

**Clinical trial results:****A Patient and Investigator-blinded, Randomized, Placebo-controlled Study of LLG783 in Patients with Peripheral Artery Disease (PAD) and Intermittent Claudication****Summary**

| | |
|--------------------------|------------------|
| EudraCT number | 2017-000706-37 |
| Trial protocol | DE |
| Global end of trial date | 27 December 2018 |

Results information

| | |
|--------------------------------|-----------------|
| Result version number | v1 (current) |
| This version publication date | 01 January 2020 |
| First version publication date | 01 January 2020 |

Trial information**Trial identification**

| | |
|-----------------------|--------------|
| Sponsor protocol code | CLLG783X2201 |
|-----------------------|--------------|

Additional study identifiers

| | |
|------------------------------------|-------------|
| ISRCTN number | - |
| ClinicalTrials.gov id (NCT number) | NCT03194776 |
| WHO universal trial number (UTN) | - |

Notes:

Sponsors

| | |
|------------------------------|--|
| Sponsor organisation name | Novartis Pharma AG |
| Sponsor organisation address | CH-4002, Basel, Switzerland, |
| Public contact | Medizinischer Infoservice (MCC), Novartis Pharma GmbH, +49 1802232300, infoservice.novartis@novartis.com |
| Scientific contact | Medizinischer Infoservice (MCC), Novartis Pharma GmbH, +49 1802232300, infoservice.novartis@novartis.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 | 27 December 2018 |
| Is this the analysis of the primary completion data? | No |

| | |
|----------------------------------|------------------|
| Global end of trial reached? | Yes |
| Global end of trial date | 27 December 2018 |
| Was the trial ended prematurely? | No |

Notes:

General information about the trial

Main objective of the trial:

The main objective of the trial was evaluate the safety and tolerability of LLG783 in subjects with PAD and intermittent claudication after 16 weeks of exposure to LLG783 and to evaluate the effect of LLG783 on functional capacity after 3 months of treatment in subjects with PAD and intermittent claudication.

Protection of trial subjects:

The study was in compliance with the ethical principles derived from the Declaration of Helsinki and in compliance with all International Conference on Harmonization (ICH) E6 and Good Clinical Practice (GCP) Guidelines. All the local regulatory requirements pertinent to safety of trial subjects were followed.

Background therapy: -

Evidence for comparator: -

| | |
|---|-------------------|
| Actual start date of recruitment | 20 September 2017 |
| Long term follow-up planned | No |
| Independent data monitoring committee (IDMC) involvement? | No |

Notes:

Population of trial subjects

Subjects enrolled per country

| | |
|--------------------------------------|------------------|
| Country: Number of subjects enrolled | Taiwan: 2 |
| Country: Number of subjects enrolled | United States: 4 |
| Country: Number of subjects enrolled | Germany: 40 |
| Worldwide total number of subjects | 46 |
| EEA total number of subjects | 40 |

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) | 14 |
| From 65 to 84 years | 32 |
| 85 years and over | 0 |

Subject disposition

Recruitment

Recruitment details: -

Pre-assignment

Screening details:

A total of 46 subjects with clinical evidence of PAD and intermittent claudication were enrolled and randomized in this study.

Period 1

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

Arms

| | |
|------------------------------|----------------|
| Are arms mutually exclusive? | Yes |
| Arm title | LLG783 6 mg/kg |

Arm description:

Subjects received LLG783 6 milligram per kilogram (mg/kg) as intravenous (IV) infusion once every 4 weeks for a total of 4 doses over a period of 12 weeks.

| | |
|--|---------------------------------|
| Arm type | Experimental |
| Investigational medicinal product name | LLG783 |
| Investigational medicinal product code | |
| Other name | |
| Pharmaceutical forms | Solution for injection/infusion |
| Routes of administration | Intravenous use |

Dosage and administration details:

Subjects received LLG783 6 mg/kg as IV infusion once every 4 weeks for a total of 4 doses over a period of 12 weeks.

| | |
|------------------|---------|
| Arm title | Placebo |
|------------------|---------|

Arm description:

Subjects received placebo as IV infusion once every 4 weeks for a total of 4 doses over a period of 12 weeks.

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

Dosage and administration details:

Subjects received placebo as IV infusion once every 4 weeks for a total of 4 doses over a period of 12 weeks.

| Number of subjects in period 1 | LLG783 6 mg/kg | Placebo |
|---------------------------------------|----------------|---------|
| Started | 23 | 23 |
| Completed | 23 | 23 |

Baseline characteristics

Reporting groups

| | |
|---|----------------|
| Reporting group title | LLG783 6 mg/kg |
| Reporting group description: | |
| Subjects received LLG783 6 milligram per kilogram (mg/kg) as intravenous (IV) infusion once every 4 weeks for a total of 4 doses over a period of 12 weeks. | |
| Reporting group title | Placebo |
| Reporting group description: | |
| Subjects received placebo as IV infusion once every 4 weeks for a total of 4 doses over a period of 12 weeks. | |

| Reporting group values | LLG783 6 mg/kg | Placebo | Total |
|--|----------------|---------|-------|
| Number of subjects | 23 | 23 | 46 |
| Age categorical | | | |
| Units: Subjects | | | |
| In utero | 0 | 0 | 0 |
| Preterm newborn infants (gestational age < 37 wks) | 0 | 0 | 0 |
| Newborns (0-27 days) | 0 | 0 | 0 |
| Infants and toddlers (28 days-23 months) | 0 | 0 | 0 |
| Children (2-11 years) | 0 | 0 | 0 |
| Adolescents (12-17 years) | 0 | 0 | 0 |
| Adults (18-64 years) | 7 | 7 | 14 |
| From 65-84 years | 16 | 16 | 32 |
| 85 years and over | 0 | 0 | 0 |
| Age continuous | | | |
| Units: years | | | |
| arithmetic mean | 67.0 | 66.3 | - |
| standard deviation | ± 7.1 | ± 6.9 | - |
| Gender categorical | | | |
| Units: Subjects | | | |
| Female | 8 | 5 | 13 |
| Male | 15 | 18 | 33 |
| Race | | | |
| Units: Subjects | | | |
| White | 23 | 21 | 44 |
| Asian | 0 | 2 | 2 |
| Ethnicity | | | |
| Units: Subjects | | | |
| Not Hispanic or Latino | 23 | 23 | 46 |
| Maximum walking distance (MWD) | | | |
| MWD was determined by 6-minute walking test (6-MWT), an exercise test measuring the distance walked by a participant over a span of 6 minutes. | | | |
| Units: meters (m) | | | |
| arithmetic mean | 317.3 | 311.3 | - |
| standard deviation | ± 62.0 | ± 84.0 | - |
| Pain Free Walking Distance (PWFD) | | | |
| PWFD was defined as the distance walked up to the point of onset of claudication symptoms (pain) recorded during the 6MWT. | | | |

| | | | |
|--------------------|--------|--------|---|
| Units: meters (m) | | | |
| arithmetic mean | 160.7 | 156.0 | |
| standard deviation | ± 79.4 | ± 86.7 | - |

End points

End points reporting groups

| | |
|---|----------------|
| Reporting group title | LLG783 6 mg/kg |
| Reporting group description: | |
| Subjects received LLG783 6 milligram per kilogram (mg/kg) as intravenous (IV) infusion once every 4 weeks for a total of 4 doses over a period of 12 weeks. | |
| Reporting group title | Placebo |
| Reporting group description: | |
| Subjects received placebo as IV infusion once every 4 weeks for a total of 4 doses over a period of 12 weeks. | |

Primary: Number of Subjects with Adverse Events (AEs), Drug-related AEs, Serious Adverse Events (SAEs) and Deaths

| | |
|--|---|
| End point title | Number of Subjects with Adverse Events (AEs), Drug-related AEs, Serious Adverse Events (SAEs) and Deaths ^[1] |
| End point description: | |
| An AE is any untoward medical occurrence (that is, any unfavorable and unintended sign, including abnormal laboratory findings, symptom or disease) in a subject after providing written informed consent for participation in the study until the end of study visit. Therefore, an AE may or may not be temporally or causally associated with the use of a medicinal (investigational) product. An SAE is defined as any AE which is fatal or life-threatening, results in persistent or significant disability/incapacity, constitutes a congenital anomaly/birth defect in offspring, requires inpatient hospitalization or prolongation of existing hospitalization and is medically significant. Safety analysis set included all subjects that received any study treatment. | |
| End point type | Primary |
| End point timeframe: | |
| Up to 32 Weeks | |

Notes:

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

Justification: Only descriptive analysis was planned for this primary endpoint.

| End point values | LLG783 6 mg/kg | Placebo | | |
|-----------------------------|-----------------|-----------------|--|--|
| Subject group type | Reporting group | Reporting group | | |
| Number of subjects analysed | 23 | 23 | | |
| Units: Subjects | | | | |
| AEs | 18 | 17 | | |
| Drug-related AEs | 4 | 4 | | |
| SAEs | 1 | 2 | | |
| Death | 0 | 0 | | |

Statistical analyses

No statistical analyses for this end point

Primary: Change from Baseline in Maximum Walking Distance (MWD) as Assessed by 6-minute Walk Test (6MWT) at Week 16

| | |
|-----------------|---|
| End point title | Change from Baseline in Maximum Walking Distance (MWD) as |
|-----------------|---|

End point description:

MWD was assessed by the 6MWT prior to dosing was used to evaluate functional capacity of peripheral artery disease (PAD) subjects. 6MWT test included measurement of total distance walked in 6 minutes. Pharmacodynamic (PD) analysis set included all subjects with available PD data, who received any study treatment and experienced no protocol deviations with relevant impact on PD data. Here 'N' (subject analysed) signifies number of subjects evaluable for this endpoint.

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

End point timeframe:

| |
|-----------------------------|
| Baseline, Week 16 (Day 113) |
|-----------------------------|

| End point values | LLG783 6 mg/kg | Placebo | | |
|--|-----------------------|------------------------|--|--|
| Subject group type | Reporting group | Reporting group | | |
| Number of subjects analysed | 22 | 19 | | |
| Units: meter (m) | | | | |
| least squares mean (confidence interval 80%) | 19.10 (5.30 to 32.90) | 36.84 (21.99 to 51.70) | | |

Statistical analyses

| | |
|----------------------------|------------------------|
| Statistical analysis title | Statistical Analysis 1 |
|----------------------------|------------------------|

Statistical analysis description:

Statistical analysis was done by mixed effect model repeat measurement (MMRM) model analysis.

| | |
|---|--------------------------------|
| Comparison groups | Placebo v LLG783 6 mg/kg |
| Number of subjects included in analysis | 41 |
| Analysis specification | Pre-specified |
| Analysis type | superiority |
| P-value | = 0.2612 ^[2] |
| Method | two-sided test |
| Parameter estimate | Mean difference (final values) |
| Point estimate | -17.74 |
| Confidence interval | |
| level | Other: 80 % |
| sides | 2-sided |
| lower limit | -38.03 |
| upper limit | 2.55 |

Notes:

[2] - P-value of ≤ 0.2 was considered significant.

Secondary: Area Under the Serum Concentration-time Curve From Time Zero to Infinity (AUCinf)

| | |
|-----------------|--|
| End point title | Area Under the Serum Concentration-time Curve From Time Zero to Infinity (AUCinf) ^[3] |
|-----------------|--|

End point description:

AUCinf is defined as the area under the serum concentration-time curve from time zero to infinity. Pharmacokinetic (PK) analysis set included all subjects with at least one available valid PK concentration measurement, who received any study treatment and with no protocol deviations that impacted PK data. Here 'N' (subject analysed) signifies number of subjects evaluable for this endpoint and 'n' (number

analysed) signifies number of subjects evaluable at specified time points.

Abbreviations: mL = milliliter.

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

End point timeframe:

1 hour predose and 1, 2 and 4 hours postdose on Day 1; 0 hour predose on Day 29 and 57; 0 hour predose and 1, 2 and 4 hours postdose on Day 85

Notes:

[3] - The end point is not reporting statistics for all the arms in the baseline period. It is expected all the baseline period arms will be reported on when providing values for an end point on the baseline period.

Justification: No statistical analysis was planned for this secondary endpoint.

| | | | | |
|---|-----------------|--|--|--|
| End point values | LLG783 6 mg/kg | | | |
| Subject group type | Reporting group | | | |
| Number of subjects analysed | 20 | | | |
| Units: day*microgram per mL (day*mg/mL) | | | | |
| geometric mean (geometric coefficient of variation) | | | | |
| Day 1 (n= 15) | 2110 (± 21.1) | | | |
| Day 85 (n= 20) | 4860 (± 39.1) | | | |

Statistical analyses

No statistical analyses for this end point

Secondary: Area Under the Serum Concentration-time Curve From Time Zero to the Time of the Last Quantifiable Concentration (AUClast)

| | |
|-----------------|--|
| End point title | Area Under the Serum Concentration-time Curve From Time Zero to the Time of the Last Quantifiable Concentration (AUClast) ^[4] |
|-----------------|--|

End point description:

AUClast is defined as the area under the serum concentration-time curve from time zero to the time of the last quantifiable concentration. PK analysis set included all subjects with at least one available valid PK concentration measurement, who received any study treatment and with no protocol deviations that impacted PK data.

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

End point timeframe:

1 hour predose and 1, 2 and 4 hours postdose on Day 1; 0 hour predose on Day 29 and 57; 0 hour predose and 1, 2 and 4 hours postdose on Day 85

Notes:

[4] - The end point is not reporting statistics for all the arms in the baseline period. It is expected all the baseline period arms will be reported on when providing values for an end point on the baseline period.

Justification: No statistical analysis was planned for this secondary endpoint.

| | | | | |
|---|-----------------|--|--|--|
| End point values | LLG783 6 mg/kg | | | |
| Subject group type | Reporting group | | | |
| Number of subjects analysed | 23 | | | |
| Units: day*mcg/mL | | | | |
| geometric mean (geometric coefficient of variation) | | | | |
| Day 1 | 1660 (± 33.6) | | | |
| Day 85 | 4930 (± 38.9) | | | |

Statistical analyses

No statistical analyses for this end point

Secondary: Area Under the Serum Concentration-time Curve From Time Zero to Defined Time Point 't' (AUC[0-t])

| | |
|-----------------|--|
| End point title | Area Under the Serum Concentration-time Curve From Time Zero to Defined Time Point 't' (AUC[0-t]) ^[5] |
|-----------------|--|

End point description:

AUC(0-t) is defined as the area under the serum concentration-time curve from time zero to time 't' where t is a defined time point after administration. PK analysis set included all subjects with at least one available valid PK concentration measurement, who received any study treatment and with no protocol deviations that impacted PK data.

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

End point timeframe:

1 hour predose and 1, 2 and 4 hours postdose on Day 1; 0 hour predose on Day 29 and 57; 0 hour predose and 1, 2 and 4 hours postdose on Day 85

Notes:

[5] - The end point is not reporting statistics for all the arms in the baseline period. It is expected all the baseline period arms will be reported on when providing values for an end point on the baseline period.

Justification: No statistical analysis was planned for this secondary endpoint.

| | | | | |
|---|-------------------|--|--|--|
| End point values | LLG783 6 mg/kg | | | |
| Subject group type | Reporting group | | | |
| Number of subjects analysed | 23 | | | |
| Units: day*mcg/mL | | | | |
| geometric mean (geometric coefficient of variation) | | | | |
| Day 1 | 1640 (± 34.1) | | | |
| Day 85 | 3130 (± 34.7) | | | |

Statistical analyses

No statistical analyses for this end point

Secondary: Area Under the Serum Concentration-time Curve From Time Zero to the End of the Dosing Interval Tau (AUCtau)

| | |
|-----------------|--|
| End point title | Area Under the Serum Concentration-time Curve From Time Zero to the End of the Dosing Interval Tau (AUCtau) ^[6] |
|-----------------|--|

End point description:

AUCtau is defined as the area under the serum concentration-time curve from time zero to the end of the dosing interval tau. PK analysis set included all subjects with at least one available valid PK concentration measurement, who received any study treatment and with no protocol deviations that impacted PK data.

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

End point timeframe:

1 hour predose and 1, 2 and 4 hours postdose on Day 1; 0 hour predose on Day 29 and 57; 0 hour predose and 1, 2 and 4 hours postdose on Day 85

Notes:

[6] - The end point is not reporting statistics for all the arms in the baseline period. It is expected all the baseline period arms will be reported on when providing values for an end point on the baseline period.
Justification: No statistical analysis was planned for this secondary endpoint.

| | | | | |
|---|-------------------|--|--|--|
| End point values | LLG783 6 mg/kg | | | |
| Subject group type | Reporting group | | | |
| Number of subjects analysed | 23 | | | |
| Units: day*mcg/mL | | | | |
| geometric mean (geometric coefficient of variation) | | | | |
| Day 1 | 1640 (± 34.1) | | | |
| Day 85 | 3130 (± 34.7) | | | |

Statistical analyses

No statistical analyses for this end point

Secondary: Observed Maximum Serum Concentration (Cmax) Following Drug Administration

| | |
|-----------------|--|
| End point title | Observed Maximum Serum Concentration (Cmax) Following Drug Administration ^[7] |
|-----------------|--|

End point description:

Cmax is defined as the observed maximum serum concentration following drug administration. PK analysis set included all subjects with at least one available valid PK concentration measurement, who received any study treatment and with no protocol deviations that impacted PK data.

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

End point timeframe:

1 hour predose and 1, 2 and 4 hours postdose on Day 1; 0 hour predose on Day 29 and 57; 0 hour predose and 1, 2 and 4 hours postdose on Day 85

Notes:

[7] - The end point is not reporting statistics for all the arms in the baseline period. It is expected all the baseline period arms will be reported on when providing values for an end point on the baseline period.
Justification: No statistical analysis was planned for this secondary endpoint.

| | | | | |
|---|-------------------|--|--|--|
| End point values | LLG783 6 mg/kg | | | |
| Subject group type | Reporting group | | | |
| Number of subjects analysed | 23 | | | |
| Units: microgram per milliliter (mcg/mL) | | | | |
| geometric mean (geometric coefficient of variation) | | | | |
| Day 1 | 203 (± 40.0) | | | |
| Day 85 | 268 (± 39.8) | | | |

Statistical analyses

No statistical analyses for this end point

Secondary: Time to Reach the Maximum Concentration After Drug Administration (Tmax)

| | |
|-----------------|---|
| End point title | Time to Reach the Maximum Concentration After Drug Administration (Tmax) ^[8] |
|-----------------|---|

End point description:

Tmax is defined as the time to reach the maximum concentration after drug administration. PK analysis set included all subjects with at least one available valid PK concentration measurement, who received any study treatment and with no protocol deviations that impacted PK data.

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

End point timeframe:

1 hour predose and 1, 2 and 4 hours postdose on Day 1; 0 hour predose on Day 29 and 57; 0 hour predose and 1, 2 and 4 hours postdose on Day 85

Notes:

[8] - The end point is not reporting statistics for all the arms in the baseline period. It is expected all the baseline period arms will be reported on when providing values for an end point on the baseline period. Justification: No statistical analysis was planned for this secondary endpoint.

| End point values | LLG783 6 mg/kg | | | |
|-------------------------------|-------------------------|--|--|--|
| Subject group type | Reporting group | | | |
| Number of subjects analysed | 23 | | | |
| Units: Days | | | | |
| median (full range (min-max)) | | | | |
| Day 1 | 0.0833 (0.0417 to 3.01) | | | |
| Day 85 | 0.0833 (0.0431 to 9.94) | | | |

Statistical analyses

No statistical analyses for this end point

Secondary: Change from Baseline in Pain-free walking distance (PFWD) as Assessed by 6-minute Walk Test at Week 16

| | |
|-----------------|--|
| End point title | Change from Baseline in Pain-free walking distance (PFWD) as Assessed by 6-minute Walk Test at Week 16 |
|-----------------|--|

End point description:

PFWD was defined as the distance walked up to the point of onset of claudication symptoms (pain) recorded during the 6MWT and was used to evaluate symptomatic functional capacity of PAD subjects. The PFWD was measured as the distance walked up to the time/place where the subject first experiences symptoms typical of their claudication which included pain, cramps, or other discomfort in the buttocks, thighs, calves or feet that occurs during the 6MWT exercise period. PD analysis set included all subjects with available PD data, who received any study treatment and experienced no protocol deviations with relevant impact on PD data. Here 'N' (subject analysed) signifies number of subjects evaluable for this endpoint.

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

End point timeframe:

Baseline, Week 16 (Day 113)

| End point values | LLG783 6 mg/kg | Placebo | | |
|---|---------------------------|---------------------------|--|--|
| Subject group type | Reporting group | Reporting group | | |
| Number of subjects analysed | 22 | 19 | | |
| Units: meters | | | | |
| least squares mean (confidence interval 80%) | 44.77 (20.52 to 69.02) | 57.09 (30.97 to 83.22) | | |

Statistical analyses

No statistical analyses for this end point

Adverse events

Adverse events information

Timeframe for reporting adverse events:

Adverse Events are collected from First Patient First Visit (FPFV) until Last Patient Last Visit (LPLV). All Adverse events are reported in this record from First Patient First Treatment until Last Patient Last Visit.

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

Dictionary used

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

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

Reporting groups

| | |
|-----------------------|---------------------|
| Reporting group title | LLG783 i.v. 6 mg/kg |
|-----------------------|---------------------|

Reporting group description:

LLG783 i.v. 6 mg/kg

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

Reporting group description:

Placebo

| Serious adverse events | LLG783 i.v. 6 mg/kg | Placebo | |
|---|---------------------|----------------|--|
| Total subjects affected by serious adverse events | | | |
| subjects affected / exposed | 1 / 23 (4.35%) | 2 / 23 (8.70%) | |
| number of deaths (all causes) | 0 | 0 | |
| number of deaths resulting from adverse events | 0 | 0 | |
| Neoplasms benign, malignant and unspecified (incl cysts and polyps) | | | |
| Small cell lung cancer | | | |
| subjects affected / exposed | 0 / 23 (0.00%) | 1 / 23 (4.35%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Blood and lymphatic system disorders | | | |
| Hypochromic anaemia | | | |
| subjects affected / exposed | 1 / 23 (4.35%) | 0 / 23 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Gastrointestinal disorders | | | |
| Gastritis haemorrhagic | | | |
| subjects affected / exposed | 0 / 23 (0.00%) | 1 / 23 (4.35%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |

Frequency threshold for reporting non-serious adverse events: 0 %

| Non-serious adverse events | LLG783 i.v. 6 mg/kg | Placebo | |
|---|---------------------|------------------|--|
| Total subjects affected by non-serious adverse events | | | |
| subjects affected / exposed | 18 / 23 (78.26%) | 16 / 23 (69.57%) | |
| Vascular disorders | | | |
| Hypertension | | | |
| subjects affected / exposed | 0 / 23 (0.00%) | 1 / 23 (4.35%) | |
| occurrences (all) | 0 | 2 | |
| Peripheral arterial occlusive disease | | | |
| subjects affected / exposed | 3 / 23 (13.04%) | 1 / 23 (4.35%) | |
| occurrences (all) | 3 | 1 | |
| Peripheral ischaemia | | | |
| subjects affected / exposed | 0 / 23 (0.00%) | 1 / 23 (4.35%) | |
| occurrences (all) | 0 | 1 | |
| Spider vein | | | |
| subjects affected / exposed | 1 / 23 (4.35%) | 0 / 23 (0.00%) | |
| occurrences (all) | 1 | 0 | |
| General disorders and administration site conditions | | | |
| Fatigue | | | |
| subjects affected / exposed | 2 / 23 (8.70%) | 1 / 23 (4.35%) | |
| occurrences (all) | 2 | 1 | |
| Medical device site irritation | | | |
| subjects affected / exposed | 3 / 23 (13.04%) | 0 / 23 (0.00%) | |
| occurrences (all) | 4 | 0 | |
| Oedema peripheral | | | |
| subjects affected / exposed | 2 / 23 (8.70%) | 0 / 23 (0.00%) | |
| occurrences (all) | 3 | 0 | |
| Peripheral swelling | | | |
| subjects affected / exposed | 1 / 23 (4.35%) | 0 / 23 (0.00%) | |
| occurrences (all) | 1 | 0 | |
| Respiratory, thoracic and mediastinal disorders | | | |
| Chronic obstructive pulmonary disease | | | |
| subjects affected / exposed | 1 / 23 (4.35%) | 1 / 23 (4.35%) | |
| occurrences (all) | 1 | 1 | |

| | | | |
|--|---------------------|---------------------|--|
| Cough subjects affected / exposed occurrences (all) | 1 / 23 (4.35%) 1 | 0 / 23 (0.00%) 0 | |
| Haemoptysis subjects affected / exposed occurrences (all) | 1 / 23 (4.35%) 1 | 0 / 23 (0.00%) 0 | |
| Nasal congestion subjects affected / exposed occurrences (all) | 1 / 23 (4.35%) 1 | 0 / 23 (0.00%) 0 | |
| Oropharyngeal pain subjects affected / exposed occurrences (all) | 1 / 23 (4.35%) 1 | 0 / 23 (0.00%) 0 | |
| Psychiatric disorders Adjustment disorder with depressed mood subjects affected / exposed occurrences (all) | 1 / 23 (4.35%) 1 | 0 / 23 (0.00%) 0 | |
| Investigations Alanine aminotransferase increased subjects affected / exposed occurrences (all) | 1 / 23 (4.35%) 1 | 0 / 23 (0.00%) 0 | |
| Aspartate aminotransferase increased subjects affected / exposed occurrences (all) | 1 / 23 (4.35%) 1 | 0 / 23 (0.00%) 0 | |
| Blood creatinine increased subjects affected / exposed occurrences (all) | 1 / 23 (4.35%) 1 | 0 / 23 (0.00%) 0 | |
| Blood pressure increased subjects affected / exposed occurrences (all) | 1 / 23 (4.35%) 1 | 0 / 23 (0.00%) 0 | |
| Gamma-glutamyltransferase increased subjects affected / exposed occurrences (all) | 1 / 23 (4.35%) 1 | 0 / 23 (0.00%) 0 | |
| Weight increased subjects affected / exposed occurrences (all) | 1 / 23 (4.35%) 1 | 0 / 23 (0.00%) 0 | |

| | | | | |
|--|-----------------------------|----------------|----------------|--|
| Injury, poisoning and procedural complications | Arthropod bite | | | |
| | subjects affected / exposed | 0 / 23 (0.00%) | 1 / 23 (4.35%) | |
| | occurrences (all) | 0 | 1 | |
| | Contusion | | | |
| | subjects affected / exposed | 0 / 23 (0.00%) | 1 / 23 (4.35%) | |
| | occurrences (all) | 0 | 2 | |
| | Limb injury | | | |
| | subjects affected / exposed | 1 / 23 (4.35%) | 1 / 23 (4.35%) | |
| | occurrences (all) | 1 | 1 | |
| | Post procedural haemorrhage | | | |
| Cardiac disorders | subjects affected / exposed | 0 / 23 (0.00%) | 1 / 23 (4.35%) | |
| | occurrences (all) | 0 | 1 | |
| | Thermal burn | | | |
| | subjects affected / exposed | 0 / 23 (0.00%) | 1 / 23 (4.35%) | |
| | occurrences (all) | 0 | 1 | |
| | Cardiac disorders | | | |
| | Atrial flutter | | | |
| | subjects affected / exposed | 1 / 23 (4.35%) | 0 / 23 (0.00%) | |
| | occurrences (all) | 1 | 0 | |
| | Bradycardia | | | |
| Nervous system disorders | subjects affected / exposed | 0 / 23 (0.00%) | 2 / 23 (8.70%) | |
| | occurrences (all) | 0 | 2 | |
| | Pericardial effusion | | | |
| | subjects affected / exposed | 1 / 23 (4.35%) | 0 / 23 (0.00%) | |
| | occurrences (all) | 1 | 0 | |
| | Sinus bradycardia | | | |
| | subjects affected / exposed | 1 / 23 (4.35%) | 0 / 23 (0.00%) | |
| | occurrences (all) | 1 | 0 | |
| | Carpal tunnel syndrome | | | |
| | subjects affected / exposed | 1 / 23 (4.35%) | 0 / 23 (0.00%) | |
| Dizziness | occurrences (all) | 1 | 0 | |
| | subjects affected / exposed | 1 / 23 (4.35%) | 0 / 23 (0.00%) | |
| | occurrences (all) | 1 | 0 | |
| | | | | |

| | | | |
|--------------------------------------|-----------------|----------------|--|
| Headache | | | |
| subjects affected / exposed | 2 / 23 (8.70%) | 2 / 23 (8.70%) | |
| occurrences (all) | 2 | 2 | |
| Neuralgia | | | |
| subjects affected / exposed | 1 / 23 (4.35%) | 0 / 23 (0.00%) | |
| occurrences (all) | 1 | 0 | |
| Paraesthesia | | | |
| subjects affected / exposed | 0 / 23 (0.00%) | 2 / 23 (8.70%) | |
| occurrences (all) | 0 | 2 | |
| Sciatica | | | |
| subjects affected / exposed | 1 / 23 (4.35%) | 0 / 23 (0.00%) | |
| occurrences (all) | 1 | 0 | |
| Syncope | | | |
| subjects affected / exposed | 1 / 23 (4.35%) | 0 / 23 (0.00%) | |
| occurrences (all) | 1 | 0 | |
| Blood and lymphatic system disorders | | | |
| Anaemia | | | |
| subjects affected / exposed | 0 / 23 (0.00%) | 1 / 23 (4.35%) | |
| occurrences (all) | 0 | 1 | |
| Hypochromic anaemia | | | |
| subjects affected / exposed | 1 / 23 (4.35%) | 0 / 23 (0.00%) | |
| occurrences (all) | 1 | 0 | |
| Lymphadenopathy | | | |
| subjects affected / exposed | 0 / 23 (0.00%) | 1 / 23 (4.35%) | |
| occurrences (all) | 0 | 1 | |
| Gastrointestinal disorders | | | |
| Abdominal pain | | | |
| subjects affected / exposed | 0 / 23 (0.00%) | 1 / 23 (4.35%) | |
| occurrences (all) | 0 | 1 | |
| Diarrhoea | | | |
| subjects affected / exposed | 3 / 23 (13.04%) | 1 / 23 (4.35%) | |
| occurrences (all) | 3 | 1 | |
| Nausea | | | |
| subjects affected / exposed | 1 / 23 (4.35%) | 0 / 23 (0.00%) | |
| occurrences (all) | 1 | 0 | |
| Toothache | | | |

| | | | |
|--|---------------------|---------------------|--|
| subjects affected / exposed occurrences (all) | 1 / 23 (4.35%) 1 | 0 / 23 (0.00%) 0 | |
| Skin and subcutaneous tissue disorders | | | |
| Pruritus | | | |
| subjects affected / exposed | 0 / 23 (0.00%) | 1 / 23 (4.35%) | |
| occurrences (all) | 0 | 1 | |
| Stasis dermatitis | | | |
| subjects affected / exposed | 0 / 23 (0.00%) | 1 / 23 (4.35%) | |
| occurrences (all) | 0 | 1 | |
| Musculoskeletal and connective tissue disorders | | | |
| Arthritis | | | |
| subjects affected / exposed | 1 / 23 (4.35%) | 0 / 23 (0.00%) | |
| occurrences (all) | 1 | 0 | |
| Joint effusion | | | |
| subjects affected / exposed | 1 / 23 (4.35%) | 0 / 23 (0.00%) | |
| occurrences (all) | 1 | 0 | |
| Back pain | | | |
| subjects affected / exposed | 2 / 23 (8.70%) | 1 / 23 (4.35%) | |
| occurrences (all) | 2 | 1 | |
| Muscle spasms | | | |
| subjects affected / exposed | 0 / 23 (0.00%) | 1 / 23 (4.35%) | |
| occurrences (all) | 0 | 1 | |
| Pain in extremity | | | |
| subjects affected / exposed | 1 / 23 (4.35%) | 0 / 23 (0.00%) | |
| occurrences (all) | 1 | 0 | |
| Spinal pain | | | |
| subjects affected / exposed | 0 / 23 (0.00%) | 1 / 23 (4.35%) | |
| occurrences (all) | 0 | 1 | |
| Infections and infestations | | | |
| Bronchitis | | | |
| subjects affected / exposed | 1 / 23 (4.35%) | 0 / 23 (0.00%) | |
| occurrences (all) | 1 | 0 | |
| Cystitis | | | |
| subjects affected / exposed | 1 / 23 (4.35%) | 0 / 23 (0.00%) | |
| occurrences (all) | 1 | 0 | |
| Erysipelas | | | |

| | | | |
|------------------------------------|-----------------|-----------------|--|
| subjects affected / exposed | 0 / 23 (0.00%) | 1 / 23 (4.35%) | |
| occurrences (all) | 0 | 1 | |
| Infected bite | | | |
| subjects affected / exposed | 0 / 23 (0.00%) | 1 / 23 (4.35%) | |
| occurrences (all) | 0 | 1 | |
| Nasopharyngitis | | | |
| subjects affected / exposed | 5 / 23 (21.74%) | 4 / 23 (17.39%) | |
| occurrences (all) | 5 | 4 | |
| Paronychia | | | |
| subjects affected / exposed | 1 / 23 (4.35%) | 0 / 23 (0.00%) | |
| occurrences (all) | 1 | 0 | |
| Root canal infection | | | |
| subjects affected / exposed | 0 / 23 (0.00%) | 1 / 23 (4.35%) | |
| occurrences (all) | 0 | 1 | |
| Tooth abscess | | | |
| subjects affected / exposed | 1 / 23 (4.35%) | 0 / 23 (0.00%) | |
| occurrences (all) | 1 | 0 | |
| Metabolism and nutrition disorders | | | |
| Iron deficiency | | | |
| subjects affected / exposed | 0 / 23 (0.00%) | 1 / 23 (4.35%) | |
| occurrences (all) | 0 | 1 | |

More information

Substantial protocol amendments (globally)

Were there any global substantial amendments to the protocol? Yes

| Date | Amendment |
|--------------|--|
| 19 July 2017 | The primary purpose of this protocol amendment was to address the request from the Food and Drug Administration (FDA) to include additional safety visits two weeks after the 2nd dose and two weeks after the 3rd dose. |

Notes:

Interruptions (globally)

Were there any global interruptions to the trial? No

Limitations and caveats

None reported