



## Clinical trial results:

### Bictegravir concentrations and antiviral activity in cerebrospinal fluid in HIV-1 Infected individuals

#### Summary

|                          |                   |
|--------------------------|-------------------|
| EudraCT number           | 2018-000302-39    |
| Trial protocol           | ES                |
| Global end of trial date | 25 September 2018 |

#### Results information

|                                |                 |
|--------------------------------|-----------------|
| Result version number          | v1 (current)    |
| This version publication date  | 17 October 2021 |
| First version publication date | 17 October 2021 |

#### Trial information

##### Trial identification

|                       |                |
|-----------------------|----------------|
| Sponsor protocol code | IN-ES-380-4475 |
|-----------------------|----------------|

##### Additional study identifiers

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

Notes:

##### Sponsors

|                              |  |
|------------------------------|--|
| Sponsor organisation name    | Fight AIDS and Infectious diseases foundation  |
| Sponsor organisation address | Cta de Canyet s/n, Badalona, Spain,  |
| Public contact               | Albert Tuldrà, Fight AIDS and Infectious diseases foundation, 0034 934657897, atuldra@flsida.org |
| Scientific contact           | Albert Tuldrà, Fight AIDS and Infectious diseases foundation, 0034 934657897, atuldra@flsida.org |

Notes:

##### Paediatric regulatory details

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

Notes:

## Results analysis stage

|  |                   |
|--|-------------------|
| Analysis stage                                       | Final             |
| Date of interim/final analysis                       | 05 November 2018  |
| Is this the analysis of the primary completion data? | Yes               |
| Primary completion date                              | 25 September 2018 |
| Global end of trial reached?                         | Yes               |
| Global end of trial date                             | 25 September 2018 |
| Was the trial ended prematurely?                     | No                |

Notes:

## General information about the trial

Main objective of the trial:

- To assess Bictegravir concentrations in CSF and to estimate penetration into the CNS.
- To evaluate antiviral activity of a combination of TAF/FTC/BIC in CSF.

Protection of trial subjects:

The sponsor contracted an insurance as a mandatory aspect defined in the legal framework of the country site due a different procedures performed during the clinical trial out of routine clinical practice.

Background therapy: -

Evidence for comparator: -

|   |               |
|---|---------------|
| Actual start date of recruitment                          | 09 April 2018 |
| Long term follow-up planned                               | No            |
| Independent data monitoring committee (IDMC) involvement? | No            |

Notes:

## Population of trial subjects

### Subjects enrolled per country

|                                      |           |
|--------------------------------------|-----------|
| Country: Number of subjects enrolled | Spain: 15 |
| Worldwide total number of subjects   | 15        |
| EEA total number of subjects         | 15        |

Notes:

### Subjects enrolled per age group

|   |    |
|---|----|
| In utero                                  | 0  |
| Preterm newborn - gestational age < 37 wk | 0  |
| Newborns (0-27 days)                      | 0  |
| Infants and toddlers (28 days-23 months)  | 0  |
| Children (2-11 years)                     | 0  |
| Adolescents (12-17 years)                 | 0  |
| Adults (18-64 years)                      | 15 |
| From 65 to 84 years                       | 0  |
| 85 years and over                         | 0  |

## Subject disposition

### Recruitment

Recruitment details:

Subjects who met inclusion criteria and accepted to sign the informed consent to participate will be cited for a screening visit. A total of 16 HIV-infected patients were selected at the screening phase.

Recruitment started on 23/Jul/2018, last patient recruited was on 31/Jul/2018.

### Pre-assignment

Screening details:

16 patients were screened. One patient didn't meet all inclusion criteria

### Pre-assignment period milestones

|                              |    |
|------------------------------|----|
| Number of subjects started   | 15 |
| Number of subjects completed | 15 |

### Period 1

|                              |                                |
|------------------------------|--------------------------------|
| Period 1 title               | Overall trial (overall period) |
| Is this the baseline period? | Yes                            |
| Allocation method            | Not applicable                 |
| Blinding used                | Not blinded                    |

### Arms

|           |             |
|-----------|-------------|
| Arm title | BIC/TAF/FTC |
|-----------|-------------|

Arm description:

Bictegravir/Emtricitabine/Tenofovir alafenamide fumarate

|  |  |
|--|--|
| Arm type                               | Experimental   |
| Investigational medicinal product name | Bictegravir/Emtricitabine/Tenofovir alafenamide fumarate |
| Investigational medicinal product code |  |
| Other name                             |  |
| Pharmaceutical forms                   | Tablet   |
| Routes of administration               | Oral use   |

Dosage and administration details:

50 mg of Bictegravir/ 200 mg of Emtricitabine/25 mg of Tenofovir alafenamide fumarate

| Number of subjects in period 1 | BIC/TAF/FTC |
|--------------------------------|-------------|
| Started                        | 15          |
| Completed                      | 15          |

## Baseline characteristics

### Reporting groups

|                       |                                |
|-----------------------|--------------------------------|
| Reporting group title | Overall trial (overall period) |
|-----------------------|--------------------------------|

Reporting group description: -

| Reporting group values                                | Overall trial (overall period) | Total |  |
|---|--------------------------------|-------|--|
| Number of subjects                                    | 15                             | 15    |  |
| Age categorical<br>Units: Subjects                    |                                |       |  |
| In utero  |                                | 0     |  |
| Preterm newborn infants<br>(gestational age < 37 wks) |                                | 0     |  |
| Newborns (0-27 days)                                  |                                | 0     |  |
| Infants and toddlers (28 days-23<br>months)           |                                | 0     |  |
| Children (2-11 years)                                 |                                | 0     |  |
| Adolescents (12-17 years)                             |                                | 0     |  |
| Adults (18-64 years)                                  |                                | 0     |  |
| From 65-84 years                                      |                                | 0     |  |
| 85 years and over                                     |                                | 0     |  |
| Age continuous<br>Units: years                        |                                |       |  |
| median  | 42                             |       |  |
| inter-quartile range (Q1-Q3)                          | 37 to 56                       | -     |  |
| Gender categorical<br>Units: Subjects                 |                                |       |  |
| Female  | 2                              | 2     |  |
| Male  | 13                             | 13    |  |

## End points

### End points reporting groups

|                              |  |
|------------------------------|--|
| Reporting group title        | BIC/TAF/FTC  |
| Reporting group description: | Bictegravir/Emtricitabine/Tenofovir alafenamide fumarate |

### Primary: Total Bictegravir concentrations in cerebrospinal fluid.

|                 |   |
|-----------------|---|
| End point title | Total Bictegravir concentrations in cerebrospinal fluid. <sup>[1]</sup> |
|-----------------|---|

End point description:

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

End point timeframe:

w12

Notes:

[1] - No statistical analyses have been specified for this primary end point. It is expected there is at least one statistical analysis for each primary end point.

Justification: Data reported has been a descriptive analysis, which shows the total Bictegravir concentration in CSF

| End point values                      | BIC/TAF/FTC       |  |  |  |
|---------------------------------------|-------------------|--|--|--|
| Subject group type                    | Reporting group   |  |  |  |
| Number of subjects analysed           | 15                |  |  |  |
| Units: ng/ml                          |                   |  |  |  |
| median (inter-quartile range (Q1-Q3)) | 6.9 (4.8 to 10.9) |  |  |  |

### Statistical analyses

No statistical analyses for this end point

### Primary: Unbound Bictegravir concentrations in cerebrospinal fluid.

|                 |   |
|-----------------|---|
| End point title | Unbound Bictegravir concentrations in cerebrospinal fluid. <sup>[2]</sup> |
|-----------------|---|

End point description:

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

End point timeframe:

w12

Notes:

[2] - No statistical analyses have been specified for this primary end point. It is expected there is at least one statistical analysis for each primary end point.

Justification: Data reported has been a descriptive analysis, which shows the unbound Bictegravir concentration in CSF

|                                       |                   |  |  |  |
|---------------------------------------|-------------------|--|--|--|
| <b>End point values</b>               | BIC/TAF/FTC       |  |  |  |
| Subject group type                    | Reporting group   |  |  |  |
| Number of subjects analysed           | 15                |  |  |  |
| Units: ng/ml                          |                   |  |  |  |
| median (inter-quartile range (Q1-Q3)) | 2.48 (1.6 to 3.7) |  |  |  |

### Statistical analyses

No statistical analyses for this end point

#### Primary: Total Bictegravir concentrations in blood plasma

|                 |   |
|-----------------|---|
| End point title | Total Bictegravir concentrations in blood plasma <sup>[3]</sup> |
|-----------------|---|

End point description:

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

End point timeframe:

w12

Notes:

[3] - No statistical analyses have been specified for this primary end point. It is expected there is at least one statistical analysis for each primary end point.

Justification: Data reported has been a descriptive analysis, which shows the total Bictegravir concentration in blood plasma

|                                       |                           |  |  |  |
|---------------------------------------|---------------------------|--|--|--|
| <b>End point values</b>               | BIC/TAF/FTC               |  |  |  |
| Subject group type                    | Reporting group           |  |  |  |
| Number of subjects analysed           | 15                        |  |  |  |
| Units: ng/ml                          |                           |  |  |  |
| median (inter-quartile range (Q1-Q3)) | 1837.1 (1237.2 to 2586.7) |  |  |  |

### Statistical analyses

No statistical analyses for this end point

#### Primary: Bictegravir CSF/plasma ratio

|                 |   |
|-----------------|---|
| End point title | Bictegravir CSF/plasma ratio <sup>[4]</sup> |
|-----------------|---|

End point description:

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

End point timeframe:

w12

Notes:

[4] - No statistical analyses have been specified for this primary end point. It is expected there is at least one statistical analysis for each primary end point.

Justification: Data reported has been a descriptive analysis, which shows the Bictegravir-CSF/blood plasma ratio

|                                       |                        |  |  |  |
|---------------------------------------|------------------------|--|--|--|
| <b>End point values</b>               | BIC/TAF/FTC            |  |  |  |
| Subject group type                    | Reporting group        |  |  |  |
| Number of subjects analysed           | 15                     |  |  |  |
| Units: Ratio                          |                        |  |  |  |
| median (inter-quartile range (Q1-Q3)) | 0.003 (0.002 to 0.004) |  |  |  |

### Statistical analyses

No statistical analyses for this end point

#### Primary: CSF HIV-1 RNA copies

|                 |                                     |
|-----------------|-------------------------------------|
| End point title | CSF HIV-1 RNA copies <sup>[5]</sup> |
|-----------------|-------------------------------------|

End point description:

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

End point timeframe:

w12

Notes:

[5] - No statistical analyses have been specified for this primary end point. It is expected there is at least one statistical analysis for each primary end point.

Justification: Data reported has been a descriptive analysis, which shows the HIV-1 viral load in CSF

|                             |                 |  |  |  |
|-----------------------------|-----------------|--|--|--|
| <b>End point values</b>     | BIC/TAF/FTC     |  |  |  |
| Subject group type          | Reporting group |  |  |  |
| Number of subjects analysed | 15              |  |  |  |
| Units: copies/ml            | 39              |  |  |  |

### Statistical analyses

No statistical analyses for this end point

#### Primary: HIV-1 RNA in blood plasma.

|                 |   |
|-----------------|---|
| End point title | HIV-1 RNA in blood plasma. <sup>[6]</sup> |
|-----------------|---|

End point description:

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

End point timeframe:

w12

Notes:

[6] - No statistical analyses have been specified for this primary end point. It is expected there is at least one statistical analysis for each primary end point.

Justification: Data reported has been a descriptive analysis, which shows the HIV-1 viral load in blood plasma

|                             |                 |  |  |  |
|-----------------------------|-----------------|--|--|--|
| <b>End point values</b>     | BIC/TAF/FTC     |  |  |  |
| Subject group type          | Reporting group |  |  |  |
| Number of subjects analysed | 15              |  |  |  |
| Units: copies/ml            | 39              |  |  |  |

### Statistical analyses

---

No statistical analyses for this end point

## Adverse events

---

### Adverse events information<sup>[1]</sup>

---

Timeframe for reporting adverse events:

w12

---

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

---

### Dictionary used

---

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

---

|                    |      |
|--------------------|------|
| Dictionary version | 22.1 |
|--------------------|------|

---

Frequency threshold for reporting non-serious adverse events: 1 %

---

Notes:

[1] - There are no non-serious adverse events recorded for these results. It is expected that there will be at least one non-serious adverse event reported.

Justification: Non-serious adverse events were reported

## **More information**

### **Substantial protocol amendments (globally)**

Were there any global substantial amendments to the protocol? No

---

### **Interruptions (globally)**

Were there any global interruptions to the trial? No

### **Limitations and caveats**

None reported

---

### **Online references**

<http://www.ncbi.nlm.nih.gov/pubmed/31784745>