

**Clinical trial results:****A Randomized, Double blind, Active Control Study of the Safety and Efficacy of PRX-102 compared to Agalsidase Beta on Renal Function in Patients with Fabry Disease Previously Treated With Agalsidase Beta  
Summary**

|                          |                                  |
|--------------------------|----------------------------------|
| EudraCT number           | 2016-000378-38                   |
| Trial protocol           | GB HU ES CZ NO BE NL SI IT FI FR |
| Global end of trial date | 12 October 2021                  |

**Results information**

|                                |  |
|--------------------------------|--|
| Result version number          | v2 (current)   |
| This version publication date  | 09 June 2023   |
| First version publication date | 16 March 2023  |
| Version creation reason        | <ul style="list-style-type: none"><li>• Correction of full data set</li></ul> No additional results have been added, the results for mean Lyso Gb3 and mean eGFR were removed, keeping median Lyso Gb3 and median eGFR |

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

|                       |            |
|-----------------------|------------|
| Sponsor protocol code | PB-102-F20 |
|-----------------------|------------|

**Additional study identifiers**

|                                    |             |
|------------------------------------|-------------|
| ISRCTN number                      | -           |
| ClinicalTrials.gov id (NCT number) | NCT02795676 |
| WHO universal trial number (UTN)   | -           |

Notes:

**Sponsors**

|                              |  |
|------------------------------|--|
| Sponsor organisation name    | Protalix Ltd.  |
| Sponsor organisation address | 2 Snunit Street, Carmiel, Israel, 2161401                    |
| Public contact               | Sari Alon, Protalix Ltd., +972 4-902-8100, sari@protalix.com |
| Scientific contact           | Sari Alon, Protalix Ltd., +972 4-902-8100, sari@protalix.com |

Notes:

**Paediatric regulatory details**

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

Notes:

## Results analysis stage

|  |                 |
|--|-----------------|
| Analysis stage                                       | Final           |
| Date of interim/final analysis                       | 22 July 2022    |
| Is this the analysis of the primary completion data? | Yes             |
| Primary completion date                              | 12 October 2021 |
| Global end of trial reached?                         | Yes             |
| Global end of trial date                             | 12 October 2021 |
| Was the trial ended prematurely?                     | No              |

Notes:

## General information about the trial

Main objective of the trial:

To evaluate the safety, efficacy, and pharmacokinetics (PK) of PRX-102 (pegunigalsidase alfa) compared to agalsidase beta in adult Fabry disease patients with impaired renal function

Protection of trial subjects:

The first infusions of agalsidase beta or PRX-102 were performed under controlled conditions at the investigation site.

Patients were allowed to receive subsequent infusions at home if the Investigator and the sponsor's Medical Monitor agreed that it was safe to do so, based on the patient's clinical condition and on local practices and regulations.

The administration of Agalsidase beta or PRX-102 was intravenously over 3 hours, every 2 weeks. After the first 3 months, infusion time was reduced gradually to 1.5 hours pending patient tolerability, per Principal Investigator (PI) evaluation, and Medical Monitor approval.

All patients and study staff were blind to the treatment given throughout the whole study.

Background therapy: -

Evidence for comparator: -

|   |                                     |
|---|-------------------------------------|
| Actual start date of recruitment                          | 22 August 2016                      |
| Long term follow-up planned                               | Yes                                 |
| Long term follow-up rationale                             | Safety, Efficacy, Regulatory reason |
| Long term follow-up duration                              | 60 Months                           |
| Independent data monitoring committee (IDMC) involvement? | No                                  |

Notes:

## Population of trial subjects

### Subjects enrolled per country

|                                      |                   |
|--------------------------------------|-------------------|
| Country: Number of subjects enrolled | United States: 52 |
| Country: Number of subjects enrolled | Netherlands: 5    |
| Country: Number of subjects enrolled | Norway: 2         |
| Country: Number of subjects enrolled | Slovenia: 2       |
| Country: Number of subjects enrolled | Spain: 3          |
| Country: Number of subjects enrolled | United Kingdom: 5 |
| Country: Number of subjects enrolled | Czechia: 1        |
| Country: Number of subjects enrolled | Finland: 1        |
| Country: Number of subjects enrolled | France: 3         |
| Country: Number of subjects enrolled | Hungary: 1        |
| Country: Number of subjects enrolled | Italy: 3          |

|                                    |    |
|------------------------------------|----|
| Worldwide total number of subjects | 78 |
| EEA total number of subjects       | 21 |

Notes:

| <b>Subjects enrolled per age group</b>    |    |
|---|----|
| 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)                      | 78 |
| From 65 to 84 years                       | 0  |
| 85 years and over                         | 0  |

## Subject disposition

### Recruitment

Recruitment details:

Symptomatic adult Fabry patients who had been taking agalsidase beta for at least 1 year and on a stable dose for at least 6 months. No more than 50% could be female. Screening eGFR (CKD-EPI) 40 to 120 mL/min/1.73 m<sup>2</sup>; Screening linear eGFR slope more negative than -2 mL/min/1.73 m<sup>2</sup>/year based on at least 3 values over ~1 year.

### Pre-assignment

Screening details:

Of the 78 randomized patients, 53 were assigned to the PRX-102 arm and 25 to the agalsidase beta arm. One PRX-102 patient withdrew consent before receiving the study product; accordingly, 77 patients were treated, 52 in PRX-102 arm and 25 in agalsidase beta arm.

### Pre-assignment period milestones

|                              |    |
|------------------------------|----|
| Number of subjects started   | 78 |
| Number of subjects completed | 77 |

### Pre-assignment subject non-completion reasons

|                            |                                 |
|----------------------------|---------------------------------|
| Reason: Number of subjects | Consent withdrawn by subject: 1 |
|----------------------------|---------------------------------|

### Period 1

|                              |   |
|------------------------------|---|
| Period 1 title               | Overall trial (overall period)                      |
| Is this the baseline period? | Yes   |
| Allocation method            | Randomised - controlled                             |
| Blinding used                | Double blind  |
| Roles blinded                | Subject, Investigator, Monitor, Data analyst, Carer |

Blinding implementation details:

The infusions were prepared by an unblinded pharmacist or nurse at the site or at a central pharmacy (for home care), resulting in identical infusion bag appearance and blinded labelling prior to administration. Both the patients and the staff members administering the treatments were blinded as to what the infusion bag contained.

### Arms

|                              |     |
|------------------------------|-----|
| Are arms mutually exclusive? | Yes |
|------------------------------|-----|

|                  |                              |
|------------------|------------------------------|
| <b>Arm title</b> | Pegunigalsidase alfa ITT set |
|------------------|------------------------------|

Arm description:

Pegunigalsidase alfa administered as an intravenous infusion every 2 weeks, at a dosage of 1 mg/kg

|  |                                       |
|--|---------------------------------------|
| Arm type                               | Experimental                          |
| Investigational medicinal product name | Pegunigalsidase alfa                  |
| Investigational medicinal product code |                                       |
| Other name                             | PRX-102                               |
| Pharmaceutical forms                   | Concentrate for solution for infusion |
| Routes of administration               | Intravenous use                       |

Dosage and administration details:

1 mg/kg administered as an intravenous infusion every 2 weeks for up to 24 months

|                  |                         |
|------------------|-------------------------|
| <b>Arm title</b> | Agalsidase beta ITT set |
|------------------|-------------------------|

Arm description:

Agalsidase beta administered as an intravenous infusion every 2 weeks, at a dosage of 1 mg/kg

|          |                   |
|----------|-------------------|
| Arm type | Active comparator |
|----------|-------------------|

|  |  |
|--|--|
| Investigational medicinal product name | agalsidase beta                                  |
| Investigational medicinal product code |  |
| Other name                             | Fabrazyme  |
| Pharmaceutical forms                   | Powder for concentrate for solution for infusion |
| Routes of administration               | Intravenous use                                  |

Dosage and administration details:

1 mg/kg administered as an intravenous infusion every 2 weeks for up to 24 months

| <b>Number of subjects in period 1<sup>[1]</sup></b> | Pegunigalsidase alfa<br>ITT set | Agalsidase beta ITT<br>set |
|---|---------------------------------|----------------------------|
| Started   | 52                              | 25                         |
| Completed   | 48                              | 24                         |
| Not completed                                       | 4                               | 1                          |
| Consent withdrawn by subject                        | 2                               | 1                          |
| Adverse event, non-fatal                            | 2                               | -                          |

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: The number of subjects reported in the baseline period (77) are not the same as the worldwide number enrolled (78), since one enrolled patient withdrew consent before receiving study drug, and therefore is not counted in the baseline period

## Baseline characteristics

### Reporting groups

|  |                              |
|--|------------------------------|
| Reporting group title  | Pegunigalsidase alfa ITT set |
| Reporting group description:<br>Pegunigalsidase alfa administered as an intravenous infusion every 2 weeks, at a dosage of 1 mg/kg |                              |
| Reporting group title  | Agalsidase beta ITT set      |
| Reporting group description:<br>Agalsidase beta administered as an intravenous infusion every 2 weeks, at a dosage of 1 mg/kg      |                              |

| Reporting group values                | Pegunigalsidase alfa ITT set | Agalsidase beta ITT set | Total |
|---------------------------------------|------------------------------|-------------------------|-------|
| Number of subjects                    | 52                           | 25                      | 77    |
| Age categorical<br>Units: Subjects    |                              |                         |       |
| Adults (18-64 years)                  | 52                           | 25                      | 77    |
| Age continuous<br>Units: years        |                              |                         |       |
| arithmetic mean                       | 43.9                         | 45.2                    |       |
| standard deviation                    | ± 10.2                       | ± 9.6                   | -     |
| Gender categorical<br>Units: Subjects |                              |                         |       |
| Female                                | 23                           | 7                       | 30    |
| Male                                  | 29                           | 18                      | 47    |

## End points

### End points reporting groups

|  |                              |
|--|------------------------------|
| Reporting group title  | Pegunigalsidase alfa ITT set |
| Reporting group description:<br>Pegunigalsidase alfa administered as an intravenous infusion every 2 weeks, at a dosage of 1 mg/kg |                              |
| Reporting group title  | Agalsidase beta ITT set      |
| Reporting group description:<br>Agalsidase beta administered as an intravenous infusion every 2 weeks, at a dosage of 1 mg/kg      |                              |

### Primary: Annualized change (slope) in estimated glomerular filtration rate (eGFR)

|   |  |
|---|--|
| End point title   | Annualized change (slope) in estimated glomerular filtration rate (eGFR) |
| End point description:<br>The individual annualized mean change (slope) in eGFR (mL/min/1.73 m <sup>2</sup> /year) is an estimate of the individual patient's annualized change in eGFR, which is derived from the eGFR (by Chronic Kidney Disease Epidemiology Collaboration [CKD-EPI formula, 2009] assessments over time, for up to 24 months. |  |
| End point type  | Primary  |
| End point timeframe:<br>24 Months   |  |

| End point values                        | Pegunigalsidase alfa ITT set | Agalsidase beta ITT set   |  |  |
|---|------------------------------|---------------------------|--|--|
| Subject group type                      | Reporting group              | Reporting group           |  |  |
| Number of subjects analysed             | 51                           | 25                        |  |  |
| Units: mL/min/1.73 m <sup>2</sup> /year |                              |                           |  |  |
| median (confidence interval 95%)        | -2.514 (-3.788 to -1.240)    | -2.155 (-3.805 to -0.505) |  |  |

### Statistical analyses

|   |  |
|---|--|
| Statistical analysis title  | eGFR slope comparison                                  |
| Statistical analysis description:<br>The primary efficacy analysis compared eGFR slope between the treatment arms using a 2-stage model with quantile regression.<br>At the 1st stage, the individual annualized change (slope) in eGFR was estimated for each patient using a linear regression model.<br>At the 2nd stage, the annualized change (slope) of the eGFR between the two treatment arms were compared using quantile regression estimating the median slopes. |  |
| Comparison groups   | Pegunigalsidase alfa ITT set v Agalsidase beta ITT set |

|   |                                  |
|---|----------------------------------|
| Number of subjects included in analysis | 76                               |
| Analysis specification                  | Pre-specified                    |
| Analysis type                           | non-inferiority <sup>[1]</sup>   |
| Parameter estimate                      | Median difference (final values) |
| Point estimate                          | -0.359                           |
| Confidence interval                     |                                  |
| level                                   | 95 %                             |
| sides                                   | 2-sided                          |
| lower limit                             | -2.444                           |
| upper limit                             | 1.726                            |

Notes:

[1] - The dependent variable was the slope of each individual patient and the model included intercept and treatment arm.

Non-inferiority was to be declared if the lower bound of the confidence interval for the treatment difference (PRX-102 minus agalsidase beta) was greater or equal to -3.0 mL/min/1.73 m<sup>2</sup>/year.

### Secondary: Estimated Glomerular Filtration rate (eGFR)

|   |   |
|---|---|
| End point title   | Estimated Glomerular Filtration rate (eGFR) |
| End point description:  |   |
| eGFR was calculated based on measured serum creatinine levels according to the CKD-EPI formula. |   |
| End point type  | Secondary                                   |
| End point timeframe:  |   |
| 24 months   |   |

| End point values                  | Pegunigalsidas<br>e alfa ITT set | Agalsidase beta<br>ITT set |  |  |
|-----------------------------------|----------------------------------|----------------------------|--|--|
| Subject group type                | Reporting group                  | Reporting group            |  |  |
| Number of subjects analysed       | 52                               | 25                         |  |  |
| Units: mL/min/1.73 m <sup>2</sup> |                                  |                            |  |  |
| median (full range (min-max))     |                                  |                            |  |  |
| Baseline                          | 73.45 (30.2 to 125.9)            | 74.85 (34.1 to 107.6)      |  |  |
| Month 24                          | 69.35 (27.6 to 113.7)            | 74.48 (24.4 to 114.8)      |  |  |
| Change from Baseline to Month 24  | -2.39 (-36.9 to 21.8)            | -3.20 (-18.0 to 16.8)      |  |  |

### Statistical analyses

No statistical analyses for this end point

### Secondary: Plasma lyso-Gb3

|  |                 |
|--|-----------------|
| End point title  | Plasma lyso-Gb3 |
| End point description:   |                 |
| Globotriaosylsphingosine (Lyso-Gb3) is Fabry disease specific biomarker measured in the plasma (nanomole/liter, nM). |                 |
| End point type   | Secondary       |
| End point timeframe:   |                 |
| 24 Months  |                 |



| End point values                 | Pegunigalsidas<br>e alfa ITT set | Agalsidase beta<br>ITT set |  |  |
|----------------------------------|----------------------------------|----------------------------|--|--|
| Subject group type               | Reporting group                  | Reporting group            |  |  |
| Number of subjects analysed      | 52                               | 25                         |  |  |
| Units: nM                        |                                  |                            |  |  |
| median (full range (min-max))    |                                  |                            |  |  |
| Baseline                         | 15.20 (0.8 to<br>143.9)          | 17.60 (2.1 to<br>142.0)    |  |  |
| Month 24                         | 18.80 (2.4 to<br>139.4)          | 15.30 (1.5 to<br>71.2)     |  |  |
| Change from Baseline to Month 24 | 1.15 (-32.2 to<br>32.7)          | -1.50 (-102.3<br>to 2.4)   |  |  |

### Statistical analyses

No statistical analyses for this end point

### Secondary: Short Form Brief Pain Inventory (BPI)

|  |                                       |
|--|---------------------------------------|
| End point title  | Short Form Brief Pain Inventory (BPI) |
| End point description:   |                                       |
| The Short Form Brief Pain Inventory (BPI) questioner is self-completed by patients regarding pain severity and interference.       |                                       |
| Descriptive statistics summarizes the findings for the change from baseline at Week 104 for "Pain at Its Worst in Last 24 Hours" . |                                       |
| The severity of various aspects of pain scored on a scale of 0 to 10 (no pain / pain as bad as you can imagine).                   |                                       |
| End point type   | Secondary                             |
| End point timeframe:   |                                       |
| 24 Month   |                                       |

| End point values                 | Pegunigalsidas<br>e alfa ITT set | Agalsidase beta<br>ITT set |  |  |
|----------------------------------|----------------------------------|----------------------------|--|--|
| Subject group type               | Reporting group                  | Reporting group            |  |  |
| Number of subjects analysed      | 52                               | 25                         |  |  |
| Units: score                     |                                  |                            |  |  |
| arithmetic mean (standard error) |                                  |                            |  |  |
| Baseline                         | 3.5 (± 0.4)                      | 2.6 (± 0.6)                |  |  |
| Month 24                         | 3.3 (± 0.5)                      | 3.0 (± 0.7)                |  |  |
| Change from Baseline to Month 24 | -0.1 (± 0.5)                     | 0.6 (± 0.6)                |  |  |

### Statistical analyses

No statistical analyses for this end point

### Secondary: Mainz Severity Score Index (MSSI)

|                 |                                   |
|-----------------|-----------------------------------|
| End point title | Mainz Severity Score Index (MSSI) |
|-----------------|-----------------------------------|

End point description:

The Mainz Severity Score Index (MSSI), is an instrument that is specifically designed to measure the severity of Fabry disease signs/symptoms and to monitor the clinical course of the disease. MSSI is administered by the investigator, yields scores for general, neurological, cardiovascular, renal, and overall assessments.

An overall score of less than 20 points is considered mild, 20 to 40 is considered moderate, and greater than 40 is considered severe signs and symptoms of Fabry disease.

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

End point timeframe:

24 Month

| End point values                 | Pegunigalsidas<br>e alfa ITT set | Agalsidase beta<br>ITT set |  |  |
|----------------------------------|----------------------------------|----------------------------|--|--|
| Subject group type               | Reporting group                  | Reporting group            |  |  |
| Number of subjects analysed      | 52                               | 25                         |  |  |
| Units: score                     |                                  |                            |  |  |
| arithmetic mean (standard error) |                                  |                            |  |  |
| Baseline                         | 23.18 (± 1.42)                   | 25.16 (± 2.14)             |  |  |
| Month 24                         | 22.11 (± 1.80)                   | 27.09 (± 2.30)             |  |  |
| Change from Baseline to Month 24 | -2.07 (± 0.77)                   | 2.04 (± 1.10)              |  |  |

### Statistical analyses

No statistical analyses for this end point

### Secondary: Urine Protein/Creatinine Ratio (UPCR)

|                 |                                       |
|-----------------|---------------------------------------|
| End point title | Urine Protein/Creatinine Ratio (UPCR) |
|-----------------|---------------------------------------|

End point description:

The UPCR provides an estimate of protein excretion in urine, is used as an indicator of the extent of chronic kidney disease, and was classified into three categories:

1)  $UPCR \leq 0.5$  gr/gr, 2)  $0.5\text{gr/gr} < UPCR < 1\text{gr/gr}$ , 3)  $1\text{gr/gr} \leq UPCR$ . Presented as the percent of patients (%) in each category at baseline and Month 24.

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

End point timeframe:

24 months

| End point values                | Pegunigalsidas<br>e alfa ITT set | Agalsidase beta<br>ITT set |  |  |
|---------------------------------|----------------------------------|----------------------------|--|--|
| Subject group type              | Reporting group                  | Reporting group            |  |  |
| Number of subjects analysed     | 52                               | 25                         |  |  |
| Units: percent of patients (%)  |                                  |                            |  |  |
| Baseline: UPCR $\leq$ 0.5 gr/gr | 69                               | 80                         |  |  |
| Month 24: UPCR $\leq$ 0.5 gr/gr | 76                               | 75                         |  |  |
| Baseline: 0.5 < UPCR < 1 gr/gr  | 17                               | 8                          |  |  |
| Month 24: 0.5 < UPCR < 1 gr/gr  | 11                               | 8                          |  |  |
| Baseline: UPCR $\geq$ 1 gr/gr   | 14                               | 12                         |  |  |
| Month 24: UPCR $\geq$ 1 gr/gr   | 13                               | 17                         |  |  |

## Statistical analyses

No statistical analyses for this end point

## Secondary: Left Ventricular Mass Index (LVMI) with hypertrophy at baseline

|                 |   |
|-----------------|---|
| End point title | Left Ventricular Mass Index (LVMI) with hypertrophy at baseline |
|-----------------|---|

End point description:

Left Ventricular Mass Index (LVMI) based on cardiac MRI for patients with hypertrophy at baseline (for males hypertrophy is above 91 g/m<sup>2</sup> and for females above 77 g/m<sup>2</sup>).

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

End point timeframe:

24 Months

| End point values                 | Pegunigalsidas<br>e alfa ITT set | Agalsidase beta<br>ITT set   |  |  |
|----------------------------------|----------------------------------|------------------------------|--|--|
| Subject group type               | Reporting group                  | Reporting group              |  |  |
| Number of subjects analysed      | 12                               | 9                            |  |  |
| Units: g/m <sup>2</sup>          |                                  |                              |  |  |
| median (full range (min-max))    |                                  |                              |  |  |
| Baseline                         | 108.005 (81.77<br>to 168.42)     | 103.030 (78.91<br>to 147.33) |  |  |
| Month 24                         | 118.130 (87.78<br>to 150.67)     | 121.380 (63.78<br>to 187.23) |  |  |
| Change from Baseline to Month 24 | -4.790 (-24.42<br>to 21.55)      | 4.120 (-28.41<br>to 41.10)   |  |  |

## Statistical analyses

No statistical analyses for this end point

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**Secondary: Left Ventricular Mass Index (LVMI) without hypertrophy at baseline**

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|                 |  |
|-----------------|--|
| End point title | Left Ventricular Mass Index (LVMI) without hypertrophy at baseline |
|-----------------|--|

End point description:

Left Ventricular Mass Index (LVMI) based on cardiac MRI for patients without hypertrophy at baseline (for males hypertrophy is above 91 g/m<sup>2</sup> and for females above 77 g/m<sup>2</sup>).

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

End point timeframe:

24 Months

---

| End point values                 | Pegunigalsidas<br>e alfa ITT set | Agalsidase beta<br>ITT set |  |  |
|----------------------------------|----------------------------------|----------------------------|--|--|
| Subject group type               | Reporting group                  | Reporting group            |  |  |
| Number of subjects analysed      | 28                               | 13                         |  |  |
| Units: g/m <sup>2</sup>          |                                  |                            |  |  |
| median (full range (min-max))    |                                  |                            |  |  |
| Baseline                         | 55.555 (33.81<br>to 89.24)       | 66.040 (35.74<br>to 86.92) |  |  |
| Month 24                         | 52.160 (35.80<br>to 100.01)      | 62.520 (35.38<br>to 88.48) |  |  |
| Change from Baseline to Month 24 | 1.990 (-29.37<br>to 18.37)       | 0.515 (-13.69<br>to 11.15) |  |  |

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**Statistical analyses**

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No statistical analyses for this end point

## Adverse events

### Adverse events information

Timeframe for reporting adverse events:

Adverse events (AEs) were collected at every visit.

Adverse event reporting additional description:

A treatment-emergent adverse event (TEAE) is defined as any AE occurring after the start of the first infusion.

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

### Dictionary used

|                    |        |
|--------------------|--------|
| Dictionary name    | MedDRA |
| Dictionary version | 19     |

### Reporting groups

|                       |  |
|-----------------------|--|
| Reporting group title | Patients in the pegunigalsidase alfa arm |
|-----------------------|--|

Reporting group description:

Events occurring from the start of the study treatment to the final dose were defined as treatment-emergent adverse events (TEAEs)

|                       |                                     |
|-----------------------|-------------------------------------|
| Reporting group title | Patients in the agalsidase beta arm |
|-----------------------|-------------------------------------|

Reporting group description:

Events occurring from the start of the study treatment to the final dose were defined as treatment-emergent adverse events (TEAEs)

| <b>Serious adverse events</b>                     | Patients in the<br>pegunigalsidase alfa<br>arm | Patients in the<br>agalsidase beta arm |  |
|---|--|--|--|
| Total subjects affected by serious adverse events |  |  |  |
| subjects affected / exposed                       | 8 / 52 (15.38%)                                | 6 / 25 (24.00%)                        |  |
| number of deaths (all causes)                     | 0  | 0                                      |  |
| number of deaths resulting from adverse events    | 0  | 0                                      |  |
| Vascular disorders                                |  |  |  |
| Aortic stenosis                                   |  |  |  |
| subjects affected / exposed                       | 1 / 52 (1.92%)                                 | 0 / 25 (0.00%)                         |  |
| occurrences causally related to treatment / all   | 0 / 1  | 0 / 0                                  |  |
| deaths causally related to treatment / all        | 0 / 0  | 0 / 0                                  |  |
| Venous thrombosis limb                            |  |  |  |
| subjects affected / exposed                       | 1 / 52 (1.92%)                                 | 0 / 25 (0.00%)                         |  |
| occurrences causally related to treatment / all   | 0 / 1  | 0 / 0                                  |  |
| deaths causally related to treatment / all        | 0 / 0  | 0 / 0                                  |  |
| Surgical and medical procedures                   |  |  |  |
| Medical device battery replacement                |  |  |  |

|  |                |                |  |
|--|----------------|----------------|--|
| subjects affected / exposed                          | 1 / 52 (1.92%) | 0 / 25 (0.00%) |  |
| occurrences causally related to treatment / all      | 0 / 1          | 0 / 0          |  |
| deaths causally related to treatment / all           | 0 / 0          | 0 / 0          |  |
| Nephrectomy  |                |                |  |
| subjects affected / exposed                          | 1 / 52 (1.92%) | 0 / 25 (0.00%) |  |
| occurrences causally related to treatment / all      | 0 / 1          | 0 / 0          |  |
| deaths causally related to treatment / all           | 0 / 0          | 0 / 0          |  |
| General disorders and administration site conditions |                |                |  |
| Hypothermia  |                |                |  |
| subjects affected / exposed                          | 1 / 52 (1.92%) | 0 / 25 (0.00%) |  |
| occurrences causally related to treatment / all      | 0 / 1          | 0 / 0          |  |
| deaths causally related to treatment / all           | 0 / 0          | 0 / 0          |  |
| Chest pain   |                |                |  |
| subjects affected / exposed                          | 0 / 52 (0.00%) | 2 / 25 (8.00%) |  |
| occurrences causally related to treatment / all      | 0 / 0          | 0 / 2          |  |
| deaths causally related to treatment / all           | 0 / 0          | 0 / 0          |  |
| Immune system disorders                              |                |                |  |
| Hypersensitivity                                     |                |                |  |
| subjects affected / exposed                          | 1 / 52 (1.92%) | 0 / 25 (0.00%) |  |
| occurrences causally related to treatment / all      | 0 / 0          | 0 / 0          |  |
| deaths causally related to treatment / all           | 0 / 0          | 0 / 0          |  |
| Respiratory, thoracic and mediastinal disorders      |                |                |  |
| Acute respiratory failure                            |                |                |  |
| subjects affected / exposed                          | 0 / 52 (0.00%) | 1 / 25 (4.00%) |  |
| occurrences causally related to treatment / all      | 0 / 0          | 0 / 1          |  |
| deaths causally related to treatment / all           | 0 / 0          | 0 / 0          |  |
| Chronic obstructive pulmonary disease                |                |                |  |
| subjects affected / exposed                          | 0 / 52 (0.00%) | 1 / 25 (4.00%) |  |
| occurrences causally related to treatment / all      | 0 / 0          | 0 / 1          |  |
| deaths causally related to treatment / all           | 0 / 0          | 0 / 0          |  |
| Psychiatric disorders                                |                |                |  |
| Suicidal ideation                                    |                |                |  |

|   |                |                |  |
|---|----------------|----------------|--|
| subjects affected / exposed                     | 0 / 52 (0.00%) | 1 / 25 (4.00%) |  |
| occurrences causally related to treatment / all | 0 / 0          | 0 / 1          |  |
| deaths causally related to treatment / all      | 0 / 0          | 0 / 0          |  |
| Investigations                                  |                |                |  |
| Hepatic enzyme increased                        |                |                |  |
| subjects affected / exposed                     | 1 / 52 (1.92%) | 0 / 25 (0.00%) |  |
| occurrences causally related to treatment / all | 0 / 1          | 0 / 0          |  |
| deaths causally related to treatment / all      | 0 / 0          | 0 / 0          |  |
| Injury, poisoning and procedural complications  |                |                |  |
| Contusion                                       |                |                |  |
| subjects affected / exposed                     | 1 / 52 (1.92%) | 0 / 25 (0.00%) |  |
| occurrences causally related to treatment / all | 0 / 1          | 0 / 0          |  |
| deaths causally related to treatment / all      | 0 / 0          | 0 / 0          |  |
| Femur fracture                                  |                |                |  |
| subjects affected / exposed                     | 1 / 52 (1.92%) | 0 / 25 (0.00%) |  |
| occurrences causally related to treatment / all | 0 / 1          | 0 / 0          |  |
| deaths causally related to treatment / all      | 0 / 0          | 0 / 0          |  |
| Cardiac disorders                               |                |                |  |
| Atrioventricular block second degree            |                |                |  |
| subjects affected / exposed                     | 1 / 52 (1.92%) | 0 / 25 (0.00%) |  |
| occurrences causally related to treatment / all | 0 / 1          | 0 / 0          |  |
| deaths causally related to treatment / all      | 0 / 0          | 0 / 0          |  |
| Atrial fibrillation                             |                |                |  |
| subjects affected / exposed                     | 0 / 52 (0.00%) | 1 / 25 (4.00%) |  |
| occurrences causally related to treatment / all | 0 / 0          | 0 / 1          |  |
| deaths causally related to treatment / all      | 0 / 0          | 0 / 0          |  |
| Tachycardia                                     |                |                |  |
| subjects affected / exposed                     | 0 / 52 (0.00%) | 1 / 25 (4.00%) |  |
| occurrences causally related to treatment / all | 0 / 0          | 0 / 1          |  |
| deaths causally related to treatment / all      | 0 / 0          | 0 / 0          |  |
| Ventricular tachycardia                         |                |                |  |
| subjects affected / exposed                     | 0 / 52 (0.00%) | 1 / 25 (4.00%) |  |
| occurrences causally related to treatment / all | 0 / 0          | 0 / 1          |  |
| deaths causally related to treatment / all      | 0 / 0          | 0 / 0          |  |

|   |                |                |  |
|---|----------------|----------------|--|
| Nervous system disorders                        |                |                |  |
| Altered state of consciousness                  |                |                |  |
| subjects affected / exposed                     | 0 / 52 (0.00%) | 1 / 25 (4.00%) |  |
| occurrences causally related to treatment / all | 0 / 0          | 0 / 1          |  |
| deaths causally related to treatment / all      | 0 / 0          | 0 / 0          |  |
| Gastrointestinal disorders                      |                |                |  |
| Protein-losing gastroenteropathy                |                |                |  |
| subjects affected / exposed                     | 1 / 52 (1.92%) | 0 / 25 (0.00%) |  |
| occurrences causally related to treatment / all | 0 / 1          | 0 / 0          |  |
| deaths causally related to treatment / all      | 0 / 0          | 0 / 0          |  |
| Renal and urinary disorders                     |                |                |  |
| Acute kidney injury                             |                |                |  |
| subjects affected / exposed                     | 1 / 52 (1.92%) | 0 / 25 (0.00%) |  |
| occurrences causally related to treatment / all | 0 / 1          | 0 / 0          |  |
| deaths causally related to treatment / all      | 0 / 0          | 0 / 0          |  |
| Infections and infestations                     |                |                |  |
| Bronchitis                                      |                |                |  |
| subjects affected / exposed                     | 1 / 52 (1.92%) | 0 / 25 (0.00%) |  |
| occurrences causally related to treatment / all | 0 / 0          | 0 / 0          |  |
| deaths causally related to treatment / all      | 0 / 0          | 0 / 0          |  |
| Pneumonia                                       |                |                |  |
| subjects affected / exposed                     | 0 / 52 (0.00%) | 1 / 25 (4.00%) |  |
| occurrences causally related to treatment / all | 0 / 0          | 0 / 1          |  |
| deaths causally related to treatment / all      | 0 / 0          | 0 / 0          |  |
| Sepsis  |                |                |  |
| subjects affected / exposed                     | 0 / 52 (0.00%) | 1 / 25 (4.00%) |  |
| occurrences causally related to treatment / all | 0 / 0          | 0 / 1          |  |
| deaths causally related to treatment / all      | 0 / 0          | 0 / 0          |  |
| Metabolism and nutrition disorders              |                |                |  |
| Dehydration                                     |                |                |  |
| subjects affected / exposed                     | 1 / 52 (1.92%) | 0 / 25 (0.00%) |  |
| occurrences causally related to treatment / all | 0 / 1          | 0 / 0          |  |
| deaths causally related to treatment / all      | 0 / 0          | 0 / 0          |  |



| <b>Non-serious adverse events</b>                     | Patients in the pegunigalsidase alfa arm | Patients in the agalsidase beta arm |  |
|---|--|-------------------------------------|--|
| Total subjects affected by non-serious adverse events |  |                                     |  |
| subjects affected / exposed                           | 47 / 52 (90.38%)                         | 24 / 25 (96.00%)                    |  |
| Vascular disorders                                    |  |                                     |  |
| Hypertension  |  |                                     |  |
| subjects affected / exposed                           | 3 / 52 (5.77%)                           | 1 / 25 (4.00%)                      |  |
| occurrences (all)                                     | 4  | 1                                   |  |
| Hypotension   |  |                                     |  |
| subjects affected / exposed                           | 0 / 52 (0.00%)                           | 2 / 25 (8.00%)                      |  |
| occurrences (all)                                     | 0  | 2                                   |  |
| General disorders and administration site conditions  |  |                                     |  |
| Fatigue   |  |                                     |  |
| subjects affected / exposed                           | 9 / 52 (17.31%)                          | 4 / 25 (16.00%)                     |  |
| occurrences (all)                                     | 10                                       | 6                                   |  |
| Pyrexia   |  |                                     |  |
| subjects affected / exposed                           | 5 / 52 (9.62%)                           | 3 / 25 (12.00%)                     |  |
| occurrences (all)                                     | 5  | 4                                   |  |
| Oedema peripheral                                     |  |                                     |  |
| subjects affected / exposed                           | 4 / 52 (7.69%)                           | 3 / 25 (12.00%)                     |  |
| occurrences (all)                                     | 9  | 3                                   |  |
| Infusion site extravasation                           |  |                                     |  |
| subjects affected / exposed                           | 3 / 52 (5.77%)                           | 0 / 25 (0.00%)                      |  |
| occurrences (all)                                     | 4  | 0                                   |  |
| Pain  |  |                                     |  |
| subjects affected / exposed                           | 2 / 52 (3.85%)                           | 3 / 25 (12.00%)                     |  |
| occurrences (all)                                     | 3  | 5                                   |  |
| Chest pain  |  |                                     |  |
| subjects affected / exposed                           | 1 / 52 (1.92%)                           | 3 / 25 (12.00%)                     |  |
| occurrences (all)                                     | 1  | 3                                   |  |
| Influenza like illness                                |  |                                     |  |
| subjects affected / exposed                           | 1 / 52 (1.92%)                           | 3 / 25 (12.00%)                     |  |
| occurrences (all)                                     | 1  | 4                                   |  |
| Malaise   |  |                                     |  |
| subjects affected / exposed                           | 1 / 52 (1.92%)                           | 2 / 25 (8.00%)                      |  |
| occurrences (all)                                     | 1  | 3                                   |  |

|  |                      |                      |  |
|--|----------------------|----------------------|--|
| Chest discomfort<br>subjects affected / exposed<br>occurrences (all)   | 0 / 52 (0.00%)<br>0  | 2 / 25 (8.00%)<br>3  |  |
| Immune system disorders<br>Seasonal allergy<br>subjects affected / exposed<br>occurrences (all)                | 4 / 52 (7.69%)<br>5  | 1 / 25 (4.00%)<br>2  |  |
| Hypersensitivity<br>subjects affected / exposed<br>occurrences (all)   | 2 / 52 (3.85%)<br>2  | 2 / 25 (8.00%)<br>2  |  |
| Respiratory, thoracic and mediastinal disorders<br>Cough<br>subjects affected / exposed<br>occurrences (all)   | 6 / 52 (11.54%)<br>7 | 5 / 25 (20.00%)<br>7 |  |
| Upper respiratory tract congestion<br>subjects affected / exposed<br>occurrences (all)                         | 4 / 52 (7.69%)<br>6  | 0 / 25 (0.00%)<br>0  |  |
| Nasal congestion<br>subjects affected / exposed<br>occurrences (all)   | 3 / 52 (5.77%)<br>3  | 1 / 25 (4.00%)<br>1  |  |
| Oropharyngeal pain<br>subjects affected / exposed<br>occurrences (all)   | 3 / 52 (5.77%)<br>4  | 3 / 25 (12.00%)<br>3 |  |
| Rhinorrhoea<br>subjects affected / exposed<br>occurrences (all)  | 1 / 52 (1.92%)<br>1  | 3 / 25 (12.00%)<br>3 |  |
| Product issues<br>Device occlusion<br>subjects affected / exposed<br>occurrences (all)                         | 0 / 52 (0.00%)<br>0  | 2 / 25 (8.00%)<br>2  |  |
| Investigations<br>Urine protein/creatinine ratio increased<br>subjects affected / exposed<br>occurrences (all) | 3 / 52 (5.77%)<br>5  | 0 / 25 (0.00%)<br>0  |  |
| Blood creatine increased   |                      |                      |  |

|  |                     |                      |  |
|--|---------------------|----------------------|--|
| subjects affected / exposed<br>occurrences (all) | 2 / 52 (3.85%)<br>5 | 4 / 25 (16.00%)<br>5 |  |
| Injury, poisoning and procedural complications   |                     |                      |  |
| Contusion  |                     |                      |  |
| subjects affected / exposed                      | 1 / 52 (1.92%)      | 2 / 25 (8.00%)       |  |
| occurrences (all)                                | 1                   | 3                    |  |
| Fall   |                     |                      |  |
| subjects affected / exposed                      | 1 / 52 (1.92%)      | 3 / 25 (12.00%)      |  |
| occurrences (all)                                | 1                   | 4                    |  |
| Thermal burn                                     |                     |                      |  |
| subjects affected / exposed                      | 1 / 52 (1.92%)      | 2 / 25 (8.00%)       |  |
| occurrences (all)                                | 1                   | 4                    |  |
| Wound  |                     |                      |  |
| subjects affected / exposed                      | 0 / 52 (0.00%)      | 2 / 25 (8.00%)       |  |
| occurrences (all)                                | 0                   | 2                    |  |
| Cardiac disorders                                |                     |                      |  |
| Atrial fibrillation                              |                     |                      |  |
| subjects affected / exposed                      | 4 / 52 (7.69%)      | 1 / 25 (4.00%)       |  |
| occurrences (all)                                | 5                   | 3                    |  |
| Palpitations                                     |                     |                      |  |
| subjects affected / exposed                      | 3 / 52 (5.77%)      | 2 / 25 (8.00%)       |  |
| occurrences (all)                                | 4                   | 2                    |  |
| Cardiomyopathy                                   |                     |                      |  |
| subjects affected / exposed                      | 0 / 52 (0.00%)      | 2 / 25 (8.00%)       |  |
| occurrences (all)                                | 0                   | 2                    |  |
| Nervous system disorders                         |                     |                      |  |
| Headache   |                     |                      |  |
| subjects affected / exposed                      | 11 / 52 (21.15%)    | 5 / 25 (20.00%)      |  |
| occurrences (all)                                | 19                  | 9                    |  |
| Dizziness  |                     |                      |  |
| subjects affected / exposed                      | 6 / 52 (11.54%)     | 2 / 25 (8.00%)       |  |
| occurrences (all)                                | 8                   | 2                    |  |
| Neuralgia  |                     |                      |  |
| subjects affected / exposed                      | 4 / 52 (7.69%)      | 0 / 25 (0.00%)       |  |
| occurrences (all)                                | 5                   | 0                    |  |
| Neuropathy peripheral                            |                     |                      |  |

|   |                        |                       |  |
|---|------------------------|-----------------------|--|
| subjects affected / exposed<br>occurrences (all)  | 3 / 52 (5.77%)<br>3    | 0 / 25 (0.00%)<br>0   |  |
| Sciatica<br>subjects affected / exposed<br>occurrences (all)  | 3 / 52 (5.77%)<br>5    | 0 / 25 (0.00%)<br>0   |  |
| Paraesthesia<br>subjects affected / exposed<br>occurrences (all)                                    | 2 / 52 (3.85%)<br>2    | 4 / 25 (16.00%)<br>8  |  |
| Cerebral infarction<br>subjects affected / exposed<br>occurrences (all)                             | 0 / 52 (0.00%)<br>0    | 2 / 25 (8.00%)<br>2   |  |
| Migraine<br>subjects affected / exposed<br>occurrences (all)  | 0 / 52 (0.00%)<br>0    | 2 / 25 (8.00%)<br>3   |  |
| Blood and lymphatic system disorders<br>Anaemia<br>subjects affected / exposed<br>occurrences (all) | 4 / 52 (7.69%)<br>4    | 2 / 25 (8.00%)<br>2   |  |
| Ear and labyrinth disorders<br>Vertigo<br>subjects affected / exposed<br>occurrences (all)          | 3 / 52 (5.77%)<br>4    | 1 / 25 (4.00%)<br>1   |  |
| Gastrointestinal disorders<br>Diarrhoea<br>subjects affected / exposed<br>occurrences (all)         | 10 / 52 (19.23%)<br>15 | 6 / 25 (24.00%)<br>10 |  |
| Nausea<br>subjects affected / exposed<br>occurrences (all)  | 9 / 52 (17.31%)<br>10  | 3 / 25 (12.00%)<br>3  |  |
| Abdominal pain<br>subjects affected / exposed<br>occurrences (all)                                  | 6 / 52 (11.54%)<br>6   | 0 / 25 (0.00%)<br>0   |  |
| Vomiting<br>subjects affected / exposed<br>occurrences (all)  | 6 / 52 (11.54%)<br>8   | 3 / 25 (12.00%)<br>8  |  |
| Gastrooesophageal reflux disease  |                        |                       |  |

|  |                       |                       |  |
|--|-----------------------|-----------------------|--|
| subjects affected / exposed<br>occurrences (all)                         | 3 / 52 (5.77%)<br>3   | 1 / 25 (4.00%)<br>1   |  |
| Abdominal pain upper<br>subjects affected / exposed<br>occurrences (all) | 2 / 52 (3.85%)<br>2   | 4 / 25 (16.00%)<br>7  |  |
| Abdominal discomfort<br>subjects affected / exposed<br>occurrences (all) | 1 / 52 (1.92%)<br>1   | 3 / 25 (12.00%)<br>3  |  |
| Skin and subcutaneous tissue disorders                                   |                       |                       |  |
| Rash<br>subjects affected / exposed<br>occurrences (all)                 | 5 / 52 (9.62%)<br>5   | 2 / 25 (8.00%)<br>3   |  |
| dermatitis contact<br>subjects affected / exposed<br>occurrences (all)   | 1 / 52 (1.92%)<br>1   | 2 / 25 (8.00%)<br>3   |  |
| Erythema<br>subjects affected / exposed<br>occurrences (all)             | 1 / 52 (1.92%)<br>1   | 2 / 25 (8.00%)<br>6   |  |
| Pruritus<br>subjects affected / exposed<br>occurrences (all)             | 0 / 52 (0.00%)<br>0   | 3 / 25 (12.00%)<br>23 |  |
| Urticaria<br>subjects affected / exposed<br>occurrences (all)            | 0 / 52 (0.00%)<br>0   | 2 / 25 (8.00%)<br>2   |  |
| Renal and urinary disorders  |                       |                       |  |
| Proteinuria<br>subjects affected / exposed<br>occurrences (all)          | 6 / 52 (11.54%)<br>7  | 0 / 25 (0.00%)<br>0   |  |
| Haematuria<br>subjects affected / exposed<br>occurrences (all)           | 3 / 52 (5.77%)<br>4   | 0 / 25 (0.00%)<br>0   |  |
| Musculoskeletal and connective tissue disorders                          |                       |                       |  |
| Back pain<br>subjects affected / exposed<br>occurrences (all)            | 8 / 52 (15.38%)<br>12 | 5 / 25 (20.00%)<br>6  |  |
| Pain in extremity  |                       |                       |  |

|                                   |                  |                 |  |
|-----------------------------------|------------------|-----------------|--|
| subjects affected / exposed       | 8 / 52 (15.38%)  | 4 / 25 (16.00%) |  |
| occurrences (all)                 | 15               | 5               |  |
| Muscle spasms                     |                  |                 |  |
| subjects affected / exposed       | 5 / 52 (9.62%)   | 3 / 25 (12.00%) |  |
| occurrences (all)                 | 6                | 3               |  |
| Arthralgia                        |                  |                 |  |
| subjects affected / exposed       | 4 / 52 (7.69%)   | 2 / 25 (8.00%)  |  |
| occurrences (all)                 | 4                | 4               |  |
| Musculoskeletal pain              |                  |                 |  |
| subjects affected / exposed       | 3 / 52 (5.77%)   | 2 / 25 (8.00%)  |  |
| occurrences (all)                 | 3                | 2               |  |
| Arthritis                         |                  |                 |  |
| subjects affected / exposed       | 1 / 52 (1.92%)   | 2 / 25 (8.00%)  |  |
| occurrences (all)                 | 1                | 2               |  |
| Joint swelling                    |                  |                 |  |
| subjects affected / exposed       | 0 / 52 (0.00%)   | 2 / 25 (8.00%)  |  |
| occurrences (all)                 | 0                | 3               |  |
| Infections and infestations       |                  |                 |  |
| Nasopharyngitis                   |                  |                 |  |
| subjects affected / exposed       | 11 / 52 (21.15%) | 4 / 25 (16.00%) |  |
| occurrences (all)                 | 21               | 6               |  |
| Sinusitis                         |                  |                 |  |
| subjects affected / exposed       | 8 / 52 (15.38%)  | 3 / 25 (12.00%) |  |
| occurrences (all)                 | 9                | 5               |  |
| Upper respiratory tract infection |                  |                 |  |
| subjects affected / exposed       | 6 / 52 (11.54%)  | 4 / 25 (16.00%) |  |
| occurrences (all)                 | 12               | 7               |  |
| Urinary tract infection           |                  |                 |  |
| subjects affected / exposed       | 6 / 52 (11.54%)  | 3 / 25 (12.00%) |  |
| occurrences (all)                 | 6                | 4               |  |
| Bronchitis                        |                  |                 |  |
| subjects affected / exposed       | 5 / 52 (9.62%)   | 5 / 25 (20.00%) |  |
| occurrences (all)                 | 6                | 7               |  |
| Respiratory tract infection       |                  |                 |  |
| subjects affected / exposed       | 3 / 52 (5.77%)   | 1 / 25 (4.00%)  |  |
| occurrences (all)                 | 4                | 3               |  |

|   |                |                 |  |
|---|----------------|-----------------|--|
| Viral infection                         |                |                 |  |
| subjects affected / exposed             | 3 / 52 (5.77%) | 3 / 25 (12.00%) |  |
| occurrences (all)                       | 3              | 5               |  |
| Pneumonia                               |                |                 |  |
| subjects affected / exposed             | 2 / 52 (3.85%) | 2 / 25 (8.00%)  |  |
| occurrences (all)                       | 2              | 2               |  |
| Viral upper respiratory tract infection |                |                 |  |
| subjects affected / exposed             | 2 / 52 (3.85%) | 2 / 25 (8.00%)  |  |
| occurrences (all)                       | 3              | 2               |  |
| Gastrointestinal viral infection        |                |                 |  |
| subjects affected / exposed             | 1 / 52 (1.92%) | 2 / 25 (8.00%)  |  |
| occurrences (all)                       | 1              | 4               |  |
| Pharyngitis                             |                |                 |  |
| subjects affected / exposed             | 1 / 52 (1.92%) | 4 / 25 (16.00%) |  |
| occurrences (all)                       | 1              | 4               |  |
| Gastroenteritis                         |                |                 |  |
| subjects affected / exposed             | 0 / 52 (0.00%) | 3 / 25 (12.00%) |  |
| occurrences (all)                       | 0              | 3               |  |

## More information

### Substantial protocol amendments (globally)

Were there any global substantial amendments to the protocol? No

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### Interruptions (globally)

Were there any global interruptions to the trial? No

### Limitations and caveats

None reported