
| EudraCT number           | 2012-000586-20       |
| Trial protocol           | PL BG Outside EU/EEA |
| Global end of trial date |                      |

**Results information**

|                                |              |
|--------------------------------|--------------|
| Result version number          | v1 (current) |
| This version publication date  | 28 July 2021 |
| First version publication date | 28 July 2021 |

**Trial information****Trial identification**

|                       |                |
|-----------------------|----------------|
| Sponsor protocol code | GS-US-174-0144 |
|-----------------------|----------------|

**Additional study identifiers**

|                                    |             |
|------------------------------------|-------------|
| ISRCTN number                      | -           |
| ClinicalTrials.gov id (NCT number) | NCT01651403 |
| WHO universal trial number (UTN)   | -           |

Notes:

**Sponsors**

|                              |  |
|------------------------------|--|
| Sponsor organisation name    | Gilead Sciences  |
| Sponsor organisation address | 333 Lakeside Drive, Foster City, CA, 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)       | Yes                  |
| EMA paediatric investigation plan number(s)                          | EMEA-000533-PIP01-08 |
| 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? | Yes                  |

Notes:

## Results analysis stage

|  |                |
|--|----------------|
| Analysis stage                                       | Interim        |
| Date of interim/final analysis                       | 02 June 2020   |
| Is this the analysis of the primary completion data? | Yes            |
| Primary completion date                              | 07 August 2017 |
| Global end of trial reached?                         | No             |

Notes:

## General information about the trial

Main objective of the trial:

The primary objective of this study was to evaluate the antiviral efficacy of tenofovir disoproxil fumarate (tenofovir DF; TDF) versus placebo in pediatric population (aged 2 to < 12 years at the time of enrollment) with chronic hepatitis B (CHB) infection.

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 December 2012 |
| 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 | India: 13              |
| Country: Number of subjects enrolled | Taiwan: 2              |
| Country: Number of subjects enrolled | United States: 17      |
| Country: Number of subjects enrolled | Romania: 23            |
| Country: Number of subjects enrolled | Korea, Republic of: 34 |
| Country: Number of subjects enrolled | Bulgaria: 1            |
| Worldwide total number of subjects   | 90                     |
| EEA total number of subjects         | 24                     |

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) | 1  |
| Children (2-11 years)                    | 88 |
| Adolescents (12-17 years)                | 1  |
| Adults (18-64 years)                     | 0  |
| From 65 to 84 years                      | 0  |
| 85 years and over                        | 0  |

## Subject disposition

### Recruitment

Recruitment details:

Participants were enrolled at study sites in the United States, Asia, and Europe. The first participant was screened on 06 December 2012. The last Week 192 study visit occurred on 02 June 2020.

### Pre-assignment

Screening details:

176 participants were screened.

### Period 1

|                              |  |
|------------------------------|--|
| Period 1 title               | Double-Blind Period (Through Week 48/72) |
| Is this the baseline period? | Yes                                      |
| Allocation method            | Randomised - controlled                  |
| Blinding used                | Double blind                             |
| Roles blinded                | Subject, Investigator, Carer             |

### Arms

|                              |                               |
|------------------------------|-------------------------------|
| Are arms mutually exclusive? | Yes                           |
| <b>Arm title</b>             | Tenofovir Disoproxil Fumarate |

Arm description:

Blinded Randomized Phase: Tenofovir disoproxil fumarate (TDF) tablet or oral powder once daily (up to 300 mg depending on weight) for 72 weeks (protocol amendment 2) or 48 weeks (protocol amendment 3)

Open-Label Treatment Phase: After Week 72 (protocol amendment 2) or Week 48 (protocol amendment 3), participants switched to open-label TDF treatment for an additional 120 weeks (protocol amendment 2) or 144 weeks (protocol amendment 3).

Open-Label Extension Phase: After Week 192, participants are offered open-label TDF treatment until it was commercially available in that country for treatment of chronic HBV in individuals of their age and weight.

|  |                               |
|--|-------------------------------|
| Arm type                               | Experimental                  |
| Investigational medicinal product name | Tenofovir disoproxil fumarate |
| Investigational medicinal product code |                               |
| Other name                             | Viread®                       |
| Pharmaceutical forms                   | Tablet, Oral powder           |
| Routes of administration               | Oral use                      |

Dosage and administration details:

Administered once daily

|                  |         |
|------------------|---------|
| <b>Arm title</b> | Placebo |
|------------------|---------|

Arm description:

Blinded Randomized Phase: Placebo tablet or oral powder once daily for 72 weeks (protocol amendment 2) or 48 weeks (protocol amendment 3)

Open-Label Treatment Phase: After Week 72 (protocol amendment 2) or Week 48 (protocol amendment 3), participants switched to open-label TDF treatment for an additional 120 weeks (protocol amendment 2) or 144 weeks (protocol amendment 3).

Open-Label Extension Phase: After Week 192, participants are offered open-label TDF treatment until it was commercially available in that country for treatment of chronic HBV in individuals of their age and weight.

|          |         |
|----------|---------|
| Arm type | Placebo |
|----------|---------|

|  |                               |
|--|-------------------------------|
| Investigational medicinal product name | Tenofovir disoproxil fumarate |
| Investigational medicinal product code |                               |
| Other name                             | Viread®                       |
| Pharmaceutical forms                   | Oral powder, Tablet           |
| Routes of administration               | Oral use                      |

Dosage and administration details:

Administered once daily

|  |                     |
|--|---------------------|
| Investigational medicinal product name | Placebo             |
| Investigational medicinal product code |                     |
| Other name                             |                     |
| Pharmaceutical forms                   | Oral powder, Tablet |
| Routes of administration               | Oral use            |

Dosage and administration details:

Administered once daily

| <b>Number of subjects in period 1</b> <sup>[1]</sup> | Tenofovir Disoproxil Fumarate | Placebo |
|--|-------------------------------|---------|
| Started  | 60                            | 29      |
| Completed  | 56                            | 25      |
| Not completed  | 4                             | 4       |
| Withdrew Consent/Assent                              | 3                             | 3       |
| Participant Noncompliance                            | 1                             | 1       |

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: 1 participant who was randomized but not treated was not included in the Safety Analysis Set for Period table 1 reported above.

## Period 2

|                              |                                    |
|------------------------------|------------------------------------|
| Period 2 title               | Open-Label Phase (Weeks 49/73-192) |
| Is this the baseline period? | No                                 |
| Allocation method            | Not applicable                     |
| Blinding used                | Not blinded                        |

## Arms

|                              |                               |
|------------------------------|-------------------------------|
| Are arms mutually exclusive? | Yes                           |
| <b>Arm title</b>             | Tenofovir Disoproxil Fumarate |

Arm description:

Blinded Randomized Phase: Tenofovir disoproxil fumarate (TDF) tablet or oral powder once daily (up to 300 mg depending on weight) for 72 weeks (protocol amendment 2) or 48 weeks (protocol amendment 3)

Open-Label Treatment Phase: After Week 72 (protocol amendment 2) or Week 48 (protocol amendment 3), participants switched to open-label TDF treatment for an additional 120 weeks (protocol amendment 2) or 144 weeks (protocol amendment 3).

Open-Label Extension Phase: After Week 192, participants are offered open-label TDF treatment until it was commercially available in that country for treatment of chronic HBV in individuals of their age and weight.

|          |              |
|----------|--------------|
| Arm type | Experimental |
|----------|--------------|

|   |                               |
|---|-------------------------------|
| Investigational medicinal product name                        | Tenofovir disoproxil fumarate |
| Investigational medicinal product code                        |                               |
| Other name  | Viread®                       |
| Pharmaceutical forms  | Oral powder, Tablet           |
| Routes of administration                                      | Oral use                      |
| Dosage and administration details:<br>Administered once daily |                               |
| <b>Arm title</b>  | Placebo                       |

Arm description:

Blinded Randomized Phase: Placebo tablet or oral powder once daily for 72 weeks (protocol amendment 2) or 48 weeks (protocol amendment 3)

Open-Label Treatment Phase: After Week 72 (protocol amendment 2) or Week 48 (protocol amendment 3), participants switched to open-label TDF treatment for an additional 120 weeks (protocol amendment 2) or 144 weeks (protocol amendment 3).

Open-Label Extension Phase: After Week 192, participants are offered open-label TDF treatment until it was commercially available in that country for treatment of chronic HBV in individuals of their age and weight.

|  |                               |
|--|-------------------------------|
| Arm type                               | Placebo                       |
| Investigational medicinal product name | Tenofovir disoproxil fumarate |
| Investigational medicinal product code |                               |
| Other name                             | Viread®                       |
| Pharmaceutical forms                   | Tablet, Oral powder           |
| Routes of administration               | Oral use                      |

Dosage and administration details:

Administered once daily

|  |                     |
|--|---------------------|
| Investigational medicinal product name | Placebo             |
| Investigational medicinal product code |                     |
| Other name                             |                     |
| Pharmaceutical forms                   | Oral powder, Tablet |
| Routes of administration               | Oral use            |

Dosage and administration details:

Administered once daily

| <b>Number of subjects in period 2</b> | <b>Tenofovir Disoproxil Fumarate</b> | <b>Placebo</b> |
|---------------------------------------|--------------------------------------|----------------|
| Started                               | 56                                   | 25             |
| Completed                             | 35                                   | 11             |
| Not completed                         | 21                                   | 14             |
| Withdrew Consent/Assent               | 6                                    | 4              |
| Investigator decision                 | 2                                    | 1              |
| Continuing Study                      | 13                                   | 9              |

## Baseline characteristics

### Reporting groups

|                       |                               |
|-----------------------|-------------------------------|
| Reporting group title | Tenofovir Disoproxil Fumarate |
|-----------------------|-------------------------------|

Reporting group description:

Blinded Randomized Phase: Tenofovir disoproxil fumarate (TDF) tablet or oral powder once daily (up to 300 mg depending on weight) for 72 weeks (protocol amendment 2) or 48 weeks (protocol amendment 3)

Open-Label Treatment Phase: After Week 72 (protocol amendment 2) or Week 48 (protocol amendment 3), participants switched to open-label TDF treatment for an additional 120 weeks (protocol amendment 2) or 144 weeks (protocol amendment 3).

Open-Label Extension Phase: After Week 192, participants are offered open-label TDF treatment until it was commercially available in that country for treatment of chronic HBV in individuals of their age and weight.

|                       |         |
|-----------------------|---------|
| Reporting group title | Placebo |
|-----------------------|---------|

Reporting group description:

Blinded Randomized Phase: Placebo tablet or oral powder once daily for 72 weeks (protocol amendment 2) or 48 weeks (protocol amendment 3)

Open-Label Treatment Phase: After Week 72 (protocol amendment 2) or Week 48 (protocol amendment 3), participants switched to open-label TDF treatment for an additional 120 weeks (protocol amendment 2) or 144 weeks (protocol amendment 3).

Open-Label Extension Phase: After Week 192, participants are offered open-label TDF treatment until it was commercially available in that country for treatment of chronic HBV in individuals of their age and weight.

| Reporting group values             | Tenofovir Disoproxil Fumarate | Placebo | Total |
|------------------------------------|-------------------------------|---------|-------|
| Number of subjects                 | 60                            | 29      | 89    |
| Age categorical<br>Units: Subjects |                               |         |       |

|  |       |       |    |
|--|-------|-------|----|
| Age continuous<br>Units: years                               |       |       |    |
| arithmetic mean  | 6     | 7     |    |
| standard deviation   | ± 2.5 | ± 3.2 | -  |
| Gender categorical<br>Units: Subjects                        |       |       |    |
| Female   | 27    | 12    | 39 |
| Male   | 33    | 17    | 50 |
| Ethnicity<br>Units: Subjects                                 |       |       |    |
| Not Hispanic or Latino                                       | 60    | 29    | 89 |
| Race<br>Units: Subjects                                      |       |       |    |
| Asian  | 41    | 17    | 58 |
| Black or African American                                    | 4     | 1     | 5  |
| White  | 15    | 11    | 26 |
| Hepatitis B Virus Surface Antigen (HBsAg)<br>Units: Subjects |       |       |    |
| Positive   | 60    | 29    | 89 |

|  |          |          |    |
|--|----------|----------|----|
| Negative   | 0        | 0        | 0  |
| Hepatitis B e antigen (HBeAg)<br>Units: Subjects       |          |          |    |
| Positive   | 56       | 29       | 85 |
| Negative   | 4        | 0        | 4  |
| HBeAb<br>Units: Subjects                               |          |          |    |
| Positive   | 4        | 0        | 4  |
| Negative or Missing                                    | 56       | 29       | 85 |
| HBV DNA<br>Units: log <sub>10</sub> IU/mL              |          |          |    |
| arithmetic mean  | 8.089    | 8.133    |    |
| standard deviation                                     | ± 0.7208 | ± 1.2538 | -  |
| Spine Bone Mineral Density<br>Units: g/cm <sup>2</sup> |          |          |    |
| arithmetic mean  | 0.586    | 0.626    |    |
| standard deviation                                     | ± 0.1196 | ± 0.1567 | -  |

## End points

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### End points reporting groups

|                       |                               |
|-----------------------|-------------------------------|
| Reporting group title | Tenofovir Disoproxil Fumarate |
|-----------------------|-------------------------------|

Reporting group description:

Blinded Randomized Phase: Tenofovir disoproxil fumarate (TDF) tablet or oral powder once daily (up to 300 mg depending on weight) for 72 weeks (protocol amendment 2) or 48 weeks (protocol amendment 3)

Open-Label Treatment Phase: After Week 72 (protocol amendment 2) or Week 48 (protocol amendment 3), participants switched to open-label TDF treatment for an additional 120 weeks (protocol amendment 2) or 144 weeks (protocol amendment 3).

Open-Label Extension Phase: After Week 192, participants are offered open-label TDF treatment until it was commercially available in that country for treatment of chronic HBV in individuals of their age and weight.

|                       |         |
|-----------------------|---------|
| Reporting group title | Placebo |
|-----------------------|---------|

Reporting group description:

Blinded Randomized Phase: Placebo tablet or oral powder once daily for 72 weeks (protocol amendment 2) or 48 weeks (protocol amendment 3)

Open-Label Treatment Phase: After Week 72 (protocol amendment 2) or Week 48 (protocol amendment 3), participants switched to open-label TDF treatment for an additional 120 weeks (protocol amendment 2) or 144 weeks (protocol amendment 3).

Open-Label Extension Phase: After Week 192, participants are offered open-label TDF treatment until it was commercially available in that country for treatment of chronic HBV in individuals of their age and weight.

|                       |                               |
|-----------------------|-------------------------------|
| Reporting group title | Tenofovir Disoproxil Fumarate |
|-----------------------|-------------------------------|

Reporting group description:

Blinded Randomized Phase: Tenofovir disoproxil fumarate (TDF) tablet or oral powder once daily (up to 300 mg depending on weight) for 72 weeks (protocol amendment 2) or 48 weeks (protocol amendment 3)

Open-Label Treatment Phase: After Week 72 (protocol amendment 2) or Week 48 (protocol amendment 3), participants switched to open-label TDF treatment for an additional 120 weeks (protocol amendment 2) or 144 weeks (protocol amendment 3).

Open-Label Extension Phase: After Week 192, participants are offered open-label TDF treatment until it was commercially available in that country for treatment of chronic HBV in individuals of their age and weight.

|                       |         |
|-----------------------|---------|
| Reporting group title | Placebo |
|-----------------------|---------|

Reporting group description:

Blinded Randomized Phase: Placebo tablet or oral powder once daily for 72 weeks (protocol amendment 2) or 48 weeks (protocol amendment 3)

Open-Label Treatment Phase: After Week 72 (protocol amendment 2) or Week 48 (protocol amendment 3), participants switched to open-label TDF treatment for an additional 120 weeks (protocol amendment 2) or 144 weeks (protocol amendment 3).

Open-Label Extension Phase: After Week 192, participants are offered open-label TDF treatment until it was commercially available in that country for treatment of chronic HBV in individuals of their age and weight.

|                            |                                |
|----------------------------|--------------------------------|
| Subject analysis set title | TDF (Blinded Randomized Phase) |
|----------------------------|--------------------------------|

|                           |               |
|---------------------------|---------------|
| Subject analysis set type | Full analysis |
|---------------------------|---------------|

Subject analysis set description:

Blinded Randomized Phase: TDF tablet or oral powder once daily (up to 300 mg depending on weight) for 72 weeks (protocol amendment 2) or 48 weeks (protocol amendment 3)

|                            |                                    |
|----------------------------|------------------------------------|
| Subject analysis set title | Placebo (Blinded Randomized Phase) |
|----------------------------|------------------------------------|

|                           |               |
|---------------------------|---------------|
| Subject analysis set type | Full analysis |
|---------------------------|---------------|

Subject analysis set description:

Blinded Randomized Phase: Placebo tablet or oral powder once daily for 72 weeks (protocol amendment 2) or 48 weeks (protocol amendment 3)

|                            |               |
|----------------------------|---------------|
| Subject analysis set title | TDF to TDF    |
| Subject analysis set type  | Full analysis |

Subject analysis set description:

Blinded Randomized Phase: TDF tablet or oral powder once daily (up to 300 mg depending on weight) for 72 weeks (protocol amendment 2) or 48 weeks (protocol amendment 3)

Open-Label Treatment Phase: After Week 72 (protocol amendment 2) or Week 48 (protocol amendment 3), participants switched to open-label TDF treatment for an additional 120 weeks (protocol amendment 2) or 144 weeks (protocol amendment 3).

|                            |                |
|----------------------------|----------------|
| Subject analysis set title | Placebo to TDF |
| Subject analysis set type  | Full analysis  |

Subject analysis set description:

Blinded Randomized Phase: Placebo tablet or oral powder once daily for 72 weeks (protocol amendment 2) or 48 weeks (protocol amendment 3).

Open-Label Treatment Phase: After Week 72 (protocol amendment 2) or Week 48 (protocol amendment 3), participants switched to open-label TDF treatment for an additional 120 weeks (protocol amendment 2) or 144 weeks (protocol amendment 3).

|                            |                               |
|----------------------------|-------------------------------|
| Subject analysis set title | TDF to TDF (Open-Label Phase) |
| Subject analysis set type  | Safety analysis               |

Subject analysis set description:

Open-Label Treatment Phase: After Week 72 (protocol amendment 2) or Week 48 (protocol amendment 3), participants switched to open-label TDF treatment for an additional 120 weeks (protocol amendment 2) or 144 weeks (protocol amendment 3).

Open-Label Extension Phase: After Week 192, participants are offered open-label TDF treatment until it was commercially available in that country for treatment of chronic HBV in individuals of their age and weight.

|                            |                                   |
|----------------------------|-----------------------------------|
| Subject analysis set title | Placebo to TDF (Open-Label Phase) |
| Subject analysis set type  | Safety analysis                   |

Subject analysis set description:

Open-Label Treatment Phase: After Week 72 (protocol amendment 2) or Week 48 (protocol amendment 3), participants switched to open-label TDF treatment for an additional 120 weeks (protocol amendment 2) or 144 weeks (protocol amendment 3).

Open-Label Extension Phase: After Week 192, participants are offered open-label TDF treatment until it was commercially available in that country for treatment of chronic HBV in individuals of their age and weight.

---

**Primary: Percentage of Participants With Serum HBV DNA < 400 Copies/mL (69 IU/mL) at Week 48 (Missing = Failure Approach)**

|                 |  |
|-----------------|--|
| End point title | Percentage of Participants With Serum HBV DNA < 400 Copies/mL (69 IU/mL) at Week 48 (Missing = Failure Approach) |
|-----------------|--|

End point description:

The Full Analysis Set (FAS) included randomized participants who have received at least 1 dose of study drug. Participants will be analyzed according to the treatment to which they were randomized. The missing equals failure approach was used where all participants with missing data were considered to have failed to achieve the endpoint.

|                |         |
|----------------|---------|
| End point type | Primary |
|----------------|---------|

End point timeframe:

Week 48

| <b>End point values</b>           | TDF (Blinded Randomized Phase) | Placebo (Blinded Randomized Phase) |  |  |
|-----------------------------------|--------------------------------|------------------------------------|--|--|
| Subject group type                | Subject analysis set           | Subject analysis set               |  |  |
| Number of subjects analysed       | 60                             | 29                                 |  |  |
| Units: percentage of participants |                                |                                    |  |  |
| number (confidence interval 95%)  | 76.7 (64.0 to 86.6)            | 6.9 (0.8 to 22.8)                  |  |  |

### Statistical analyses

| <b>Statistical analysis title</b>       | Statistical Analysis 1 - TDF vs Placebo                             |
|---|---|
| Comparison groups                       | TDF (Blinded Randomized Phase) v Placebo (Blinded Randomized Phase) |
| Number of subjects included in analysis | 89  |
| Analysis specification                  | Pre-specified   |
| Analysis type                           | superiority   |
| P-value                                 | < 0.001 <sup>[1]</sup>  |
| Method                                  | Cochran-Mantel-Haenszel   |

Notes:

[1] - 2-sided Cochran-Mantel-Haenszel test adjusted for age at baseline and region strata

| <b>Statistical analysis title</b>       | Statistical Analysis 2 - TDF vs Placebo                             |
|---|---|
| Comparison groups                       | TDF (Blinded Randomized Phase) v Placebo (Blinded Randomized Phase) |
| Number of subjects included in analysis | 89  |
| Analysis specification                  | Pre-specified   |
| Analysis type                           | superiority   |
| P-value                                 | < 0.001 <sup>[2]</sup>  |
| Method                                  | Fisher exact  |

Notes:

[2] - Fisher's exact test without adjusting for strata at baseline

### **Primary: Percentage of Participants With Serum HBV DNA < 400 Copies/mL (69 IU/mL) at Week 48 (Missing = Excluded Approach)**

|                 |   |
|-----------------|---|
| End point title | Percentage of Participants With Serum HBV DNA < 400 Copies/mL (69 IU/mL) at Week 48 (Missing = Excluded Approach) |
|-----------------|---|

End point description:

Participants in the Full Analysis Set with available data were analyzed. The missing equals failure approach was used where all participants with missing data were excluded.

|                |         |
|----------------|---------|
| End point type | Primary |
|----------------|---------|

End point timeframe:

Week 48

| <b>End point values</b>           | TDF (Blinded Randomized Phase) | Placebo (Blinded Randomized Phase) |  |  |
|-----------------------------------|--------------------------------|------------------------------------|--|--|
| Subject group type                | Subject analysis set           | Subject analysis set               |  |  |
| Number of subjects analysed       | 55                             | 26                                 |  |  |
| Units: percentage of participants |                                |                                    |  |  |
| number (confidence interval 95%)  | 83.6 (71.2 to 92.2)            | 7.7 (0.9 to 25.1)                  |  |  |

### Statistical analyses

| <b>Statistical analysis title</b>       | Statistical Analysis - TDF vs Placebo                               |
|---|---|
| Comparison groups                       | TDF (Blinded Randomized Phase) v Placebo (Blinded Randomized Phase) |
| Number of subjects included in analysis | 81  |
| Analysis specification                  | Pre-specified   |
| Analysis type                           | superiority   |
| P-value                                 | < 0.001 <sup>[3]</sup>  |
| Method                                  | Cochran-Mantel-Haenszel   |

Notes:

[3] - 2-sided Cochran-Mantel-Haenszel test adjusted for age at baseline and region strata

### Secondary: Percentage of Participants With Hepatitis B e Antigen (HBeAg) Seroconversion at Week 48

| <b>End point title</b> | Percentage of Participants With Hepatitis B e Antigen (HBeAg) Seroconversion at Week 48 |
|------------------------|---|
|------------------------|---|

End point description:

HBeAg seroconversion was defined as HBeAg loss and a change from HBeAb negative or missing at baseline to HBeAb positive. Serologically Evaluable FAS For HBeAg loss/seroconversion: participants who were randomized and had received at least 1 dose of study drug, and with HBeAg positive and HBeAb negative or missing at baseline. The missing equals failure approach was used where all participants with missing data were considered to have failed to reach the endpoint.

| <b>End point type</b> | Secondary |
|-----------------------|-----------|
|-----------------------|-----------|

End point timeframe:

Week 48

| <b>End point values</b>           | TDF (Blinded Randomized Phase) | Placebo (Blinded Randomized Phase) |  |  |
|-----------------------------------|--------------------------------|------------------------------------|--|--|
| Subject group type                | Subject analysis set           | Subject analysis set               |  |  |
| Number of subjects analysed       | 56                             | 29                                 |  |  |
| Units: percentage of participants |                                |                                    |  |  |
| number (not applicable)           | 25.0                           | 24.1                               |  |  |

### Statistical analyses

|   |   |
|---|---|
| <b>Statistical analysis title</b>       | Statistical Analysis - TDF vs Placebo                               |
| Comparison groups                       | TDF (Blinded Randomized Phase) v Placebo (Blinded Randomized Phase) |
| Number of subjects included in analysis | 85  |
| Analysis specification                  | Pre-specified   |
| Analysis type                           | superiority   |
| P-value                                 | = 0.935 [4]   |
| Method                                  | Cochran-Mantel-Haenszel   |

Notes:

[4] - 2-sided Cochran-Mantel-Haenszel test adjusted for age at baseline and region strata

### **Secondary: Percentage of Participants With Normal Alanine Aminotransferase (ALT) at Week 48, Based on the American Association for the Study of Liver Diseases (AASLD) Normal Range**

|                 |  |
|-----------------|--|
| End point title | Percentage of Participants With Normal Alanine Aminotransferase (ALT) at Week 48, Based on the American Association for the Study of Liver Diseases (AASLD) Normal Range |
|-----------------|--|

End point description:

Normal ALT was defined as  $\leq 30$  U/L for males and females 0–12 years based on the AASLD pediatric normal range. Participants in the Full Analysis Set were analyzed. The missing equals failure approach was used where all participants with missing data were considered to have failed to reach the endpoint.

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

End point timeframe:

Week 48

| <b>End point values</b>           | TDF (Blinded Randomized Phase) | Placebo (Blinded Randomized Phase) |  |  |
|-----------------------------------|--------------------------------|------------------------------------|--|--|
| Subject group type                | Subject analysis set           | Subject analysis set               |  |  |
| Number of subjects analysed       | 60                             | 29                                 |  |  |
| Units: percentage of participants |                                |                                    |  |  |
| number (not applicable)           | 51.7                           | 17.2                               |  |  |

### **Statistical analyses**

|   |   |
|---|---|
| <b>Statistical analysis title</b>       | Statistical Analysis - TDF vs Placebo                               |
| Comparison groups                       | TDF (Blinded Randomized Phase) v Placebo (Blinded Randomized Phase) |
| Number of subjects included in analysis | 89  |
| Analysis specification                  | Pre-specified   |
| Analysis type                           | superiority   |
| P-value                                 | = 0.001 [5]   |
| Method                                  | Cochran-Mantel-Haenszel   |

Notes:

[5] - 2-sided Cochran-Mantel-Haenszel tests adjusted for age at baseline and region strata

## Secondary: Percentage of Participants With Normal ALT at Week 192, Based on the AASLD Normal Range

|                        |  |
|------------------------|--|
| End point title        | Percentage of Participants With Normal ALT at Week 192, Based on the AASLD Normal Range  |
| End point description: | Normal ALT was defined as $\leq 30$ U/L for males and females 0-12 years based on the AASLD pediatric normal range. Participants in the Full Analysis Set were analyzed. The missing equals failure approach was used where all participants with missing data were considered to have failed to reach the endpoint. |
| End point type         | Secondary  |
| End point timeframe:   | Week 192   |

| End point values                  | TDF to TDF           | Placebo to TDF       |  |  |
|-----------------------------------|----------------------|----------------------|--|--|
| Subject group type                | Subject analysis set | Subject analysis set |  |  |
| Number of subjects analysed       | 60                   | 29                   |  |  |
| Units: percentage of participants |                      |                      |  |  |
| number (not applicable)           | 71.7                 | 51.7                 |  |  |

## Statistical analyses

No statistical analyses for this end point

## Secondary: Percentage of Participants With Normal ALT at Week 48, Based on the Central Lab Normal Range

|                        |   |
|------------------------|---|
| End point title        | Percentage of Participants With Normal ALT at Week 48, Based on the Central Lab Normal Range  |
| End point description: | Normal ALT was defined as $\leq 34$ U/L for females aged 2-15 years old or males aged 1-9 years old, and $\leq 43$ U/L for males aged 10-15 years old based on the central lab normal range. Participants in the Full Analysis Set were analyzed. The missing equals failure approach was used where all participants with missing data were considered to have failed to reach the endpoint. |
| End point type         | Secondary   |
| End point timeframe:   | Week 48   |

| End point values                  | TDF (Blinded Randomized Phase) | Placebo (Blinded Randomized Phase) |  |  |
|-----------------------------------|--------------------------------|------------------------------------|--|--|
| Subject group type                | Subject analysis set           | Subject analysis set               |  |  |
| Number of subjects analysed       | 60                             | 29                                 |  |  |
| Units: percentage of participants |                                |                                    |  |  |
| number (not applicable)           | 65.0                           | 17.2                               |  |  |

## Statistical analyses

|   |   |
|---|---|
| <b>Statistical analysis title</b>       | Statistical Analysis: TDF vs Placebo                                |
| Comparison groups                       | TDF (Blinded Randomized Phase) v Placebo (Blinded Randomized Phase) |
| Number of subjects included in analysis | 89  |
| Analysis specification                  | Pre-specified   |
| Analysis type                           | superiority   |
| P-value                                 | < 0.001 [6]   |
| Method                                  | Cochran-Mantel-Haenszel   |

Notes:

[6] - 2-sided Cochran-Mantel-Haenszel tests adjusted for age at baseline and region strata

### Secondary: Percentage of Participants With Normal ALT at Week 192, Based on the Central Lab Normal Range

|                        |   |
|------------------------|---|
| End point title        | Percentage of Participants With Normal ALT at Week 192, Based on the Central Lab Normal Range   |
| End point description: | Normal ALT was defined as $\leq 34$ U/L for females aged 2-15 years old or males aged 1-9 years old, and $\leq 43$ U/L for males aged 10-15 years old based on the central lab normal range. Participants in the Full Analysis Set were analyzed. The missing equals failure approach was used where all participants with missing data were considered to have failed to reach the endpoint. |
| End point type         | Secondary   |
| End point timeframe:   | Week 192  |

| End point values                  | TDF to TDF           | Placebo to TDF       |  |  |
|-----------------------------------|----------------------|----------------------|--|--|
| Subject group type                | Subject analysis set | Subject analysis set |  |  |
| Number of subjects analysed       | 60                   | 29                   |  |  |
| Units: percentage of participants |                      |                      |  |  |
| number (not applicable)           | 80.0                 | 62.1                 |  |  |

## Statistical analyses

No statistical analyses for this end point

### Secondary: Percentage of Participants With Normalized ALT at Week 48, Based on the AASLD Normal Range

|                        |  |
|------------------------|--|
| End point title        | Percentage of Participants With Normalized ALT at Week 48, Based on the AASLD Normal Range   |
| End point description: | Normal ALT was defined as $\leq 30$ U/L for males and females 0-12 years based on the AASLD pediatric normal range. ALT normalization was defined as an ALT value that changed from above the normal range at baseline to within the normal range at the given postbaseline visit. Participants in the Full Analysis Set with abnormal ALT values at baseline were analyzed. The missing equals failure approach was used where all participants with missing data were considered to have failed to reach the endpoint. |
| End point type         | Secondary  |
| End point timeframe:   | Week 48  |

| <b>End point values</b>           | TDF (Blinded Randomized Phase) | Placebo (Blinded Randomized Phase) |  |  |
|-----------------------------------|--------------------------------|------------------------------------|--|--|
| Subject group type                | Subject analysis set           | Subject analysis set               |  |  |
| Number of subjects analysed       | 60                             | 28                                 |  |  |
| Units: percentage of participants |                                |                                    |  |  |
| number (not applicable)           | 51.7                           | 17.9                               |  |  |

### Statistical analyses

|   |   |
|---|---|
| <b>Statistical analysis title</b>       | Statistical Analysis - TDF vs Placebo                               |
| Comparison groups                       | TDF (Blinded Randomized Phase) v Placebo (Blinded Randomized Phase) |
| Number of subjects included in analysis | 88  |
| Analysis specification                  | Pre-specified   |
| Analysis type                           | superiority   |
| P-value                                 | = 0.002 [7]   |
| Method                                  | Cochran-Mantel-Haenszel   |

Notes:

[7] - 2-sided Cochran-Mantel-Haenszel tests adjusted for age at baseline and region strata

### Secondary: Percentage of Participants With Normalized ALT at Week 192, Based on the AASLD Normal Range

|                 |   |
|-----------------|---|
| End point title | Percentage of Participants With Normalized ALT at Week 192, Based on the AASLD Normal Range |
|-----------------|---|

End point description:

Normal ALT was defined as  $\leq 30$  U/L for males and females 0-12 years based on the AASLD pediatric normal range. ALT normalization was defined as an ALT value that changed from above the normal range at baseline to within the normal range at the given postbaseline visit. Participants in the Full Analysis Set with abnormal ALT values at baseline were analyzed. The missing equals failure approach was used where all participants with missing data were considered to have failed to reach the endpoint.

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

End point timeframe:

Week 192

| <b>End point values</b>           | TDF to TDF           | Placebo to TDF       |  |  |
|-----------------------------------|----------------------|----------------------|--|--|
| Subject group type                | Subject analysis set | Subject analysis set |  |  |
| Number of subjects analysed       | 60                   | 28                   |  |  |
| Units: percentage of participants |                      |                      |  |  |
| number (not applicable)           | 71.7                 | 50.0                 |  |  |

## Statistical analyses

No statistical analyses for this end point

### Secondary: Percentage of Participants With Normalized ALT at Week 48, Based on the Central Lab Normal Range

|                 |  |
|-----------------|--|
| End point title | Percentage of Participants With Normalized ALT at Week 48, Based on the Central Lab Normal Range |
|-----------------|--|

End point description:

Normal ALT was defined as  $\leq 34$  U/L for females aged 2-15 years old or males aged 1-9 years old, and  $\leq 43$  U/L for males aged 10-15 years old based on the central lab normal range. ALT normalization was defined as an ALT value that changed from above the normal range at baseline to within the normal range at the given postbaseline visit. Participants in the Full Analysis Set with abnormal ALT values at baseline were analyzed. The missing equals failure approach was used where all participants with missing data were considered to have failed to reach the endpoint.

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

End point timeframe:

Week 48

| End point values                  | TDF (Blinded Randomized Phase) | Placebo (Blinded Randomized Phase) |  |  |
|-----------------------------------|--------------------------------|------------------------------------|--|--|
| Subject group type                | Subject analysis set           | Subject analysis set               |  |  |
| Number of subjects analysed       | 58                             | 27                                 |  |  |
| Units: percentage of participants |                                |                                    |  |  |
| number (not applicable)           | 65.5                           | 14.8                               |  |  |

## Statistical analyses

|   |   |
|---|---|
| Statistical analysis title              | Statistical Analysis- TDF vs Placebo                                |
| Comparison groups                       | TDF (Blinded Randomized Phase) v Placebo (Blinded Randomized Phase) |
| Number of subjects included in analysis | 85  |
| Analysis specification                  | Pre-specified   |
| Analysis type                           | superiority   |
| P-value                                 | < 0.001 [8]   |
| Method                                  | Cochran-Mantel-Haenszel   |

Notes:

[8] - 2-sided Cochran-Mantel-Haenszel tests adjusted for age at baseline and region strata

### Secondary: Percentage of Participants With Normalized ALT at Week 192, Based on the Central Lab Normal Range

|                 |   |
|-----------------|---|
| End point title | Percentage of Participants With Normalized ALT at Week 192, Based on the Central Lab Normal Range |
|-----------------|---|

End point description:

Normal ALT was defined as  $\leq 34$  U/L for females aged 2-15 years old or males aged 1-9 years old, and  $\leq 43$  U/L for males aged 10-15 years old based on the central lab normal range. ALT normalization was defined as an ALT value that changed from above the normal range at baseline to within the normal range at the given postbaseline visit. Participants in the Full Analysis Set with abnormal ALT values at baseline were analyzed. The missing equals failure approach was used where all

participants with missing data were considered to have failed to reach the endpoint.

|                      |           |
|----------------------|-----------|
| End point type       | Secondary |
| End point timeframe: |           |
| Week 192             |           |

| End point values                  | TDF to TDF           | Placebo to TDF       |  |  |
|-----------------------------------|----------------------|----------------------|--|--|
| Subject group type                | Subject analysis set | Subject analysis set |  |  |
| Number of subjects analysed       | 58                   | 27                   |  |  |
| Units: percentage of participants |                      |                      |  |  |
| number (not applicable)           | 79.3                 | 59.3                 |  |  |

### Statistical analyses

No statistical analyses for this end point

### Secondary: Composite Endpoint of Percentage of Participants With HBV DNA < 400 Copies/mL (69 IU/mL) and Normalized ALT (Based on AASLD Normal Range) at Week 48

|                 |  |
|-----------------|--|
| End point title | Composite Endpoint of Percentage of Participants With HBV DNA < 400 Copies/mL (69 IU/mL) and Normalized ALT (Based on AASLD Normal Range) at Week 48 |
|-----------------|--|

End point description:

Normal ALT was defined as  $\leq 30$  U/L for males and females 0–12 years based on the AASLD pediatric normal range. ALT normalization was defined as an ALT value that changed from above the normal range at baseline to within the normal range at the given postbaseline visit. Participants in the Full Analysis Set with abnormal ALT values at baseline were analyzed. The missing equals failure approach was used where all participants with missing data were considered to have failed to reach the endpoint.

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

| End point values                  | TDF (Blinded Randomized Phase) | Placebo (Blinded Randomized Phase) |  |  |
|-----------------------------------|--------------------------------|------------------------------------|--|--|
| Subject group type                | Subject analysis set           | Subject analysis set               |  |  |
| Number of subjects analysed       | 60                             | 28                                 |  |  |
| Units: percentage of participants |                                |                                    |  |  |
| number (not applicable)           | 46.7                           | 7.1                                |  |  |

### Statistical analyses

|   |   |
|---|---|
| <b>Statistical analysis title</b>       | Statistical Analysis - TDF vs Placebo                               |
| Comparison groups                       | TDF (Blinded Randomized Phase) v Placebo (Blinded Randomized Phase) |
| Number of subjects included in analysis | 88  |
| Analysis specification                  | Pre-specified   |
| Analysis type                           | superiority   |
| P-value                                 | < 0.001 <sup>[9]</sup>  |
| Method                                  | Cochran-Mantel-Haenszel   |

Notes:

[9] - 2-sided Cochran-Mantel-Haenszel tests adjusted for age at baseline and region strata

---

**Secondary: Composite Endpoint of Percentage of Participants With HBV DNA < 400 Copies/mL (69 IU/mL) and Normalized ALT (Based on AASLD Normal Range) at Week 192**

|                 |   |
|-----------------|---|
| End point title | Composite Endpoint of Percentage of Participants With HBV DNA < 400 Copies/mL (69 IU/mL) and Normalized ALT (Based on AASLD Normal Range) at Week 192 |
|-----------------|---|

End point description:

Normal ALT was defined as  $\leq 30$  U/L for males and females 0-12 years based on the AASLD pediatric normal range. ALT normalization was defined as an ALT value that changed from above the normal range at baseline to within the normal range at the given postbaseline visit. Participants in the Full Analysis Set with abnormal ALT values at baseline were analyzed. The missing equals failure approach was used where all participants with missing data were considered to have failed to reach the endpoint.

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

End point timeframe:

Week 192

| <b>End point values</b>           | TDF to TDF           | Placebo to TDF       |  |  |
|-----------------------------------|----------------------|----------------------|--|--|
| Subject group type                | Subject analysis set | Subject analysis set |  |  |
| Number of subjects analysed       | 60                   | 28                   |  |  |
| Units: percentage of participants |                      |                      |  |  |
| number (not applicable)           | 70.0                 | 42.9                 |  |  |

**Statistical analyses**

No statistical analyses for this end point

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**Secondary: Composite Endpoint of Percentage of Participants With HBV DNA < 400 Copies/mL (69 IU/mL) and Normalized ALT (Based on Central Lab Normal Range) at Week 48**

|                 |  |
|-----------------|--|
| End point title | Composite Endpoint of Percentage of Participants With HBV DNA < 400 Copies/mL (69 IU/mL) and Normalized ALT (Based on Central Lab Normal Range) at Week 48 |
|-----------------|--|

End point description:

Normal ALT was defined as  $\leq 34$  U/L for females aged 2-15 years old or males aged 1-9 years old, and  $\leq 43$  U/L for males aged 10-15 years old based on the central lab normal range. ALT normalization was defined as an ALT value that changed from above the normal range at baseline to within the normal range at the given postbaseline visit. Participants in the Full Analysis Set with abnormal ALT values at baseline were analyzed. The missing equals failure approach was used where all participants with missing data were considered to have failed to reach the endpoint.

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

| <b>End point values</b>           | TDF (Blinded Randomized Phase) | Placebo (Blinded Randomized Phase) |  |  |
|-----------------------------------|--------------------------------|------------------------------------|--|--|
| Subject group type                | Subject analysis set           | Subject analysis set               |  |  |
| Number of subjects analysed       | 58                             | 27                                 |  |  |
| Units: percentage of participants |                                |                                    |  |  |
| number (not applicable)           | 53.4                           | 7.4                                |  |  |

### Statistical analyses

|   |   |
|---|---|
| <b>Statistical analysis title</b>       | Statistical Analysis- TDF vs Placebo                                |
| Comparison groups                       | TDF (Blinded Randomized Phase) v Placebo (Blinded Randomized Phase) |
| Number of subjects included in analysis | 85  |
| Analysis specification                  | Pre-specified   |
| Analysis type                           | superiority   |
| P-value                                 | < 0.001 <sup>[10]</sup>   |
| Method                                  | Cochran-Mantel-Haenszel   |

Notes:

[10] - 2-sided Cochran-Mantel-Haenszel tests adjusted for age at baseline and region strata

### Secondary: Composite Endpoint of Percentage of Participants With HBV DNA < 400 Copies/mL (69 IU/mL) and Normalized ALT (Based on Central Lab Normal Range) at Week 192

|                 |   |
|-----------------|---|
| End point title | Composite Endpoint of Percentage of Participants With HBV DNA < 400 Copies/mL (69 IU/mL) and Normalized ALT (Based on Central Lab Normal Range) at Week 192 |
|-----------------|---|

End point description:

Normal ALT was defined as  $\leq 34$  U/L for females aged 2-15 years old or males aged 1-9 years old, and  $\leq 43$  U/L for males aged 10-15 years old based on the central lab normal range. ALT normalization was defined as an ALT value that changed from above the normal range at baseline to within the normal range at the given postbaseline visit. Participants in the Full Analysis Set with abnormal ALT values at baseline were analyzed. The missing equals failure approach was used where all participants with missing data were considered to have failed to reach the endpoint.

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

End point timeframe:

Week 192

| <b>End point values</b>           | TDF to TDF           | Placebo to TDF       |  |  |
|-----------------------------------|----------------------|----------------------|--|--|
| Subject group type                | Subject analysis set | Subject analysis set |  |  |
| Number of subjects analysed       | 58                   | 27                   |  |  |
| Units: percentage of participants |                      |                      |  |  |
| number (not applicable)           | 75.9                 | 55.6                 |  |  |

### Statistical analyses

No statistical analyses for this end point

### Secondary: Percentage of Participants With HBV DNA < 169 Copies/mL (29 IU/mL) at Week 48

|                        |  |  |  |  |
|------------------------|--|--|--|--|
| End point title        | Percentage of Participants With HBV DNA < 169 Copies/mL (29 IU/mL) at Week 48  |  |  |  |
| End point description: | Participants in the Full Analysis Set were analyzed. The missing equals failure approach was used where all participants with missing data were considered to have failed to reach the endpoint. |  |  |  |
| End point type         | Secondary  |  |  |  |
| End point timeframe:   | Week 48  |  |  |  |

| <b>End point values</b>           | TDF (Blinded Randomized Phase) | Placebo (Blinded Randomized Phase) |  |  |
|-----------------------------------|--------------------------------|------------------------------------|--|--|
| Subject group type                | Subject analysis set           | Subject analysis set               |  |  |
| Number of subjects analysed       | 60                             | 29                                 |  |  |
| Units: percentage of participants |                                |                                    |  |  |
| number (not applicable)           | 71.7                           | 6.9                                |  |  |

### Statistical analyses

|   |   |
|---|---|
| <b>Statistical analysis title</b>       | Statistical Analysis - TDF vs Placebo                               |
| Comparison groups                       | TDF (Blinded Randomized Phase) v Placebo (Blinded Randomized Phase) |
| Number of subjects included in analysis | 89  |
| Analysis specification                  | Pre-specified   |
| Analysis type                           | superiority   |
| P-value                                 | < 0.001 <sup>[11]</sup>   |
| Method                                  | Cochran-Mantel-Haenszel   |

Notes:

[11] - 2-sided Cochran-Mantel-Haenszel tests adjusted for age at baseline and region strata

### Secondary: Percentage of Participants With HBV DNA < 169 Copies/mL (29 IU/mL) at Week 192

|  |  |
|--|--|
| End point title  | Percentage of Participants With HBV DNA < 169 Copies/mL (29 IU/mL) at Week 192 |
| End point description:<br>Participants in the Full Analysis Set were analyzed. The missing equals failure approach was used where all participants with missing data were considered to have failed to reach the endpoint. |  |
| End point type   | Secondary  |
| End point timeframe:<br>Week 192   |  |

| End point values                  | TDF to TDF           | Placebo to TDF       |  |  |
|-----------------------------------|----------------------|----------------------|--|--|
| Subject group type                | Subject analysis set | Subject analysis set |  |  |
| Number of subjects analysed       | 60                   | 29                   |  |  |
| Units: percentage of participants |                      |                      |  |  |
| number (not applicable)           | 81.7                 | 62.1                 |  |  |

### Statistical analyses

No statistical analyses for this end point

### Secondary: Percentage of Participants With HBsAg Loss at Week 48

|   |   |
|---|---|
| End point title   | Percentage of Participants With HBsAg Loss at Week 48 |
| End point description:<br>HBsAg Loss was defined as a change from HBsAg positive or missing at baseline to HBsAg negative. Serologically Evaluable Full Analysis Set For HBsAg Loss/Seroconversion; The missing equals failure approach was used where all participants with missing data were considered to have failed to reach the endpoint. |   |
| End point type  | Secondary   |
| End point timeframe:<br>Week 48   |   |

| End point values                  | TDF (Blinded Randomized Phase) | Placebo (Blinded Randomized Phase) |  |  |
|-----------------------------------|--------------------------------|------------------------------------|--|--|
| Subject group type                | Subject analysis set           | Subject analysis set               |  |  |
| Number of subjects analysed       | 60                             | 29                                 |  |  |
| Units: percentage of participants |                                |                                    |  |  |
| number (not applicable)           | 3.3                            | 3.4                                |  |  |

### Statistical analyses

|                            |   |
|----------------------------|---|
| Statistical analysis title | Statistical Analysis - TDF vs Placebo             |
| Comparison groups          | TDF (Blinded Randomized Phase) v Placebo (Blinded |

|   |                         |
|---|-------------------------|
|   | Randomized Phase)       |
| Number of subjects included in analysis | 89                      |
| Analysis specification                  | Pre-specified           |
| Analysis type                           | superiority             |
| P-value                                 | > 0.999 <sup>[12]</sup> |
| Method                                  | Cochran-Mantel-Haenszel |

Notes:

[12] - 2-sided Cochran-Mantel-Haenszel tests adjusted for age at baseline and region strata

### Secondary: Percentage of Participants With HBsAg Loss at Week 192

|                 |  |
|-----------------|--|
| End point title | Percentage of Participants With HBsAg Loss at Week 192 |
|-----------------|--|

End point description:

HBsAg Loss was defined as a change from HBsAg positive or missing at baseline to HBsAg negative. Serologically Evaluable Full Analysis Set For HBsAg Loss/Seroconversion; The missing equals failure approach was used where all participants with missing data were considered to have failed to reach the endpoint.

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

End point timeframe:

Week 192

| End point values                  | TDF to TDF           | Placebo to TDF       |  |  |
|-----------------------------------|----------------------|----------------------|--|--|
| Subject group type                | Subject analysis set | Subject analysis set |  |  |
| Number of subjects analysed       | 60                   | 29                   |  |  |
| Units: percentage of participants |                      |                      |  |  |
| number (not applicable)           | 10.0                 | 0                    |  |  |

### Statistical analyses

No statistical analyses for this end point

### Secondary: Percentage of Participants With HBsAg Seroconversion at Week 48

|                 |   |
|-----------------|---|
| End point title | Percentage of Participants With HBsAg Seroconversion at Week 48 |
|-----------------|---|

End point description:

HBsAg seroconversion was defined as HBsAg loss and a change from HBsAb negative or missing at baseline to HBsAb positive. Serologically Evaluable Full Analysis Set For HBsAg Loss/Seroconversion; The missing equals failure approach was used where all participants with missing data were considered to have failed to reach the endpoint.

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

End point timeframe:

Week 48

| <b>End point values</b>           | TDF (Blinded Randomized Phase) | Placebo (Blinded Randomized Phase) |  |  |
|-----------------------------------|--------------------------------|------------------------------------|--|--|
| Subject group type                | Subject analysis set           | Subject analysis set               |  |  |
| Number of subjects analysed       | 60                             | 29                                 |  |  |
| Units: percentage of participants |                                |                                    |  |  |
| number (not applicable)           | 0                              | 0                                  |  |  |

### Statistical analyses

No statistical analyses for this end point

### Secondary: Percentage of Participants With HBsAg Seroconversion at Week 192

|  |  |  |  |  |
|--|--|--|--|--|
| End point title  | Percentage of Participants With HBsAg Seroconversion at Week 192 |  |  |  |
| End point description:   |  |  |  |  |
| HBsAg seroconversion was defined as HBsAg loss and a change from HBsAb negative or missing at baseline to HBsAb positive. Serologically Evaluable Full Analysis Set For HBsAg Loss/Seroconversion; The missing equals failure approach was used where all participants with missing data were considered to have failed to reach the endpoint. |  |  |  |  |
| End point type   | Secondary  |  |  |  |
| End point timeframe:   |  |  |  |  |
| Week 192   |  |  |  |  |

| <b>End point values</b>           | TDF to TDF           | Placebo to TDF       |  |  |
|-----------------------------------|----------------------|----------------------|--|--|
| Subject group type                | Subject analysis set | Subject analysis set |  |  |
| Number of subjects analysed       | 60                   | 29                   |  |  |
| Units: percentage of participants |                      |                      |  |  |
| number (not applicable)           | 0                    | 0                    |  |  |

### Statistical analyses

No statistical analyses for this end point

### Secondary: Number of Participants With Sequence Changes From Baseline Within the HBV Polymerase for Participants Who Were Viremic (HBV DNA $\geq$ 400 Copies/mL [69 IU/mL]) Including Participants With Confirmed Virologic Breakthrough at Week 48

|   |  |  |  |  |
|---|--|--|--|--|
| End point title   | Number of Participants With Sequence Changes From Baseline Within the HBV Polymerase for Participants Who Were Viremic (HBV DNA $\geq$ 400 Copies/mL [69 IU/mL]) Including Participants With Confirmed Virologic Breakthrough at Week 48 |  |  |  |
| End point description:  |  |  |  |  |
| Participants in the Full Analysis Set with serum samples available at baseline and with HBV DNA $\geq$ 69 IU/mL at Week 48 were analyzed. |  |  |  |  |
| End point type  | Secondary  |  |  |  |

End point timeframe:

Baseline; Week 48

| <b>End point values</b>     | TDF (Blinded Randomized Phase) | Placebo (Blinded Randomized Phase) |  |  |
|-----------------------------|--------------------------------|------------------------------------|--|--|
| Subject group type          | Subject analysis set           | Subject analysis set               |  |  |
| Number of subjects analysed | 10                             | 26                                 |  |  |
| Units: participants         | 5                              | 7                                  |  |  |

### Statistical analyses

No statistical analyses for this end point

### Secondary: Number of Participants With Sequence Changes From Baseline Within the HBV Polymerase for Participants Who Were Viremic (HBV DNA $\geq$ 400 Copies/mL [69 IU/mL]) Including Participants With Confirmed Virologic Breakthrough at Week 96

|                 |  |
|-----------------|--|
| End point title | Number of Participants With Sequence Changes From Baseline Within the HBV Polymerase for Participants Who Were Viremic (HBV DNA $\geq$ 400 Copies/mL [69 IU/mL]) Including Participants With Confirmed Virologic Breakthrough at Week 96 |
|-----------------|--|

End point description:

Participants in the Full Analysis Set with serum samples available at baseline and with HBV DNA  $\geq$  69 IU/mL at Week 96 were analyzed.

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

End point timeframe:

Baseline; Week 96

| <b>End point values</b>     | TDF to TDF           | Placebo to TDF       |  |  |
|-----------------------------|----------------------|----------------------|--|--|
| Subject group type          | Subject analysis set | Subject analysis set |  |  |
| Number of subjects analysed | 5                    | 12                   |  |  |
| Units: participants         | 1                    | 2                    |  |  |

### Statistical analyses

No statistical analyses for this end point

### Secondary: Number of Participants With Sequence Changes From Baseline Within the HBV Polymerase for Participants Who Were Viremic (HBV DNA $\geq$ 400 Copies/mL [69 IU/mL]) Including Participants With Confirmed Virologic Breakthrough at Week 144

|                 |  |
|-----------------|--|
| End point title | Number of Participants With Sequence Changes From Baseline |
|-----------------|--|

Within the HBV Polymerase for Participants Who Were Viremic (HBV DNA  $\geq$  400 Copies/mL [69 IU/mL]) Including Participants With Confirmed Virologic Breakthrough at Week 144

End point description:

Participants in the Full Analysis Set with serum samples available at baseline and with HBV DNA  $\geq$  69 IU/mL at Week 144 were analyzed.

End point type Secondary

End point timeframe:

Baseline; Week 144

| End point values            | TDF to TDF           | Placebo to TDF       |  |  |
|-----------------------------|----------------------|----------------------|--|--|
| Subject group type          | Subject analysis set | Subject analysis set |  |  |
| Number of subjects analysed | 4                    | 1                    |  |  |
| Units: participants         | 1                    | 0                    |  |  |

### Statistical analyses

No statistical analyses for this end point

### Secondary: Number of Participants With Sequence Changes From Baseline Within the HBV Polymerase for Participants Who Were Viremic (HBV DNA $\geq$ 400 Copies/mL [69 IU/mL]) Including Participants With Confirmed Virologic Breakthrough at Week 192

End point title Number of Participants With Sequence Changes From Baseline Within the HBV Polymerase for Participants Who Were Viremic (HBV DNA  $\geq$  400 Copies/mL [69 IU/mL]) Including Participants With Confirmed Virologic Breakthrough at Week 192

End point description:

Participants in the Full Analysis Set with serum samples available at baseline and with HBV DNA  $\geq$  69 IU/mL at Week 192 were analyzed.

End point type Secondary

End point timeframe:

Baseline; Week 192

| End point values            | TDF to TDF           | Placebo to TDF       |  |  |
|-----------------------------|----------------------|----------------------|--|--|
| Subject group type          | Subject analysis set | Subject analysis set |  |  |
| Number of subjects analysed | 2                    | 2                    |  |  |
| Units: participants         | 0                    | 0                    |  |  |

### Statistical analyses

No statistical analyses for this end point

**Secondary: Percentage of Participants With  $\geq$  4% Decrease From Baseline in Spine Bone Mineral Density (BMD) at Week 48**

|                        |   |
|------------------------|---|
| End point title        | Percentage of Participants With $\geq$ 4% Decrease From Baseline in Spine Bone Mineral Density (BMD) at Week 48   |
| End point description: | Spine Dual X-Ray Absorptiometry (DXA) Analysis Set: all randomized participants who received at least 1 dose of study drug and had nonmissing baseline spine bone mineral density values. |
| End point type         | Secondary   |
| End point timeframe:   | Baseline; Week 48   |

| End point values                  | TDF (Blinded Randomized Phase) | Placebo (Blinded Randomized Phase) |  |  |
|-----------------------------------|--------------------------------|------------------------------------|--|--|
| Subject group type                | Subject analysis set           | Subject analysis set               |  |  |
| Number of subjects analysed       | 60                             | 29                                 |  |  |
| Units: percentage of participants |                                |                                    |  |  |
| number (not applicable)           | 18.3                           | 6.9                                |  |  |

**Statistical analyses**

|   |   |
|---|---|
| <b>Statistical analysis title</b>       | Statistical Analysis - TDF vs Placebo                               |
| Comparison groups                       | TDF (Blinded Randomized Phase) v Placebo (Blinded Randomized Phase) |
| Number of subjects included in analysis | 89  |
| Analysis specification                  | Pre-specified   |
| Analysis type                           | other <sup>[13]</sup>   |
| Parameter estimate                      | Exact Chan-Zhang method   |
| Point estimate                          | 11.4  |
| Confidence interval                     |   |
| level                                   | 95 %  |
| sides                                   | 2-sided   |
| lower limit                             | -6.9  |
| upper limit                             | 25.1  |

Notes:

[13] - Comparison of the difference in percentages

**Secondary: Percentage of Participants With  $\geq$  4% Decrease From Baseline in Spine BMD at Week 192**

|                        |   |
|------------------------|---|
| End point title        | Percentage of Participants With $\geq$ 4% Decrease From Baseline in Spine BMD at Week 192 |
| End point description: | Participants in the Spine DXA Analysis Set were analyzed.                                 |
| End point type         | Secondary   |
| End point timeframe:   | Baseline; Week 192  |

| <b>End point values</b>           | TDF to TDF           | Placebo to TDF       |  |  |
|-----------------------------------|----------------------|----------------------|--|--|
| Subject group type                | Subject analysis set | Subject analysis set |  |  |
| Number of subjects analysed       | 60                   | 29                   |  |  |
| Units: percentage of participants |                      |                      |  |  |
| number (not applicable)           | 18.3                 | 6.9                  |  |  |

### Statistical analyses

| <b>Statistical analysis title</b>       | Statistical Analysis - TDF vs Placebo |
|---|---------------------------------------|
| Comparison groups                       | TDF to TDF v Placebo to TDF           |
| Number of subjects included in analysis | 89                                    |
| Analysis specification                  | Pre-specified                         |
| Analysis type                           | other <sup>[14]</sup>                 |
| Parameter estimate                      | Exact Chan-Zhang method               |
| Point estimate                          | 11.4                                  |
| Confidence interval                     |                                       |
| level                                   | 95 %                                  |
| sides                                   | 2-sided                               |
| lower limit                             | -6.9                                  |
| upper limit                             | 25.1                                  |

Notes:

[14] - Comparison of the difference in percentages

### Secondary: Percent Change From Baseline in BMD of Spine at Week 48

|                        |   |
|------------------------|---|
| End point title        | Percent Change From Baseline in BMD of Spine at Week 48                       |
| End point description: | Participants in the Spine DXA Analysis Set with available data were analyzed. |
| End point type         | Secondary   |
| End point timeframe:   | Baseline; Week 48   |

| <b>End point values</b>              | TDF (Blinded Randomized Phase) | Placebo (Blinded Randomized Phase) |  |  |
|--------------------------------------|--------------------------------|------------------------------------|--|--|
| Subject group type                   | Subject analysis set           | Subject analysis set               |  |  |
| Number of subjects analysed          | 55                             | 25                                 |  |  |
| Units: Percent change in spine BMD   |                                |                                    |  |  |
| arithmetic mean (standard deviation) | 3.798 (± 5.9118)               | 7.557 (± 4.9790)                   |  |  |

## Statistical analyses

|   |   |
|---|---|
| <b>Statistical analysis title</b>       | Statistical Analysis - TDF vs Placebo                               |
| Comparison groups                       | Placebo (Blinded Randomized Phase) v TDF (Blinded Randomized Phase) |
| Number of subjects included in analysis | 80  |
| Analysis specification                  | Pre-specified   |
| Analysis type                           | superiority   |
| P-value                                 | = 0.007 <sup>[15]</sup>   |
| Method                                  | ANOVA   |

Notes:

[15] - two-sided superiority test

## Secondary: Percent Change From Baseline in BMD of Spine at Week 192

|                        |   |
|------------------------|---|
| End point title        | Percent Change From Baseline in BMD of Spine at Week 192                      |
| End point description: | Participants in the Spine DXA Analysis Set with available data were analyzed. |
| End point type         | Secondary   |
| End point timeframe:   | Baseline; Week 192  |

| <b>End point values</b>              | TDF to TDF           | Placebo to TDF       |  |  |
|--------------------------------------|----------------------|----------------------|--|--|
| Subject group type                   | Subject analysis set | Subject analysis set |  |  |
| Number of subjects analysed          | 52                   | 18                   |  |  |
| Units: Percent change in spine BMD   |                      |                      |  |  |
| arithmetic mean (standard deviation) | 19.168 (± 12.2805)   | 26.085 (± 14.2586)   |  |  |

## Statistical analyses

No statistical analyses for this end point

## Adverse events

### Adverse events information

Timeframe for reporting adverse events:

First dose date up to the Week 192 Data Cut for Open-Label Phase;

Additional adverse event data will be reported after study is completed and final analysis is done.

Adverse event reporting additional description:

Safety Analysis all randomized participants who have received at least 1 dose of study drug. Participants were analyzed according to the treatment to which they received during the blinded phase.

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

### Dictionary used

|                    |        |
|--------------------|--------|
| Dictionary name    | MedDRA |
| Dictionary version | 23.0   |

### Reporting groups

|                       |                                |
|-----------------------|--------------------------------|
| Reporting group title | TDF (Blinded Randomized Phase) |
|-----------------------|--------------------------------|

Reporting group description:

Blinded Randomized Phase: TDF tablet or oral powder once daily (up to 300 mg depending on weight) for 72 weeks (protocol amendment 2) or 48 weeks (protocol amendment 3)

|                       |                                    |
|-----------------------|------------------------------------|
| Reporting group title | Placebo (Blinded Randomized Phase) |
|-----------------------|------------------------------------|

Reporting group description:

Blinded Randomized Phase: Placebo tablet or oral powder once daily for 72 weeks (protocol amendment 2) or 48 weeks (protocol amendment 3)

|                       |                               |
|-----------------------|-------------------------------|
| Reporting group title | TDF to TDF (Open-Label Phase) |
|-----------------------|-------------------------------|

Reporting group description:

Open-Label Treatment Phase: After Week 72 (protocol amendment 2) or Week 48 (protocol amendment 3), participants switched to open-label TDF treatment for an additional 120 weeks (protocol amendment 2) or 144 weeks (protocol amendment 3).

Open-Label Extension Phase: After Week 192, participants are offered open-label TDF treatment until it was commercially available in that country for treatment of chronic HBV in individuals of their age and weight.

|                       |                                   |
|-----------------------|-----------------------------------|
| Reporting group title | Placebo to TDF (Open-Label Phase) |
|-----------------------|-----------------------------------|

Reporting group description:

Open-Label Treatment Phase: After Week 72 (protocol amendment 2) or Week 48 (protocol amendment 3), participants switched to open-label TDF treatment for an additional 120 weeks (protocol amendment 2) or 144 weeks (protocol amendment 3).

Open-Label Extension Phase: After Week 192, participants are offered open-label TDF treatment until it was commercially available in that country for treatment of chronic HBV in individuals of their age and weight.

| <b>Serious adverse events</b>                     | TDF (Blinded Randomized Phase) | Placebo (Blinded Randomized Phase) | TDF to TDF (Open-Label Phase) |
|---|--------------------------------|------------------------------------|-------------------------------|
| Total subjects affected by serious adverse events |                                |                                    |                               |
| subjects affected / exposed                       | 10 / 60 (16.67%)               | 2 / 29 (6.90%)                     | 8 / 56 (14.29%)               |
| number of deaths (all causes)                     | 0                              | 0                                  | 0                             |
| number of deaths resulting from adverse events    | 0                              | 0                                  | 0                             |
| Investigations                                    |                                |                                    |                               |
| Alanine aminotransferase increased                |                                |                                    |                               |

|   |                |                |                |
|---|----------------|----------------|----------------|
| subjects affected / exposed                     | 4 / 60 (6.67%) | 1 / 29 (3.45%) | 1 / 56 (1.79%) |
| occurrences causally related to treatment / all | 3 / 4          | 1 / 1          | 0 / 1          |
| deaths causally related to treatment / all      | 0 / 0          | 0 / 0          | 0 / 0          |
| Hepatic enzyme increased                        |                |                |                |
| subjects affected / exposed                     | 1 / 60 (1.67%) | 0 / 29 (0.00%) | 0 / 56 (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          |
| Nervous system disorders                        |                |                |                |
| Encephalopathy                                  |                |                |                |
| subjects affected / exposed                     | 1 / 60 (1.67%) | 0 / 29 (0.00%) | 0 / 56 (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 |                |                |                |
| Adenoidal hypertrophy                           |                |                |                |
| subjects affected / exposed                     | 1 / 60 (1.67%) | 0 / 29 (0.00%) | 0 / 56 (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          |
| Hypoxia   |                |                |                |
| subjects affected / exposed                     | 1 / 60 (1.67%) | 0 / 29 (0.00%) | 0 / 56 (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          |
| Tonsillar hypertrophy                           |                |                |                |
| subjects affected / exposed                     | 1 / 60 (1.67%) | 0 / 29 (0.00%) | 0 / 56 (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                     |                |                |                |
| Pelvi-ureteric obstruction                      |                |                |                |
| subjects affected / exposed                     | 1 / 60 (1.67%) | 0 / 29 (0.00%) | 0 / 56 (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          |
| Infections and infestations                     |                |                |                |
| Pharyngitis                                     |                |                |                |

|   |                |                |                |
|---|----------------|----------------|----------------|
| subjects affected / exposed                     | 0 / 60 (0.00%) | 0 / 29 (0.00%) | 1 / 56 (1.79%) |
| occurrences causally related to treatment / all | 0 / 0          | 0 / 0          | 0 / 1          |
| deaths causally related to treatment / all      | 0 / 0          | 0 / 0          | 0 / 0          |
| <b>Pneumonia</b>                                |                |                |                |
| subjects affected / exposed                     | 1 / 60 (1.67%) | 0 / 29 (0.00%) | 1 / 56 (1.79%) |
| occurrences causally related to treatment / all | 0 / 1          | 0 / 0          | 0 / 1          |
| deaths causally related to treatment / all      | 0 / 0          | 0 / 0          | 0 / 0          |
| <b>Acute hepatitis B</b>                        |                |                |                |
| subjects affected / exposed                     | 1 / 60 (1.67%) | 0 / 29 (0.00%) | 0 / 56 (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          |
| <b>Adenovirus infection</b>                     |                |                |                |
| subjects affected / exposed                     | 0 / 60 (0.00%) | 0 / 29 (0.00%) | 1 / 56 (1.79%) |
| occurrences causally related to treatment / all | 0 / 0          | 0 / 0          | 0 / 1          |
| deaths causally related to treatment / all      | 0 / 0          | 0 / 0          | 0 / 0          |
| <b>Appendicitis</b>                             |                |                |                |
| subjects affected / exposed                     | 0 / 60 (0.00%) | 0 / 29 (0.00%) | 0 / 56 (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          |
| <b>Bronchitis</b>                               |                |                |                |
| subjects affected / exposed                     | 0 / 60 (0.00%) | 0 / 29 (0.00%) | 0 / 56 (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          |
| <b>Hand-foot-and-mouth disease</b>              |                |                |                |
| subjects affected / exposed                     | 0 / 60 (0.00%) | 0 / 29 (0.00%) | 0 / 56 (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          |
| <b>Influenza</b>                                |                |                |                |
| subjects affected / exposed                     | 0 / 60 (0.00%) | 0 / 29 (0.00%) | 1 / 56 (1.79%) |
| occurrences causally related to treatment / all | 0 / 0          | 0 / 0          | 0 / 1          |
| deaths causally related to treatment / all      | 0 / 0          | 0 / 0          | 0 / 0          |
| <b>Meningitis viral</b>                         |                |                |                |

|   |                |                |                |
|---|----------------|----------------|----------------|
| subjects affected / exposed                     | 0 / 60 (0.00%) | 0 / 29 (0.00%) | 1 / 56 (1.79%) |
| occurrences causally related to treatment / all | 0 / 0          | 0 / 0          | 0 / 1          |
| deaths causally related to treatment / all      | 0 / 0          | 0 / 0          | 0 / 0          |
| Upper respiratory tract infection               |                |                |                |
| subjects affected / exposed                     | 0 / 60 (0.00%) | 0 / 29 (0.00%) | 1 / 56 (1.79%) |
| occurrences causally related to treatment / all | 0 / 0          | 0 / 0          | 0 / 1          |
| deaths causally related to treatment / all      | 0 / 0          | 0 / 0          | 0 / 0          |
| Metabolism and nutrition disorders              |                |                |                |
| Dehydration                                     |                |                |                |
| subjects affected / exposed                     | 0 / 60 (0.00%) | 0 / 29 (0.00%) | 1 / 56 (1.79%) |
| occurrences causally related to treatment / all | 0 / 0          | 0 / 0          | 0 / 1          |
| deaths causally related to treatment / all      | 0 / 0          | 0 / 0          | 0 / 0          |
| Hypoglycaemia                                   |                |                |                |
| subjects affected / exposed                     | 0 / 60 (0.00%) | 1 / 29 (3.45%) | 0 / 56 (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          |

| <b>Serious adverse events</b>                     | Placebo to TDF<br>(Open-Label Phase) |  |  |
|---|--------------------------------------|--|--|
| Total subjects affected by serious adverse events |                                      |  |  |
| subjects affected / exposed                       | 3 / 25 (12.00%)                      |  |  |
| number of deaths (all causes)                     | 0                                    |  |  |
| number of deaths resulting from adverse events    | 0                                    |  |  |
| Investigations                                    |                                      |  |  |
| Alanine aminotransferase increased                |                                      |  |  |
| subjects affected / exposed                       | 0 / 25 (0.00%)                       |  |  |
| occurrences causally related to treatment / all   | 0 / 0                                |  |  |
| deaths causally related to treatment / all        | 0 / 0                                |  |  |
| Hepatic enzyme increased                          |                                      |  |  |
| subjects affected / exposed                       | 0 / 25 (0.00%)                       |  |  |
| occurrences causally related to treatment / all   | 0 / 0                                |  |  |
| deaths causally related to treatment / all        | 0 / 0                                |  |  |
| Nervous system disorders                          |                                      |  |  |
| Encephalopathy                                    |                                      |  |  |

|  |                |  |  |
|--|----------------|--|--|
| subjects affected / exposed                            | 0 / 25 (0.00%) |  |  |
| occurrences causally related to treatment / all        | 0 / 0          |  |  |
| deaths causally related to treatment / all             | 0 / 0          |  |  |
| <b>Respiratory, thoracic and mediastinal disorders</b> |                |  |  |
| Adenoidal hypertrophy                                  |                |  |  |
| subjects affected / exposed                            | 0 / 25 (0.00%) |  |  |
| occurrences causally related to treatment / all        | 0 / 0          |  |  |
| deaths causally related to treatment / all             | 0 / 0          |  |  |
| Hypoxia  |                |  |  |
| subjects affected / exposed                            | 0 / 25 (0.00%) |  |  |
| occurrences causally related to treatment / all        | 0 / 0          |  |  |
| deaths causally related to treatment / all             | 0 / 0          |  |  |
| Tonsillar hypertrophy                                  |                |  |  |
| subjects affected / exposed                            | 0 / 25 (0.00%) |  |  |
| occurrences causally related to treatment / all        | 0 / 0          |  |  |
| deaths causally related to treatment / all             | 0 / 0          |  |  |
| <b>Renal and urinary disorders</b>                     |                |  |  |
| Pelvi-ureteric obstruction                             |                |  |  |
| subjects affected / exposed                            | 0 / 25 (0.00%) |  |  |
| occurrences causally related to treatment / all        | 0 / 0          |  |  |
| deaths causally related to treatment / all             | 0 / 0          |  |  |
| <b>Infections and infestations</b>                     |                |  |  |
| Pharyngitis  |                |  |  |
| subjects affected / exposed                            | 1 / 25 (4.00%) |  |  |
| occurrences causally related to treatment / all        | 0 / 1          |  |  |
| deaths causally related to treatment / all             | 0 / 0          |  |  |
| Pneumonia  |                |  |  |
| subjects affected / exposed                            | 0 / 25 (0.00%) |  |  |
| occurrences causally related to treatment / all        | 0 / 0          |  |  |
| deaths causally related to treatment / all             | 0 / 0          |  |  |
| Acute hepatitis B                                      |                |  |  |
| subjects affected / exposed                            | 0 / 25 (0.00%) |  |  |
| occurrences causally related to treatment / all        | 0 / 0          |  |  |
| deaths causally related to treatment / all             | 0 / 0          |  |  |

|   |                |  |  |
|---|----------------|--|--|
| Adenovirus infection                            |                |  |  |
| subjects affected / exposed                     | 0 / 25 (0.00%) |  |  |
| occurrences causally related to treatment / all | 0 / 0          |  |  |
| deaths causally related to treatment / all      | 0 / 0          |  |  |
| Appendicitis                                    |                |  |  |
| subjects affected / exposed                     | 1 / 25 (4.00%) |  |  |
| occurrences causally related to treatment / all | 0 / 1          |  |  |
| deaths causally related to treatment / all      | 0 / 0          |  |  |
| Bronchitis                                      |                |  |  |
| subjects affected / exposed                     | 1 / 25 (4.00%) |  |  |
| occurrences causally related to treatment / all | 0 / 1          |  |  |
| deaths causally related to treatment / all      | 0 / 0          |  |  |
| Hand-foot-and-mouth disease                     |                |  |  |
| subjects affected / exposed                     | 1 / 25 (4.00%) |  |  |
| occurrences causally related to treatment / all | 0 / 1          |  |  |
| deaths causally related to treatment / all      | 0 / 0          |  |  |
| Influenza                                       |                |  |  |
| subjects affected / exposed                     | 0 / 25 (0.00%) |  |  |
| occurrences causally related to treatment / all | 0 / 0          |  |  |
| deaths causally related to treatment / all      | 0 / 0          |  |  |
| Meningitis viral                                |                |  |  |
| subjects affected / exposed                     | 0 / 25 (0.00%) |  |  |
| occurrences causally related to treatment / all | 0 / 0          |  |  |
| deaths causally related to treatment / all      | 0 / 0          |  |  |
| Upper respiratory tract infection               |                |  |  |
| subjects affected / exposed                     | 0 / 25 (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                     | 1 / 25 (4.00%) |  |  |
| occurrences causally related to treatment / all | 0 / 1          |  |  |
| deaths causally related to treatment / all      | 0 / 0          |  |  |
| Hypoglycaemia                                   |                |  |  |

|   |                |  |  |
|---|----------------|--|--|
| subjects affected / exposed                     | 0 / 25 (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 %

| <b>Non-serious adverse events</b>                     | TDF (Blinded Randomized Phase) | Placebo (Blinded Randomized Phase) | TDF to TDF (Open-Label Phase) |
|---|--------------------------------|------------------------------------|-------------------------------|
| Total subjects affected by non-serious adverse events |                                |                                    |                               |
| subjects affected / exposed                           | 38 / 60 (63.33%)               | 16 / 29 (55.17%)                   | 21 / 56 (37.50%)              |
| Investigations  |                                |                                    |                               |
| Alanine aminotransferase increased                    |                                |                                    |                               |
| subjects affected / exposed                           | 3 / 60 (5.00%)                 | 3 / 29 (10.34%)                    | 0 / 56 (0.00%)                |
| occurrences (all)                                     | 3                              | 3                                  | 0                             |
| Nervous system disorders                              |                                |                                    |                               |
| Headache  |                                |                                    |                               |
| subjects affected / exposed                           | 2 / 60 (3.33%)                 | 2 / 29 (6.90%)                     | 2 / 56 (3.57%)                |
| occurrences (all)                                     | 2                              | 2                                  | 2                             |
| General disorders and administration site conditions  |                                |                                    |                               |
| Pyrexia   |                                |                                    |                               |
| subjects affected / exposed                           | 9 / 60 (15.00%)                | 2 / 29 (6.90%)                     | 4 / 56 (7.14%)                |
| occurrences (all)                                     | 9                              | 3                                  | 7                             |
| Gastrointestinal disorders                            |                                |                                    |                               |
| Abdominal pain  |                                |                                    |                               |
| subjects affected / exposed                           | 3 / 60 (5.00%)                 | 1 / 29 (3.45%)                     | 1 / 56 (1.79%)                |
| occurrences (all)                                     | 3                              | 1                                  | 1                             |
| Vomiting  |                                |                                    |                               |
| subjects affected / exposed                           | 3 / 60 (5.00%)                 | 1 / 29 (3.45%)                     | 0 / 56 (0.00%)                |
| occurrences (all)                                     | 5                              | 1                                  | 0                             |
| Diarrhoea   |                                |                                    |                               |
| subjects affected / exposed                           | 3 / 60 (5.00%)                 | 1 / 29 (3.45%)                     | 0 / 56 (0.00%)                |
| occurrences (all)                                     | 3                              | 1                                  | 0                             |
| Nausea  |                                |                                    |                               |
| subjects affected / exposed                           | 3 / 60 (5.00%)                 | 0 / 29 (0.00%)                     | 0 / 56 (0.00%)                |
| occurrences (all)                                     | 3                              | 0                                  | 0                             |
| Respiratory, thoracic and mediastinal disorders       |                                |                                    |                               |

|   |                       |                      |                        |
|---|-----------------------|----------------------|------------------------|
| Cough<br>subjects affected / exposed<br>occurrences (all)   | 5 / 60 (8.33%)<br>6   | 1 / 29 (3.45%)<br>1  | 0 / 56 (0.00%)<br>0    |
| Skin and subcutaneous tissue disorders<br>Dermatitis atopic<br>subjects affected / exposed<br>occurrences (all) | 0 / 60 (0.00%)<br>0   | 2 / 29 (6.90%)<br>2  | 0 / 56 (0.00%)<br>0    |
| Infections and infestations<br>Nasopharyngitis<br>subjects affected / exposed<br>occurrences (all)              | 9 / 60 (15.00%)<br>29 | 2 / 29 (6.90%)<br>12 | 12 / 56 (21.43%)<br>51 |
| Upper respiratory tract infection<br>subjects affected / exposed<br>occurrences (all)                           | 9 / 60 (15.00%)<br>9  | 5 / 29 (17.24%)<br>6 | 3 / 56 (5.36%)<br>5    |
| Pharyngitis<br>subjects affected / exposed<br>occurrences (all)   | 3 / 60 (5.00%)<br>4   | 3 / 29 (10.34%)<br>4 | 2 / 56 (3.57%)<br>2    |
| Otitis media<br>subjects affected / exposed<br>occurrences (all)  | 3 / 60 (5.00%)<br>3   | 1 / 29 (3.45%)<br>1  | 1 / 56 (1.79%)<br>1    |
| Ear infection<br>subjects affected / exposed<br>occurrences (all)   | 3 / 60 (5.00%)<br>3   | 0 / 29 (0.00%)<br>0  | 1 / 56 (1.79%)<br>1    |
| Varicella<br>subjects affected / exposed<br>occurrences (all)   | 3 / 60 (5.00%)<br>3   | 0 / 29 (0.00%)<br>0  | 0 / 56 (0.00%)<br>0    |
| Tonsillitis<br>subjects affected / exposed<br>occurrences (all)   | 3 / 60 (5.00%)<br>3   | 0 / 29 (0.00%)<br>0  | 0 / 56 (0.00%)<br>0    |

|  |                                      |  |  |
|--|--------------------------------------|--|--|
| <b>Non-serious adverse events</b>  | Placebo to TDF<br>(Open-Label Phase) |  |  |
| Total subjects affected by non-serious<br>adverse events<br>subjects affected / exposed                  | 7 / 25 (28.00%)                      |  |  |
| Investigations<br>Alanine aminotransferase increased<br>subjects affected / exposed<br>occurrences (all) | 0 / 25 (0.00%)<br>0                  |  |  |

|   |  |  |  |
|---|--|--|--|
| Nervous system disorders<br>Headache<br>subjects affected / exposed<br>occurrences (all)  | 0 / 25 (0.00%)<br>0  |  |  |
| General disorders and administration site conditions<br>Pyrexia<br>subjects affected / exposed<br>occurrences (all)   | 0 / 25 (0.00%)<br>0  |  |  |
| Gastrointestinal disorders<br>Abdominal pain<br>subjects affected / exposed<br>occurrences (all)<br><br>Vomiting<br>subjects affected / exposed<br>occurrences (all)<br><br>Diarrhoea<br>subjects affected / exposed<br>occurrences (all)<br><br>Nausea<br>subjects affected / exposed<br>occurrences (all) | 1 / 25 (4.00%)<br>1<br><br>2 / 25 (8.00%)<br>2<br><br>0 / 25 (0.00%)<br>0<br><br>0 / 25 (0.00%)<br>0 |  |  |
| Respiratory, thoracic and mediastinal disorders<br>Cough<br>subjects affected / exposed<br>occurrences (all)  | 1 / 25 (4.00%)<br>1  |  |  |
| Skin and subcutaneous tissue disorders<br>Dermatitis atopic<br>subjects affected / exposed<br>occurrences (all)   | 0 / 25 (0.00%)<br>0  |  |  |
| Infections and infestations<br>Nasopharyngitis<br>subjects affected / exposed<br>occurrences (all)<br><br>Upper respiratory tract infection<br>subjects affected / exposed<br>occurrences (all)<br><br>Pharyngitis  | 1 / 25 (4.00%)<br>27<br><br>3 / 25 (12.00%)<br>3   |  |  |

|                             |                |  |  |
|-----------------------------|----------------|--|--|
| subjects affected / exposed | 1 / 25 (4.00%) |  |  |
| occurrences (all)           | 1              |  |  |
| Otitis media                |                |  |  |
| subjects affected / exposed | 1 / 25 (4.00%) |  |  |
| occurrences (all)           | 1              |  |  |
| Ear infection               |                |  |  |
| subjects affected / exposed | 0 / 25 (0.00%) |  |  |
| occurrences (all)           | 0              |  |  |
| Varicella                   |                |  |  |
| subjects affected / exposed | 1 / 25 (4.00%) |  |  |
| occurrences (all)           | 1              |  |  |
| Tonsillitis                 |                |  |  |
| subjects affected / exposed | 0 / 25 (0.00%) |  |  |
| occurrences (all)           | 0              |  |  |

## More information

### Substantial protocol amendments (globally)

Were there any global substantial amendments to the protocol? Yes

| Date             | Amendment  |
|------------------|--|
| 07 March 2012    | The changes were primarily updates to/clarification of study objectives, eligibility criteria, study procedures, and use of concomitant medications and oral contraception.  |
| 08 November 2012 | <ul style="list-style-type: none"><li>- Updates to the design and conduct of the PK substudy in response to regulatory authority comments.</li><li>- Participant dosing diaries, a section defining special situations and instructions for reporting special situations, and criterion and instructions for unblinding an investigator in the event of a medical emergency were also introduced.</li><li>- Other changes included a change in medical monitor and clarification of study objectives, eligibility criteria, and procedures.</li></ul>  |
| 29 February 2016 | Due to difficulty enrolling participants, to limit exposure of participants to Placebo-TDF, and upon agreement of the Food and Drug Administration (FDA) that approximately 90 participants would be sufficient to conduct the study, the primary efficacy endpoint was changed from Week 72 to Week 48. The amendment specified that upon completing 48 weeks of blinded treatment, all participants would switch to open-label TDF for the remainder of the study, and participants who were beyond Week 48 under the previous protocol would switch to open-label TDF at Week 72 (as originally planned). All participants would receive open-label TDF until Week 192 (end of study).                              |
| 04 August 2016   | <ul style="list-style-type: none"><li>- An extension treatment period was added, whereby all participants who completed the study were offered the opportunity to continue receiving open-label TDF until the time that TDF became commercially available for participants of their age and weight in the country of their enrollment. During the extension period, participants were to attend study visits every 12 weeks. Study procedures were updated accordingly.</li><li>- Clarified the requirements for DXA scans and biochemical bone marker assessments performed at Week 192/end of study or premature discontinuation of study drug and updated the physical description of TDF 300 mg tablets.</li></ul> |

Notes:

### Interruptions (globally)

Were there any global interruptions to the trial? No

### Limitations and caveats

None reported