



Clinical trial results:

A Multicenter, Randomized, Open-Label, Parallel-Group Usability Study of the Sarilumab Auto-Injector Device and a Prefilled Syringe in Patients with Moderate to Severe Active Rheumatoid Arthritis who are Candidates for Anti-IL6R Therapy

Summary

| | |
|--------------------------|----------------|
| EudraCT number | 2012-004339-21 |
| Trial protocol | PL |
| Global end of trial date | 11 March 2016 |

Results information

| | |
|--------------------------------|---------------|
| Result version number | v1 (current) |
| This version publication date | 22 March 2017 |
| First version publication date | 22 March 2017 |

Trial information

Trial identification

| | |
|-----------------------|----------|
| Sponsor protocol code | MSC12665 |
|-----------------------|----------|

Additional study identifiers

| | |
|------------------------------------|-----------------|
| ISRCTN number | - |
| ClinicalTrials.gov id (NCT number) | NCT02057250 |
| WHO universal trial number (UTN) | U1111-1130-9931 |

Notes:

Sponsors

| | |
|------------------------------|--|
| Sponsor organisation name | Sanofi aventis recherche & développement |
| Sponsor organisation address | 1 avenue Pierre Brossolette, Chilly-Mazarin, France, 91380 |
| Public contact | Sanofi aventis recherche & développement, Trial Transparency Team, contact-US@sanofi.com |
| Scientific contact | Sanofi aventis recherche & développement, Trial Transparency Team, contact-US@sanofi.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 | 12 April 2016 |
| Is this the analysis of the primary completion data? | No |
| Global end of trial reached? | Yes |
| Global end of trial date | 11 March 2016 |
| Was the trial ended prematurely? | No |

Notes:

General information about the trial

Main objective of the trial:

To collect real-use data of the sarilumab auto-injector device (AID) used by rheumatoid arthritis (RA) subjects.

Protection of trial subjects:

Subjects were fully informed of all pertinent aspects of the clinical trial as well as the possibility to discontinue at any time in language and terms appropriate for the subject and considering the local culture. During the course of the trial, subjects were provided with individual subject cards indicating the nature of the trial the subject is participating, contact details and any information needed in the event of a medical emergency. Collected personal data and human biological samples were processed in compliance with the Sanofi-Aventis Group Personal Data Protection Charter ensuring that the Group abides by the laws governing personal data protection in force in all countries in which it operates.

Background therapy:

Subjects received one or a combination of non-biologic disease modifying anti-rheumatic drug (DMARD) (hydroxychloroquine, methotrexate, sulfasalazine and/or Leflunomide, except for simultaneous combination use of leflunomide and methotrexate) as background therapy throughout the study.

Evidence for comparator: -

| | |
|---|---------------|
| Actual start date of recruitment | 18 March 2014 |
| Long term follow-up planned | No |
| Independent data monitoring committee (IDMC) involvement? | Yes |

Notes:

Population of trial subjects

Subjects enrolled per country

| | |
|--------------------------------------|------------------------|
| Country: Number of subjects enrolled | Chile: 30 |
| Country: Number of subjects enrolled | Mexico: 18 |
| Country: Number of subjects enrolled | Poland: 30 |
| Country: Number of subjects enrolled | Russian Federation: 19 |
| Country: Number of subjects enrolled | South Africa: 23 |
| Country: Number of subjects enrolled | United States: 97 |
| Worldwide total number of subjects | 217 |
| EEA total number of subjects | 30 |

Notes:

Subjects enrolled per age group

| | |
|--|---|
| In utero | 0 |
| Preterm newborn - gestational age < 37 | 0 |

| | |
|--|-----|
| wk | |
| 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) | 166 |
| From 65 to 84 years | 50 |
| 85 years and over | 1 |

Subject disposition

Recruitment

Recruitment details:

The study was conducted at 53 centers in 6 countries. A total of 419 subjects were screened between 18 March 2014 and 14 October 2014, out of which 217 subjects were enrolled and treated.

Pre-assignment

Screening details:

Subjects were randomized in 1:1:1:1 ratio to Sarilumab 150 mg administered by AID or prefilled syringe (PFS) or Sarilumab 200 mg administered by AID or PFS. Subjects who completed 12-week AID assessment phase, were treated in open-label extension phase for 52 weeks.

Period 1

| | |
|------------------------------|-------------------------|
| Period 1 title | AID Assessment Phase |
| Is this the baseline period? | Yes |
| Allocation method | Randomised - controlled |
| Blinding used | Not blinded |

Arms

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

| | |
|------------------|--|
| Arm title | Sarilumab 150 mg by AID (AID Assessment Phase) |
|------------------|--|

Arm description:

Sarilumab 150 mg every 2 weeks (q2w) administered by AID with one or a combination of non-biologic DMARD for 12 weeks.

| | |
|--|------------------------|
| Arm type | Experimental |
| Investigational medicinal product name | Sarilumab |
| Investigational medicinal product code | SAR153191, REGN88 |
| Other name | |
| Pharmaceutical forms | Solution for injection |
| Routes of administration | Subcutaneous use |

Dosage and administration details:

Sarilumab self-administered as a subcutaneous (SC) injection by AID in the abdomen or thigh.

| | |
|------------------|--|
| Arm title | Sarilumab 150 mg by PFS (AID Assessment Phase) |
|------------------|--|

Arm description:

Sarilumab 150 mg q2w administered by PFS with one or a combination of non-biologic DMARD for 12 weeks.

| | |
|--|------------------------|
| Arm type | Experimental |
| Investigational medicinal product name | Sarilumab |
| Investigational medicinal product code | SAR153191, REGN88 |
| Other name | |
| Pharmaceutical forms | Solution for injection |
| Routes of administration | Subcutaneous use |

Dosage and administration details:

Sarilumab self-administered as SC injection by PFS in the abdomen or thigh.

| | |
|------------------|--|
| Arm title | Sarilumab 200 mg by AID (AID Assessment Phase) |
|------------------|--|

Arm description:

Sarilumab 200 mg q2w administered by AID with one or a combination of non-biologic DMARD for 12 weeks.

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

| | |
|--|------------------------|
| Investigational medicinal product name | Sarilumab |
| Investigational medicinal product code | SAR153191, REGN88 |
| Other name | |
| Pharmaceutical forms | Solution for injection |
| Routes of administration | Subcutaneous use |

Dosage and administration details:

Sarilumab self-administered as a SC injection by AID in the abdomen or thigh.

| | |
|------------------|--|
| Arm title | Sarilumab 200 mg by PFS (AID Assessment Phase) |
|------------------|--|

Arm description:

Sarilumab 200 mg q2w administered by PFS with one or a combination of non-biologic DMARD for 12 weeks.

| | |
|--|------------------------|
| Arm type | Experimental |
| Investigational medicinal product name | Sarilumab |
| Investigational medicinal product code | SAR153191, REGN88 |
| Other name | |
| Pharmaceutical forms | Solution for injection |
| Routes of administration | Subcutaneous use |

Dosage and administration details:

Sarilumab self-administered as a SC injection by PFS in the abdomen or thigh.

| Number of subjects in period 1 | Sarilumab 150 mg by AID (AID Assessment Phase) | Sarilumab 150 mg by PFS (AID Assessment Phase) | Sarilumab 200 mg by AID (AID Assessment Phase) |
|---------------------------------------|--|--|--|
| Started | 56 | 53 | 52 |
| Completed | 52 | 50 | 45 |
| Not completed | 4 | 3 | 7 |
| Other than specified above | 1 | 1 | 1 |
| Adverse Event | 3 | 2 | 6 |

| Number of subjects in period 1 | Sarilumab 200 mg by PFS (AID Assessment Phase) |
|---------------------------------------|--|
| Started | 56 |
| Completed | 54 |
| Not completed | 2 |
| Other than specified above | 1 |
| Adverse Event | 1 |

Period 2

| | |
|------------------------------|-----------------|
| Period 2 title | Extension Phase |
| Is this the baseline period? | No |
| Allocation method | Not applicable |
| Blinding used | Not blinded |

Arms

| | |
|------------------|---|
| Arm title | Sarilumab 150 mg by PFS (Extension Phase) |
|------------------|---|

Arm description:

Subjects who completed 12 week AID assessment phase received Sarilumab 150 mg q2w administered by PFS with one or a combination of non-biologic DMARD for 52 weeks.

| | |
|--|------------------------|
| Arm type | Experimental |
| Investigational medicinal product name | Sarilumab |
| Investigational medicinal product code | SAR153191, REGN88 |
| Other name | |
| Pharmaceutical forms | Solution for injection |
| Routes of administration | Subcutaneous use |

Dosage and administration details:

Sarilumab self-administered as a SC injection by PFS in the abdomen or thigh.

| Number of subjects in period 2^[1] | Sarilumab 150 mg by PFS (Extension Phase) |
|---|---|
| Started | 192 |
| Treated | 188 |
| Completed | 156 |
| Not completed | 36 |
| Other than specified above | 7 |
| Adverse Event | 15 |
| Entered in this period but not treated | 4 |
| Lack of efficacy | 10 |

Notes:

[1] - The number of subjects starting the period is not consistent with the number completing the preceding period. It is expected the number of subjects starting the subsequent period will be the same as the number completing the preceding period.

Justification: 9 subjects who completed AID Assessment phase did not enter extension phase.

Baseline characteristics

Reporting groups

| | |
|-----------------------|--|
| Reporting group title | Sarilumab 150 mg by AID (AID Assessment Phase) |
|-----------------------|--|

Reporting group description:

Sarilumab 150 mg every 2 weeks (q2w) administered by AID with one or a combination of non-biologic DMARD for 12 weeks.

| | |
|-----------------------|--|
| Reporting group title | Sarilumab 150 mg by PFS (AID Assessment Phase) |
|-----------------------|--|

Reporting group description:

Sarilumab 150 mg q2w administered by PFS with one or a combination of non-biologic DMARD for 12 weeks.

| | |
|-----------------------|--|
| Reporting group title | Sarilumab 200 mg by AID (AID Assessment Phase) |
|-----------------------|--|

Reporting group description:

Sarilumab 200 mg q2w administered by AID with one or a combination of non-biologic DMARD for 12 weeks.

| | |
|-----------------------|--|
| Reporting group title | Sarilumab 200 mg by PFS (AID Assessment Phase) |
|-----------------------|--|

Reporting group description:

Sarilumab 200 mg q2w administered by PFS with one or a combination of non-biologic DMARD for 12 weeks.

| Reporting group values | Sarilumab 150 mg by AID (AID Assessment Phase) | Sarilumab 150 mg by PFS (AID Assessment Phase) | Sarilumab 200 mg by AID (AID Assessment Phase) |
|------------------------------------|--|--|--|
| Number of subjects | 56 | 53 | 52 |
| Age categorical Units: Subjects | | | |

| | | | |
|---|----------------|----------------|----------------|
| Age continuous Units: years arithmetic mean standard deviation | 53.7 ± 13.8 | 54.2 ± 14.2 | 55.9 ± 12.3 |
| Gender categorical Units: Subjects | | | |
| Female | 45 | 43 | 44 |
| Male | 11 | 10 | 8 |

| Reporting group values | Sarilumab 200 mg by PFS (AID Assessment Phase) | Total | |
|------------------------------------|--|-------|--|
| Number of subjects | 56 | 217 | |
| Age categorical Units: Subjects | | | |

| | | | |
|---|----------------|-----|--|
| Age continuous Units: years arithmetic mean standard deviation | 50.3 ± 12.8 | - | |
| Gender categorical Units: Subjects | | | |
| Female | 49 | 181 | |
| Male | 7 | 36 | |

End points

End points reporting groups

| | |
|------------------------------|---|
| Reporting group title | Sarilumab 150 mg by AID (AID Assessment Phase) |
| Reporting group description: | Sarilumab 150 mg every 2 weeks (q2w) administered by AID with one or a combination of non-biologic DMARD for 12 weeks. |
| Reporting group title | Sarilumab 150 mg by PFS (AID Assessment Phase) |
| Reporting group description: | Sarilumab 150 mg q2w administered by PFS with one or a combination of non-biologic DMARD for 12 weeks. |
| Reporting group title | Sarilumab 200 mg by AID (AID Assessment Phase) |
| Reporting group description: | Sarilumab 200 mg q2w administered by AID with one or a combination of non-biologic DMARD for 12 weeks. |
| Reporting group title | Sarilumab 200 mg by PFS (AID Assessment Phase) |
| Reporting group description: | Sarilumab 200 mg q2w administered by PFS with one or a combination of non-biologic DMARD for 12 weeks. |
| Reporting group title | Sarilumab 150 mg by PFS (Extension Phase) |
| Reporting group description: | Subjects who completed 12 week AID assessment phase received Sarilumab 150 mg q2w administered by PFS with one or a combination of non-biologic DMARD for 52 weeks. |

Primary: Number of Validated AID Associated Product Technical Failures (PTFs)

| | |
|------------------------|--|
| End point title | Number of Validated AID Associated Product Technical Failures (PTFs) ^{[1][2]} |
| End point description: | A PTF was defined as any product technical complaint (PTC) related to the use of the AID that had a validated technical cause. Each subject was given a diary having questions related to subject's ability to remove the cap, to start the injection, to complete the injection and regarding confirmation of completing the injection. Subjects were asked to answer the questions each time they self-inject the sarilumab. If the response was "no" to any of the first 3 questions, this was considered as a PTC. The used AID, for which PTC was reported, was sent to sponsor, examined and evaluated for the occurrence of a PTF. Modified intent-to-treat (mITT) population included all randomized subjects who received at least 1 dose of investigational medicinal product (IMP) with AID and attended at least 1 post-baseline visit during AID assessment phase of the study. |
| End point type | Primary |
| End point timeframe: | Baseline up to Week 12 |
| Notes: | <p>[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 statistics were reported, inferential statistics were not planned for primary endpoint.</p> <p>[2] - 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: Only arms which are applicable to the endpoint are reported.</p> |

| End point values | Sarilumab 150 mg by AID (AID Assessment Phase) | Sarilumab 200 mg by AID (AID Assessment Phase) | | |
|-----------------------------|--|--|--|--|
| Subject group type | Reporting group | Reporting group | | |
| Number of subjects analysed | 56 ^[3] | 52 ^[4] | | |
| Units: PTFs | | | | |
| number (not applicable) | 0 | 0 | | |

Notes:

[3] - Number of Injections Analyzed: 312

[4] - Number of Injections Analyzed: 288

Statistical analyses

No statistical analyses for this end point

Secondary: Area Under the Serum Concentration Versus Time Curve Calculated Using the Trapezoidal Method During a Dose Interval (AUC[0-tau]) for Sarilumab

| | |
|-----------------|--|
| End point title | Area Under the Serum Concentration Versus Time Curve Calculated Using the Trapezoidal Method During a Dose Interval (AUC[0-tau]) for Sarilumab |
|-----------------|--|

End point description:

AUC(0-tau) is defined as area under the serum concentration versus time curve calculated using the trapezoidal method during a dose interval, where dose interval was 2 weeks. Serum concentrations of sarilumab were analyzed using validated enzyme linked immunosorbent assay (ELISA). Pharmacokinetic (PK) population included all randomized subjects who received at least 1 dose of IMP and have least 1 PK parameter calculated using non compartmental methods following the first (Day 1) or sixth administration (Day 71). Here, 'n' signifies number of subjects with available data at specified category for each arm, respectively.

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

End point timeframe:

Week 0-2: pre-dose on Day 1, anytime post-dose on Day 3, Day 5, Day 8, Day 12, Day 15; Week 10-12: pre-dose on Day 71, anytime post-dose on Day 73, Day 75, Day 78, Day 82, Day 85

| End point values | Sarilumab 150 mg by AID (AID Assessment Phase) | Sarilumab 150 mg by PFS (AID Assessment Phase) | Sarilumab 200 mg by AID (AID Assessment Phase) | Sarilumab 200 mg by PFS (AID Assessment Phase) |
|--------------------------------------|--|--|--|--|
| Subject group type | Reporting group | Reporting group | Reporting group | Reporting group |
| Number of subjects analysed | 56 | 53 | 52 | 56 |
| Units: mg*day/L | | | | |
| arithmetic mean (standard deviation) | | | | |
| Week 0-2 (n=39, 34, 34, 41) | 131 (± 54.5) | 152 (± 76.7) | 235 (± 117) | 227 (± 94.9) |
| Week 10-12 (n=44, 40, 36, 38) | 205 (± 126) | 220 (± 130) | 455 (± 294) | 405 (± 244) |

Statistical analyses

No statistical analyses for this end point

Adverse events

Adverse events information

Timeframe for reporting adverse events:

All AEs were collected from signature of the informed consent form up to the final visit (74 Weeks) regardless of seriousness or relationship to study drug.

Adverse event reporting additional description:

Reported AEs are treatment-emergent AEs developed/worsened during 'on treatment period' (first dose of IMP in AID phase up to last dose of IMP in extension phase+6 weeks). Safety population(SP) of AID phase: subjects who received at least 1 dose of IMP & SP of extension phase: subjects who continued extension phase & received at least 1 dose of IMP.

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

Dictionary used

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

| | |
|--------------------|------|
| Dictionary version | 18.1 |
|--------------------|------|

Reporting groups

| | |
|-----------------------|--|
| Reporting group title | Sarilumab 150 mg by AID (AID Assessment Phase) |
|-----------------------|--|

Reporting group description:

Sarilumab 150 mg SC injection q2w administered by AID with one or a combination of non-biologic DMARD for 12 weeks.

| | |
|-----------------------|--|
| Reporting group title | Sarilumab 150 mg by PFS (AID Assessment Phase) |
|-----------------------|--|

Reporting group description:

Sarilumab 150 mg SC injection q2w administered by PFS with one or a combination of non-biologic DMARD for 12 weeks.

| | |
|-----------------------|--|
| Reporting group title | Sarilumab 200 mg by AID (AID Assessment Phase) |
|-----------------------|--|

Reporting group description:

Sarilumab 200 mg SC injection q2w administered by AID with one or a combination of non-biologic DMARD for 12 weeks.

| | |
|-----------------------|--|
| Reporting group title | Sarilumab 200 mg by PFS (AID Assessment Phase) |
|-----------------------|--|

Reporting group description:

Sarilumab 200 mg SC injection q2w administered by PFS with one or a combination of non-biologic DMARD for 12 weeks.

| | |
|-----------------------|---|
| Reporting group title | Sarilumab 150 mg by PFS (Extension Phase) |
|-----------------------|---|

Reporting group description:

Subjects who completed 12 week AID assessment phase received Sarilumab 150 mg SC injection q2w administered by PFS with one or a combination of non-biologic DMARD for 52 weeks.

| Serious adverse events | Sarilumab 150 mg by AID (AID Assessment Phase) | Sarilumab 150 mg by PFS (AID Assessment Phase) | Sarilumab 200 mg by AID (AID Assessment Phase) |
|--|--|--|--|
| Total subjects affected by serious adverse events | | | |
| subjects affected / exposed | 1 / 56 (1.79%) | 0 / 53 (0.00%) | 3 / 52 (5.77%) |
| number of deaths (all causes) | 0 | 0 | 0 |
| number of deaths resulting from adverse events | 0 | 0 | 0 |
| Neoplasms benign, malignant and unspecified (incl cysts and polyps) Pancreatic Carcinoma Metastatic | | | |

| | | | |
|---|----------------|----------------|----------------|
| subjects affected / exposed | 0 / 56 (0.00%) | 0 / 53 (0.00%) | 0 / 52 (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 |
| Squamous Cell Carcinoma Of Skin | | | |
| subjects affected / exposed | 0 / 56 (0.00%) | 0 / 53 (0.00%) | 0 / 52 (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 | | | |
| Deep Vein Thrombosis | | | |
| subjects affected / exposed | 0 / 56 (0.00%) | 0 / 53 (0.00%) | 1 / 52 (1.92%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 1 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Thrombophlebitis Superficial | | | |
| subjects affected / exposed | 0 / 56 (0.00%) | 0 / 53 (0.00%) | 0 / 52 (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 |
| Reproductive system and breast disorders | | | |
| Endometrial Hyperplasia | | | |
| subjects affected / exposed | 0 / 56 (0.00%) | 0 / 53 (0.00%) | 0 / 52 (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 | | | |
| Chronic Obstructive Pulmonary Disease | | | |
| subjects affected / exposed | 0 / 56 (0.00%) | 0 / 53 (0.00%) | 0 / 52 (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 |
| Rheumatoid Lung | | | |
| subjects affected / exposed | 0 / 56 (0.00%) | 0 / 53 (0.00%) | 0 / 52 (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 |
| Injury, poisoning and procedural complications | | | |
| Femoral Neck Fracture | | | |

| | | | |
|---|----------------|----------------|----------------|
| subjects affected / exposed | 0 / 56 (0.00%) | 0 / 53 (0.00%) | 0 / 52 (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 |
| Traumatic Arthritis | | | |
| subjects affected / exposed | 0 / 56 (0.00%) | 0 / 53 (0.00%) | 0 / 52 (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 |
| Cardiac disorders | | | |
| Coronary Artery Occlusion | | | |
| subjects affected / exposed | 0 / 56 (0.00%) | 0 / 53 (0.00%) | 0 / 52 (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 |
| Wolff-Parkinson-White Syndrome | | | |
| subjects affected / exposed | 0 / 56 (0.00%) | 0 / 53 (0.00%) | 0 / 52 (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 |
| Nervous system disorders | | | |
| Transient Ischaemic Attack | | | |
| subjects affected / exposed | 0 / 56 (0.00%) | 0 / 53 (0.00%) | 0 / 52 (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 |
| Vertebrobasilar Insufficiency | | | |
| subjects affected / exposed | 0 / 56 (0.00%) | 0 / 53 (0.00%) | 0 / 52 (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 |
| Blood and lymphatic system disorders | | | |
| Anaemia | | | |
| subjects affected / exposed | 0 / 56 (0.00%) | 0 / 53 (0.00%) | 0 / 52 (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 |
| Eye disorders | | | |
| Cataract | | | |

| | | | |
|--|----------------|----------------|----------------|
| subjects affected / exposed | 0 / 56 (0.00%) | 0 / 53 (0.00%) | 0 / 52 (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 |
| Gastrointestinal disorders | | | |
| Small Intestinal Obstruction | | | |
| subjects affected / exposed | 0 / 56 (0.00%) | 0 / 53 (0.00%) | 0 / 52 (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 |
| Vomiting | | | |
| subjects affected / exposed | 0 / 56 (0.00%) | 0 / 53 (0.00%) | 0 / 52 (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 |
| Hepatobiliary disorders | | | |
| Bile Duct Stone | | | |
| subjects affected / exposed | 0 / 56 (0.00%) | 0 / 53 (0.00%) | 1 / 52 (1.92%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 1 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Cholelithiasis | | | |
| subjects affected / exposed | 0 / 56 (0.00%) | 0 / 53 (0.00%) | 0 / 52 (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 |
| Renal and urinary disorders | | | |
| Nephrolithiasis | | | |
| subjects affected / exposed | 0 / 56 (0.00%) | 0 / 53 (0.00%) | 0 / 52 (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 |
| Musculoskeletal and connective tissue disorders | | | |
| Arthralgia | | | |
| subjects affected / exposed | 0 / 56 (0.00%) | 0 / 53 (0.00%) | 0 / 52 (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 |
| Lumbar Spinal Stenosis | | | |

| | | | |
|---|----------------|----------------|----------------|
| subjects affected / exposed | 0 / 56 (0.00%) | 0 / 53 (0.00%) | 0 / 52 (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 |
| Osteoarthritis | | | |
| subjects affected / exposed | 0 / 56 (0.00%) | 0 / 53 (0.00%) | 1 / 52 (1.92%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 1 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Rheumatoid Arthritis | | | |
| subjects affected / exposed | 0 / 56 (0.00%) | 0 / 53 (0.00%) | 1 / 52 (1.92%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 1 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Infections and infestations | | | |
| Bursitis Infective Staphylococcal | | | |
| subjects affected / exposed | 1 / 56 (1.79%) | 0 / 53 (0.00%) | 0 / 52 (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 |
| Cellulitis | | | |
| subjects affected / exposed | 0 / 56 (0.00%) | 0 / 53 (0.00%) | 0 / 52 (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 |
| Erysipelas | | | |
| subjects affected / exposed | 0 / 56 (0.00%) | 0 / 53 (0.00%) | 0 / 52 (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 |
| Pneumonia | | | |
| subjects affected / exposed | 0 / 56 (0.00%) | 0 / 53 (0.00%) | 0 / 52 (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 |
| Urinary Tract Infection | | | |
| subjects affected / exposed | 0 / 56 (0.00%) | 0 / 53 (0.00%) | 0 / 52 (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 |

| Serious adverse events | Sarilumab 200 mg | Sarilumab 150 mg | |
|-------------------------------|------------------|------------------|--|
|-------------------------------|------------------|------------------|--|

| | by PFS (AID Assessment Phase) | by PFS (Extension Phase) | |
|---|-------------------------------|--------------------------|--|
| Total subjects affected by serious adverse events | | | |
| subjects affected / exposed | 4 / 56 (7.14%) | 19 / 188 (10.11%) | |
| 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) | | | |
| Pancreatic Carcinoma Metastatic | | | |
| subjects affected / exposed | 0 / 56 (0.00%) | 1 / 188 (0.53%) | |
| occurrences causally related to treatment / all | 0 / 0 | 1 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Squamous Cell Carcinoma Of Skin | | | |
| subjects affected / exposed | 1 / 56 (1.79%) | 0 / 188 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Vascular disorders | | | |
| Deep Vein Thrombosis | | | |
| subjects affected / exposed | 0 / 56 (0.00%) | 0 / 188 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Thrombophlebitis Superficial | | | |
| subjects affected / exposed | 0 / 56 (0.00%) | 1 / 188 (0.53%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Reproductive system and breast disorders | | | |
| Endometrial Hyperplasia | | | |
| subjects affected / exposed | 0 / 56 (0.00%) | 1 / 188 (0.53%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Respiratory, thoracic and mediastinal disorders | | | |
| Chronic Obstructive Pulmonary Disease | | | |
| subjects affected / exposed | 0 / 56 (0.00%) | 1 / 188 (0.53%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Rheumatoid Lung | | | |

| | | | |
|---|----------------|-----------------|--|
| subjects affected / exposed | 0 / 56 (0.00%) | 1 / 188 (0.53%) | |
| occurrences causally related to treatment / all | 0 / 0 | 1 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Injury, poisoning and procedural complications | | | |
| Femoral Neck Fracture | | | |
| subjects affected / exposed | 0 / 56 (0.00%) | 1 / 188 (0.53%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Traumatic Arthritis | | | |
| subjects affected / exposed | 0 / 56 (0.00%) | 1 / 188 (0.53%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Cardiac disorders | | | |
| Coronary Artery Occlusion | | | |
| subjects affected / exposed | 0 / 56 (0.00%) | 1 / 188 (0.53%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Wolff-Parkinson-White Syndrome | | | |
| subjects affected / exposed | 0 / 56 (0.00%) | 1 / 188 (0.53%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Nervous system disorders | | | |
| Transient Ischaemic Attack | | | |
| subjects affected / exposed | 0 / 56 (0.00%) | 1 / 188 (0.53%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Vertebrobasilar Insufficiency | | | |
| subjects affected / exposed | 0 / 56 (0.00%) | 1 / 188 (0.53%) | |
| 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 | | | |
| Anaemia | | | |

| | | | |
|--|----------------|-----------------|--|
| subjects affected / exposed | 0 / 56 (0.00%) | 1 / 188 (0.53%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Eye disorders | | | |
| Cataract | | | |
| subjects affected / exposed | 0 / 56 (0.00%) | 1 / 188 (0.53%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Gastrointestinal disorders | | | |
| Small Intestinal Obstruction | | | |
| subjects affected / exposed | 0 / 56 (0.00%) | 1 / 188 (0.53%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Vomiting | | | |
| subjects affected / exposed | 0 / 56 (0.00%) | 1 / 188 (0.53%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Hepatobiliary disorders | | | |
| Bile Duct Stone | | | |
| subjects affected / exposed | 0 / 56 (0.00%) | 0 / 188 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Cholelithiasis | | | |
| subjects affected / exposed | 1 / 56 (1.79%) | 0 / 188 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Renal and urinary disorders | | | |
| Nephrolithiasis | | | |
| subjects affected / exposed | 0 / 56 (0.00%) | 1 / 188 (0.53%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Musculoskeletal and connective tissue disorders | | | |
| Arthralgia | | | |

| | | | |
|---|----------------|-----------------|--|
| subjects affected / exposed | 0 / 56 (0.00%) | 1 / 188 (0.53%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Lumbar Spinal Stenosis | | | |
| subjects affected / exposed | 0 / 56 (0.00%) | 1 / 188 (0.53%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Osteoarthritis | | | |
| subjects affected / exposed | 0 / 56 (0.00%) | 1 / 188 (0.53%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Rheumatoid Arthritis | | | |
| subjects affected / exposed | 0 / 56 (0.00%) | 0 / 188 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Infections and infestations | | | |
| Bursitis Infective Staphylococcal | | | |
| subjects affected / exposed | 0 / 56 (0.00%) | 0 / 188 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Cellulitis | | | |
| subjects affected / exposed | 1 / 56 (1.79%) | 0 / 188 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Erysipelas | | | |
| subjects affected / exposed | 1 / 56 (1.79%) | 0 / 188 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Pneumonia | | | |
| subjects affected / exposed | 0 / 56 (0.00%) | 1 / 188 (0.53%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Urinary Tract Infection | | | |

| | | |
|---|----------------|-----------------|
| subjects affected / exposed | 0 / 56 (0.00%) | 1 / 188 (0.53%) |
| 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: 5 %

| Non-serious adverse events | Sarilumab 150 mg by AID (AID Assessment Phase) | Sarilumab 150 mg by PFS (AID Assessment Phase) | Sarilumab 200 mg by AID (AID Assessment Phase) |
|---|--|--|--|
| Total subjects affected by non-serious adverse events | | | |
| subjects affected / exposed | 29 / 56 (51.79%) | 21 / 53 (39.62%) | 24 / 52 (46.15%) |
| Investigations | | | |
| Alanine Aminotransferase Increased | | | |
| subjects affected / exposed | 1 / 56 (1.79%) | 1 / 53 (1.89%) | 5 / 52 (9.62%) |
| occurrences (all) | 1 | 1 | 5 |
| Injury, poisoning and procedural complications | | | |
| Accidental Overdose | | | |
| subjects affected / exposed | 0 / 56 (0.00%) | 0 / 53 (0.00%) | 2 / 52 (3.85%) |
| occurrences (all) | 0 | 0 | 2 |
| Contusion | | | |
| subjects affected / exposed | 3 / 56 (5.36%) | 0 / 53 (0.00%) | 0 / 52 (0.00%) |
| occurrences (all) | 4 | 0 | 0 |
| Vascular disorders | | | |
| Hypertension | | | |
| subjects affected / exposed | 2 / 56 (3.57%) | 1 / 53 (1.89%) | 3 / 52 (5.77%) |
| occurrences (all) | 2 | 2 | 3 |
| Blood and lymphatic system disorders | | | |
| Leukopenia | | | |
| subjects affected / exposed | 3 / 56 (5.36%) | 2 / 53 (3.77%) | 0 / 52 (0.00%) |
| occurrences (all) | 5 | 2 | 0 |
| Neutropenia | | | |
| subjects affected / exposed | 10 / 56 (17.86%) | 9 / 53 (16.98%) | 6 / 52 (11.54%) |
| occurrences (all) | 15 | 16 | 8 |
| Thrombocytopenia | | | |
| subjects affected / exposed | 4 / 56 (7.14%) | 1 / 53 (1.89%) | 2 / 52 (3.85%) |
| occurrences (all) | 4 | 1 | 2 |
| General disorders and administration site conditions | | | |

| | | | |
|---|---------------------|---------------------|---------------------|
| Injection Site Erythema subjects affected / exposed occurrences (all) | 2 / 56 (3.57%) 4 | 2 / 53 (3.77%) 3 | 4 / 52 (7.69%) 8 |
| Injection Site Pruritus subjects affected / exposed occurrences (all) | 1 / 56 (1.79%) 2 | 2 / 53 (3.77%) 3 | 0 / 52 (0.00%) 0 |
| Gastrointestinal disorders Nausea subjects affected / exposed occurrences (all) | 1 / 56 (1.79%) 1 | 0 / 53 (0.00%) 0 | 0 / 52 (0.00%) 0 |
| Infections and infestations Bronchitis subjects affected / exposed occurrences (all) | 4 / 56 (7.14%) 4 | 1 / 53 (1.89%) 1 | 1 / 52 (1.92%) 1 |
| Nasopharyngitis subjects affected / exposed occurrences (all) | 4 / 56 (7.14%) 4 | 1 / 53 (1.89%) 1 | 1 / 52 (1.92%) 1 |
| Pharyngitis subjects affected / exposed occurrences (all) | 5 / 56 (8.93%) 5 | 0 / 53 (0.00%) 0 | 1 / 52 (1.92%) 1 |
| Sinusitis subjects affected / exposed occurrences (all) | 1 / 56 (1.79%) 1 | 3 / 53 (5.66%) 3 | 0 / 52 (0.00%) 0 |
| Upper Respiratory Tract Infection subjects affected / exposed occurrences (all) | 3 / 56 (5.36%) 3 | 2 / 53 (3.77%) 3 | 1 / 52 (1.92%) 1 |
| Urinary Tract Infection subjects affected / exposed occurrences (all) | 2 / 56 (3.57%) 2 | 2 / 53 (3.77%) 2 | 2 / 52 (3.85%) 2 |

| Non-serious adverse events | Sarilumab 200 mg by PFS (AID Assessment Phase) | Sarilumab 150 mg by PFS (Extension Phase) | |
|---|--|---|--|
| Total subjects affected by non-serious adverse events subjects affected / exposed | 23 / 56 (41.07%) | 83 / 188 (44.15%) | |
| Investigations Alanine Aminotransferase Increased | | | |

| | | | |
|---|----------------------|------------------------|--|
| subjects affected / exposed occurrences (all) | 1 / 56 (1.79%) 1 | 9 / 188 (4.79%) 9 | |
| Injury, poisoning and procedural complications | | | |
| Accidental Overdose subjects affected / exposed occurrences (all) | 3 / 56 (5.36%) 3 | 8 / 188 (4.26%) 12 | |
| Contusion subjects affected / exposed occurrences (all) | 0 / 56 (0.00%) 0 | 3 / 188 (1.60%) 7 | |
| Vascular disorders | | | |
| Hypertension subjects affected / exposed occurrences (all) | 2 / 56 (3.57%) 2 | 1 / 188 (0.53%) 1 | |
| Blood and lymphatic system disorders | | | |
| Leukopenia subjects affected / exposed occurrences (all) | 0 / 56 (0.00%) 0 | 1 / 188 (0.53%) 1 | |
| Neutropenia subjects affected / exposed occurrences (all) | 4 / 56 (7.14%) 5 | 12 / 188 (6.38%) 21 | |
| Thrombocytopenia subjects affected / exposed occurrences (all) | 1 / 56 (1.79%) 1 | 3 / 188 (1.60%) 4 | |
| General disorders and administration site conditions | | | |
| Injection Site Erythema subjects affected / exposed occurrences (all) | 4 / 56 (7.14%) 14 | 7 / 188 (3.72%) 33 | |
| Injection Site Pruritus subjects affected / exposed occurrences (all) | 4 / 56 (7.14%) 5 | 5 / 188 (2.66%) 25 | |
| Gastrointestinal disorders | | | |
| Nausea subjects affected / exposed occurrences (all) | 3 / 56 (5.36%) 5 | 0 / 188 (0.00%) 0 | |
| Infections and infestations | | | |

| | | |
|-----------------------------------|----------------|-------------------|
| Bronchitis | | |
| subjects affected / exposed | 1 / 56 (1.79%) | 8 / 188 (4.26%) |
| occurrences (all) | 1 | 9 |
| Nasopharyngitis | | |
| subjects affected / exposed | 2 / 56 (3.57%) | 4 / 188 (2.13%) |
| occurrences (all) | 2 | 4 |
| Pharyngitis | | |
| subjects affected / exposed | 1 / 56 (1.79%) | 2 / 188 (1.06%) |
| occurrences (all) | 1 | 2 |
| Sinusitis | | |
| subjects affected / exposed | 1 / 56 (1.79%) | 12 / 188 (6.38%) |
| occurrences (all) | 1 | 13 |
| Upper Respiratory Tract Infection | | |
| subjects affected / exposed | 3 / 56 (5.36%) | 25 / 188 (13.30%) |
| occurrences (all) | 4 | 31 |
| Urinary Tract Infection | | |
| subjects affected / exposed | 2 / 56 (3.57%) | 10 / 188 (5.32%) |
| occurrences (all) | 2 | 11 |

More information

Substantial protocol amendments (globally)

Were there any global substantial amendments to the protocol? Yes

| Date | Amendment |
|-----------------|---|
| 23 January 2014 | Following amendments were made: - Secondary endpoints ("use-related errors" were removed, "Failed drug deliveries" were added), as well as subject diary questions related to the AID user assessment were modified. - Caregivers were allowed to administer the investigational product under exceptional circumstances. - Analgesics with no anti-inflammatory properties were added to the permitted concomitant medication. - The reference to the Committee for Medicinal Products for Human Use (CHMP) guideline for supine blood pressure measurement was removed. - The objectives and the endpoints of the study were reordered. |

Notes:

Interruptions (globally)

Were there any global interruptions to the trial? No

Limitations and caveats

None reported