



## Clinical trial results:

### A Phase 1 Multicenter Study Evaluating the Safety and Tolerability of KTE-X19 in Adult Subjects with Relapsed/Refractory Chronic Lymphocytic Leukemia and Small Lymphocytic Lymphoma Summary

|                          |                  |
|--------------------------|------------------|
| EudraCT number           | 2018-001923-38   |
| Trial protocol           | DE ES GB IT      |
| Global end of trial date | 18 November 2022 |

#### Results information

|                                |                  |
|--------------------------------|------------------|
| Result version number          | v1 (current)     |
| This version publication date  | 16 November 2023 |
| First version publication date | 16 November 2023 |

#### Trial information

##### Trial identification

|                       |             |
|-----------------------|-------------|
| Sponsor protocol code | KTE-C19-108 |
|-----------------------|-------------|

##### Additional study identifiers

|                                    |             |
|------------------------------------|-------------|
| ISRCTN number                      | -           |
| ClinicalTrials.gov id (NCT number) | NCT03624036 |
| 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,<br>GileadClinicalTrials@gilead.com |
| Scientific contact           | Gilead Clinical Study Information Center, Gilead Sciences,<br>GileadClinicalTrials@gilead.com |

Notes:

#### Paediatric regulatory details

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

Notes:

## Results analysis stage

|  |                  |
|--|------------------|
| Analysis stage                                       | Final            |
| Date of interim/final analysis                       | 18 November 2022 |
| Is this the analysis of the primary completion data? | Yes              |
| Primary completion date                              | 12 February 2021 |
| Global end of trial reached?                         | Yes              |
| Global end of trial date                             | 18 November 2022 |
| Was the trial ended prematurely?                     | Yes              |

Notes:

## General information about the trial

Main objective of the trial:

The primary objective of this study was to evaluate the safety and tolerability of brexucabtagene autoleucl (KTE-X19) in adults with relapsed/refractory chronic lymphocytic leukemia (r/r CLL) and small lymphocytic lymphoma (r/r SLL) who had received at least 2 prior lines of treatment, one of which must include a Bruton's tyrosine kinase (BTK) inhibitor.

After the end of KTE-C19-108, participants who received an infusion of brexucabtagene autoleucl will complete the remainder of the 15-year follow-up assessments in a separate Long-term Follow-up study, KT-US-982-5968 (2020-005843-21).

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                          | 15 November 2018 |
| Long term follow-up planned                               | Yes              |
| Long term follow-up rationale                             | Safety           |
| Long term follow-up duration                              | 15 Years         |
| Independent data monitoring committee (IDMC) involvement? | No               |

Notes:

## Population of trial subjects

### Subjects enrolled per country

|                                      |                   |
|--------------------------------------|-------------------|
| Country: Number of subjects enrolled | Italy: 1          |
| Country: Number of subjects enrolled | United States: 15 |
| Worldwide total number of subjects   | 16                |
| EEA total number of subjects         | 1                 |

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)                      | 9 |
| From 65 to 84 years                       | 7 |
| 85 years and over                         | 0 |

## Subject disposition

### Recruitment

Recruitment details:

Participants were enrolled at study sites in the United States and Italy. The study was terminated before enrolling participants in the Cohort 4B.

### Pre-assignment

Screening details:

17 participants were screened.

### Period 1

|                              |                                |
|------------------------------|--------------------------------|
| Period 1 title               | Overall Study (overall period) |
| Is this the baseline period? | Yes                            |
| Allocation method            | Non-randomised - controlled    |
| Blinding used                | Not blinded                    |

### Arms

|                              |  |
|------------------------------|--|
| Are arms mutually exclusive? | Yes  |
| <b>Arm title</b>             | First Stage Cohort 1: $1 \times 10^6$ Anti-CD19 CAR T Cells/kg |

Arm description:

Participants with relapsed/refractory (r/r) chronic lymphocytic leukemia (CLL) received conditioning chemotherapy (fludarabine  $30 \text{ mg/m}^2/\text{day}$  over 30 minutes and cyclophosphamide  $500 \text{ mg/m}^2/\text{day}$  over 30-60 minutes) administered intravenously (IV) on Days -5 to -3 with 2 rest days, followed by single infusion of brexucabtagene autoleucel  $1 \times 10^6$  anti-cluster of differentiate 19 (CD19) chimeric antigen receptor (CAR) T cells/kg administered IV on Day 0.

|  |                       |
|--|-----------------------|
| Arm type                               | Experimental          |
| Investigational medicinal product name | Fludarabine           |
| Investigational medicinal product code |                       |
| Other name                             |                       |
| Pharmaceutical forms                   | Solution for infusion |
| Routes of administration               | Intravenous use       |

Dosage and administration details:

$30 \text{ mg/m}^2/\text{day}$  administered over 30 minutes on days -5 to -3.

|  |                           |
|--|---------------------------|
| Investigational medicinal product name | Brexucabtagene autoleucel |
| Investigational medicinal product code |                           |
| Other name                             | KTE-X19                   |
| Pharmaceutical forms                   | Solution for infusion     |
| Routes of administration               | Intravenous use           |

Dosage and administration details:

Single infusion of  $1 \times 10^6$  CD19 CAR T cells/kg administered on Day 0.

|  |                       |
|--|-----------------------|
| Investigational medicinal product name | Cyclophosphamide      |
| Investigational medicinal product code |                       |
| Other name                             |                       |
| Pharmaceutical forms                   | Solution for infusion |
| Routes of administration               | Intravenous use       |

Dosage and administration details:

$500 \text{ mg/m}^2/\text{day}$  administered over 30-60 minutes on days -5 to -3.

|                  |  |
|------------------|--|
| <b>Arm title</b> | First Stage Cohort 2: $2 \times 10^6$ Anti-CD19 CAR T Cells/kg |
|------------------|--|

Arm description:

Participants with r/r CLL received conditioning chemotherapy (fludarabine  $30 \text{ mg/m}^2/\text{day}$  over 30 minutes and cyclophosphamide  $500 \text{ mg/m}^2/\text{day}$  over 30-60 minutes) administered IV on Days -5 to -3 with 2 rest days, followed by single infusion of brexucabtagene autoleucel  $2 \times 10^6$  anti-CD19 CAR T cells/kg administered IV on Day 0.

|   |  |
|---|--|
| Arm type  | Experimental   |
| Investigational medicinal product name  | Brexucabtagene autoleucel  |
| Investigational medicinal product code  |  |
| Other name  | KTE-X19  |
| Pharmaceutical forms  | Solution for infusion  |
| Routes of administration  | Intravenous use  |
| Dosage and administration details:  |  |
| Single infusion of $2 \times 10^6$ CD19 CAR T cells/kg administered on Day 0.   |  |
| Investigational medicinal product name  | Fludarabine  |
| Investigational medicinal product code  |  |
| Other name  |  |
| Pharmaceutical forms  | Solution for infusion  |
| Routes of administration  | Intravenous use  |
| Dosage and administration details:  |  |
| 30 mg/m <sup>2</sup> /day administered over 30 minutes on days -5 to -3.  |  |
| Investigational medicinal product name  | Cyclophosphamide   |
| Investigational medicinal product code  |  |
| Other name  |  |
| Pharmaceutical forms  | Solution for infusion  |
| Routes of administration  | Intravenous use  |
| Dosage and administration details:  |  |
| 500 mg/m <sup>2</sup> /day administered over 30-60 minutes on days -5 to -3.  |  |
| <b>Arm title</b>  | Second Stage Cohort 3: $1 \times 10^6$ Anti-CD19 CAR T Cells/kg  |
| Arm description:  |  |
| Participants with r/r CLL and small lymphocytic lymphoma (SLL) with $\leq 1\%$ malignant cells in peripheral blood or absolute lymphocyte count (ALC) < 5,000 cells/ $\mu$ L received conditioning chemotherapy (fludarabine 30 mg/m <sup>2</sup> /day over 30 minutes and cyclophosphamide 500 mg/m <sup>2</sup> /day over 30-60 minutes) administered IV on Days -5 to -3 with 2 rest days, followed by single infusion of brexucabtagene autoleucel $1 \times 10^6$ anti-CD19 CAR T cells/kg administered IV on Day 0. |  |
| Arm type  | Experimental   |
| Investigational medicinal product name  | Brexucabtagene autoleucel  |
| Investigational medicinal product code  |  |
| Other name  | KTE-X19  |
| Pharmaceutical forms  | Solution for infusion  |
| Routes of administration  | Intravenous use  |
| Dosage and administration details:  |  |
| Single infusion of $1 \times 10^6$ CD19 CAR T cells/kg administered on Day 0.   |  |
| Investigational medicinal product name  | Fludarabine  |
| Investigational medicinal product code  |  |
| Other name  |  |
| Pharmaceutical forms  | Solution for infusion  |
| Routes of administration  | Intravenous use  |
| Dosage and administration details:  |  |
| 30 mg/m <sup>2</sup> /day administered over 30 minutes on days -5 to -3.  |  |
| Investigational medicinal product name  | Cyclophosphamide   |
| Investigational medicinal product code  |  |
| Other name  |  |
| Pharmaceutical forms  | Solution for infusion  |
| Routes of administration  | Intravenous use  |
| Dosage and administration details:  |  |
| 500 mg/m <sup>2</sup> /day administered over 30-60 minutes on days -5 to -3.  |  |
| <b>Arm title</b>  | Second Stage Cohort 4A: $1 \times 10^6$ Anti-CD19 CAR T Cells/kg |

Arm description:

Participants with r/r CLL who previously received two lines of therapy along with ibrutinib with or without anti CD20 antibodies, B-cell lymphoma 2 (BCL-2) and Phosphoinositide 3-kinase (PI3k) inhibitors received ibrutinib up to 30 hours prior to leukapheresis along with conditioning chemotherapy (fludarabine 30 mg/m<sup>2</sup>/day over 30 minutes and cyclophosphamide 500 mg/m<sup>2</sup>/day over 30-60 minutes) administered IV on Days -5 to -3 with 2 rest days, followed by single infusion of brexucabtagene autoleucel 1 x 10<sup>6</sup> anti-CD19 CAR T cells/kg administered IV on Day 0.

|  |                           |
|--|---------------------------|
| Arm type                               | Experimental              |
| Investigational medicinal product name | Brexucabtagene autoleucel |
| Investigational medicinal product code |                           |
| Other name                             | KTE-X19                   |
| Pharmaceutical forms                   | Solution for infusion     |
| Routes of administration               | Intravenous use           |

Dosage and administration details:

Single infusion of 1 x 10<sup>6</sup> CD19 CAR T cells/kg administered on Day 0.

|  |                       |
|--|-----------------------|
| Investigational medicinal product name | Fludarabine           |
| Investigational medicinal product code |                       |
| Other name                             |                       |
| Pharmaceutical forms                   | Solution for infusion |
| Routes of administration               | Intravenous use       |

Dosage and administration details:

30 mg/m<sup>2</sup>/day administered over 30 minutes on days -5 to -3.

|  |                       |
|--|-----------------------|
| Investigational medicinal product name | Cyclophosphamide      |
| Investigational medicinal product code |                       |
| Other name                             |                       |
| Pharmaceutical forms                   | Solution for infusion |
| Routes of administration               | Intravenous use       |

Dosage and administration details:

500 mg/m<sup>2</sup>/day administered over 30-60 minutes on days -5 to -3.

| Number of subjects in period 1 | First Stage Cohort 1: 1 x 10 <sup>6</sup> Anti-CD19 CAR T Cells/kg | First Stage Cohort 2: 2 x 10 <sup>6</sup> Anti-CD19 CAR T Cells/kg | Second Stage Cohort 3: 1 x 10 <sup>6</sup> Anti-CD19 CAR T Cells/kg |
|--------------------------------|--|--|---|
|                                |  |  |   |
| Started                        | 7  | 3  | 3   |
| Completed                      | 0  | 0  | 0   |
| Not completed                  | 7  | 3  | 3   |
| Death                          | 2  | 3  | -   |
| Withdrawal by Subject          | 1  | -  | 1   |
| Reason not Specified           | 3  | -  | 2   |
| Enrolled but Never Treated     | 1  | -  | -   |

| Number of subjects in period 1 | Second Stage Cohort 4A: 1 x 10 <sup>6</sup> Anti-CD19 CAR T Cells/kg |
|--------------------------------|--|
| Started                        | 3  |
| Completed                      | 0  |
| Not completed                  | 3  |
| Death                          | 1  |

|                            |   |
|----------------------------|---|
| Withdrawal by Subject      | - |
| Reason not Specified       | 2 |
| Enrolled but Never Treated | - |

## Baseline characteristics

### Reporting groups

|   |  |
|---|--|
| Reporting group title   | First Stage Cohort 1: 1 x 10 <sup>6</sup> Anti-CD19 CAR T Cells/kg   |
| Reporting group description:<br>Participants with relapsed/refractory (r/r) chronic lymphocytic leukemia (CLL) received conditioning chemotherapy (fludarabine 30 mg/m <sup>2</sup> /day over 30 minutes and cyclophosphamide 500 mg/m <sup>2</sup> /day over 30-60 minutes) administered intravenously (IV) on Days -5 to -3 with 2 rest days, followed by single infusion of brexucabtagene autoleucel 1 x 10 <sup>6</sup> anti-cluster of differentiate 19 (CD19) chimeric antigen receptor (CAR) T cells/kg administered IV on Day 0.   |  |
| Reporting group title   | First Stage Cohort 2: 2 x 10 <sup>6</sup> Anti-CD19 CAR T Cells/kg   |
| Reporting group description:<br>Participants with r/r CLL received conditioning chemotherapy (fludarabine 30 mg/m <sup>2</sup> /day over 30 minutes and cyclophosphamide 500 mg/m <sup>2</sup> /day over 30-60 minutes) administered IV on Days -5 to -3 with 2 rest days, followed by single infusion of brexucabtagene autoleucel 2 x 10 <sup>6</sup> anti-CD19 CAR T cells/kg administered IV on Day 0.  |  |
| Reporting group title   | Second Stage Cohort 3: 1 x 10 <sup>6</sup> Anti-CD19 CAR T Cells/kg  |
| Reporting group description:<br>Participants with r/r CLL and small lymphocytic lymphoma (SLL) with ≤1% malignant cells in peripheral blood or absolute lymphocyte count (ALC) < 5,000 cells/μL received conditioning chemotherapy (fludarabine 30 mg/m <sup>2</sup> /day over 30 minutes and cyclophosphamide 500 mg/m <sup>2</sup> /day over 30-60 minutes) administered IV on Days -5 to -3 with 2 rest days, followed by single infusion of brexucabtagene autoleucel 1 x 10 <sup>6</sup> anti-CD19 CAR T cells/kg administered IV on Day 0.  |  |
| Reporting group title   | Second Stage Cohort 4A: 1 x 10 <sup>6</sup> Anti-CD19 CAR T Cells/kg |
| Reporting group description:<br>Participants with r/r CLL who previously received two lines of therapy along with ibrutinib with or without anti CD20 antibodies, B-cell lymphoma 2 (BCL-2) and Phosphoinositide 3-kinase (PI3k) inhibitors received ibrutinib up to 30 hours prior to leukapheresis along with conditioning chemotherapy (fludarabine 30 mg/m <sup>2</sup> /day over 30 minutes and cyclophosphamide 500 mg/m <sup>2</sup> /day over 30-60 minutes) administered IV on Days -5 to -3 with 2 rest days, followed by single infusion of brexucabtagene autoleucel 1 x 10 <sup>6</sup> anti-CD19 CAR T cells/kg administered IV on Day 0. |  |

| Reporting group values             | First Stage Cohort 1: 1 x 10 <sup>6</sup> Anti-CD19 CAR T Cells/kg | First Stage Cohort 2: 2 x 10 <sup>6</sup> Anti-CD19 CAR T Cells/kg | Second Stage Cohort 3: 1 x 10 <sup>6</sup> Anti-CD19 CAR T Cells/kg |
|------------------------------------|--|--|---|
| Number of subjects                 | 7  | 3  | 3   |
| Age categorical<br>Units: Subjects |  |  |   |

|   |               |               |                |
|---|---------------|---------------|----------------|
| Age continuous<br>Units: years<br>arithmetic mean<br>standard deviation | 60.8<br>± 5.8 | 58.7<br>± 5.9 | 68.0<br>± 11.5 |
| Gender categorical<br>Units: Subjects                                   |               |               |                |
| Female  | 3             | 1             | 0              |
| Male  | 4             | 2             | 3              |
| Race<br>Units: Subjects   |               |               |                |
| Black or African American   | 1             | 0             | 0              |
| White   | 6             | 3             | 3              |
| Ethnicity<br>Units: Subjects  |               |               |                |



|                        |   |   |   |
|------------------------|---|---|---|
| Not Hispanic or Latino | 7 | 3 | 3 |
|------------------------|---|---|---|

| Reporting group values             | Second Stage<br>Cohort 4A: $1 \times 10^6$<br>Anti-CD19 CAR T<br>Cells/kg | Total |  |
|------------------------------------|---|-------|--|
| Number of subjects                 | 3   | 16    |  |
| Age categorical<br>Units: Subjects |   |       |  |

|   |               |    |  |
|---|---------------|----|--|
| Age continuous<br>Units: years<br>arithmetic mean<br>standard deviation | 63.3<br>± 9.1 | -  |  |
| Gender categorical<br>Units: Subjects                                   |               |    |  |
| Female  | 1             | 5  |  |
| Male  | 2             | 11 |  |
| Race<br>Units: Subjects   |               |    |  |
| Black or African American   | 1             | 2  |  |
| White   | 2             | 14 |  |
| Ethnicity<br>Units: Subjects  |               |    |  |
| Not Hispanic or Latino  | 3             | 16 |  |

## End points

### End points reporting groups

|   |  |
|---|--|
| Reporting group title   | First Stage Cohort 1: $1 \times 10^6$ Anti-CD19 CAR T Cells/kg   |
| Reporting group description:<br>Participants with relapsed/refractory (r/r) chronic lymphocytic leukemia (CLL) received conditioning chemotherapy (fludarabine $30 \text{ mg/m}^2/\text{day}$ over 30 minutes and cyclophosphamide $500 \text{ mg/m}^2/\text{day}$ over 30-60 minutes) administered intravenously (IV) on Days -5 to -3 with 2 rest days, followed by single infusion of brexucabtagene autoleucel $1 \times 10^6$ anti-cluster of differentiate 19 (CD19) chimeric antigen receptor (CAR) T cells/kg administered IV on Day 0.   |  |
| Reporting group title   | First Stage Cohort 2: $2 \times 10^6$ Anti-CD19 CAR T Cells/kg   |
| Reporting group description:<br>Participants with r/r CLL received conditioning chemotherapy (fludarabine $30 \text{ mg/m}^2/\text{day}$ over 30 minutes and cyclophosphamide $500 \text{ mg/m}^2/\text{day}$ over 30-60 minutes) administered IV on Days -5 to -3 with 2 rest days, followed by single infusion of brexucabtagene autoleucel $2 \times 10^6$ anti-CD19 CAR T cells/kg administered IV on Day 0.  |  |
| Reporting group title   | Second Stage Cohort 3: $1 \times 10^6$ Anti-CD19 CAR T Cells/kg  |
| Reporting group description:<br>Participants with r/r CLL and small lymphocytic lymphoma (SLL) with $\leq 1\%$ malignant cells in peripheral blood or absolute lymphocyte count (ALC) $< 5,000 \text{ cells}/\mu\text{L}$ received conditioning chemotherapy (fludarabine $30 \text{ mg/m}^2/\text{day}$ over 30 minutes and cyclophosphamide $500 \text{ mg/m}^2/\text{day}$ over 30-60 minutes) administered IV on Days -5 to -3 with 2 rest days, followed by single infusion of brexucabtagene autoleucel $1 \times 10^6$ anti-CD19 CAR T cells/kg administered IV on Day 0.  |  |
| Reporting group title   | Second Stage Cohort 4A: $1 \times 10^6$ Anti-CD19 CAR T Cells/kg |
| Reporting group description:<br>Participants with r/r CLL who previously received two lines of therapy along with ibrutinib with or without anti CD20 antibodies, B-cell lymphoma 2 (BCL-2) and Phosphoinositide 3-kinase (PI3k) inhibitors received ibrutinib up to 30 hours prior to leukapheresis along with conditioning chemotherapy (fludarabine $30 \text{ mg/m}^2/\text{day}$ over 30 minutes and cyclophosphamide $500 \text{ mg/m}^2/\text{day}$ over 30-60 minutes) administered IV on Days -5 to -3 with 2 rest days, followed by single infusion of brexucabtagene autoleucel $1 \times 10^6$ anti-CD19 CAR T cells/kg administered IV on Day 0. |  |

### Primary: Number of Participants Experiencing Dose Limiting Toxicities (DLTs)

|   |  |
|---|--|
| End point title   | Number of Participants Experiencing Dose Limiting Toxicities (DLTs) <sup>[1]</sup> |
| End point description:<br>DLTs refer to toxicities with onset experienced during the first 28 days of study treatment that have been judged to be clinically significant and related to study treatment. DLTs evaluated may include with some exceptions: All brexucabtagene autoleucel related Grade 3 non-hematologic toxicities lasting for more than 7 days, Grade 4 non-hematologic toxicities regardless of duration, and Grade 4 hematologic toxicity lasting more than 30 days if not attributable to underlying disease. DLT Evaluable Set included all participants treated with the target brexucabtagene autoleucel dose and followed for at least 28 days. |  |
| End point type  | Primary  |
| End point timeframe:<br>First infusion date of brexucabtagene autoleucel up to 28 days. Participants were evaluated in specified period but Grade 4 hematologic toxicity (specified in description) having onset in this period were further observed for 30 days for confirmation.   |  |
| Notes:<br>[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.<br>Justification: No statistical comparison was planned or performed.   |  |

| End point values            | First Stage Cohort 1: 1 x 10 <sup>6</sup> Anti-CD19 CAR T Cells/kg | First Stage Cohort 2: 2 x 10 <sup>6</sup> Anti-CD19 CAR T Cells/kg | Second Stage Cohort 3: 1 x 10 <sup>6</sup> Anti-CD19 CAR T Cells/kg | Second Stage Cohort 4A: 1 x 10 <sup>6</sup> Anti-CD19 CAR T Cells/kg |
|-----------------------------|--|--|---|--|
| Subject group type          | Reporting group  | Reporting group  | Reporting group   | Reporting group  |
| Number of subjects analysed | 6  | 3  | 3   | 3  |
| Units: participants         | 0  | 0  | 1   | 0  |

## Statistical analyses

No statistical analyses for this end point

## Secondary: Objective Response Rate (ORR) Per Investigator Review Assessed by International Workshop on CLL (IWCLL) 2018 Criteria

|  |   |
|--|---|
| End point title  | Objective Response Rate (ORR) Per Investigator Review Assessed by International Workshop on CLL (IWCLL) 2018 Criteria |
| End point description:   |   |
| <p>ORR: percentage of participants achieving either complete response (CR), CR with incomplete hematopoietic recovery (CRi)/partial response (PR). CR criteria: no lymphadenopathy &gt;1.5 cm/hepatomegaly/splenomegaly, lymphocytes &lt;4000/microliters (μL), bone marrow sample is normocellular with 30% lymphocytes&amp;no B-lymphoid nodules, platelets ≥100,000/μL, hemoglobin ≥11 grams per deciliter (g/dL). CRi: All CR criteria were met except with platelet count &lt;100,000/μL, hemoglobin &lt;11 g/dL or neutrophil count &lt;500/μL.PR: ≥1 of these:≥50% decrease in lymphocytes, lymphadenopathy, size of liver&amp;spleen, 50% decrease in bone marrow infiltrates;&amp;≥1 of these:platelets ≥100,000/μL or ≥50% increase from Baseline, hemoglobin ≥11 g/dL or ≥50% increase from Baseline. Participants who did not meet criteria were considered nonresponders. 95% confidence interval (CI) was calculated by Clopper-Pearson method. All Treated Subjects Set=all participants who were treated with any dose of brexucabtagene autoleucel.</p> |   |
| End point type   | Secondary   |
| End point timeframe:   |   |
| First infusion date up to last follow up visit (maximum duration: 42 months)   |   |

| End point values                  | First Stage Cohort 1: 1 x 10 <sup>6</sup> Anti-CD19 CAR T Cells/kg | First Stage Cohort 2: 2 x 10 <sup>6</sup> Anti-CD19 CAR T Cells/kg | Second Stage Cohort 3: 1 x 10 <sup>6</sup> Anti-CD19 CAR T Cells/kg | Second Stage Cohort 4A: 1 x 10 <sup>6</sup> Anti-CD19 CAR T Cells/kg |
|-----------------------------------|--|--|---|--|
| Subject group type                | Reporting group  | Reporting group  | Reporting group   | Reporting group  |
| Number of subjects analysed       | 6  | 3  | 3   | 3  |
| Units: percentage of participants |  |  |   |  |
| number (confidence interval 95%)  | 50 (11.8 to 88.2)  | 33 (0.8 to 90.6)   | 100 (29.2 to 100.0)   | 0 (0.0 to 70.8)  |

## Statistical analyses

No statistical analyses for this end point

## Secondary: Percentage of Participants Experiencing Treatment Emergent Adverse

## Events (TEAEs)

|                 |   |
|-----------------|---|
| End point title | Percentage of Participants Experiencing Treatment Emergent Adverse Events (TEAEs) |
|-----------------|---|

End point description:

An AE is defined as any untoward medical occurrence in a clinical trial participant that does not necessarily have a relationship with study treatment or worsening of a pre-existing medical condition. TEAEs were defined as AEs with onset on or after the initiation of brexucabtagene autoleucel infusion. Safety Analysis Set included all participants who were treated with any dose of brexucabtagene autoleucel.

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

End point timeframe:

First infusion date up to last follow up visit (maximum duration: 42 months)

| End point values                  | First Stage Cohort 1: 1 x 10 <sup>6</sup> Anti-CD19 CAR T Cells/kg | First Stage Cohort 2: 2 x 10 <sup>6</sup> Anti-CD19 CAR T Cells/kg | Second Stage Cohort 3: 1 x 10 <sup>6</sup> Anti-CD19 CAR T Cells/kg | Second Stage Cohort 4A: 1 x 10 <sup>6</sup> Anti-CD19 CAR T Cells/kg |
|-----------------------------------|--|--|---|--|
| Subject group type                | Reporting group  | Reporting group  | Reporting group   | Reporting group  |
| Number of subjects analysed       | 6  | 3  | 3   | 3  |
| Units: percentage of participants |  |  |   |  |
| number (not applicable)           | 100  | 100  | 100   | 100  |

## Statistical analyses

No statistical analyses for this end point

## Secondary: Peak Level of Anti-CD19 CAR T-Cells in Blood

|                 |  |
|-----------------|--|
| End point title | Peak Level of Anti-CD19 CAR T-Cells in Blood |
|-----------------|--|

End point description:

Peak was defined as the maximum number of CAR T cells measured post-infusion. Participants in the safety analysis set with available data were analysed.

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

End point timeframe:

First infusion date up to 3 months post-infusion (approximately 3 months)

| End point values                      | First Stage Cohort 1: 1 x 10 <sup>6</sup> Anti-CD19 CAR T Cells/kg | First Stage Cohort 2: 2 x 10 <sup>6</sup> Anti-CD19 CAR T Cells/kg | Second Stage Cohort 3: 1 x 10 <sup>6</sup> Anti-CD19 CAR T Cells/kg | Second Stage Cohort 4A: 1 x 10 <sup>6</sup> Anti-CD19 CAR T Cells/kg |
|---------------------------------------|--|--|---|--|
| Subject group type                    | Reporting group  | Reporting group  | Reporting group   | Reporting group  |
| Number of subjects analysed           | 6  | 2  | 3   | 3  |
| Units: cells/ $\mu$ L                 |  |  |   |  |
| median (inter-quartile range (Q1-Q3)) | 1.46 (0.58 to 2.35)  | 1.08 (0.00 to 2.15)  | 42.18 (27.52 to 679.38)   | 1.00 (0.00 to 1.27)  |

## **Statistical analyses**

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No statistical analyses for this end point

## Adverse events

### Adverse events information

Timeframe for reporting adverse events:

All-Cause Mortality: Enrollment up to last follow up visit (maximum: 43 months); Adverse Events: First infusion date up to last follow up visit (maximum: 42 months)

Adverse event reporting additional description:

All-Cause Mortality: All Enrolled Analysis Set included all the enrolled participants.

Adverse Events: Safety Analysis Set included all participants who were treated with any dose of brexucabtagene autoleucel.

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

### Dictionary used

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

|                    |    |
|--------------------|----|
| Dictionary version | 22 |
|--------------------|----|

### Reporting groups

|                       |   |
|-----------------------|---|
| Reporting group title | First Stage Cohort 1: $1 \times 10^6$ Anti- CD19 CAR T Cells/kg |
|-----------------------|---|

Reporting group description:

Participants with r/r CLL received conditioning chemotherapy (fludarabine 30 mg/m<sup>2</sup>/day over 30 minutes and cyclophosphamide 500 mg/m<sup>2</sup>/day over 30-60 minutes) administered IV on Days -5 to -3 with 2 rest days, followed by single infusion of brexucabtagene autoleucel  $1 \times 10^6$  anti-CD19 CAR T cells/kg administered IV on Day 0.

|                       |  |
|-----------------------|--|
| Reporting group title | Second Stage Cohort 4A: $1 \times 10^6$ Anti-CD19 CAR T Cells/kg |
|-----------------------|--|

Reporting group description:

Participants with r/r CLL who previously received two lines of therapy along with ibrutinib with or without anti CD20 antibodies, BCL-2 and PI3k inhibitors received ibrutinib up to 30 hours prior to leukapheresis along with conditioning chemotherapy (fludarabine 30 mg/m<sup>2</sup>/day over 30 minutes and cyclophosphamide 500 mg/m<sup>2</sup>/day over 30-60 minutes) administered IV on Days -5 to -3 with 2 rest days, followed by single infusion of brexucabtagene autoleucel  $1 \times 10^6$  anti-CD19 CAR T cells/kg administered IV on Day 0.

|                       |   |
|-----------------------|---|
| Reporting group title | Second Stage Cohort 3: $1 \times 10^6$ Anti-CD19 CAR T Cells/kg |
|-----------------------|---|

Reporting group description:

Participants with r/r CLL and SLL with  $\leq 1\%$  malignant cells in peripheral blood or ALC < 5,000 cells/ $\mu$ L received conditioning chemotherapy (fludarabine 30 mg/m<sup>2</sup>/day over 30 minutes and cyclophosphamide 500 mg/m<sup>2</sup>/day over 30-60 minutes) administered IV on Days -5 to -3 with 2 rest days, followed by single infusion of brexucabtagene autoleucel  $1 \times 10^6$  anti-CD19 CAR T cells/kg administered IV on Day 0.

|                       |  |
|-----------------------|--|
| Reporting group title | First Stage Cohort 2: $2 \times 10^6$ Anti-CD19 CAR T Cells/kg |
|-----------------------|--|

Reporting group description:

Participants with r/r CLL received conditioning chemotherapy (fludarabine 30 mg/m<sup>2</sup>/day over 30 minutes and cyclophosphamide 500 mg/m<sup>2</sup>/day over 30-60 minutes) administered IV on Days -5 to -3 with 2 rest days, followed by single infusion of brexucabtagene autoleucel  $2 \times 10^6$  anti-CD19 CAR T cells/kg administered IV on Day 0.

| Serious adverse events                            | First Stage Cohort 1: $1 \times 10^6$ Anti-CD19 CAR T Cells/kg | Second Stage Cohort 4A: $1 \times 10^6$ Anti-CD19 CAR T Cells/kg | Second Stage Cohort 3: $1 \times 10^6$ Anti-CD19 CAR T Cells/kg |
|---|--|--|---|
| Total subjects affected by serious adverse events |  |  |   |
| subjects affected / exposed                       | 4 / 6 (66.67%)   | 1 / 3 (33.33%)   | 3 / 3 (100.00%)   |
| number of deaths (all causes)                     | 2  | 1  | 0   |
| number of deaths resulting from adverse events    | 0  | 0  | 0   |

|   |                |               |                |
|---|----------------|---------------|----------------|
| Neoplasms benign, malignant and unspecified (incl cysts and polyps) |                |               |                |
| Chronic lymphocytic leukaemia                                       |                |               |                |
| subjects affected / exposed   | 0 / 6 (0.00%)  | 0 / 3 (0.00%) | 0 / 3 (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          |
| Vascular disorders  |                |               |                |
| Hypotension   |                |               |                |
| subjects affected / exposed   | 0 / 6 (0.00%)  | 0 / 3 (0.00%) | 2 / 3 (66.67%) |
| occurrences causally related to treatment / all                     | 0 / 0          | 0 / 0         | 3 / 3          |
| deaths causally related to treatment / all                          | 0 / 0          | 0 / 0         | 0 / 0          |
| Embolism  |                |               |                |
| subjects affected / exposed   | 1 / 6 (16.67%) | 0 / 3 (0.00%) | 0 / 3 (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          |
| Cardiac disorders   |                |               |                |
| Tachycardia   |                |               |                |
| subjects affected / exposed   | 1 / 6 (16.67%) | 0 / 3 (0.00%) | 0 / 3 (0.00%)  |
| occurrences causally related to treatment / all                     | 1 / 1          | 0 / 0         | 0 / 0          |
| deaths causally related to treatment / all                          | 0 / 0          | 0 / 0         | 0 / 0          |
| Nervous system disorders  |                |               |                |
| Aphasia   |                |               |                |
| subjects affected / exposed   | 1 / 6 (16.67%) | 0 / 3 (0.00%) | 0 / 3 (0.00%)  |
| occurrences causally related to treatment / all                     | 1 / 1          | 0 / 0         | 0 / 0          |
| deaths causally related to treatment / all                          | 0 / 0          | 0 / 0         | 0 / 0          |
| General disorders and administration site conditions                |                |               |                |
| Malaise   |                |               |                |
| subjects affected / exposed   | 0 / 6 (0.00%)  | 0 / 3 (0.00%) | 0 / 3 (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          |
| Pyrexia   |                |               |                |
| subjects affected / exposed   | 1 / 6 (16.67%) | 0 / 3 (0.00%) | 1 / 3 (33.33%) |
| occurrences causally related to treatment / all                     | 1 / 1          | 0 / 0         | 0 / 1          |
| deaths causally related to treatment / all                          | 0 / 0          | 0 / 0         | 0 / 0          |
| Chills  |                |               |                |

|   |                |               |                |
|---|----------------|---------------|----------------|
| subjects affected / exposed                     | 1 / 6 (16.67%) | 0 / 3 (0.00%) | 0 / 3 (0.00%)  |
| occurrences causally related to treatment / all | 1 / 1          | 0 / 0         | 0 / 0          |
| deaths causally related to treatment / all      | 0 / 0          | 0 / 0         | 0 / 0          |
| Gastrointestinal disorders                      |                |               |                |
| Abdominal pain                                  |                |               |                |
| subjects affected / exposed                     | 0 / 6 (0.00%)  | 0 / 3 (0.00%) | 0 / 3 (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          |
| Respiratory, thoracic and mediastinal disorders |                |               |                |
| Pneumothorax                                    |                |               |                |
| subjects affected / exposed                     | 0 / 6 (0.00%)  | 0 / 3 (0.00%) | 1 / 3 (33.33%) |
| occurrences causally related to treatment / all | 0 / 0          | 0 / 0         | 0 / 1          |
| deaths causally related to treatment / all      | 0 / 0          | 0 / 0         | 0 / 0          |
| Psychiatric disorders                           |                |               |                |
| Confusional state                               |                |               |                |
| subjects affected / exposed                     | 1 / 6 (16.67%) | 0 / 3 (0.00%) | 0 / 3 (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                     |                |               |                |
| Systemic candida                                |                |               |                |
| subjects affected / exposed                     | 0 / 6 (0.00%)  | 0 / 3 (0.00%) | 0 / 3 (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          |
| Sepsis  |                |               |                |
| subjects affected / exposed                     | 0 / 6 (0.00%)  | 0 / 3 (0.00%) | 0 / 3 (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          |
| Rhinovirus infection                            |                |               |                |
| subjects affected / exposed                     | 0 / 6 (0.00%)  | 0 / 3 (0.00%) | 1 / 3 (33.33%) |
| occurrences causally related to treatment / all | 0 / 0          | 0 / 0         | 0 / 1          |
| deaths causally related to treatment / all      | 0 / 0          | 0 / 0         | 0 / 0          |
| Pneumonia                                       |                |               |                |



|   |               |                |                |
|---|---------------|----------------|----------------|
| subjects affected / exposed                     | 0 / 6 (0.00%) | 0 / 3 (0.00%)  | 1 / 3 (33.33%) |
| occurrences causally related to treatment / all | 0 / 0         | 0 / 0          | 1 / 1          |
| deaths causally related to treatment / all      | 0 / 0         | 0 / 0          | 0 / 0          |
| Cellulitis                                      |               |                |                |
| subjects affected / exposed                     | 0 / 6 (0.00%) | 1 / 3 (33.33%) | 0 / 3 (0.00%)  |
| occurrences causally related to treatment / all | 0 / 0         | 0 / 1          | 0 / 0          |
| deaths causally related to treatment / all      | 0 / 0         | 0 / 0          | 0 / 0          |
| Metabolism and nutrition disorders              |               |                |                |
| Failure to thrive                               |               |                |                |
| subjects affected / exposed                     | 0 / 6 (0.00%) | 0 / 3 (0.00%)  | 0 / 3 (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>Serious adverse events</b>                                       | First Stage Cohort<br>2: 2 x 10 <sup>6</sup> Anti-CD19 CAR T Cells/kg |  |  |
| Total subjects affected by serious adverse events                   |   |  |  |
| subjects affected / exposed   | 2 / 3 (66.67%)  |  |  |
| number of deaths (all causes)                                       | 3   |  |  |
| number of deaths resulting from adverse events                      | 0   |  |  |
| Neoplasms benign, malignant and unspecified (incl cysts and polyps) |   |  |  |
| Chronic lymphocytic leukaemia                                       |   |  |  |
| subjects affected / exposed   | 1 / 3 (33.33%)  |  |  |
| occurrences causally related to treatment / all                     | 0 / 1   |  |  |
| deaths causally related to treatment / all                          | 0 / 1   |  |  |
| Vascular disorders  |   |  |  |
| Hypotension   |   |  |  |
| subjects affected / exposed   | 1 / 3 (33.33%)  |  |  |
| occurrences causally related to treatment / all                     | 0 / 1   |  |  |
| deaths causally related to treatment / all                          | 0 / 0   |  |  |
| Embolism  |   |  |  |
| subjects affected / exposed   | 0 / 3 (0.00%)   |  |  |
| occurrences causally related to treatment / all                     | 0 / 0   |  |  |
| deaths causally related to treatment / all                          | 0 / 0   |  |  |
| Cardiac disorders   |   |  |  |
| Tachycardia   |   |  |  |

|  |                |  |  |
|--|----------------|--|--|
| subjects affected / exposed                          | 0 / 3 (0.00%)  |  |  |
| occurrences causally related to treatment / all      | 0 / 0          |  |  |
| deaths causally related to treatment / all           | 0 / 0          |  |  |
| Nervous system disorders                             |                |  |  |
| Aphasia  |                |  |  |
| subjects affected / exposed                          | 0 / 3 (0.00%)  |  |  |
| occurrences causally related to treatment / all      | 0 / 0          |  |  |
| deaths causally related to treatment / all           | 0 / 0          |  |  |
| General disorders and administration site conditions |                |  |  |
| Malaise  |                |  |  |
| subjects affected / exposed                          | 1 / 3 (33.33%) |  |  |
| occurrences causally related to treatment / all      | 1 / 1          |  |  |
| deaths causally related to treatment / all           | 0 / 0          |  |  |
| Pyrexia  |                |  |  |
| subjects affected / exposed                          | 2 / 3 (66.67%) |  |  |
| occurrences causally related to treatment / all      | 1 / 2          |  |  |
| deaths causally related to treatment / all           | 0 / 0          |  |  |
| Chills   |                |  |  |
| subjects affected / exposed                          | 0 / 3 (0.00%)  |  |  |
| occurrences causally related to treatment / all      | 0 / 0          |  |  |
| deaths causally related to treatment / all           | 0 / 0          |  |  |
| Gastrointestinal disorders                           |                |  |  |
| Abdominal pain                                       |                |  |  |
| subjects affected / exposed                          | 1 / 3 (33.33%) |  |  |
| occurrences causally related to treatment / all      | 0 / 1          |  |  |
| deaths causally related to treatment / all           | 0 / 0          |  |  |
| Respiratory, thoracic and mediastinal disorders      |                |  |  |
| Pneumothorax   |                |  |  |
| subjects affected / exposed                          | 0 / 3 (0.00%)  |  |  |
| occurrences causally related to treatment / all      | 0 / 0          |  |  |
| deaths causally related to treatment / all           | 0 / 0          |  |  |
| Psychiatric disorders                                |                |  |  |
| Confusional state                                    |                |  |  |

|   |                |  |  |
|---|----------------|--|--|
| subjects affected / exposed                     | 0 / 3 (0.00%)  |  |  |
| occurrences causally related to treatment / all | 0 / 0          |  |  |
| deaths causally related to treatment / all      | 0 / 0          |  |  |
| <b>Infections and infestations</b>              |                |  |  |
| Systemic candida                                |                |  |  |
| subjects affected / exposed                     | 1 / 3 (33.33%) |  |  |
| occurrences causally related to treatment / all | 0 / 1          |  |  |
| deaths causally related to treatment / all      | 0 / 0          |  |  |
| Sepsis  |                |  |  |
| subjects affected / exposed                     | 1 / 3 (33.33%) |  |  |
| occurrences causally related to treatment / all | 0 / 1          |  |  |
| deaths causally related to treatment / all      | 0 / 0          |  |  |
| Rhinovirus infection                            |                |  |  |
| subjects affected / exposed                     | 0 / 3 (0.00%)  |  |  |
| occurrences causally related to treatment / all | 0 / 0          |  |  |
| deaths causally related to treatment / all      | 0 / 0          |  |  |
| Pneumonia                                       |                |  |  |
| subjects affected / exposed                     | 0 / 3 (0.00%)  |  |  |
| occurrences causally related to treatment / all | 0 / 0          |  |  |
| deaths causally related to treatment / all      | 0 / 0          |  |  |
| Cellulitis                                      |                |  |  |
| subjects affected / exposed                     | 0 / 3 (0.00%)  |  |  |
| occurrences causally related to treatment / all | 0 / 0          |  |  |
| deaths causally related to treatment / all      | 0 / 0          |  |  |
| <b>Metabolism and nutrition disorders</b>       |                |  |  |
| Failure to thrive                               |                |  |  |
| subjects affected / exposed                     | 1 / 3 (33.33%) |  |  |
| occurrences causally related to treatment / all | 1 / 1          |  |  |
| deaths causally related to treatment / all      | 0 / 0          |  |  |

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

| <b>Non-serious adverse events</b>                     | First Stage Cohort<br>1: 1 x 10 <sup>6</sup> Anti-<br>CD19 CAR T Cells/kg | Second Stage Cohort<br>4A: 1 x 10 <sup>6</sup> Anti-<br>CD19 CAR T Cells/kg | Second Stage<br>Cohort 3: 1 x 10 <sup>6</sup><br>Anti-CD19 CAR T<br>Cells/kg |
|---|---|---|--|
| Total subjects affected by non-serious adverse events |   |   |  |
| subjects affected / exposed                           | 6 / 6 (100.00%)   | 3 / 3 (100.00%)   | 3 / 3 (100.00%)  |
| Vascular disorders                                    |   |   |  |
| Hypotension   |   |   |  |
| subjects affected / exposed                           | 1 / 6 (16.67%)  | 1 / 3 (33.33%)  | 1 / 3 (33.33%)   |
| occurrences (all)                                     | 2   | 2   | 1  |
| Hypertension  |   |   |  |
| subjects affected / exposed                           | 0 / 6 (0.00%)   | 1 / 3 (33.33%)  | 1 / 3 (33.33%)   |
| occurrences (all)                                     | 0   | 1   | 1  |
| General disorders and administration site conditions  |   |   |  |
| Fatigue   |   |   |  |
| subjects affected / exposed                           | 3 / 6 (50.00%)  | 1 / 3 (33.33%)  | 1 / 3 (33.33%)   |
| occurrences (all)                                     | 3   | 1   | 1  |
| Pyrexia   |   |   |  |
| subjects affected / exposed                           | 4 / 6 (66.67%)  | 2 / 3 (66.67%)  | 3 / 3 (100.00%)  |
| occurrences (all)                                     | 5   | 3   | 3  |
| Pain  |   |   |  |
| subjects affected / exposed                           | 2 / 6 (33.33%)  | 0 / 3 (0.00%)   | 0 / 3 (0.00%)  |
| occurrences (all)                                     | 2   | 0   | 0  |
| Chills  |   |   |  |
| subjects affected / exposed                           | 1 / 6 (16.67%)  | 0 / 3 (0.00%)   | 0 / 3 (0.00%)  |
| occurrences (all)                                     | 1   | 0   | 0  |
| Influenza like illness                                |   |   |  |
| subjects affected / exposed                           | 1 / 6 (16.67%)  | 0 / 3 (0.00%)   | 0 / 3 (0.00%)  |
| occurrences (all)                                     | 1   | 0   | 0  |
| Malaise   |   |   |  |
| subjects affected / exposed                           | 1 / 6 (16.67%)  | 0 / 3 (0.00%)   | 0 / 3 (0.00%)  |
| occurrences (all)                                     | 1   | 0   | 0  |
| Oedema peripheral                                     |   |   |  |
| subjects affected / exposed                           | 0 / 6 (0.00%)   | 0 / 3 (0.00%)   | 1 / 3 (33.33%)   |
| occurrences (all)                                     | 0   | 0   | 1  |
| Catheter site pain                                    |   |   |  |
| subjects affected / exposed                           | 0 / 6 (0.00%)   | 0 / 3 (0.00%)   | 0 / 3 (0.00%)  |
| occurrences (all)                                     | 0   | 0   | 0  |

|   |                |                |                |
|---|----------------|----------------|----------------|
| Reproductive system and breast disorders        |                |                |                |
| Pruritus genital                                |                |                |                |
| subjects affected / exposed                     | 1 / 6 (16.67%) | 0 / 3 (0.00%)  | 0 / 3 (0.00%)  |
| occurrences (all)                               | 1              | 0              | 0              |
| Respiratory, thoracic and mediastinal disorders |                |                |                |
| Dyspnoea  |                |                |                |
| subjects affected / exposed                     | 0 / 6 (0.00%)  | 0 / 3 (0.00%)  | 1 / 3 (33.33%) |
| occurrences (all)                               | 0              | 0              | 1              |
| Cough   |                |                |                |
| subjects affected / exposed                     | 2 / 6 (33.33%) | 0 / 3 (0.00%)  | 0 / 3 (0.00%)  |
| occurrences (all)                               | 2              | 0              | 0              |
| Hypoxia   |                |                |                |
| subjects affected / exposed                     | 1 / 6 (16.67%) | 0 / 3 (0.00%)  | 2 / 3 (66.67%) |
| occurrences (all)                               | 1              | 0              | 2              |
| Tachypnoea                                      |                |                |                |
| subjects affected / exposed                     | 0 / 6 (0.00%)  | 0 / 3 (0.00%)  | 1 / 3 (33.33%) |
| occurrences (all)                               | 0              | 0              | 1              |
| Hiccups   |                |                |                |
| subjects affected / exposed                     | 0 / 6 (0.00%)  | 0 / 3 (0.00%)  | 1 / 3 (33.33%) |
| occurrences (all)                               | 0              | 0              | 1              |
| Epistaxis                                       |                |                |                |
| subjects affected / exposed                     | 0 / 6 (0.00%)  | 1 / 3 (33.33%) | 0 / 3 (0.00%)  |
| occurrences (all)                               | 0              | 1              | 0              |
| Dysphonia                                       |                |                |                |
| subjects affected / exposed                     | 1 / 6 (16.67%) | 0 / 3 (0.00%)  | 0 / 3 (0.00%)  |
| occurrences (all)                               | 1              | 0              | 0              |
| Psychiatric disorders                           |                |                |                |
| Confusional state                               |                |                |                |
| subjects affected / exposed                     | 2 / 6 (33.33%) | 1 / 3 (33.33%) | 1 / 3 (33.33%) |
| occurrences (all)                               | 2              | 1              | 1              |
| Hallucination                                   |                |                |                |
| subjects affected / exposed                     | 0 / 6 (0.00%)  | 0 / 3 (0.00%)  | 1 / 3 (33.33%) |
| occurrences (all)                               | 0              | 0              | 1              |
| Frustration tolerance decreased                 |                |                |                |
| subjects affected / exposed                     | 0 / 6 (0.00%)  | 0 / 3 (0.00%)  | 0 / 3 (0.00%)  |
| occurrences (all)                               | 0              | 0              | 0              |

|                                      |                |                |                |
|--------------------------------------|----------------|----------------|----------------|
| Delirium                             |                |                |                |
| subjects affected / exposed          | 0 / 6 (0.00%)  | 0 / 3 (0.00%)  | 1 / 3 (33.33%) |
| occurrences (all)                    | 0              | 0              | 1              |
| Anxiety                              |                |                |                |
| subjects affected / exposed          | 1 / 6 (16.67%) | 1 / 3 (33.33%) | 0 / 3 (0.00%)  |
| occurrences (all)                    | 1              | 1              | 0              |
| Insomnia                             |                |                |                |
| subjects affected / exposed          | 1 / 6 (16.67%) | 1 / 3 (33.33%) | 1 / 3 (33.33%) |
| occurrences (all)                    | 1              | 1              | 1              |
| Investigations                       |                |                |                |
| Neutrophil count decreased           |                |                |                |
| subjects affected / exposed          | 1 / 6 (16.67%) | 1 / 3 (33.33%) | 2 / 3 (66.67%) |
| occurrences (all)                    | 2              | 1              | 4              |
| Platelet count decreased             |                |                |                |
| subjects affected / exposed          | 0 / 6 (0.00%)  | 1 / 3 (33.33%) | 2 / 3 (66.67%) |
| occurrences (all)                    | 0              | 5              | 2              |
| White blood cell count decreased     |                |                |                |
| subjects affected / exposed          | 1 / 6 (16.67%) | 1 / 3 (33.33%) | 1 / 3 (33.33%) |
| occurrences (all)                    | 1              | 1              | 2              |
| Alanine aminotransferase increased   |                |                |                |
| subjects affected / exposed          | 1 / 6 (16.67%) | 0 / 3 (0.00%)  | 1 / 3 (33.33%) |
| occurrences (all)                    | 1              | 0              | 1              |
| Aspartate aminotransferase increased |                |                |                |
| subjects affected / exposed          | 1 / 6 (16.67%) | 0 / 3 (0.00%)  | 1 / 3 (33.33%) |
| occurrences (all)                    | 1              | 0              | 1              |
| Blood creatinine increased           |                |                |                |
| subjects affected / exposed          | 0 / 6 (0.00%)  | 1 / 3 (33.33%) | 1 / 3 (33.33%) |
| occurrences (all)                    | 0              | 4              | 1              |
| Blood alkaline phosphatase increased |                |                |                |
| subjects affected / exposed          | 0 / 6 (0.00%)  | 0 / 3 (0.00%)  | 1 / 3 (33.33%) |
| occurrences (all)                    | 0              | 0              | 1              |
| Blood bicarbonate decreased          |                |                |                |
| subjects affected / exposed          | 0 / 6 (0.00%)  | 0 / 3 (0.00%)  | 0 / 3 (0.00%)  |
| occurrences (all)                    | 0              | 0              | 0              |
| Blood bilirubin increased            |                |                |                |

|  |                |                |                |
|--|----------------|----------------|----------------|
| subjects affected / exposed                    | 0 / 6 (0.00%)  | 0 / 3 (0.00%)  | 1 / 3 (33.33%) |
| occurrences (all)                              | 0              | 0              | 1              |
| Blood lactate dehydrogenase increased          |                |                |                |
| subjects affected / exposed                    | 0 / 6 (0.00%)  | 1 / 3 (33.33%) | 0 / 3 (0.00%)  |
| occurrences (all)                              | 0              | 2              | 0              |
| C-reactive protein increased                   |                |                |                |
| subjects affected / exposed                    | 1 / 6 (16.67%) | 0 / 3 (0.00%)  | 0 / 3 (0.00%)  |
| occurrences (all)                              | 2              | 0              | 0              |
| Electrocardiogram QT prolonged                 |                |                |                |
| subjects affected / exposed                    | 1 / 6 (16.67%) | 0 / 3 (0.00%)  | 0 / 3 (0.00%)  |
| occurrences (all)                              | 1              | 0              | 0              |
| Lymphocyte count decreased                     |                |                |                |
| subjects affected / exposed                    | 0 / 6 (0.00%)  | 0 / 3 (0.00%)  | 1 / 3 (33.33%) |
| occurrences (all)                              | 0              | 0              | 1              |
| Lymphocyte count increased                     |                |                |                |
| subjects affected / exposed                    | 0 / 6 (0.00%)  | 1 / 3 (33.33%) | 0 / 3 (0.00%)  |
| occurrences (all)                              | 0              | 1              | 0              |
| Injury, poisoning and procedural complications |                |                |                |
| Fall   |                |                |                |
| subjects affected / exposed                    | 0 / 6 (0.00%)  | 0 / 3 (0.00%)  | 1 / 3 (33.33%) |
| occurrences (all)                              | 0              | 0              | 1              |
| Cardiac disorders                              |                |                |                |
| Sinus bradycardia                              |                |                |                |
| subjects affected / exposed                    | 0 / 6 (0.00%)  | 0 / 3 (0.00%)  | 1 / 3 (33.33%) |
| occurrences (all)                              | 0              | 0              | 1              |
| Tachycardia                                    |                |                |                |
| subjects affected / exposed                    | 0 / 6 (0.00%)  | 0 / 3 (0.00%)  | 1 / 3 (33.33%) |
| occurrences (all)                              | 0              | 0              | 1              |
| Pericardial effusion                           |                |                |                |
| subjects affected / exposed                    | 0 / 6 (0.00%)  | 0 / 3 (0.00%)  | 1 / 3 (33.33%) |
| occurrences (all)                              | 0              | 0              | 1              |
| Sinus tachycardia                              |                |                |                |
| subjects affected / exposed                    | 2 / 6 (33.33%) | 1 / 3 (33.33%) | 1 / 3 (33.33%) |
| occurrences (all)                              | 2              | 1              | 2              |
| Nervous system disorders                       |                |                |                |

|                             |                |                |                |
|-----------------------------|----------------|----------------|----------------|
| Encephalopathy              |                |                |                |
| subjects affected / exposed | 0 / 6 (0.00%)  | 0 / 3 (0.00%)  | 1 / 3 (33.33%) |
| occurrences (all)           | 0              | 0              | 1              |
| Headache                    |                |                |                |
| subjects affected / exposed | 5 / 6 (83.33%) | 2 / 3 (66.67%) | 1 / 3 (33.33%) |
| occurrences (all)           | 8              | 4              | 1              |
| Dizziness                   |                |                |                |
| subjects affected / exposed | 2 / 6 (33.33%) | 0 / 3 (0.00%)  | 2 / 3 (66.67%) |
| occurrences (all)           | 2              | 0              | 2              |
| Tremor                      |                |                |                |
| subjects affected / exposed | 2 / 6 (33.33%) | 0 / 3 (0.00%)  | 2 / 3 (66.67%) |
| occurrences (all)           | 3              | 0              | 2              |
| Aphasia                     |                |                |                |
| subjects affected / exposed | 1 / 6 (16.67%) | 0 / 3 (0.00%)  | 2 / 3 (66.67%) |
| occurrences (all)           | 1              | 0              | 2              |
| Cognitive disorder          |                |                |                |
| subjects affected / exposed | 2 / 6 (33.33%) | 0 / 3 (0.00%)  | 0 / 3 (0.00%)  |
| occurrences (all)           | 3              | 0              | 0              |
| Amnesia                     |                |                |                |
| subjects affected / exposed | 1 / 6 (16.67%) | 0 / 3 (0.00%)  | 0 / 3 (0.00%)  |
| occurrences (all)           | 1              | 0              | 0              |
| Ataxia                      |                |                |                |
| subjects affected / exposed | 1 / 6 (16.67%) | 0 / 3 (0.00%)  | 0 / 3 (0.00%)  |
| occurrences (all)           | 1              | 0              | 0              |
| Dysgeusia                   |                |                |                |
| subjects affected / exposed | 1 / 6 (16.67%) | 0 / 3 (0.00%)  | 0 / 3 (0.00%)  |
| occurrences (all)           | 1              | 0              | 0              |
| Dysgraphia                  |                |                |                |
| subjects affected / exposed | 0 / 6 (0.00%)  | 0 / 3 (0.00%)  | 1 / 3 (33.33%) |
| occurrences (all)           | 0              | 0              | 1              |
| Transient ischaemic attack  |                |                |                |
| subjects affected / exposed | 0 / 6 (0.00%)  | 0 / 3 (0.00%)  | 1 / 3 (33.33%) |
| occurrences (all)           | 0              | 0              | 1              |
| Taste disorder              |                |                |                |
| subjects affected / exposed | 1 / 6 (16.67%) | 0 / 3 (0.00%)  | 0 / 3 (0.00%)  |
| occurrences (all)           | 1              | 0              | 0              |



|                                      |                |                |                |
|--------------------------------------|----------------|----------------|----------------|
| Somnolence                           |                |                |                |
| subjects affected / exposed          | 0 / 6 (0.00%)  | 0 / 3 (0.00%)  | 1 / 3 (33.33%) |
| occurrences (all)                    | 0              | 0              | 1              |
| Nystagmus                            |                |                |                |
| subjects affected / exposed          | 1 / 6 (16.67%) | 0 / 3 (0.00%)  | 0 / 3 (0.00%)  |
| occurrences (all)                    | 1              | 0              | 0              |
| Lethargy                             |                |                |                |
| subjects affected / exposed          | 1 / 6 (16.67%) | 0 / 3 (0.00%)  | 0 / 3 (0.00%)  |
| occurrences (all)                    | 1              | 0              | 0              |
| Blood and lymphatic system disorders |                |                |                |
| Anaemia                              |                |                |                |
| subjects affected / exposed          | 2 / 6 (33.33%) | 2 / 3 (66.67%) | 1 / 3 (33.33%) |
| occurrences (all)                    | 3              | 5              | 1              |
| Neutropenia                          |                |                |                |
| subjects affected / exposed          | 4 / 6 (66.67%) | 2 / 3 (66.67%) | 0 / 3 (0.00%)  |
| occurrences (all)                    | 9              | 4              | 0              |
| Leukopenia                           |                |                |                |
| subjects affected / exposed          | 0 / 6 (0.00%)  | 1 / 3 (33.33%) | 0 / 3 (0.00%)  |
| occurrences (all)                    | 0              | 1              | 0              |
| Thrombocytopenia                     |                |                |                |
| subjects affected / exposed          | 2 / 6 (33.33%) | 1 / 3 (33.33%) | 0 / 3 (0.00%)  |
| occurrences (all)                    | 2              | 4              | 0              |
| Pancytopenia                         |                |                |                |
| subjects affected / exposed          | 0 / 6 (0.00%)  | 0 / 3 (0.00%)  | 1 / 3 (33.33%) |
| occurrences (all)                    | 0              | 0              | 1              |
| Lymphadenopathy                      |                |                |                |
| subjects affected / exposed          | 0 / 6 (0.00%)  | 0 / 3 (0.00%)  | 0 / 3 (0.00%)  |
| occurrences (all)                    | 0              | 0              | 0              |
| Eye disorders                        |                |                |                |
| Dry eye                              |                |                |                |
| subjects affected / exposed          | 0 / 6 (0.00%)  | 0 / 3 (0.00%)  | 1 / 3 (33.33%) |
| occurrences (all)                    | 0              | 0              | 1              |
| Retinal tear                         |                |                |                |
| subjects affected / exposed          | 1 / 6 (16.67%) | 0 / 3 (0.00%)  | 0 / 3 (0.00%)  |
| occurrences (all)                    | 1              | 0              | 0              |
| Vitreous floaters                    |                |                |                |

|  |                    |                    |                    |
|--|--------------------|--------------------|--------------------|
| subjects affected / exposed<br>occurrences (all) | 0 / 6 (0.00%)<br>0 | 0 / 3 (0.00%)<br>0 | 0 / 3 (0.00%)<br>0 |
| Gastrointestinal disorders                       |                    |                    |                    |
| Diarrhoea  |                    |                    |                    |
| subjects affected / exposed                      | 2 / 6 (33.33%)     | 0 / 3 (0.00%)      | 2 / 3 (66.67%)     |
| occurrences (all)                                | 2                  | 0                  | 2                  |
| Nausea   |                    |                    |                    |
| subjects affected / exposed                      | 2 / 6 (33.33%)     | 1 / 3 (33.33%)     | 1 / 3 (33.33%)     |
| occurrences (all)                                | 2                  | 1                  | 1                  |
| Constipation                                     |                    |                    |                    |
| subjects affected / exposed                      | 2 / 6 (33.33%)     | 1 / 3 (33.33%)     | 0 / 3 (0.00%)      |
| occurrences (all)                                | 2                  | 3                  | 0                  |
| Abdominal pain                                   |                    |                    |                    |
| subjects affected / exposed                      | 1 / 6 (16.67%)     | 0 / 3 (0.00%)      | 0 / 3 (0.00%)      |
| occurrences (all)                                | 1                  | 0                  | 0                  |
| Dry mouth  |                    |                    |                    |
| subjects affected / exposed                      | 0 / 6 (0.00%)      | 0 / 3 (0.00%)      | 0 / 3 (0.00%)      |
| occurrences (all)                                | 0                  | 0                  | 0                  |
| Odynophagia                                      |                    |                    |                    |
| subjects affected / exposed                      | 1 / 6 (16.67%)     | 0 / 3 (0.00%)      | 0 / 3 (0.00%)      |
| occurrences (all)                                | 1                  | 0                  | 0                  |
| Hepatobiliary disorders                          |                    |                    |                    |
| Hepatotoxicity                                   |                    |                    |                    |
| subjects affected / exposed                      | 0 / 6 (0.00%)      | 0 / 3 (0.00%)      | 1 / 3 (33.33%)     |
| occurrences (all)                                | 0                  | 0                  | 1                  |
| Skin and subcutaneous tissue disorders           |                    |                    |                    |
| Rash pruritic                                    |                    |                    |                    |
| subjects affected / exposed                      | 1 / 6 (16.67%)     | 0 / 3 (0.00%)      | 0 / 3 (0.00%)      |
| occurrences (all)                                | 1                  | 0                  | 0                  |
| Rash   |                    |                    |                    |
| subjects affected / exposed                      | 0 / 6 (0.00%)      | 0 / 3 (0.00%)      | 1 / 3 (33.33%)     |
| occurrences (all)                                | 0                  | 0                  | 1                  |
| Pruritus   |                    |                    |                    |
| subjects affected / exposed                      | 1 / 6 (16.67%)     | 0 / 3 (0.00%)      | 0 / 3 (0.00%)      |
| occurrences (all)                                | 1                  | 0                  | 0                  |
| Petechiae  |                    |                    |                    |

|   |                |                |                |
|---|----------------|----------------|----------------|
| subjects affected / exposed                     | 1 / 6 (16.67%) | 0 / 3 (0.00%)  | 0 / 3 (0.00%)  |
| occurrences (all)                               | 1              | 0              | 0              |
| Night sweats                                    |                |                |                |
| subjects affected / exposed                     | 0 / 6 (0.00%)  | 1 / 3 (33.33%) | 0 / 3 (0.00%)  |
| occurrences (all)                               | 0              | 2              | 0              |
| Rash maculo-papular                             |                |                |                |
| subjects affected / exposed                     | 2 / 6 (33.33%) | 0 / 3 (0.00%)  | 1 / 3 (33.33%) |
| occurrences (all)                               | 2              | 0              | 1              |
| Erythema  |                |                |                |
| subjects affected / exposed                     | 1 / 6 (16.67%) | 0 / 3 (0.00%)  | 0 / 3 (0.00%)  |
| occurrences (all)                               | 1              | 0              | 0              |
| Renal and urinary disorders                     |                |                |                |
| Urinary incontinence                            |                |                |                |
| subjects affected / exposed                     | 0 / 6 (0.00%)  | 0 / 3 (0.00%)  | 0 / 3 (0.00%)  |
| occurrences (all)                               | 0              | 0              | 0              |
| Pollakiuria                                     |                |                |                |
| subjects affected / exposed                     | 0 / 6 (0.00%)  | 0 / 3 (0.00%)  | 1 / 3 (33.33%) |
| occurrences (all)                               | 0              | 0              | 1              |
| Acute kidney injury                             |                |                |                |
| subjects affected / exposed                     | 0 / 6 (0.00%)  | 0 / 3 (0.00%)  | 1 / 3 (33.33%) |
| occurrences (all)                               | 0              | 0              | 1              |
| Musculoskeletal and connective tissue disorders |                |                |                |
| Muscular weakness                               |                |                |                |
| subjects affected / exposed                     | 2 / 6 (33.33%) | 0 / 3 (0.00%)  | 1 / 3 (33.33%) |
| occurrences (all)                               | 2              | 0              | 1              |
| Bone pain                                       |                |                |                |
| subjects affected / exposed                     | 1 / 6 (16.67%) | 1 / 3 (33.33%) | 0 / 3 (0.00%)  |
| occurrences (all)                               | 1              | 2              | 0              |
| Arthralgia                                      |                |                |                |
| subjects affected / exposed                     | 1 / 6 (16.67%) | 0 / 3 (0.00%)  | 0 / 3 (0.00%)  |
| occurrences (all)                               | 1              | 0              | 0              |
| Musculoskeletal pain                            |                |                |                |
| subjects affected / exposed                     | 0 / 6 (0.00%)  | 1 / 3 (33.33%) | 0 / 3 (0.00%)  |
| occurrences (all)                               | 0              | 1              | 0              |
| Infections and infestations                     |                |                |                |

|                                    |                |                |                |
|------------------------------------|----------------|----------------|----------------|
| Candida infection                  |                |                |                |
| subjects affected / exposed        | 1 / 6 (16.67%) | 0 / 3 (0.00%)  | 0 / 3 (0.00%)  |
| occurrences (all)                  | 1              | 0              | 0              |
| Covid-19                           |                |                |                |
| subjects affected / exposed        | 0 / 6 (0.00%)  | 0 / 3 (0.00%)  | 1 / 3 (33.33%) |
| occurrences (all)                  | 0              | 0              | 1              |
| Cytomegalovirus viraemia           |                |                |                |
| subjects affected / exposed        | 0 / 6 (0.00%)  | 1 / 3 (33.33%) | 0 / 3 (0.00%)  |
| occurrences (all)                  | 0              | 1              | 0              |
| Folliculitis                       |                |                |                |
| subjects affected / exposed        | 0 / 6 (0.00%)  | 0 / 3 (0.00%)  | 0 / 3 (0.00%)  |
| occurrences (all)                  | 0              | 0              | 0              |
| Oral candidiasis                   |                |                |                |
| subjects affected / exposed        | 0 / 6 (0.00%)  | 0 / 3 (0.00%)  | 1 / 3 (33.33%) |
| occurrences (all)                  | 0              | 0              | 1              |
| Pneumonia                          |                |                |                |
| subjects affected / exposed        | 0 / 6 (0.00%)  | 0 / 3 (0.00%)  | 0 / 3 (0.00%)  |
| occurrences (all)                  | 0              | 0              | 0              |
| Pneumonia aspiration               |                |                |                |
| subjects affected / exposed        | 0 / 6 (0.00%)  | 0 / 3 (0.00%)  | 1 / 3 (33.33%) |
| occurrences (all)                  | 0              | 0              | 1              |
| Rhinovirus infection               |                |                |                |
| subjects affected / exposed        | 0 / 6 (0.00%)  | 1 / 3 (33.33%) | 0 / 3 (0.00%)  |
| occurrences (all)                  | 0              | 1              | 0              |
| Metabolism and nutrition disorders |                |                |                |
| Hypocalcaemia                      |                |                |                |
| subjects affected / exposed        | 1 / 6 (16.67%) | 1 / 3 (33.33%) | 1 / 3 (33.33%) |
| occurrences (all)                  | 1              | 2              | 1              |
| Hypophosphataemia                  |                |                |                |
| subjects affected / exposed        | 0 / 6 (0.00%)  | 1 / 3 (33.33%) | 2 / 3 (66.67%) |
| occurrences (all)                  | 0              | 1              | 3              |
| Decreased appetite                 |                |                |                |
| subjects affected / exposed        | 0 / 6 (0.00%)  | 0 / 3 (0.00%)  | 1 / 3 (33.33%) |
| occurrences (all)                  | 0              | 0              | 1              |
| Hyperglycaemia                     |                |                |                |

|                             |               |                |                |
|-----------------------------|---------------|----------------|----------------|
| subjects affected / exposed | 0 / 6 (0.00%) | 1 / 3 (33.33%) | 1 / 3 (33.33%) |
| occurrences (all)           | 0             | 1              | 1              |
| Hypokalaemia                |               |                |                |
| subjects affected / exposed | 0 / 6 (0.00%) | 0 / 3 (0.00%)  | 2 / 3 (66.67%) |
| occurrences (all)           | 0             | 0              | 2              |
| Hypomagnesaemia             |               |                |                |
| subjects affected / exposed | 0 / 6 (0.00%) | 1 / 3 (33.33%) | 0 / 3 (0.00%)  |
| occurrences (all)           | 0             | 1              | 0              |
| Hypervolaemia               |               |                |                |
| subjects affected / exposed | 0 / 6 (0.00%) | 0 / 3 (0.00%)  | 1 / 3 (33.33%) |
| occurrences (all)           | 0             | 0              | 1              |
| Hypermagnesaemia            |               |                |                |
| subjects affected / exposed | 0 / 6 (0.00%) | 1 / 3 (33.33%) | 0 / 3 (0.00%)  |
| occurrences (all)           | 0             | 2              | 0              |
| Hyponatraemia               |               |                |                |
| subjects affected / exposed | 0 / 6 (0.00%) | 1 / 3 (33.33%) | 1 / 3 (33.33%) |
| occurrences (all)           | 0             | 1              | 1              |
| Hypoalbuminaemia            |               |                |                |
| subjects affected / exposed | 0 / 6 (0.00%) | 0 / 3 (0.00%)  | 1 / 3 (33.33%) |
| occurrences (all)           | 0             | 0              | 1              |

|   |   |  |  |
|---|---|--|--|
| <b>Non-serious adverse events</b>                     | First Stage Cohort<br>2: 2 x 10 <sup>6</sup> Anti-CD19 CAR T Cells/kg |  |  |
| Total subjects affected by non-serious adverse events |   |  |  |
| subjects affected / exposed                           | 3 / 3 (100.00%)   |  |  |
| Vascular disorders                                    |   |  |  |
| Hypotension   |   |  |  |
| subjects affected / exposed                           | 0 / 3 (0.00%)   |  |  |
| occurrences (all)                                     | 0   |  |  |
| Hypertension  |   |  |  |
| subjects affected / exposed                           | 0 / 3 (0.00%)   |  |  |
| occurrences (all)                                     | 0   |  |  |
| General disorders and administration site conditions  |   |  |  |
| Fatigue   |   |  |  |
| subjects affected / exposed                           | 2 / 3 (66.67%)  |  |  |
| occurrences (all)                                     | 2   |  |  |
| Pyrexia   |   |  |  |

|   |                |  |  |
|---|----------------|--|--|
| subjects affected / exposed                     | 1 / 3 (33.33%) |  |  |
| occurrences (all)                               | 2              |  |  |
| Pain  |                |  |  |
| subjects affected / exposed                     | 0 / 3 (0.00%)  |  |  |
| occurrences (all)                               | 0              |  |  |
| Chills  |                |  |  |
| subjects affected / exposed                     | 0 / 3 (0.00%)  |  |  |
| occurrences (all)                               | 0              |  |  |
| Influenza like illness                          |                |  |  |
| subjects affected / exposed                     | 0 / 3 (0.00%)  |  |  |
| occurrences (all)                               | 0              |  |  |
| Malaise   |                |  |  |
| subjects affected / exposed                     | 0 / 3 (0.00%)  |  |  |
| occurrences (all)                               | 0              |  |  |
| Oedema peripheral                               |                |  |  |
| subjects affected / exposed                     | 0 / 3 (0.00%)  |  |  |
| occurrences (all)                               | 0              |  |  |
| Catheter site pain                              |                |  |  |
| subjects affected / exposed                     | 1 / 3 (33.33%) |  |  |
| occurrences (all)                               | 1              |  |  |
| Reproductive system and breast disorders        |                |  |  |
| Pruritus genital                                |                |  |  |
| subjects affected / exposed                     | 0 / 3 (0.00%)  |  |  |
| occurrences (all)                               | 0              |  |  |
| Respiratory, thoracic and mediastinal disorders |                |  |  |
| Dyspnoea  |                |  |  |
| subjects affected / exposed                     | 2 / 3 (66.67%) |  |  |
| occurrences (all)                               | 2              |  |  |
| Cough   |                |  |  |
| subjects affected / exposed                     | 1 / 3 (33.33%) |  |  |
| occurrences (all)                               | 1              |  |  |
| Hypoxia   |                |  |  |
| subjects affected / exposed                     | 1 / 3 (33.33%) |  |  |
| occurrences (all)                               | 1              |  |  |
| Tachypnoea                                      |                |  |  |

|  |                     |  |  |
|--|---------------------|--|--|
| subjects affected / exposed<br>occurrences (all)   | 0 / 3 (0.00%)<br>0  |  |  |
| Hiccups<br>subjects affected / exposed<br>occurrences (all)                                      | 0 / 3 (0.00%)<br>0  |  |  |
| Epistaxis<br>subjects affected / exposed<br>occurrences (all)                                    | 0 / 3 (0.00%)<br>0  |  |  |
| Dysphonia<br>subjects affected / exposed<br>occurrences (all)                                    | 0 / 3 (0.00%)<br>0  |  |  |
| Psychiatric disorders<br>Confusional state<br>subjects affected / exposed<br>occurrences (all)   | 0 / 3 (0.00%)<br>0  |  |  |
| Hallucination<br>subjects affected / exposed<br>occurrences (all)                                | 0 / 3 (0.00%)<br>0  |  |  |
| Frustration tolerance decreased<br>subjects affected / exposed<br>occurrences (all)              | 1 / 3 (33.33%)<br>1 |  |  |
| Delirium<br>subjects affected / exposed<br>occurrences (all)                                     | 1 / 3 (33.33%)<br>1 |  |  |
| Anxiety<br>subjects affected / exposed<br>occurrences (all)                                      | 0 / 3 (0.00%)<br>0  |  |  |
| Insomnia<br>subjects affected / exposed<br>occurrences (all)                                     | 0 / 3 (0.00%)<br>0  |  |  |
| Investigations<br>Neutrophil count decreased<br>subjects affected / exposed<br>occurrences (all) | 0 / 3 (0.00%)<br>0  |  |  |
| Platelet count decreased   |                     |  |  |

|                                       |                |  |  |
|---------------------------------------|----------------|--|--|
| subjects affected / exposed           | 0 / 3 (0.00%)  |  |  |
| occurrences (all)                     | 0              |  |  |
| White blood cell count decreased      |                |  |  |
| subjects affected / exposed           | 0 / 3 (0.00%)  |  |  |
| occurrences (all)                     | 0              |  |  |
| Alanine aminotransferase increased    |                |  |  |
| subjects affected / exposed           | 0 / 3 (0.00%)  |  |  |
| occurrences (all)                     | 0              |  |  |
| Aspartate aminotransferase increased  |                |  |  |
| subjects affected / exposed           | 0 / 3 (0.00%)  |  |  |
| occurrences (all)                     | 0              |  |  |
| Blood creatinine increased            |                |  |  |
| subjects affected / exposed           | 0 / 3 (0.00%)  |  |  |
| occurrences (all)                     | 0              |  |  |
| Blood alkaline phosphatase increased  |                |  |  |
| subjects affected / exposed           | 0 / 3 (0.00%)  |  |  |
| occurrences (all)                     | 0              |  |  |
| Blood bicarbonate decreased           |                |  |  |
| subjects affected / exposed           | 1 / 3 (33.33%) |  |  |
| occurrences (all)                     | 1              |  |  |
| Blood bilirubin increased             |                |  |  |
| subjects affected / exposed           | 0 / 3 (0.00%)  |  |  |
| occurrences (all)                     | 0              |  |  |
| Blood lactate dehydrogenase increased |                |  |  |
| subjects affected / exposed           | 0 / 3 (0.00%)  |  |  |
| occurrences (all)                     | 0              |  |  |
| C-reactive protein increased          |                |  |  |
| subjects affected / exposed           | 0 / 3 (0.00%)  |  |  |
| occurrences (all)                     | 0              |  |  |
| Electrocardiogram QT prolonged        |                |  |  |
| subjects affected / exposed           | 0 / 3 (0.00%)  |  |  |
| occurrences (all)                     | 0              |  |  |
| Lymphocyte count decreased            |                |  |  |



|   |  |  |  |
|---|--|--|--|
| <p>subjects affected / exposed</p> <p>occurrences (all)</p> <p>Lymphocyte count increased</p> <p>subjects affected / exposed</p> <p>occurrences (all)</p>   | <p>0 / 3 (0.00%)</p> <p>0</p> <p>0 / 3 (0.00%)</p> <p>0</p>  |  |  |
| <p>Injury, poisoning and procedural complications</p> <p>Fall</p> <p>subjects affected / exposed</p> <p>occurrences (all)</p>   | <p>0 / 3 (0.00%)</p> <p>0</p>  |  |  |
| <p>Cardiac disorders</p> <p>Sinus bradycardia</p> <p>subjects affected / exposed</p> <p>occurrences (all)</p> <p>Tachycardia</p> <p>subjects affected / exposed</p> <p>occurrences (all)</p> <p>Pericardial effusion</p> <p>subjects affected / exposed</p> <p>occurrences (all)</p> <p>Sinus tachycardia</p> <p>subjects affected / exposed</p> <p>occurrences (all)</p> | <p>0 / 3 (0.00%)</p> <p>0</p> <p>0 / 3 (0.00%)</p> <p>0</p> <p>0 / 3 (0.00%)</p> <p>0</p> <p>0 / 3 (0.00%)</p> <p>0</p>  |  |  |
| <p>Nervous system disorders</p> <p>Encephalopathy</p> <p>subjects affected / exposed</p> <p>occurrences (all)</p> <p>Headache</p> <p>subjects affected / exposed</p> <p>occurrences (all)</p> <p>Dizziness</p> <p>subjects affected / exposed</p> <p>occurrences (all)</p> <p>Tremor</p> <p>subjects affected / exposed</p> <p>occurrences (all)</p> <p>Aphasia</p>       | <p>0 / 3 (0.00%)</p> <p>0</p> <p>1 / 3 (33.33%)</p> <p>2</p> <p>0 / 3 (0.00%)</p> <p>0</p> <p>0 / 3 (0.00%)</p> <p>0</p> |  |  |

|                                      |                |  |  |
|--------------------------------------|----------------|--|--|
| subjects affected / exposed          | 0 / 3 (0.00%)  |  |  |
| occurrences (all)                    | 0              |  |  |
| Cognitive disorder                   |                |  |  |
| subjects affected / exposed          | 0 / 3 (0.00%)  |  |  |
| occurrences (all)                    | 0              |  |  |
| Amnesia                              |                |  |  |
| subjects affected / exposed          | 0 / 3 (0.00%)  |  |  |
| occurrences (all)                    | 0              |  |  |
| Ataxia                               |                |  |  |
| subjects affected / exposed          | 0 / 3 (0.00%)  |  |  |
| occurrences (all)                    | 0              |  |  |
| Dysgeusia                            |                |  |  |
| subjects affected / exposed          | 0 / 3 (0.00%)  |  |  |
| occurrences (all)                    | 0              |  |  |
| Dysgraphia                           |                |  |  |
| subjects affected / exposed          | 0 / 3 (0.00%)  |  |  |
| occurrences (all)                    | 0              |  |  |
| Transient ischaemic attack           |                |  |  |
| subjects affected / exposed          | 0 / 3 (0.00%)  |  |  |
| occurrences (all)                    | 0              |  |  |
| Taste disorder                       |                |  |  |
| subjects affected / exposed          | 0 / 3 (0.00%)  |  |  |
| occurrences (all)                    | 0              |  |  |
| Somnolence                           |                |  |  |
| subjects affected / exposed          | 0 / 3 (0.00%)  |  |  |
| occurrences (all)                    | 0              |  |  |
| Nystagmus                            |                |  |  |
| subjects affected / exposed          | 0 / 3 (0.00%)  |  |  |
| occurrences (all)                    | 0              |  |  |
| Lethargy                             |                |  |  |
| subjects affected / exposed          | 0 / 3 (0.00%)  |  |  |
| occurrences (all)                    | 0              |  |  |
| Blood and lymphatic system disorders |                |  |  |
| Anaemia                              |                |  |  |
| subjects affected / exposed          | 2 / 3 (66.67%) |  |  |
| occurrences (all)                    | 5              |  |  |

|                             |                 |  |  |
|-----------------------------|-----------------|--|--|
| Neutropenia                 |                 |  |  |
| subjects affected / exposed | 3 / 3 (100.00%) |  |  |
| occurrences (all)           | 7               |  |  |
| Leukopenia                  |                 |  |  |
| subjects affected / exposed | 0 / 3 (0.00%)   |  |  |
| occurrences (all)           | 0               |  |  |
| Thrombocytopenia            |                 |  |  |
| subjects affected / exposed | 2 / 3 (66.67%)  |  |  |
| occurrences (all)           | 4               |  |  |
| Pancytopenia                |                 |  |  |
| subjects affected / exposed | 0 / 3 (0.00%)   |  |  |
| occurrences (all)           | 0               |  |  |
| Lymphadenopathy             |                 |  |  |
| subjects affected / exposed | 1 / 3 (33.33%)  |  |  |
| occurrences (all)           | 1               |  |  |
| Eye disorders               |                 |  |  |
| Dry eye                     |                 |  |  |
| subjects affected / exposed | 0 / 3 (0.00%)   |  |  |
| occurrences (all)           | 0               |  |  |
| Retinal tear                |                 |  |  |
| subjects affected / exposed | 0 / 3 (0.00%)   |  |  |
| occurrences (all)           | 0               |  |  |
| Vitreous floaters           |                 |  |  |
| subjects affected / exposed | 1 / 3 (33.33%)  |  |  |
| occurrences (all)           | 2               |  |  |
| Gastrointestinal disorders  |                 |  |  |
| Diarrhoea                   |                 |  |  |
| subjects affected / exposed | 1 / 3 (33.33%)  |  |  |
| occurrences (all)           | 3               |  |  |
| Nausea                      |                 |  |  |
| subjects affected / exposed | 1 / 3 (33.33%)  |  |  |
| occurrences (all)           | 1               |  |  |
| Constipation                |                 |  |  |
| subjects affected / exposed | 1 / 3 (33.33%)  |  |  |
| occurrences (all)           | 1               |  |  |
| Abdominal pain              |                 |  |  |

|  |                |  |  |
|--|----------------|--|--|
| subjects affected / exposed            | 0 / 3 (0.00%)  |  |  |
| occurrences (all)                      | 0              |  |  |
| Dry mouth                              |                |  |  |
| subjects affected / exposed            | 1 / 3 (33.33%) |  |  |
| occurrences (all)                      | 1              |  |  |
| Odynophagia                            |                |  |  |
| subjects affected / exposed            | 0 / 3 (0.00%)  |  |  |
| occurrences (all)                      | 0              |  |  |
| Hepatobiliary disorders                |                |  |  |
| Hepatotoxicity                         |                |  |  |
| subjects affected / exposed            | 0 / 3 (0.00%)  |  |  |
| occurrences (all)                      | 0              |  |  |
| Skin and subcutaneous tissue disorders |                |  |  |
| Rash pruritic                          |                |  |  |
| subjects affected / exposed            | 0 / 3 (0.00%)  |  |  |
| occurrences (all)                      | 0              |  |  |
| Rash                                   |                |  |  |
| subjects affected / exposed            | 0 / 3 (0.00%)  |  |  |
| occurrences (all)                      | 0              |  |  |
| Pruritus                               |                |  |  |
| subjects affected / exposed            | 0 / 3 (0.00%)  |  |  |
| occurrences (all)                      | 0              |  |  |
| Petechiae                              |                |  |  |
| subjects affected / exposed            | 0 / 3 (0.00%)  |  |  |
| occurrences (all)                      | 0              |  |  |
| Night sweats                           |                |  |  |
| subjects affected / exposed            | 0 / 3 (0.00%)  |  |  |
| occurrences (all)                      | 0              |  |  |
| Rash maculo-papular                    |                |  |  |
| subjects affected / exposed            | 1 / 3 (33.33%) |  |  |
| occurrences (all)                      | 1              |  |  |
| Erythema                               |                |  |  |
| subjects affected / exposed            | 0 / 3 (0.00%)  |  |  |
| occurrences (all)                      | 0              |  |  |
| Renal and urinary disorders            |                |  |  |

|  |                     |  |  |
|--|---------------------|--|--|
| Urinary incontinence<br>subjects affected / exposed<br>occurrences (all)     | 1 / 3 (33.33%)<br>1 |  |  |
| Pollakiuria<br>subjects affected / exposed<br>occurrences (all)              | 0 / 3 (0.00%)<br>0  |  |  |
| Acute kidney injury<br>subjects affected / exposed<br>occurrences (all)      | 0 / 3 (0.00%)<br>0  |  |  |
| Musculoskeletal and connective tissue disorders                              |                     |  |  |
| Muscular weakness<br>subjects affected / exposed<br>occurrences (all)        | 1 / 3 (33.33%)<br>1 |  |  |
| Bone pain<br>subjects affected / exposed<br>occurrences (all)                | 0 / 3 (0.00%)<br>0  |  |  |
| Arthralgia<br>subjects affected / exposed<br>occurrences (all)               | 0 / 3 (0.00%)<br>0  |  |  |
| Musculoskeletal pain<br>subjects affected / exposed<br>occurrences (all)     | 0 / 3 (0.00%)<br>0  |  |  |
| Infections and infestations  |                     |  |  |
| Candida infection<br>subjects affected / exposed<br>occurrences (all)        | 0 / 3 (0.00%)<br>0  |  |  |
| Covid-19<br>subjects affected / exposed<br>occurrences (all)                 | 0 / 3 (0.00%)<br>0  |  |  |
| Cytomegalovirus viraemia<br>subjects affected / exposed<br>occurrences (all) | 0 / 3 (0.00%)<br>0  |  |  |
| Folliculitis<br>subjects affected / exposed<br>occurrences (all)             | 1 / 3 (33.33%)<br>1 |  |  |
| Oral candidiasis   |                     |  |  |

|                                    |                |  |  |
|------------------------------------|----------------|--|--|
| subjects affected / exposed        | 0 / 3 (0.00%)  |  |  |
| occurrences (all)                  | 0              |  |  |
| Pneumonia                          |                |  |  |
| subjects affected / exposed        | 1 / 3 (33.33%) |  |  |
| occurrences (all)                  | 1              |  |  |
| Pneumonia aspiration               |                |  |  |
| subjects affected / exposed        | 0 / 3 (0.00%)  |  |  |
| occurrences (all)                  | 0              |  |  |
| Rhinovirus infection               |                |  |  |
| subjects affected / exposed        | 0 / 3 (0.00%)  |  |  |
| occurrences (all)                  | 0              |  |  |
| Metabolism and nutrition disorders |                |  |  |
| Hypocalcaemia                      |                |  |  |
| subjects affected / exposed        | 0 / 3 (0.00%)  |  |  |
| occurrences (all)                  | 0              |  |  |
| Hypophosphataemia                  |                |  |  |
| subjects affected / exposed        | 0 / 3 (0.00%)  |  |  |
| occurrences (all)                  | 0              |  |  |
| Decreased appetite                 |                |  |  |
| subjects affected / exposed        | 1 / 3 (33.33%) |  |  |
| occurrences (all)                  | 2              |  |  |
| Hyperglycaemia                     |                |  |  |
| subjects affected / exposed        | 0 / 3 (0.00%)  |  |  |
| occurrences (all)                  | 0              |  |  |
| Hypokalaemia                       |                |  |  |
| subjects affected / exposed        | 0 / 3 (0.00%)  |  |  |
| occurrences (all)                  | 0              |  |  |
| Hypomagnesaemia                    |                |  |  |
| subjects affected / exposed        | 0 / 3 (0.00%)  |  |  |
| occurrences (all)                  | 0              |  |  |
| Hypervolaemia                      |                |  |  |
| subjects affected / exposed        | 0 / 3 (0.00%)  |  |  |
| occurrences (all)                  | 0              |  |  |
| Hypermagnesaemia                   |                |  |  |
| subjects affected / exposed        | 0 / 3 (0.00%)  |  |  |
| occurrences (all)                  | 0              |  |  |

|                             |               |  |  |
|-----------------------------|---------------|--|--|
| Hyponatraemia               |               |  |  |
| subjects affected / exposed | 0 / 3 (0.00%) |  |  |
| occurrences (all)           | 0             |  |  |
| Hypoalbuminaemia            |               |  |  |
| subjects affected / exposed | 0 / 3 (0.00%) |  |  |
| occurrences (all)           | 0             |  |  |

## More information

### Substantial protocol amendments (globally)

Were there any global substantial amendments to the protocol? Yes

| Date        | Amendment   |
|-------------|---|
| 02 May 2019 | <ul style="list-style-type: none"><li>• Moved "Levels of anti-CD19 CAR T-cells in blood" to secondary endpoints, removing it from exploratory endpoints</li><li>• Updated 'bridging therapy' text to clarify language</li><li>• Added pharmacokinetics to secondary objectives and removed from exploratory objectives</li><li>• Updated 'study rationale' text to clarify language</li><li>• Updated the number of participating sites from "30" to "35"</li><li>• Updated inclusion criteria: to expand participant population and add washout period that was not previously specified</li><li>• Updated exclusion criteria: removed 'prior' in regard to no prior allo-stem cell transplant (SCT) versus no prior allo-SCT within 6 months, separated criteria into multiple criteria, included participants who may not receive KTE-X19 infusion</li><li>• Added "The investigational medicinal product (KTE-X19) must be available before initiation of conditioning chemotherapy"</li><li>• Added "The safety review team (SRT) safety review outcome was communicated to the active clinical study sites after the SRT safety review meeting."</li><li>• Removed "during the time between the planned interim analysis and primary analysis"</li><li>• Updated sample size considerations as "The primary analysis occurred when 60 participants in the modified intent to treat (mITT) set have had the opportunity to complete the month 6 disease assessment."</li><li>• Updated serious adverse event (SAE) reporting requirements as "reported in accordance with the European Union (EU) guidelines, or if applicable, per local reporting guidelines."</li><li>• Added "Post-infusion monitoring of participants must be for a minimum of 7 days unless otherwise required by country regulatory agencies."</li><li>• Added language to align with Yescarta label "Participants should be advised to refrain from driving and engaging in hazardous occupations or activities, such as operating heavy or potentially dangerous machinery, for at least 8 weeks following KTE-X19 infusion."</li></ul> |
| 27 May 2020 | <ul style="list-style-type: none"><li>• Title was updated to "A Phase 1 Multicenter Study Evaluating the Safety and Tolerability of KTE-X19 in Adult Subjects with Relapsed/Refractory Chronic Lymphocytic Leukemia and Small Lymphocytic Lymphoma"</li><li>• Updated primary, secondary, and exploratory objectives</li><li>• To account for the addition of SLL, background and updated publication data were added</li><li>• Updated study design based on suboptimal CAR T expansion seen in Phase 1 Cohort 1 and Cohort 2</li><li>• Added rationale for Cohorts 3 and 4</li><li>• Updated to reflect that due to the smaller enrollment of the study, limited to activated sites</li><li>• Updated to reflect enrollment in Phase 1 study to assess expansion of CAR T cell. Clarification throughout protocol that participants enrolled are enrolled and dosed with KTE-X19</li><li>• Inclusion criteria updated to include SLL and classified by cohort, imaging to confirm structural defects</li><li>• Removed sections: Patient Reported Outcomes, Central Review of Response, Data Safety Monitoring Board</li><li>• Updated to remove Phase 2 data safety monitoring board (DSMB) review criteria as no longer applicable</li><li>• Revised endpoints with removal of Phase 2: ORR remained as the secondary endpoint for Phase 1, revised secondary endpoints in response to removal of Phase 2 of study, patient reported outcomes no longer a component of the study; ORR secondary endpoint in selected Safe Dose Cohort</li><li>• Removal of Phase 2 references and planned interim analysis for futility and primary analysis due to the removal of Phase 2; updated sample size considerations to reflect revised study endpoints.</li></ul>  |



|                   |  |
|-------------------|--|
| 01 September 2021 | <ul style="list-style-type: none"> <li>• Added footnote in study schema to account for rollover to the long-term follow-up study</li> <li>• Added "Upon completion of Cohort 4A SRT, it was determined not to enroll participants in Cohort 4B."</li> <li>• Added Long-term follow-up (LTFU). After the end of KTE-C19-108, participants who received an infusion of KTE-X19 will complete the remainder of the 15-year follow-up assessments in a separate LTFU study, KT-US-982-5968</li> <li>• Updated study duration 'The duration of the study for individual participants vary depending on a participant's screening requirements, response to treatment, and survival, and if applicable, timing of transition to the separate LTFU study, KT-US-982-5968</li> <li>• Updated LTFU details: All participants who received an infusion of KTE-X19 were provided the opportunity to transition to a separate LTFU study, KT-US-982-5968, where they were monitored for occurrence of late-onset targeted AEs/SAEs suspected to be possibly related to KTE-X19, presence of replication-competent retrovirus (RCR), and/or insertional mutagenesis for up to 15 years from the time of KTE-X19 infusion; In KT-US-982-5968, participants will continue assessments at timepoints contiguous with the LTFU timepoints in this study</li> <li>• Removed section KTE-X19 Retreatment</li> <li>• Updated SAEs reporting as 'Following completion of KTE-C19-108, any relevant information regarding ongoing SAEs must be submitted to Kite Pharma within 24 hours of the investigator's knowledge of the event using the hardcopy format SAE Report Form and sent via e-mail to the SAE Reporting mailbox: safety_FC@gilead.com.'</li> </ul> |
|-------------------|--|

Notes:

## Interruptions (globally)

Were there any global interruptions to the trial? Yes

| Date             | Interruption                    | Restart date |
|------------------|---------------------------------|--------------|
| 18 November 2022 | Development program terminated. | -            |

Notes:

## Limitations and caveats

None reported