

**Clinical trial results:****A Phase 2, Randomized, Double-Blind, Placebo-Controlled, Multi-Center Study to Assess the Efficacy and Safety of GS-6624 in Subjects with Idiopathic Pulmonary Fibrosis (RAINIER)****Summary**

| | |
|--------------------------|----------------------|
| EudraCT number | 2012-001571-36 |
| Trial protocol | IT BE GB DE CZ ES PL |
| Global end of trial date | 23 February 2016 |

Results information

| | |
|--------------------------------|---------------|
| Result version number | v1 |
| This version publication date | 11 March 2017 |
| First version publication date | 11 March 2017 |

Trial information**Trial identification**

| | |
|-----------------------|----------------|
| Sponsor protocol code | GS-US-322-0207 |
|-----------------------|----------------|

Additional study identifiers

| | |
|------------------------------------|-------------|
| ISRCTN number | - |
| ClinicalTrials.gov id (NCT number) | NCT01769196 |
| 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 | Clinical Trials Mailbox, Gilead Sciences International Ltd, ClinicalTrialDisclosures@gilead.com |
| Scientific contact | Clinical Trials Mailbox, Gilead Sciences International Ltd, ClinicalTrialDisclosures@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 | 23 February 2016 |
| Is this the analysis of the primary completion data? | Yes |
| Primary completion date | 23 February 2016 |
| Global end of trial reached? | Yes |
| Global end of trial date | 23 February 2016 |
| Was the trial ended prematurely? | No |

Notes:

General information about the trial

Main objective of the trial:

The primary objectives of this study are to determine the effect of simtuzumab (GS-6624) on progression-free survival (PFS) as determined by either a categorical decline in forced vital capacity (FVC) or all-cause mortality, in all participants enrolled or in a subset of participants who are classified as lysyl oxidase-like-2 (LOXL2) high based on a prespecified level in serum at baseline.

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 | 31 January 2013 |
| 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 | Poland: 28 |
| Country: Number of subjects enrolled | Spain: 24 |
| Country: Number of subjects enrolled | United Kingdom: 33 |
| Country: Number of subjects enrolled | Belgium: 14 |
| Country: Number of subjects enrolled | Czech Republic: 12 |
| Country: Number of subjects enrolled | France: 36 |
| Country: Number of subjects enrolled | Germany: 40 |
| Country: Number of subjects enrolled | Italy: 14 |
| Country: Number of subjects enrolled | Canada: 24 |
| Country: Number of subjects enrolled | Israel: 12 |
| Country: Number of subjects enrolled | Australia: 29 |
| Country: Number of subjects enrolled | Switzerland: 1 |
| Country: Number of subjects enrolled | United States: 208 |

| | |
|--------------------------------------|------------------------|
| Country: Number of subjects enrolled | Korea, Republic of: 69 |
| Worldwide total number of subjects | 544 |
| EEA total number of subjects | 201 |

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) | 189 |
| From 65 to 84 years | 352 |
| 85 years and over | 3 |

Subject disposition

Recruitment

Recruitment details:

Participants were enrolled at study sites in North America, Europe, and Asia Pacific. The first participant was screened on 31 January 2013. The last study visit occurred on 23 February 2016.

Pre-assignment

Screening details:

1250 participants were screened.

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 | Simtuzumab |
|------------------|------------|

Arm description:

Simtuzumab 125 mg/mL administered subcutaneously once a week

| | |
|--|------------------------|
| Arm type | Experimental |
| Investigational medicinal product name | Simtuzumab |
| Investigational medicinal product code | |
| Other name | GS-6624 |
| Pharmaceutical forms | Solution for injection |
| Routes of administration | Subcutaneous use |

Dosage and administration details:

125 mg/mL administered once a week

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

Arm description:

Simtuzumab placebo administered subcutaneously once a week

| | |
|--|------------------------|
| Arm type | Experimental |
| Investigational medicinal product name | Simtuzumab Placebo |
| Investigational medicinal product code | |
| Other name | |
| Pharmaceutical forms | Solution for injection |
| Routes of administration | Subcutaneous use |

Dosage and administration details:

Simtuzumab placebo administered subcutaneously once a week

| Number of subjects in period 1 | Simtuzumab | Simtuzumab Placebo |
|--|------------|--------------------|
| Started | 272 | 272 |
| Completed | 0 | 0 |
| Not completed | 272 | 272 |
| Adverse event, non-fatal | 24 | 20 |
| Death | 21 | 26 |
| Protocol specified criteria for withdrawal | 9 | 11 |
| Study terminated by sponsor | 160 | 161 |
| Protocol Violation | - | 3 |
| Investigator's discretion | 7 | 3 |
| Progressive disease | 11 | 6 |
| Withdrew consent | 36 | 40 |
| Lack of efficacy | 3 | 2 |
| Participant never dosed with study drug | 1 | - |

Baseline characteristics

Reporting groups

| | |
|--|--------------------|
| Reporting group title | Simtuzumab |
| Reporting group description: Simtuzumab 125 mg/mL administered subcutaneously once a week | |
| Reporting group title | Simtuzumab Placebo |
| Reporting group description: Simtuzumab placebo administered subcutaneously once a week | |

| Reporting group values | Simtuzumab | Simtuzumab Placebo | Total |
|--|-----------------|--------------------|-------|
| Number of subjects | 272 | 272 | 544 |
| Age categorical Units: Subjects | | | |
| Age continuous Units: years arithmetic mean standard deviation | 67.7 ± 7.6 | 68.5 ± 7.07 | - |
| Gender categorical Units: Subjects | | | |
| Female | 45 | 47 | 92 |
| Male | 227 | 225 | 452 |
| Race Units: Subjects | | | |
| Asian | 35 | 36 | 71 |
| Black | 3 | 3 | 6 |
| White | 231 | 229 | 460 |
| Other | 3 | 4 | 7 |
| Ethnicity Units: Subjects | | | |
| Hispanic or Latino | 5 | 7 | 12 |
| Not Hispanic or Latino | 267 | 264 | 531 |
| Not Permitted | 0 | 1 | 1 |
| FVC % Predicted Category Units: Subjects | | | |
| Mild | 37 | 46 | 83 |
| Moderate | 152 | 150 | 302 |
| Severe | 83 | 76 | 159 |
| Forced vital capacity (FVC) Percent Predicted Units: FVC % predicted arithmetic mean standard deviation | 61.4 ± 12.7 | 62.3 ± 12.22 | - |
| Baseline Serum LOXL2 Units: pg/mL arithmetic mean standard deviation | 89.8 ± 70.06 | 86.7 ± 51.99 | - |

End points

End points reporting groups

| | |
|------------------------------|--|
| Reporting group title | Simtuzumab |
| Reporting group description: | Simtuzumab 125 mg/mL administered subcutaneously once a week |
| Reporting group title | Simtuzumab Placebo |
| Reporting group description: | Simtuzumab placebo administered subcutaneously once a week |

Primary: Progression Free Survival

| | |
|------------------------|---|
| End point title | Progression Free Survival |
| End point description: | Progression free survival (PFS) was defined as the categorical decrease in forced vital capacity (FVC) % predicted ($\geq 10\%$ relative decrease in FVC and $\geq 5\%$ absolute decrease in FVC from baseline) with confirmation at a consecutive visit at least 2 weeks later using the same criteria. Intent-to-Treat (ITT) Analysis Set |
| End point type | Primary |
| End point timeframe: | Up to 148 weeks |

| End point values | Simtuzumab | Simtuzumab Placebo | | |
|----------------------------------|---------------------|---------------------|--|--|
| Subject group type | Reporting group | Reporting group | | |
| Number of subjects analysed | 272 | 272 | | |
| Units: Months | | | | |
| median (confidence interval 95%) | 12.6 (11.3 to 14.4) | 15.4 (12.6 to 19.1) | | |

Statistical analyses

| | |
|---|--|
| Statistical analysis title | Statistical analysis - Simtuzumab vs Placebo |
| Statistical analysis description: | The null hypothesis was that there is no difference in PFS between Simtuzumab and Simtuzumab placebo. The alternative hypothesis was that there is a difference. These hypotheses were evaluated using stratified log-rank test, adjusted for screening post-bronchodilator FVC % predicted, sLOXL2 level categories, and concomitant use of pirfenidone or nintedanib (P/N) at time of screening. |
| Comparison groups | Simtuzumab Placebo v Simtuzumab |
| Number of subjects included in analysis | 544 |
| Analysis specification | Pre-specified |
| Analysis type | superiority |
| P-value | = 0.329 |
| Method | Logrank |
| Parameter estimate | Hazard ratio (HR) |
| Point estimate | 1.13 |

| | |
|---------------------|---------|
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | 0.88 |
| upper limit | 1.45 |

Primary: PFS Among the Participants With sLOXL2 ≥ 50th Percentile

| | |
|------------------------|---|
| End point title | PFS Among the Participants With sLOXL2 ≥ 50th Percentile |
| End point description: | Participants in the ITT Analysis Set with serum LOXL2 (sLOXL2) ≥ 50th percentile in peripheral blood were analyzed. |
| End point type | Primary |
| End point timeframe: | Up to 148 weeks |

| End point values | Simtuzumab | Simtuzumab Placebo | | |
|----------------------------------|--------------------|---------------------|--|--|
| Subject group type | Reporting group | Reporting group | | |
| Number of subjects analysed | 137 | 140 | | |
| Units: months | | | | |
| median (confidence interval 95%) | 11.7 (9.9 to 15.9) | 14.3 (10.4 to 19.1) | | |

Statistical analyses

| | |
|---|--|
| Statistical analysis title | Statistical analysis - Simtuzumab vs Placebo |
| Comparison groups | Simtuzumab v Simtuzumab Placebo |
| Number of subjects included in analysis | 277 |
| Analysis specification | Pre-specified |
| Analysis type | superiority ^[1] |
| P-value | = 0.851 |
| Method | Logrank |
| Parameter estimate | Hazard ratio (HR) |
| Point estimate | 1.03 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | 0.74 |
| upper limit | 1.43 |

Notes:

[1] - The null hypothesis was that there is no difference in PFS between Simtuzumab and Simtuzumab placebo in participants with sLOXL2 ≥ 50th percentile. The alternative hypothesis was that there is a difference. These hypotheses were evaluated using stratified log-rank test, adjusted for screening post-bronchodilator FVC % predicted and concomitant use of pirfenidone or nintedanib (P/N) at time of screening.

Primary: PFS Among the Participants With sLOXL2 ≥ 75th Percentile

| | |
|-----------------|--|
| End point title | PFS Among the Participants With sLOXL2 ≥ 75th Percentile |
|-----------------|--|

End point description:

Participants in the ITT Analysis Set with sLOXL2 ≥ 75th percentile in peripheral blood were analyzed.

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

End point timeframe:

Up to 148 weeks

| End point values | Simtuzumab | Simtuzumab Placebo | | |
|----------------------------------|-----------------|--------------------|--|--|
| Subject group type | Reporting group | Reporting group | | |
| Number of subjects analysed | 68 | 71 | | |
| Units: months | | | | |
| median (confidence interval 95%) | 11.6 (9 to 15) | 16.9 (7.7 to 21.7) | | |

Statistical analyses

| | |
|---|--|
| Statistical analysis title | Statistical analysis - Simtuzumab vs Placebo |
| Comparison groups | Simtuzumab v Simtuzumab Placebo |
| Number of subjects included in analysis | 139 |
| Analysis specification | Pre-specified |
| Analysis type | superiority ^[2] |
| P-value | = 0.475 |
| Method | Logrank |
| Parameter estimate | Hazard ratio (HR) |
| Point estimate | 1.2 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | 0.72 |
| upper limit | 2 |

Notes:

[2] - The null hypothesis was that there is no difference in PFS between simtuzumab and simtuzumab placebo in participants with sLOXL2 ≥ 75th percentile. The alternative hypothesis was that there is a difference. These hypotheses were evaluated using stratified log-rank test, adjusted for screening post-bronchodilator FVC % predicted and concomitant use of pirfenidone or nintedanib (P/N) at time of screening.

Secondary: Overall Survival

| | |
|-----------------|------------------|
| End point title | Overall Survival |
|-----------------|------------------|

End point description:

1) Overall survival was defined as the time from randomization date to death that occurred prior to the last dose date plus 30 days.

2) ITT Analysis Set

3) 999 = not reached due to insufficient number of events

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

End point timeframe:

Up to 151 weeks

| End point values | Simtuzumab | Simtuzumab Placebo | | |
|----------------------------------|------------------|--------------------|--|--|
| Subject group type | Reporting group | Reporting group | | |
| Number of subjects analysed | 272 | 272 | | |
| Units: months | | | | |
| median (confidence interval 95%) | 999 (999 to 999) | 999 (999 to 999) | | |

Statistical analyses

| Statistical analysis title | Statistical analysis - Simtuzumab vs Placebo |
|---|--|
| Comparison groups | Simtuzumab Placebo v Simtuzumab |
| Number of subjects included in analysis | 544 |
| Analysis specification | Pre-specified |
| Analysis type | other |
| P-value | = 0.602 |
| Method | Logrank |
| Parameter estimate | Hazard ratio (HR) |
| Point estimate | 1.2 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | 0.61 |
| upper limit | 2.37 |

Secondary: Relative Change From Baseline in FVC % Predicted

| | |
|------------------------|---|
| End point title | Relative Change From Baseline in FVC % Predicted |
| End point description: | <ul style="list-style-type: none"> FVC was defined as the volume of air (liters) that can forcibly be blown out after taking a full breath. FVC % predicted was defined as FVC % of the participant divided by the average FVC % in the population for any person of similar age, sex, and body composition. Adjusted means are from mixed model repeated measures (MMRM) model with baseline FVC % predicted, sLOXL2 level, concomitant pirfenidone/nintedanib use (never vs. ever), treatment, visit, and treatment-by-visit interaction terms, including all data up to Week 130. Participants in the ITT Analysis Set with available data were analyzed. |
| End point type | Secondary |
| End point timeframe: | Weeks 54, 106, and 130 |

| End point values | Simtuzumab | Simtuzumab Placebo | | |
|--|------------------|--------------------|--|--|
| Subject group type | Reporting group | Reporting group | | |
| Number of subjects analysed | 272 | 272 | | |
| Units: percent change in FVC % predicted | | | | |
| least squares mean (standard error) | | | | |
| Wk 54 (Simtuzumab: N= 124; Placebo: N = 117) | -9.2 (± 0.643) | -8.88 (± 0.658) | | |
| Wk 106 (Simtuzumab: N=60; Placebo: N= 55) | -13.7 (± 0.883) | -12.16 (± 0.908) | | |
| Wk 130 (Simtuzumab: N=10; Placebo: N= 12) | -18.09 (± 1.712) | -11.83 (± 1.6) | | |

Statistical analyses

No statistical analyses for this end point

Secondary: Number of Definite Acute Exacerbations of IPF Among Adjudicated Respiratory Hospitalizations

| | |
|-----------------|--|
| End point title | Number of Definite Acute Exacerbations of IPF Among Adjudicated Respiratory Hospitalizations |
|-----------------|--|

End point description:

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

End point timeframe:

Participants in the ITT Analysis Set with adjudicated respiratory hospitalizations were analyzed.

| End point values | Simtuzumab | Simtuzumab Placebo | | |
|---|-----------------|--------------------|--|--|
| Subject group type | Reporting group | Reporting group | | |
| Number of subjects analysed | 99 | 84 | | |
| Units: Exacerbations per participant year | | | | |
| number (not applicable) | 5 | 5 | | |

Statistical analyses

No statistical analyses for this end point

Secondary: Number of Adjudicated Respiratory Hospitalizations (ARP) Among Total Hospitalizations

| | |
|-----------------|---|
| End point title | Number of Adjudicated Respiratory Hospitalizations (ARP) Among Total Hospitalizations |
|-----------------|---|

End point description:

Participants in ITT Analysis Set with total hospitalizations were analyzed.

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

End point timeframe:

Up to 148 weeks

| End point values | Simtuzumab | Simtuzumab Placebo | | |
|-----------------------------|-----------------|--------------------|--|--|
| Subject group type | Reporting group | Reporting group | | |
| Number of subjects analysed | 181 | 154 | | |
| Units: Number of ARP | | | | |
| number (not applicable) | 99 | 84 | | |

Statistical analyses

No statistical analyses for this end point

Secondary: Number of Participants Experiencing Adjudicated Respiratory Deaths Among Those With Adjudicated Death

| | |
|-----------------|---|
| End point title | Number of Participants Experiencing Adjudicated Respiratory Deaths Among Those With Adjudicated Death |
|-----------------|---|

End point description:

Participants in the ITT Analysis Set with adjudicated deaths were analyzed.

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

End point timeframe:

Up to 148 weeks

| End point values | Simtuzumab | Simtuzumab Placebo | | |
|-----------------------------|-----------------|--------------------|--|--|
| Subject group type | Reporting group | Reporting group | | |
| Number of subjects analysed | 19 | 17 | | |
| Units: Participants | 17 | 13 | | |

Statistical analyses

No statistical analyses for this end point

Secondary: Absolute Change From Baseline in 6 Minute Walk Distance (6MWD)

| | |
|-----------------|--|
| End point title | Absolute Change From Baseline in 6 Minute Walk Distance (6MWD) |
|-----------------|--|

End point description:

- Adjusted means were from MMRM model with baseline 6MWD, FVC % predicted, sLOXL2 level, concomitant pirfenidone/nintedanib use (never vs. ever), treatment, visit, and treatment-by-visit interaction terms, including all data up to Week 130.
- Participants in the ITT Analysis Set with available data were analyzed.

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

End point timeframe:
Weeks 58, 106, and 130

| End point values | Simtuzumab | Simtuzumab Placebo | | |
|---|---------------------|-----------------------|--|--|
| Subject group type | Reporting group | Reporting group | | |
| Number of subjects analysed | 272 | 272 | | |
| Units: Meters | | | | |
| least squares mean (standard error) | | | | |
| Wk 58 (Simtuzumab: N= 95; Placebo: N= 98) | -33.76 (± 6.617) | -14.7 (± 6.596) | | |
| Wk 106 (Simtuzumab: N= 44; Placebo: N= 37) | -37.43 (± 9.71) | -24.3 (± 10.318) | | |
| Wk 58 (Simtuzumab: N= 7; Placebo: N= 9) | -71.2 (± 19.14) | -31.65 (± 18.458) | | |

Statistical analyses

No statistical analyses for this end point

Secondary: Absolute Change From Baseline in St. George's Respiratory Questionnaire (SGRQ) Score

| | |
|------------------------|---|
| End point title | Absolute Change From Baseline in St. George's Respiratory Questionnaire (SGRQ) Score |
| End point description: | The SGRQ is a disease-specific questionnaire designed to measure impact on overall health, daily life, and perceived well-being in patients with obstructive airways disease. Patients respond to questions about symptoms (frequency & severity) and impact components (social functioning and psychological disturbances resulting from airways disease). Scores range from 0 to 100, with higher scores indicating more limitations. |
| End point type | Secondary |
| End point timeframe: | Week 58, 106, and 130 |

| End point values | Simtuzumab | Simtuzumab Placebo | | |
|--|--------------------|-----------------------|--|--|
| Subject group type | Reporting group | Reporting group | | |
| Number of subjects analysed | 272 | 272 | | |
| Units: units on a scale | | | | |
| least squares mean (standard error) | | | | |
| Wk 58 (Simtuzumab: N = 101; Placebo: N = 104) | 6.07 (± 1.015) | 3.62 (± 1.01) | | |
| Wk 106 (Simtuzumab: N = 48; Placebo: N = 37) | 10.34 (± 1.425) | 6.54 (± 1.559) | | |
| Wk 106 (Simtuzumab: N = 10; Placebo: N = 10) | 18.1 (± 2.424) | 1.08 (± 2.473) | | |

Statistical analyses

No statistical analyses for this end point

Secondary: Overall Survival Among the Participants With sLOXL2 \geq 50th Percentile

| | |
|--|--|
| End point title | Overall Survival Among the Participants With sLOXL2 \geq 50th Percentile |
| End point description: 1) Participants in the ITT Analysis Set with sLOXL2 \geq 50th percentile in peripheral blood were analyzed. 2) 999 = not reached due to insufficient number of events | |
| End point type | Secondary |
| End point timeframe: Up to 151 weeks | |

| End point values | Simtuzumab | Simtuzumab Placebo | | |
|----------------------------------|------------------|--------------------|--|--|
| Subject group type | Reporting group | Reporting group | | |
| Number of subjects analysed | 137 | 140 | | |
| Units: months | | | | |
| median (confidence interval 95%) | 999 (999 to 999) | 999 (999 to 999) | | |

Statistical analyses

| | |
|---|--|
| Statistical analysis title | Statistical analysis - Simtuzumab vs Placebo |
| Comparison groups | Simtuzumab v Simtuzumab Placebo |
| Number of subjects included in analysis | 277 |
| Analysis specification | Pre-specified |
| Analysis type | other ^[3] |
| P-value | = 0.988 |
| Method | Logrank |
| Parameter estimate | Hazard ratio (HR) |
| Point estimate | 0.99 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | 0.43 |
| upper limit | 2.28 |

Notes:

[3] - The difference in OS between the treatment groups was assessed using the stratified logrank test, adjusted for screening post-bronchodilator FVC % predicted and concomitant use of pirfenidone or nintedanib (P/N) at time of screening.

Secondary: Overall Survival Among the Participants With sLOXL2 ≥ 75th Percentile

| | |
|-----------------|---|
| End point title | Overall Survival Among the Participants With sLOXL2 ≥ 75th Percentile |
|-----------------|---|

End point description:

- 1) Participants in the ITT Analysis Set with sLOXL2 ≥ 75th percentile in peripheral blood were analyzed.
- 2) 999 = not reached due to insufficient number of events

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

End point timeframe:

Up to 151 weeks

| End point values | Simtuzumab | Simtuzumab Placebo | | |
|----------------------------------|-------------------|--------------------|--|--|
| Subject group type | Reporting group | Reporting group | | |
| Number of subjects analysed | 68 | 71 | | |
| Units: months | | | | |
| median (confidence interval 95%) | 999 (19.2 to 999) | 999 (999 to 999) | | |

Statistical analyses

| Statistical analysis title | Statistical analysis - Simtuzumab vs Placebo |
|---|--|
| Comparison groups | Simtuzumab v Simtuzumab Placebo |
| Number of subjects included in analysis | 139 |
| Analysis specification | Pre-specified |
| Analysis type | other ^[4] |
| P-value | = 0.925 |
| Method | Logrank |
| Parameter estimate | Hazard ratio (HR) |
| Point estimate | 0.95 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | 0.3 |
| upper limit | 2.99 |

Notes:

[4] - The difference in OS between the treatment groups was assessed using the stratified logrank test, adjusted for screening post-bronchodilator FVC % predicted and concomitant use of pirfenidone or nintedanib (P/N) at time of screening.

Adverse events

Adverse events information

Timeframe for reporting adverse events:

30 days post last study treatment (up to 148 weeks)

Adverse event reporting additional description:

Safety Analysis Set: included all randomized participants who received at least 1 dose of study drug and was analyzed according to treatment received.

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

Dictionary used

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

| | |
|--------------------|------|
| Dictionary version | 18.0 |
|--------------------|------|

Reporting groups

| | |
|-----------------------|------------|
| Reporting group title | Simtuzumab |
|-----------------------|------------|

Reporting group description:

Simtuzumab 125 mg/mL administered subcutaneously once a week

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

Reporting group description:

Simtuzumab placebo administered subcutaneously once a week

| Serious adverse events | Simtuzumab | Simtuzumab Placebo | |
|---|--------------------|--------------------|--|
| Total subjects affected by serious adverse events | | | |
| subjects affected / exposed | 101 / 271 (37.27%) | 97 / 272 (35.66%) | |
| number of deaths (all causes) | 31 | 32 | |
| number of deaths resulting from adverse events | | | |
| Neoplasms benign, malignant and unspecified (incl cysts and polyps) | | | |
| Basal cell carcinoma | | | |
| subjects affected / exposed | 1 / 271 (0.37%) | 0 / 272 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Bronchioloalveolar carcinoma | | | |
| subjects affected / exposed | 0 / 271 (0.00%) | 1 / 272 (0.37%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Colon cancer | | | |
| subjects affected / exposed | 0 / 271 (0.00%) | 1 / 272 (0.37%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Gastrointestinal carcinoma | | | |

| | | | |
|---|-----------------|-----------------|--|
| subjects affected / exposed | 0 / 271 (0.00%) | 1 / 272 (0.37%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Lung cancer metastatic | | | |
| subjects affected / exposed | 1 / 271 (0.37%) | 0 / 272 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 1 | 0 / 0 | |
| Lung neoplasm malignant | | | |
| subjects affected / exposed | 1 / 271 (0.37%) | 1 / 272 (0.37%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 1 | 0 / 0 | |
| Malignant melanoma | | | |
| subjects affected / exposed | 0 / 271 (0.00%) | 1 / 272 (0.37%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Metastases to liver | | | |
| subjects affected / exposed | 0 / 271 (0.00%) | 1 / 272 (0.37%) | |
| occurrences causally related to treatment / all | 0 / 0 | 1 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 1 / 1 | |
| Metastases to lung | | | |
| subjects affected / exposed | 0 / 271 (0.00%) | 1 / 272 (0.37%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Non-small cell lung cancer | | | |
| subjects affected / exposed | 1 / 271 (0.37%) | 0 / 272 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Oesophageal carcinoma | | | |
| subjects affected / exposed | 0 / 271 (0.00%) | 1 / 272 (0.37%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Squamous cell carcinoma of lung | | | |

| | | | |
|---|-----------------|-----------------|--|
| subjects affected / exposed | 1 / 271 (0.37%) | 1 / 272 (0.37%) | |
| occurrences causally related to treatment / all | 0 / 1 | 1 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 1 / 1 | |
| Squamous cell carcinoma of the tongue | | | |
| subjects affected / exposed | 1 / 271 (0.37%) | 0 / 272 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Vascular disorders | | | |
| Aortic stenosis | | | |
| subjects affected / exposed | 2 / 271 (0.74%) | 1 / 272 (0.37%) | |
| occurrences causally related to treatment / all | 0 / 2 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 1 | 0 / 0 | |
| Circulatory collapse | | | |
| subjects affected / exposed | 0 / 271 (0.00%) | 1 / 272 (0.37%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 1 | |
| Deep vein thrombosis | | | |
| subjects affected / exposed | 1 / 271 (0.37%) | 1 / 272 (0.37%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Femoral artery occlusion | | | |
| subjects affected / exposed | 0 / 271 (0.00%) | 1 / 272 (0.37%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Hypertension | | | |
| subjects affected / exposed | 1 / 271 (0.37%) | 0 / 272 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Peripheral ischaemia | | | |
| subjects affected / exposed | 0 / 271 (0.00%) | 1 / 272 (0.37%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Peripheral vascular disorder | | | |

| | | | |
|--|-----------------|-----------------|--|
| subjects affected / exposed | 0 / 271 (0.00%) | 1 / 272 (0.37%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Vasculitis | | | |
| subjects affected / exposed | 1 / 271 (0.37%) | 0 / 272 (0.00%) | |
| occurrences causally related to treatment / all | 1 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| General disorders and administration site conditions | | | |
| Asthenia | | | |
| subjects affected / exposed | 1 / 271 (0.37%) | 2 / 272 (0.74%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 2 | |
| deaths causally related to treatment / all | 0 / 1 | 0 / 1 | |
| Chest discomfort | | | |
| subjects affected / exposed | 1 / 271 (0.37%) | 0 / 272 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Chest pain | | | |
| subjects affected / exposed | 2 / 271 (0.74%) | 3 / 272 (1.10%) | |
| occurrences causally related to treatment / all | 0 / 2 | 0 / 3 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Death | | | |
| subjects affected / exposed | 1 / 271 (0.37%) | 0 / 272 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 1 | 0 / 0 | |
| Fatigue | | | |
| subjects affected / exposed | 2 / 271 (0.74%) | 0 / 272 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 2 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 1 | 0 / 0 | |
| General physical health deterioration | | | |
| subjects affected / exposed | 2 / 271 (0.74%) | 0 / 272 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 2 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Pyrexia | | | |

| | | | |
|--|-------------------|-------------------|--|
| subjects affected / exposed | 2 / 271 (0.74%) | 0 / 272 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 3 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Respiratory, thoracic and mediastinal disorders | | | |
| Acute respiratory failure | | | |
| subjects affected / exposed | 6 / 271 (2.21%) | 1 / 272 (0.37%) | |
| occurrences causally related to treatment / all | 0 / 7 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 1 | 0 / 0 | |
| Cough | | | |
| subjects affected / exposed | 1 / 271 (0.37%) | 1 / 272 (0.37%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Dyspnoea | | | |
| subjects affected / exposed | 10 / 271 (3.69%) | 7 / 272 (2.57%) | |
| occurrences causally related to treatment / all | 1 / 12 | 0 / 8 | |
| deaths causally related to treatment / all | 0 / 1 | 0 / 1 | |
| Dyspnoea exertional | | | |
| subjects affected / exposed | 0 / 271 (0.00%) | 1 / 272 (0.37%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Haemoptysis | | | |
| subjects affected / exposed | 0 / 271 (0.00%) | 1 / 272 (0.37%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Hypoxia | | | |
| subjects affected / exposed | 3 / 271 (1.11%) | 2 / 272 (0.74%) | |
| occurrences causally related to treatment / all | 0 / 3 | 0 / 2 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 1 | |
| Idiopathic pulmonary fibrosis | | | |
| subjects affected / exposed | 31 / 271 (11.44%) | 35 / 272 (12.87%) | |
| occurrences causally related to treatment / all | 3 / 40 | 2 / 42 | |
| deaths causally related to treatment / all | 1 / 9 | 0 / 10 | |
| Interstitial lung disease | | | |

| | | | |
|---|-----------------|-----------------|--|
| subjects affected / exposed | 0 / 271 (0.00%) | 1 / 272 (0.37%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Lung disorder | | | |
| subjects affected / exposed | 0 / 271 (0.00%) | 1 / 272 (0.37%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Nasal polyps | | | |
| subjects affected / exposed | 1 / 271 (0.37%) | 0 / 272 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Pleural effusion | | | |
| subjects affected / exposed | 0 / 271 (0.00%) | 1 / 272 (0.37%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Pleurisy | | | |
| subjects affected / exposed | 1 / 271 (0.37%) | 0 / 272 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Pneumothorax | | | |
| subjects affected / exposed | 2 / 271 (0.74%) | 3 / 272 (1.10%) | |
| occurrences causally related to treatment / all | 0 / 2 | 0 / 5 | |
| deaths causally related to treatment / all | 0 / 1 | 0 / 1 | |
| Pulmonary alveolar haemorrhage | | | |
| subjects affected / exposed | 1 / 271 (0.37%) | 0 / 272 (0.00%) | |
| occurrences causally related to treatment / all | 1 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Pulmonary embolism | | | |
| subjects affected / exposed | 1 / 271 (0.37%) | 3 / 272 (1.10%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 3 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Pulmonary fibrosis | | | |

| | | | |
|---|-----------------|-----------------|--|
| subjects affected / exposed | 3 / 271 (1.11%) | 0 / 272 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 3 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 3 | 0 / 0 | |
| Pulmonary hypertension | | | |
| subjects affected / exposed | 1 / 271 (0.37%) | 0 / 272 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Pulmonary oedema | | | |
| subjects affected / exposed | 1 / 271 (0.37%) | 0 / 272 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Respiratory disorder | | | |
| subjects affected / exposed | 1 / 271 (0.37%) | 0 / 272 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Respiratory distress | | | |
| subjects affected / exposed | 1 / 271 (0.37%) | 1 / 272 (0.37%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 1 | |
| Respiratory failure | | | |
| subjects affected / exposed | 5 / 271 (1.85%) | 4 / 272 (1.47%) | |
| occurrences causally related to treatment / all | 1 / 5 | 2 / 4 | |
| deaths causally related to treatment / all | 0 / 1 | 1 / 3 | |
| Tachypnoea | | | |
| subjects affected / exposed | 1 / 271 (0.37%) | 0 / 272 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Investigations | | | |
| Blood creatinine increased | | | |
| subjects affected / exposed | 1 / 271 (0.37%) | 0 / 272 (0.00%) | |
| occurrences causally related to treatment / all | 1 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Blood urea increased | | | |

| | | | |
|---|-----------------|-----------------|--|
| subjects affected / exposed | 1 / 271 (0.37%) | 0 / 272 (0.00%) | |
| occurrences causally related to treatment / all | 1 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Ejection fraction decreased | | | |
| subjects affected / exposed | 0 / 271 (0.00%) | 1 / 272 (0.37%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| International normalised ratio increased | | | |
| subjects affected / exposed | 1 / 271 (0.37%) | 0 / 272 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Injury, poisoning and procedural complications | | | |
| Contusion | | | |
| subjects affected / exposed | 0 / 271 (0.00%) | 1 / 272 (0.37%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Femur fracture | | | |
| subjects affected / exposed | 1 / 271 (0.37%) | 0 / 272 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Ligament sprain | | | |
| subjects affected / exposed | 0 / 271 (0.00%) | 1 / 272 (0.37%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Post procedural stroke | | | |
| subjects affected / exposed | 0 / 271 (0.00%) | 1 / 272 (0.37%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Rib fracture | | | |
| subjects affected / exposed | 0 / 271 (0.00%) | 1 / 272 (0.37%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Spinal compression fracture | | | |

| | | | |
|---|-----------------|-----------------|--|
| subjects affected / exposed | 0 / 271 (0.00%) | 1 / 272 (0.37%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Cardiac disorders | | | |
| Acute myocardial infarction | | | |
| subjects affected / exposed | 3 / 271 (1.11%) | 5 / 272 (1.84%) | |
| occurrences causally related to treatment / all | 0 / 3 | 0 / 5 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 3 | |
| Acute right ventricular failure | | | |
| subjects affected / exposed | 0 / 271 (0.00%) | 1 / 272 (0.37%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 1 | |
| Angina pectoris | | | |
| subjects affected / exposed | 2 / 271 (0.74%) | 0 / 272 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 2 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Aortic valve stenosis | | | |
| subjects affected / exposed | 0 / 271 (0.00%) | 1 / 272 (0.37%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Atrial fibrillation | | | |
| subjects affected / exposed | 6 / 271 (2.21%) | 1 / 272 (0.37%) | |
| occurrences causally related to treatment / all | 2 / 6 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Atrial flutter | | | |
| subjects affected / exposed | 2 / 271 (0.74%) | 0 / 272 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 2 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Cardiac arrest | | | |
| subjects affected / exposed | 1 / 271 (0.37%) | 0 / 272 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 1 | 0 / 0 | |
| Cardiac failure | | | |

| | | | |
|---|-----------------|-----------------|--|
| subjects affected / exposed | 0 / 271 (0.00%) | 2 / 272 (0.74%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 3 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 1 | |
| Cardiac failure congestive | | | |
| subjects affected / exposed | 1 / 271 (0.37%) | 0 / 272 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Cardio-respiratory arrest | | | |
| subjects affected / exposed | 1 / 271 (0.37%) | 0 / 272 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 1 | 0 / 0 | |
| Cardiomyopathy | | | |
| subjects affected / exposed | 1 / 271 (0.37%) | 0 / 272 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Coronary artery disease | | | |
| subjects affected / exposed | 1 / 271 (0.37%) | 3 / 272 (1.10%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 3 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Coronary artery occlusion | | | |
| subjects affected / exposed | 1 / 271 (0.37%) | 1 / 272 (0.37%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Myocardial ischaemia | | | |
| subjects affected / exposed | 1 / 271 (0.37%) | 0 / 272 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Pleuropericarditis | | | |
| subjects affected / exposed | 1 / 271 (0.37%) | 0 / 272 (0.00%) | |
| occurrences causally related to treatment / all | 1 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Right ventricular dysfunction | | | |

| | | | |
|---|-----------------|-----------------|--|
| subjects affected / exposed | 0 / 271 (0.00%) | 1 / 272 (0.37%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Right ventricular failure | | | |
| subjects affected / exposed | 1 / 271 (0.37%) | 0 / 272 (0.00%) | |
| occurrences causally related to treatment / all | 2 / 2 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Supraventricular tachycardia | | | |
| subjects affected / exposed | 2 / 271 (0.74%) | 0 / 272 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 2 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Nervous system disorders | | | |
| Amnesia | | | |
| subjects affected / exposed | 1 / 271 (0.37%) | 0 / 272 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Carotid artery stenosis | | | |
| subjects affected / exposed | 0 / 271 (0.00%) | 1 / 272 (0.37%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Chronic inflammatory demyelinating polyradiculoneuropathy | | | |
| subjects affected / exposed | 0 / 271 (0.00%) | 1 / 272 (0.37%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Dizziness | | | |
| subjects affected / exposed | 1 / 271 (0.37%) | 0 / 272 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Facial paresis | | | |
| subjects affected / exposed | 0 / 271 (0.00%) | 1 / 272 (0.37%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Hypoaesthesia | | | |

| | | | |
|---|-----------------|-----------------|--|
| subjects affected / exposed | 0 / 271 (0.00%) | 1 / 272 (0.37%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Ischaemic stroke | | | |
| subjects affected / exposed | 0 / 271 (0.00%) | 1 / 272 (0.37%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 1 | |
| Polyneuropathy | | | |
| subjects affected / exposed | 1 / 271 (0.37%) | 0 / 272 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 2 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Presyncope | | | |
| subjects affected / exposed | 0 / 271 (0.00%) | 1 / 272 (0.37%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 1 | |
| Seizure | | | |
| subjects affected / exposed | 0 / 271 (0.00%) | 1 / 272 (0.37%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Syncope | | | |
| subjects affected / exposed | 2 / 271 (0.74%) | 2 / 272 (0.74%) | |
| occurrences causally related to treatment / all | 0 / 2 | 0 / 2 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 1 | |
| Transient ischaemic attack | | | |
| subjects affected / exposed | 2 / 271 (0.74%) | 2 / 272 (0.74%) | |
| occurrences causally related to treatment / all | 0 / 2 | 0 / 2 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| VIth nerve paralysis | | | |
| subjects affected / exposed | 0 / 271 (0.00%) | 1 / 272 (0.37%) | |
| 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 | 1 / 271 (0.37%) | 0 / 272 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 1 | 0 / 0 | |
| Pancytopenia | | | |
| subjects affected / exposed | 0 / 271 (0.00%) | 1 / 272 (0.37%) | |
| occurrences causally related to treatment / all | 0 / 0 | 1 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Gastrointestinal disorders | | | |
| Abdominal pain | | | |
| subjects affected / exposed | 0 / 271 (0.00%) | 1 / 272 (0.37%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Abdominal pain upper | | | |
| subjects affected / exposed | 1 / 271 (0.37%) | 0 / 272 (0.00%) | |
| occurrences causally related to treatment / all | 1 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Colitis ulcerative | | | |
| subjects affected / exposed | 1 / 271 (0.37%) | 0 / 272 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Diverticulum intestinal haemorrhagic | | | |
| subjects affected / exposed | 1 / 271 (0.37%) | 0 / 272 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Gastritis | | | |
| subjects affected / exposed | 0 / 271 (0.00%) | 1 / 272 (0.37%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Melaena | | | |
| subjects affected / exposed | 1 / 271 (0.37%) | 0 / 272 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Mesenteric venous occlusion | | | |

| | | | |
|---|-----------------|-----------------|--|
| subjects affected / exposed | 1 / 271 (0.37%) | 0 / 272 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Oesophageal varices haemorrhage | | | |
| subjects affected / exposed | 0 / 271 (0.00%) | 1 / 272 (0.37%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Pancreatitis | | | |
| subjects affected / exposed | 0 / 271 (0.00%) | 1 / 272 (0.37%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Pancreatitis acute | | | |
| subjects affected / exposed | 1 / 271 (0.37%) | 2 / 272 (0.74%) | |
| occurrences causally related to treatment / all | 1 / 1 | 0 / 2 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Rectal haemorrhage | | | |
| subjects affected / exposed | 1 / 271 (0.37%) | 0 / 272 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Small intestinal obstruction | | | |
| subjects affected / exposed | 0 / 271 (0.00%) | 1 / 272 (0.37%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Upper gastrointestinal haemorrhage | | | |
| subjects affected / exposed | 1 / 271 (0.37%) | 0 / 272 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 2 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Hepatobiliary disorders | | | |
| Cholecystitis | | | |
| subjects affected / exposed | 0 / 271 (0.00%) | 2 / 272 (0.74%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 2 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Cholecystitis acute | | | |

| | | | |
|---|-----------------|-----------------|--|
| subjects affected / exposed | 4 / 271 (1.48%) | 1 / 272 (0.37%) | |
| occurrences causally related to treatment / all | 1 / 4 | 0 / 2 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Cholelithiasis | | | |
| subjects affected / exposed | 2 / 271 (0.74%) | 0 / 272 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 2 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Hepatic mass | | | |
| subjects affected / exposed | 0 / 271 (0.00%) | 1 / 272 (0.37%) | |
| occurrences causally related to treatment / all | 0 / 0 | 1 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Hepatic necrosis | | | |
| subjects affected / exposed | 0 / 271 (0.00%) | 1 / 272 (0.37%) | |
| occurrences causally related to treatment / all | 0 / 0 | 1 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Skin and subcutaneous tissue disorders | | | |
| Diabetic foot | | | |
| subjects affected / exposed | 0 / 271 (0.00%) | 1 / 272 (0.37%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Renal and urinary disorders | | | |
| Acute kidney injury | | | |
| subjects affected / exposed | 1 / 271 (0.37%) | 0 / 272 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Calculus urinary | | | |
| subjects affected / exposed | 0 / 271 (0.00%) | 1 / 272 (0.37%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Glomerulonephritis | | | |
| subjects affected / exposed | 1 / 271 (0.37%) | 0 / 272 (0.00%) | |
| occurrences causally related to treatment / all | 1 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Goodpasture's syndrome | | | |

| | | | |
|--|-----------------|-----------------|--|
| subjects affected / exposed | 1 / 271 (0.37%) | 0 / 272 (0.00%) | |
| occurrences causally related to treatment / all | 1 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Haematuria | | | |
| subjects affected / exposed | 0 / 271 (0.00%) | 1 / 272 (0.37%) | |
| 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 | | | |
| Intervertebral disc protrusion | | | |
| subjects affected / exposed | 0 / 271 (0.00%) | 1 / 272 (0.37%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Musculoskeletal chest pain | | | |
| subjects affected / exposed | 0 / 271 (0.00%) | 1 / 272 (0.37%) | |
| 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 | 1 / 271 (0.37%) | 0 / 272 (0.00%) | |
| occurrences causally related to treatment / all | 1 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Rotator cuff syndrome | | | |
| subjects affected / exposed | 1 / 271 (0.37%) | 1 / 272 (0.37%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Spinal column stenosis | | | |
| subjects affected / exposed | 1 / 271 (0.37%) | 0 / 272 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Spondylolysis | | | |
| subjects affected / exposed | 0 / 271 (0.00%) | 1 / 272 (0.37%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Infections and infestations | | | |

| | | | |
|---|-----------------|-----------------|--|
| Appendicitis | | | |
| subjects affected / exposed | 0 / 271 (0.00%) | 1 / 272 (0.37%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Bacteraemia | | | |
| subjects affected / exposed | 2 / 271 (0.74%) | 0 / 272 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 2 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Bronchitis | | | |
| subjects affected / exposed | 2 / 271 (0.74%) | 0 / 272 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 2 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Cellulitis | | | |
| subjects affected / exposed | 0 / 271 (0.00%) | 1 / 272 (0.37%) | |
| occurrences causally related to treatment / all | 0 / 0 | 1 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Endocarditis | | | |
| subjects affected / exposed | 1 / 271 (0.37%) | 0 / 272 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Furuncle | | | |
| subjects affected / exposed | 0 / 271 (0.00%) | 1 / 272 (0.37%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Gastroenteritis | | | |
| subjects affected / exposed | 1 / 271 (0.37%) | 1 / 272 (0.37%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Hepatitis E | | | |
| subjects affected / exposed | 0 / 271 (0.00%) | 1 / 272 (0.37%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Influenza | | | |

| | | |
|---|------------------|------------------|
| subjects affected / exposed | 1 / 271 (0.37%) | 0 / 272 (0.00%) |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 |
| Intervertebral discitis | | |
| subjects affected / exposed | 1 / 271 (0.37%) | 0 / 272 (0.00%) |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 |
| Lower respiratory tract infection | | |
| subjects affected / exposed | 0 / 271 (0.00%) | 4 / 272 (1.47%) |
| occurrences causally related to treatment / all | 0 / 0 | 1 / 5 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 |
| Lung infection | | |
| subjects affected / exposed | 0 / 271 (0.00%) | 1 / 272 (0.37%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 |
| Mycetoma mycotic | | |
| subjects affected / exposed | 0 / 271 (0.00%) | 1 / 272 (0.37%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 |
| Oropharyngitis fungal | | |
| subjects affected / exposed | 0 / 271 (0.00%) | 1 / 272 (0.37%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 1 |
| Osteomyelitis | | |
| subjects affected / exposed | 1 / 271 (0.37%) | 0 / 272 (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 | 16 / 271 (5.90%) | 18 / 272 (6.62%) |
| occurrences causally related to treatment / all | 0 / 18 | 0 / 18 |
| deaths causally related to treatment / all | 0 / 3 | 0 / 4 |
| Pneumonia klebsiella | | |

| | | | |
|---|-----------------|-----------------|--|
| subjects affected / exposed | 0 / 271 (0.00%) | 1 / 272 (0.37%) | |
| occurrences causally related to treatment / all | 0 / 0 | 1 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 1 / 1 | |
| Pulmonary tuberculosis | | | |
| subjects affected / exposed | 1 / 271 (0.37%) | 0 / 272 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Pyelonephritis | | | |
| subjects affected / exposed | 0 / 271 (0.00%) | 1 / 272 (0.37%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Respiratory moniliasis | | | |
| subjects affected / exposed | 0 / 271 (0.00%) | 1 / 272 (0.37%) | |
| occurrences causally related to treatment / all | 0 / 0 | 1 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 1 / 1 | |
| Respiratory syncytial virus infection | | | |
| subjects affected / exposed | 0 / 271 (0.00%) | 1 / 272 (0.37%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Respiratory tract infection | | | |
| subjects affected / exposed | 0 / 271 (0.00%) | 3 / 272 (1.10%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 3 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Sepsis | | | |
| subjects affected / exposed | 1 / 271 (0.37%) | 1 / 272 (0.37%) | |
| occurrences causally related to treatment / all | 0 / 2 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Upper respiratory tract infection | | | |
| subjects affected / exposed | 3 / 271 (1.11%) | 0 / 272 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 3 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Urosepsis | | | |

| | | | |
|---|-----------------|-----------------|--|
| subjects affected / exposed | 1 / 271 (0.37%) | 0 / 272 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Metabolism and nutrition disorders | | | |
| Diabetic ketoacidosis | | | |
| subjects affected / exposed | 0 / 271 (0.00%) | 1 / 272 (0.37%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 2 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Type 2 diabetes mellitus | | | |
| subjects affected / exposed | 0 / 271 (0.00%) | 1 / 272 (0.37%) | |
| 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 | Simtuzumab | Simtuzumab Placebo | |
|--|--------------------|--------------------|--|
| Total subjects affected by non-serious adverse events | | | |
| subjects affected / exposed | 237 / 271 (87.45%) | 246 / 272 (90.44%) | |
| Investigations | | | |
| Weight decreased | | | |
| subjects affected / exposed | 25 / 271 (9.23%) | 24 / 272 (8.82%) | |
| occurrences (all) | 25 | 26 | |
| Vascular disorders | | | |
| Hypertension | | | |
| subjects affected / exposed | 15 / 271 (5.54%) | 12 / 272 (4.41%) | |
| occurrences (all) | 15 | 13 | |
| Nervous system disorders | | | |
| Dizziness | | | |
| subjects affected / exposed | 31 / 271 (11.44%) | 26 / 272 (9.56%) | |
| occurrences (all) | 35 | 32 | |
| Headache | | | |
| subjects affected / exposed | 32 / 271 (11.81%) | 35 / 272 (12.87%) | |
| occurrences (all) | 45 | 42 | |
| General disorders and administration site conditions | | | |

| | | | |
|---|--------------------|-------------------|--|
| Asthenia | | | |
| subjects affected / exposed | 15 / 271 (5.54%) | 17 / 272 (6.25%) | |
| occurrences (all) | 18 | 18 | |
| Chest pain | | | |
| subjects affected / exposed | 18 / 271 (6.64%) | 16 / 272 (5.88%) | |
| occurrences (all) | 18 | 16 | |
| Fatigue | | | |
| subjects affected / exposed | 49 / 271 (18.08%) | 48 / 272 (17.65%) | |
| occurrences (all) | 68 | 54 | |
| Injection site bruising | | | |
| subjects affected / exposed | 17 / 271 (6.27%) | 10 / 272 (3.68%) | |
| occurrences (all) | 19 | 12 | |
| Pyrexia | | | |
| subjects affected / exposed | 21 / 271 (7.75%) | 12 / 272 (4.41%) | |
| occurrences (all) | 24 | 12 | |
| Gastrointestinal disorders | | | |
| Constipation | | | |
| subjects affected / exposed | 16 / 271 (5.90%) | 13 / 272 (4.78%) | |
| occurrences (all) | 20 | 13 | |
| Diarrhoea | | | |
| subjects affected / exposed | 44 / 271 (16.24%) | 47 / 272 (17.28%) | |
| occurrences (all) | 77 | 71 | |
| Gastrooesophageal reflux disease | | | |
| subjects affected / exposed | 21 / 271 (7.75%) | 22 / 272 (8.09%) | |
| occurrences (all) | 21 | 224 | |
| Nausea | | | |
| subjects affected / exposed | 33 / 271 (12.18%) | 35 / 272 (12.87%) | |
| occurrences (all) | 39 | 43 | |
| Respiratory, thoracic and mediastinal disorders | | | |
| Cough | | | |
| subjects affected / exposed | 102 / 271 (37.64%) | 93 / 272 (34.19%) | |
| occurrences (all) | 134 | 123 | |
| Dyspnoea | | | |
| subjects affected / exposed | 98 / 271 (36.16%) | 73 / 272 (26.84%) | |
| occurrences (all) | 122 | 95 | |
| Dyspnoea exertional | | | |

| | | | |
|---|-------------------------|-------------------------|--|
| subjects affected / exposed occurrences (all) | 30 / 271 (11.07%) 35 | 29 / 272 (10.66%) 32 | |
| Epistaxis subjects affected / exposed occurrences (all) | 16 / 271 (5.90%) 19 | 9 / 272 (3.31%) 10 | |
| Idiopathic pulmonary fibrosis subjects affected / exposed occurrences (all) | 33 / 271 (12.18%) 40 | 27 / 272 (9.93%) 32 | |
| Oropharyngeal pain subjects affected / exposed occurrences (all) | 16 / 271 (5.90%) 22 | 15 / 272 (5.51%) 15 | |
| Productive cough subjects affected / exposed occurrences (all) | 22 / 271 (8.12%) 28 | 18 / 272 (6.62%) 20 | |
| Rhinorrhoea subjects affected / exposed occurrences (all) | 19 / 271 (7.01%) 23 | 15 / 272 (5.51%) 16 | |
| Sputum increased subjects affected / exposed occurrences (all) | 14 / 271 (5.17%) 14 | 4 / 272 (1.47%) 4 | |
| Skin and subcutaneous tissue disorders | | | |
| Pruritus subjects affected / exposed occurrences (all) | 17 / 271 (6.27%) 20 | 8 / 272 (2.94%) 9 | |
| Rash subjects affected / exposed occurrences (all) | 22 / 271 (8.12%) 25 | 21 / 272 (7.72%) 26 | |
| Psychiatric disorders | | | |
| Depression subjects affected / exposed occurrences (all) | 14 / 271 (5.17%) 15 | 12 / 272 (4.41%) 13 | |
| Insomnia subjects affected / exposed occurrences (all) | 15 / 271 (5.54%) 19 | 17 / 272 (6.25%) 17 | |
| Musculoskeletal and connective tissue disorders | | | |

| | | | |
|------------------------------------|-------------------|-------------------|--|
| Arthralgia | | | |
| subjects affected / exposed | 35 / 271 (12.92%) | 22 / 272 (8.09%) | |
| occurrences (all) | 41 | 27 | |
| Back Pain | | | |
| subjects affected / exposed | 27 / 271 (9.96%) | 28 / 272 (10.29%) | |
| occurrences (all) | 31 | 36 | |
| Pain in extremity | | | |
| subjects affected / exposed | 9 / 271 (3.32%) | 14 / 272 (5.15%) | |
| occurrences (all) | 13 | 15 | |
| Infections and infestations | | | |
| Bronchitis | | | |
| subjects affected / exposed | 32 / 271 (11.81%) | 39 / 272 (14.34%) | |
| occurrences (all) | 41 | 53 | |
| Lower respiratory tract congestion | | | |
| subjects affected / exposed | 8 / 271 (2.95%) | 15 / 272 (5.51%) | |
| occurrences (all) | 13 | 34 | |
| Nasopharyngitis | | | |
| subjects affected / exposed | 36 / 271 (13.28%) | 43 / 272 (15.81%) | |
| occurrences (all) | 44 | 60 | |
| Respiratory tract infection | | | |
| subjects affected / exposed | 14 / 271 (5.17%) | 17 / 272 (6.25%) | |
| occurrences (all) | 26 | 23 | |
| Sinusitis | | | |
| subjects affected / exposed | 16 / 271 (5.90%) | 14 / 272 (5.15%) | |
| occurrences (all) | 21 | 16 | |
| Upper respiratory tract infection | | | |
| subjects affected / exposed | 57 / 271 (21.03%) | 57 / 272 (20.96%) | |
| occurrences (all) | 86 | 91 | |
| Metabolism and nutrition disorders | | | |
| Decreased appetite | | | |
| subjects affected / exposed | 29 / 271 (10.70%) | 34 / 272 (12.50%) | |
| occurrences (all) | 31 | 37 | |

More information

Substantial protocol amendments (globally)

Were there any global substantial amendments to the protocol? Yes

| Date | Amendment |
|-------------------|---|
| 20 March 2013 | <ul style="list-style-type: none">• Clarification provided on collection time points for RNA biomarker samples• Updated table of contents to include new sections and ensure consistency in page/section numbers• Increased the number of study sites from 120 to 180 to support enrollment• Updated Study drug name from GS-6624 to the international non-proprietary name, simtuzumab• Updated all Gilead Sciences DSPH references for SAE reporting to PRA Safety |
| 11 June 2014 | <ul style="list-style-type: none">• The primary endpoint was modified to include an additional primary endpoint of progression free survival in subjects with high serum levels of LOXL2 antibody.• Clarification of reversibility to reduce the risk of including subjects with reversible airway disease• Exclusion Criterion was modified to allow enrollment of subjects with certain cancers that have a low risk of reoccurrence.• Exclusion Criterion was updated to include the following text: "Concomitant use of pirfenidone or nintedanib is being allowed, but must be administered in accordance with the approved prescribing instructions in the country where the clinical trial site is located".• The caps on the moderate and the severe strata were removed.• Revised the timing of the final analysis |
| 03 September 2015 | <ul style="list-style-type: none">• Study subjects will have the option of continuing in an open-label rollover extension.• Duration of randomized, double-blind, placebo-controlled study was extended for up to 6 months after the accumulation of at least 250 PFS events.• Statistical components of the protocol were updated with respect to the testing strategy and handling of multiple comparisons which are aligned with the approved Statistical Analysis Plan.• Study visit procedures were added for the open-label phase of the study.• Editorial changes were made throughout the protocol, where appropriate, to improve clarity and consistency.• References to "pharmacogenomic" were updated to "genomic testing".• Early Termination visit was revised to be scheduled "approximately 28 days after last dose of IMP".• References to specific study visits at which procedures were performed were removed to avoid any confusion and inconsistencies in the protocol.• Corresponding changes to the protocol body text were also made in the Protocol Synopsis, where appropriate. |

Notes:

Interruptions (globally)

Were there any global interruptions to the trial? No

Limitations and caveats

None reported