



Clinical trial results:

A Phase 3 randomized, double-blind, active-controlled, parallel-group, multi-center study in hemodialysis participants with anemia of chronic kidney disease to evaluate the efficacy, safety and pharmacokinetics of three-times weekly dosing of daprodustat compared to recombinant human erythropoietin, following a switch from recombinant human erythropoietin or its analogs

Summary

| | |
|--------------------------|-------------------|
| EudraCT number | 2017-004372-56 |
| Trial protocol | ES FR GB PL IT RO |
| Global end of trial date | 19 June 2020 |

Results information

| | |
|--------------------------------|--------------|
| Result version number | v1 (current) |
| This version publication date | 04 July 2021 |
| First version publication date | 04 July 2021 |

Trial information

Trial identification

| | |
|-----------------------|--------|
| Sponsor protocol code | 204837 |
|-----------------------|--------|

Additional study identifiers

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

Notes:

Sponsors

| | |
|------------------------------|--|
| Sponsor organisation name | GlaxoSmithKline |
| Sponsor organisation address | 980 Great West Road, Brentford, Middlesex, United Kingdom, |
| Public contact | GSK Response Center, GlaxoSmithKline, 1 8664357343, GSKClinicalSupportHD@gsk.com |
| Scientific contact | GSK Response Center, GlaxoSmithKline, 1 8664357343, GSKClinicalSupportHD@gsk.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 | 17 November 2020 |
| Is this the analysis of the primary completion data? | No |

| | |
|----------------------------------|--------------|
| Global end of trial reached? | Yes |
| Global end of trial date | 19 June 2020 |
| Was the trial ended prematurely? | No |

Notes:

General information about the trial

Main objective of the trial:

To compare the effect of daprodustat to epoetin alfa on hemoglobin (Hgb) efficacy when administered three-times weekly to hemodialysis-dependent participants (noninferiority).

Protection of trial subjects:

Not applicable

Background therapy: -

Evidence for comparator: -

| | |
|---|-------------------|
| Actual start date of recruitment | 05 September 2018 |
| 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 | Korea, Republic of: 23 |
| Country: Number of subjects enrolled | Romania: 9 |
| Country: Number of subjects enrolled | Poland: 24 |
| Country: Number of subjects enrolled | Russian Federation: 98 |
| Country: Number of subjects enrolled | Australia: 8 |
| Country: Number of subjects enrolled | Canada: 2 |
| Country: Number of subjects enrolled | France: 10 |
| Country: Number of subjects enrolled | Italy: 12 |
| Country: Number of subjects enrolled | Spain: 32 |
| Country: Number of subjects enrolled | United Kingdom: 9 |
| Country: Number of subjects enrolled | Argentina: 42 |
| Country: Number of subjects enrolled | Brazil: 31 |
| Country: Number of subjects enrolled | United States: 107 |
| Worldwide total number of subjects | 407 |
| EEA total number of subjects | 87 |

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) | 263 |
| From 65 to 84 years | 133 |
| 85 years and over | 11 |

Subject disposition

Recruitment

Recruitment details:

This was a multicenter study conducted at 90 centers in 13 countries. Participants were randomized to receive either Daprodustat or Epoetin alfa.

Pre-assignment

Screening details:

A total of 595 participants were screened, of which 188 were screen failures. A total of 407 participants were enrolled in the study.

Period 1

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

Arms

| | |
|------------------------------|-------------|
| Are arms mutually exclusive? | Yes |
| Arm title | Daprodustat |

Arm description:

Participants received daprodustat tablets with titrated dose levels ranging from 2, 4, 8, 12, 16, 20, 24, 32 and 48 milligrams (mg) orally three-times weekly up to 52 weeks. Study treatment was dose-titrated to achieve and maintain hemoglobin in the target range (10 to 11 grams per deciliter [g/dL]). In order to maintain the study blind, participants also received saline intravenous (IV) injection once weekly or three-times weekly depending on dose level, up to 52 weeks as an inactive treatment for the IV formulation. All participants were followed up at 4 to 6 weeks after last dose.

| | |
|--|--------------|
| Arm type | Experimental |
| Investigational medicinal product name | Daprodustat |
| Investigational medicinal product code | |
| Other name | |
| Pharmaceutical forms | Tablet |
| Routes of administration | Oral use |

Dosage and administration details:

Daprodustat tablets were given with titrated dose levels ranging from 2, 4, 8, 12, 16, 20, 24, 32 and 48 milligrams (mg) orally three-times weekly for 52 weeks.

| | |
|--|-----------------|
| Investigational medicinal product name | Saline |
| Investigational medicinal product code | |
| Other name | |
| Pharmaceutical forms | Injection |
| Routes of administration | Intravenous use |

Dosage and administration details:

Saline was administered as an IV injection once weekly or three-times weekly, depending on dose level for 52 weeks.

| | |
|------------------|--------------|
| Arm title | Epoetin alfa |
|------------------|--------------|

Arm description:

Participants received epoetin alfa with titrated dose levels ranging from 1500 Units to 60,000 Units total weekly dose and administered as IV injection once weekly or three-times weekly depending on dose level up to 52 weeks. Study treatment was dose-titrated to achieve and maintain hemoglobin in the target range (10 to 11 g/dL). In order to maintain the study blind, participants also received placebo tablets matching to daprodustat orally three-times weekly up to 52 weeks as an inactive treatment for the tablet formulation. All participants were followed up at 4 to 6 weeks after last dose.

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

| | |
|--|-----------------|
| Investigational medicinal product name | Epoetin alfa |
| Investigational medicinal product code | |
| Other name | |
| Pharmaceutical forms | Injection |
| Routes of administration | Intravenous use |

Dosage and administration details:

Epoetin alfa doses ranging from 1500 units to 60,000 units were administered as intravenous (IV) injections once weekly or three-times weekly, depending on dose level for 52 weeks.

| | |
|--|------------------------------|
| Investigational medicinal product name | Placebo matching daprodustat |
| Investigational medicinal product code | |
| Other name | |
| Pharmaceutical forms | Tablet |
| Routes of administration | Oral use |

Dosage and administration details:

Placebo tablets matching daprodustat were given orally three-times weekly for 52 weeks.

| Number of subjects in period 1 | Daprodustat | Epoetin alfa |
|---------------------------------------|-------------|--------------|
| Started | 270 | 137 |
| Completed | 269 | 135 |
| Not completed | 1 | 2 |
| Consent withdrawn by subject | 1 | 2 |

Baseline characteristics

Reporting groups

| | |
|---|--------------|
| Reporting group title | Daprodustat |
| Reporting group description: | |
| Participants received daprodustat tablets with titrated dose levels ranging from 2, 4, 8, 12, 16, 20, 24, 32 and 48 milligrams (mg) orally three-times weekly up to 52 weeks. Study treatment was dose-titrated to achieve and maintain hemoglobin in the target range (10 to 11 grams per deciliter [g/dL]). In order to maintain the study blind, participants also received saline intravenous (IV) injection once weekly or three-times weekly depending on dose level, up to 52 weeks as an inactive treatment for the IV formulation. All participants were followed up at 4 to 6 weeks after last dose. | |
| Reporting group title | Epoetin alfa |
| Reporting group description: | |
| Participants received epoetin alfa with titrated dose levels ranging from 1500 Units to 60,000 Units total weekly dose and administered as IV injection once weekly or three-times weekly depending on dose level up to 52 weeks. Study treatment was dose-titrated to achieve and maintain hemoglobin in the target range (10 to 11 g/dL). In order to maintain the study blind, participants also received placebo tablets matching to daprodustat orally three-times weekly up to 52 weeks as an inactive treatment for the tablet formulation. All participants were followed up at 4 to 6 weeks after last dose. | |

| Reporting group values | Daprodustat | Epoetin alfa | Total |
|---|-------------|--------------|-------|
| Number of subjects | 270 | 137 | 407 |
| Age Categorical | | | |
| Units: Participants | | | |
| 19-64 Years | 167 | 96 | 263 |
| >= 65 Years | 103 | 41 | 144 |
| Sex: Female, Male | | | |
| Units: Participants | | | |
| Female | 121 | 56 | 177 |
| Male | 149 | 81 | 230 |
| Race/Ethnicity, Customized | | | |
| Units: Subjects | | | |
| BLACK OR AFRICAN AMERICAN | 49 | 32 | 81 |
| AMERICAN INDIAN OR ALASKAN NATIVE | 1 | 1 | 2 |
| ASIAN - CENTRAL/SOUTH ASIAN HERITAGE | 1 | 0 | 1 |
| ASIAN - EAST ASIAN HERITAGE | 16 | 9 | 25 |
| ASIAN - SOUTH EAST ASIAN HERITAGE | 3 | 0 | 3 |
| NATIVE HAWAIIAN OR OTHER PACIFIC ISLANDER | 1 | 0 | 1 |
| WHITE - ARABIC/NORTH AFRICAN HERITAGE | 1 | 4 | 5 |
| WHITE - WHITE/CAUCASIAN/EUROPEAN HERITAGE | 193 | 90 | 283 |
| MIXED WHITE RACE | 1 | 0 | 1 |
| MIXED RACE | 1 | 1 | 2 |
| UNKNOWN | 3 | 0 | 3 |

End points

End points reporting groups

| | |
|---|--------------------|
| Reporting group title | Daprodustat |
| Reporting group description: Participants received daprodustat tablets with titrated dose levels ranging from 2, 4, 8, 12, 16, 20, 24, 32 and 48 milligrams (mg) orally three-times weekly up to 52 weeks. Study treatment was dose-titrated to achieve and maintain hemoglobin in the target range (10 to 11 grams per deciliter [g/dL]). In order to maintain the study blind, participants also received saline intravenous (IV) injection once weekly or three-times weekly depending on dose level, up to 52 weeks as an inactive treatment for the IV formulation. All participants were followed up at 4 to 6 weeks after last dose. | |
| Reporting group title | Epoetin alfa |
| Reporting group description: Participants received epoetin alfa with titrated dose levels ranging from 1500 Units to 60,000 Units total weekly dose and administered as IV injection once weekly or three-times weekly depending on dose level up to 52 weeks. Study treatment was dose-titrated to achieve and maintain hemoglobin in the target range (10 to 11 g/dL). In order to maintain the study blind, participants also received placebo tablets matching to daprodustat orally three-times weekly up to 52 weeks as an inactive treatment for the tablet formulation. All participants were followed up at 4 to 6 weeks after last dose. | |
| Subject analysis set title | Daprodustat 2 mg |
| Subject analysis set type | Sub-group analysis |
| Subject analysis set description: Participants received daprodustat tablets 2 mg orally three-times weekly at the time of the pharmacokinetic visit. | |
| Subject analysis set title | Daprodustat 4 mg |
| Subject analysis set type | Sub-group analysis |
| Subject analysis set description: Participants received daprodustat tablets 4 mg orally three-times weekly at the time of the pharmacokinetic visit. | |
| Subject analysis set title | Daprodustat 8 mg |
| Subject analysis set type | Sub-group analysis |
| Subject analysis set description: Participants received daprodustat tablets 8 mg orally three-times weekly at the time of the pharmacokinetic visit. | |
| Subject analysis set title | Daprodustat 12 mg |
| Subject analysis set type | Sub-group analysis |
| Subject analysis set description: Participants received daprodustat tablets 12 mg orally three-times weekly at the time of the pharmacokinetic visit. | |
| Subject analysis set title | Daprodustat 16 mg |
| Subject analysis set type | Sub-group analysis |
| Subject analysis set description: Participants received daprodustat tablets 16 mg orally three-times weekly at the time of the pharmacokinetic visit. | |
| Subject analysis set title | Daprodustat 20 mg |
| Subject analysis set type | Sub-group analysis |
| Subject analysis set description: Participants received daprodustat tablets 20 mg orally three-times weekly at the time of the pharmacokinetic visit. | |
| Subject analysis set title | Daprodustat 24 mg |
| Subject analysis set type | Sub-group analysis |
| Subject analysis set description: Participants received daprodustat tablets 24 mg orally three-times weekly at the time of the pharmacokinetic visit. | |
| Subject analysis set title | Daprodustat 32 mg |
| Subject analysis set type | Sub-group analysis |

Subject analysis set description:

Participants received daprodustat tablets 32 mg orally three-times weekly at the time of the pharmacokinetic visit.

| | |
|----------------------------|--------------------|
| Subject analysis set title | Daprodustat 48 mg |
| Subject analysis set type | Sub-group analysis |

Subject analysis set description:

Participants received daprodustat tablets 48 mg orally three-times weekly at the time of the pharmacokinetic visit.

Primary: Mean change from Baseline in hemoglobin levels over the evaluation period (Week 28 to Week 52)

| | |
|-----------------|--|
| End point title | Mean change from Baseline in hemoglobin levels over the evaluation period (Week 28 to Week 52) |
|-----------------|--|

End point description:

Blood samples were collected from participants for hemoglobin measurements. Hemoglobin during the evaluation period was defined as the mean of all available post-randomization hemoglobin values (on and off-treatment) during the evaluation period (Week 28 to Week 52). For the primary analysis, the missing post-Baseline hemoglobin values were imputed using pre-specified multiple imputations. Baseline value was the latest non-missing pre-dose assessment on or before the randomization date, including those from unscheduled visits. Change from Baseline was defined as the average of post-randomization values during the evaluation period minus Baseline value. Analysis was performed using the Analysis of Covariance (ANCOVA) model with terms for treatment, Baseline hemoglobin, and region. All Randomized (Intent-to-treat [ITT]) Population comprised of all randomized participants. Any participant who received a treatment randomization number was considered to have been randomized.

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

End point timeframe:

Baseline (Pre-dose on Day 1) and evaluation period (Week 28 to Week 52)

| | | | | |
|-------------------------------------|--------------------|--------------------|--|--|
| End point values | Daprodustat | Epoetin alfa | | |
| Subject group type | Reporting group | Reporting group | | |
| Number of subjects analysed | 270 ^[1] | 137 ^[2] | | |
| Units: Grams per deciliter (g/dL) | | | | |
| least squares mean (standard error) | -0.04 (± 0.045) | 0.02 (± 0.066) | | |

Notes:

[1] - All Randomized (ITT) Population

[2] - All Randomized (ITT) Population

Statistical analyses

| | |
|---|-----------------------------------|
| Statistical analysis title | Statistical Analysis 1 |
| Comparison groups | Epoetin alfa v Daprodustat |
| Number of subjects included in analysis | 407 |
| Analysis specification | Pre-specified |
| Analysis type | non-inferiority ^[3] |
| Parameter estimate | Least square (LS) mean difference |
| Point estimate | -0.05 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | -0.21 |
| upper limit | 0.1 |

Notes:

[3] - Non-inferiority was to be established if the lower limit of the two-sided 95 percent (%) confidence interval (CI) for the treatment difference is greater than the pre-specified non-inferiority margin of -0.75 g/dL.

Secondary: Mean average monthly on-treatment intravenous (IV) iron dose per participant

| | |
|-----------------|--|
| End point title | Mean average monthly on-treatment intravenous (IV) iron dose per participant |
|-----------------|--|

End point description:

Average monthly IV iron dose (mg) per participant during Day 1 to Week 52 was determined by calculating the total IV iron dose per participant from Day 1 to Week 52 while the participant was on study treatment and dividing by (the number of days the participant was on study treatment divided by 30.4375 days). Analysis was performed using the ANCOVA model with terms for treatment, Baseline monthly IV iron dose, and region. Only those participants with data available at specified time points were analyzed.

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

End point timeframe:

Day 1 to Week 52

| End point values | Daprodustat | Epoetin alfa | | |
|-------------------------------------|--------------------|--------------------|--|--|
| Subject group type | Reporting group | Reporting group | | |
| Number of subjects analysed | 270 ^[4] | 136 ^[5] | | |
| Units: Milligrams | | | | |
| least squares mean (standard error) | 98.11 (± 11.049) | 106.23 (± 15.569) | | |

Notes:

[4] - All Randomized (ITT) Population

[5] - All Randomized (ITT) Population

Statistical analyses

| Statistical analysis title | Statistical Analysis 1 |
|---|----------------------------|
| Comparison groups | Daprodustat v Epoetin alfa |
| Number of subjects included in analysis | 406 |
| Analysis specification | Pre-specified |
| Analysis type | superiority |
| P-value | = 0.3354 |
| Method | ANCOVA |
| Parameter estimate | LS mean difference |
| Point estimate | -8.12 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | -45.66 |
| upper limit | 29.41 |

Secondary: Change from Baseline in hemoglobin levels at Week 52

| | |
|-----------------|--|
| End point title | Change from Baseline in hemoglobin levels at Week 52 |
|-----------------|--|

End point description:

Blood samples were collected from participants for hemoglobin measurements. Baseline value was the latest non-missing pre-dose assessment on or before the randomization date, including those from unscheduled visits. Change from Baseline was defined as the post-randomization visit value minus Baseline value. Analysis was performed using a mixed model repeated measures (MMRM) model fitted to hemoglobin data collected after Baseline up to Week 52, excluding values collected during the stabilization period (Day 1 to Week 28). The model included factors for treatment, time, region, Baseline hemoglobin and Baseline hemoglobin by time and treatment by time interaction terms. Only those participants with data available at specified time points were analyzed.

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

End point timeframe:

Baseline (Pre-dose on Day 1) and Week 52

| End point values | Daprodustat | Epoetin alfa | | |
|-------------------------------------|--------------------|--------------------|--|--|
| Subject group type | Reporting group | Reporting group | | |
| Number of subjects analysed | 252 ^[6] | 128 ^[7] | | |
| Units: Grams per deciliter | | | | |
| least squares mean (standard error) | -0.03 (± 0.069) | 0.11 (± 0.098) | | |

Notes:

[6] - All Randomized (ITT) Population

[7] - All Randomized (ITT) Population

Statistical analyses

| Statistical analysis title | Statistical Analysis 1 |
|---|--------------------------------|
| Comparison groups | Daprodustat v Epoetin alfa |
| Number of subjects included in analysis | 380 |
| Analysis specification | Pre-specified |
| Analysis type | non-inferiority ^[8] |
| Parameter estimate | LS mean difference |
| Point estimate | -0.14 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | -0.37 |
| upper limit | 0.1 |

Notes:

[8] - Non-inferiority was to be established if the lower limit of the two-sided 95 % CI for the treatment difference is greater than the pre-specified non-inferiority margin of -0.75 g/dL.

Secondary: Percentage of time with hemoglobin in the analysis range (10 to 11.5 grams/deciliter) over evaluation period (Week 28 to Week 52)

| | |
|-----------------|---|
| End point title | Percentage of time with hemoglobin in the analysis range (10 to 11.5 grams/deciliter) over evaluation period (Week 28 to Week 52) |
|-----------------|---|

End point description:

Participants received treatment during the study to achieve or maintain hemoglobin level in the target range. Percentage of time for which hemoglobin level was maintained within the analysis range (10 to 11.5 grams/deciliter) has been presented. Only those participants with at least one evaluable hemoglobin value during the evaluation period were analyzed.

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

End point timeframe:

Week 28 to Week 52

| | | | | |
|---------------------------------------|------------------------|------------------------|--|--|
| End point values | Daprodustat | Epoetin alfa | | |
| Subject group type | Reporting group | Reporting group | | |
| Number of subjects analysed | 215 ^[9] | 107 ^[10] | | |
| Units: Percentage of days | | | | |
| median (inter-quartile range (Q1-Q3)) | 70.83 (50.98 to 91.07) | 61.76 (29.69 to 85.19) | | |

Notes:

[9] - All Randomized (ITT) Population

[10] - All Randomized (ITT) Population

Statistical analyses

| | |
|---|----------------------------------|
| Statistical analysis title | Statistical Analysis 1 |
| Statistical analysis description: Hodges-Lehmann Estimate of Treatment Difference has been reported. | |
| Comparison groups | Daprodustat v Epoetin alfa |
| Number of subjects included in analysis | 322 |
| Analysis specification | Pre-specified |
| Analysis type | non-inferiority ^[11] |
| P-value | = 0.0034 |
| Method | Van Elteren's test |
| Parameter estimate | Median difference (final values) |
| Point estimate | 11.18 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | 2.83 |
| upper limit | 19.56 |

Notes:

[11] - Non-inferiority was to be established if the lower limit of the two-sided 95% CI for the treatment difference was above the non-inferiority margin of - 15%.

Secondary: Number of hemoglobin responders in the hemoglobin analysis range (10 to 11.5 grams/deciliter) over evaluation period (Week 28 to Week 52)

| | |
|-----------------|---|
| End point title | Number of hemoglobin responders in the hemoglobin analysis range (10 to 11.5 grams/deciliter) over evaluation period (Week 28 to Week 52) |
|-----------------|---|

End point description:

Mean hemoglobin during the evaluation period was defined as the mean of all evaluable hemoglobin values during the evaluation period (Week 28 to Week 52) including any evaluable unscheduled hemoglobin values that were taken during this time period. Hemoglobin responders were defined as the number of participants with a mean hemoglobin during the evaluation period that falls within the hemoglobin analysis range of 10-11.5 grams/deciliter. Only those participants with at least one evaluable hemoglobin value during the evaluation period were analyzed.

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

End point timeframe:

Week 28 to Week 52

| | | | | |
|-----------------------------|---------------------|---------------------|--|--|
| End point values | Daprodustat | Epoetin alfa | | |
| Subject group type | Reporting group | Reporting group | | |
| Number of subjects analysed | 215 ^[12] | 107 ^[13] | | |
| Units: Participants | 172 | 68 | | |

Notes:

[12] - All Randomized (ITT) Population

[13] - All Randomized (ITT) Population

Statistical analyses

| | |
|---|-----------------------------|
| Statistical analysis title | Statistical Analysis 1 |
| Comparison groups | Daprodustat v Epoetin alfa |
| Number of subjects included in analysis | 322 |
| Analysis specification | Pre-specified |
| Analysis type | other |
| P-value | = 0.0007 |
| Method | Cochran-Mantel-Haenszel |
| Parameter estimate | Difference in response rate |
| Point estimate | 0.1645 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | 0.06 |
| upper limit | 0.27 |

Secondary: Percentage of participants permanently stopping study treatment due to meeting rescue criteria

| | |
|------------------------|--|
| End point title | Percentage of participants permanently stopping study treatment due to meeting rescue criteria |
| End point description: | Percentage of participants permanently stopping study treatment due to meeting rescue criteria has been presented. |
| End point type | Secondary |
| End point timeframe: | Up to Week 52 |

| | | | | |
|-----------------------------------|---------------------|---------------------|--|--|
| End point values | Daprodustat | Epoetin alfa | | |
| Subject group type | Reporting group | Reporting group | | |
| Number of subjects analysed | 270 ^[14] | 137 ^[15] | | |
| Units: Percentage of participants | | | | |
| number (not applicable) | 2.2 | 2.2 | | |

Notes:

[14] - All Randomized (ITT) Population

[15] - All Randomized (ITT) Population

Statistical analyses

| Statistical analysis title | Statistical Analysis |
|---|----------------------------|
| Statistical analysis description: | |
| Hazard ratio is estimated using a Cox proportional hazard regression model adjusted for treatment group and region. | |
| Comparison groups | Daprodustat v Epoetin alfa |
| Number of subjects included in analysis | 407 |
| Analysis specification | Pre-specified |
| Analysis type | other |
| P-value | = 0.5308 |
| Method | Wald test |
| Parameter estimate | Hazard ratio (HR) |
| Point estimate | 1.06 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | 0.26 |
| upper limit | 4.22 |

Secondary: Change from Baseline in systolic blood pressure (SBP), diastolic blood pressure (DBP) and mean arterial pressure (MAP) at Week 52

| | |
|--|---|
| End point title | Change from Baseline in systolic blood pressure (SBP), diastolic blood pressure (DBP) and mean arterial pressure (MAP) at Week 52 |
| End point description: | |
| Measurements for SBP, DBP and MAP were taken with the participant in a semi-supine or seated position in the dialysis chair after at least a 5-minute rest period. MAP is the average BP in an individual's arteries during a single cardiac cycle. Baseline value was the latest non-missing pre-dose assessment on or before the randomization date, including those from unscheduled visits. Change from Baseline was defined as the on-treatment visit value minus Baseline value. Analysis was performed using MMRM model with treatment group, time, region, Baseline value, Baseline value*time, treatment group*time as variables. Only those participants with data available at specified time points were analyzed. | |
| End point type | Secondary |
| End point timeframe: | |
| Baseline (Week -4) and Week 52 | |

| End point values | Daprodustat | Epoetin alfa | | |
|-------------------------------------|---------------------|---------------------|--|--|
| Subject group type | Reporting group | Reporting group | | |
| Number of subjects analysed | 266 ^[16] | 133 ^[17] | | |
| Units: Millimeter of mercury (mmHg) | | | | |
| least squares mean (standard error) | | | | |
| SBP | -3.18 (± 1.470) | 0.55 (± 2.252) | | |
| DBP | -2.52 (± 0.764) | -0.29 (± 1.176) | | |
| MAP | -2.72 (± 0.907) | -0.12 (± 1.389) | | |

Notes:

[16] - All Randomized (ITT) Population

[17] - All Randomized (ITT) Population

Statistical analyses

| Statistical analysis title | Statistical Analysis 1 |
|--|----------------------------|
| Statistical analysis description: SBP | |
| Comparison groups | Daprodustat v Epoetin alfa |
| Number of subjects included in analysis | 399 |
| Analysis specification | Pre-specified |
| Analysis type | superiority |
| P-value | = 0.083 |
| Method | MMRM |
| Parameter estimate | LS mean difference |
| Point estimate | -3.73 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | -9.03 |
| upper limit | 1.56 |

| Statistical analysis title | Statistical Analysis 2 |
|--|----------------------------|
| Statistical analysis description: DBP | |
| Comparison groups | Daprodustat v Epoetin alfa |
| Number of subjects included in analysis | 399 |
| Analysis specification | Pre-specified |
| Analysis type | superiority |
| P-value | = 0.057 |
| Method | MMRM |
| Parameter estimate | LS mean difference |
| Point estimate | -2.23 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | -4.99 |
| upper limit | 0.54 |

| | |
|--|----------------------------|
| Statistical analysis title | Statistical Analysis 3 |
| Statistical analysis description: MAP | |
| Comparison groups | Daprodustat v Epoetin alfa |
| Number of subjects included in analysis | 399 |
| Analysis specification | Pre-specified |
| Analysis type | superiority |
| P-value | = 0.059 |
| Method | MMRM |
| Parameter estimate | LS mean difference |
| Point estimate | -2.6 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | -5.86 |
| upper limit | 0.67 |

Secondary: Change from Baseline in SBP, DBP and MAP at end of treatment

| | |
|-----------------|--|
| End point title | Change from Baseline in SBP, DBP and MAP at end of treatment |
|-----------------|--|

End point description:

Measurements for SBP, DBP and MAP were taken with the participant in a semi-supine or seated position in the dialysis chair after at least a 5-minute rest period. MAP is the average BP in an individual's arteries during a single cardiac cycle. Baseline value was the latest non-missing pre-dose assessment on or before the randomization date, including those from unscheduled visits. Change from Baseline was defined as the last on-treatment visit value minus Baseline value. Analysis was performed using ANCOVA model with terms for treatment group, region and Baseline value. Adjusted mean and standard error have been presented. Only those participants with data available at specified time points were analyzed.

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

End point timeframe:

Baseline (Week -4) and end of treatment (last on-treatment value until Week 52)

| End point values | Daprodustat | Epoetin alfa | | |
|-------------------------------------|---------------------|---------------------|--|--|
| Subject group type | Reporting group | Reporting group | | |
| Number of subjects analysed | 270 ^[18] | 136 ^[19] | | |
| Units: Millimeter of mercury (mmHg) | | | | |
| arithmetic mean (standard error) | | | | |
| SBP | -1.4 (± 1.24) | -0.9 (± 1.75) | | |
| DBP | -1.8 (± 0.66) | -0.8 (± 0.93) | | |
| MAP | -1.7 (± 0.78) | -0.8 (± 1.09) | | |

Notes:

[18] - All Randomized (ITT) Population

Statistical analyses

| Statistical analysis title | |
|---|----------------------------|
| Statistical Analysis 1 | |
| Statistical analysis description: | |
| SBP | |
| Comparison groups | Daprodustat v Epoetin alfa |
| Number of subjects included in analysis | 406 |
| Analysis specification | Pre-specified |
| Analysis type | superiority |
| P-value | = 0.407 |
| Method | ANCOVA |
| Parameter estimate | Mean difference (net) |
| Point estimate | -0.5 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | -4.73 |
| upper limit | 3.72 |

| Statistical analysis title | |
|---|----------------------------|
| Statistical Analysis 2 | |
| Statistical analysis description: | |
| DBP | |
| Comparison groups | Daprodustat v Epoetin alfa |
| Number of subjects included in analysis | 406 |
| Analysis specification | Pre-specified |
| Analysis type | superiority |
| P-value | = 0.179 |
| Method | ANCOVA |
| Parameter estimate | Mean difference (net) |
| Point estimate | -1.05 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | -3.29 |
| upper limit | 1.19 |

| Statistical analysis title | |
|-----------------------------------|----------------------------|
| Statistical Analysis 3 | |
| Statistical analysis description: | |
| MAP | |
| Comparison groups | Daprodustat v Epoetin alfa |

| | |
|---|-----------------------|
| Number of subjects included in analysis | 406 |
| Analysis specification | Pre-specified |
| Analysis type | superiority |
| P-value | = 0.261 |
| Method | ANCOVA |
| Parameter estimate | Mean difference (net) |
| Point estimate | -0.86 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | -3.5 |
| upper limit | 1.78 |

Secondary: Blood pressure (BP) exacerbation event rate per 100 participant years

| | |
|------------------------|--|
| End point title | Blood pressure (BP) exacerbation event rate per 100 participant years |
| End point description: | BP exacerbation event is defined (based on post-dialysis BP) as SBP \geq 25 mmHg increased from Baseline or SBP \geq 180 mmHg; or DBP \geq 15 mmHg increased from Baseline or DBP \geq 110 mmHg. The BP exacerbation events per 100 participant years was estimated using the Negative Binomial Model. Only those participants with data available at specified time points were analyzed. |
| End point type | Secondary |
| End point timeframe: | Up to 52 weeks |

| End point values | Daprodustat | Epoetin alfa | | |
|---|---------------------------|---------------------------|--|--|
| Subject group type | Reporting group | Reporting group | | |
| Number of subjects analysed | 270 ^[20] | 136 ^[21] | | |
| Units: Events per 100 participant years | | | | |
| number (confidence interval 95%) | 250.45 (210.69 to 297.72) | 356.91 (280.95 to 453.41) | | |

Notes:

[20] - All Randomized (ITT) Population

[21] - All Randomized (ITT) Population

Statistical analyses

| | |
|---|----------------------------|
| Statistical analysis title | Statistical Analysis 1 |
| Comparison groups | Daprodustat v Epoetin alfa |
| Number of subjects included in analysis | 406 |
| Analysis specification | Pre-specified |
| Analysis type | other |
| P-value | = 0.0093 |
| Method | Negative binomial model |
| Parameter estimate | Ratio of exacerbation rate |
| Point estimate | 0.7 |

| | |
|---------------------|---------|
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | 0.52 |
| upper limit | 0.94 |

Secondary: Number of participants with at least one BP exacerbation event during the study

| | |
|---|---|
| End point title | Number of participants with at least one BP exacerbation event during the study |
| End point description: | |
| BP exacerbation (based on post-dialysis BP) is defined as: SBP \geq 25 mmHg increased from Baseline or SBP \geq 180 mmHg; or DBP \geq 15 mmHg increase from Baseline or DBP \geq 110 mmHg. Number of participants with at least 1 BP exacerbation event have been reported. Only those participants with data available at specified time points were analyzed. | |
| End point type | Secondary |
| End point timeframe: | |
| Up to 52 weeks | |

| | | | | |
|-----------------------------|---------------------|---------------------|--|--|
| End point values | Daprodustat | Epoetin alfa | | |
| Subject group type | Reporting group | Reporting group | | |
| Number of subjects analysed | 270 ^[22] | 136 ^[23] | | |
| Units: Participants | 151 | 91 | | |

Notes:

[22] - All Randomized (ITT) Population

[23] - All Randomized (ITT) Population

Statistical analyses

No statistical analyses for this end point

Secondary: Change from Baseline at Weeks 8, 12, 28 and 52 in Patient Global Impression of Severity (PGI-S)

| | |
|--|---|
| End point title | Change from Baseline at Weeks 8, 12, 28 and 52 in Patient Global Impression of Severity (PGI-S) |
| End point description: | |
| The PGI-S is a 1-item questionnaire designed to assess participant's impression of disease severity of their anemia of Chronic kidney disease (CKD). It is measured on a 5-point disease severity scale ranging from 0 (absent) to 4 (very severe), higher score indicates more disease severity. Baseline value was the latest non-missing pre-dose assessment on or before the randomization date, including those from unscheduled visits. Change from Baseline in on-treatment PGI-S scores was defined as the on-treatment visit value minus Baseline value. Analysis was performed using MMRM model fitted from Baseline up to Week 52 with factors for treatment, time, region, Baseline value and Baseline value by time and treatment by time interactions. Only those participants with data available at specified time points were analyzed (represented as n=X in the category titles). | |
| End point type | Secondary |
| End point timeframe: | |
| Baseline (Pre-dose on Day 1) and Weeks 8, 12, 28, 52 | |

| End point values | Daprodustat | Epoetin alfa | | |
|-------------------------------------|---------------------|---------------------|--|--|
| Subject group type | Reporting group | Reporting group | | |
| Number of subjects analysed | 270 ^[24] | 137 ^[25] | | |
| Units: Scores on a scale | | | | |
| least squares mean (standard error) | | | | |
| Week 8; n=248, 126 | -0.10 (± 0.048) | 0.05 (± 0.068) | | |
| Week 12; n=243, 120 | -0.13 (± 0.050) | -0.01 (± 0.071) | | |
| Week 28; n=211, 106 | -0.07 (± 0.054) | 0.03 (± 0.077) | | |
| Week 52; n=170, 85 | -0.11 (± 0.063) | 0.04 (± 0.088) | | |

Notes:

[24] - All Randomized (ITT) Population

[25] - All Randomized (ITT) Population

Statistical analyses

| Statistical analysis title | Statistical Analysis 1 |
|---|----------------------------|
| Statistical analysis description: Week 8 | |
| Comparison groups | Daprodustat v Epoetin alfa |
| Number of subjects included in analysis | 407 |
| Analysis specification | Pre-specified |
| Analysis type | superiority |
| P-value | = 0.0323 |
| Method | MMRM |
| Parameter estimate | LS mean difference |
| Point estimate | -0.15 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | -0.32 |
| upper limit | 0.01 |

| Statistical analysis title | Statistical Analysis 2 |
|--|----------------------------|
| Statistical analysis description: Week 12 | |
| Comparison groups | Daprodustat v Epoetin alfa |
| Number of subjects included in analysis | 407 |
| Analysis specification | Pre-specified |
| Analysis type | superiority |
| P-value | = 0.0921 |
| Method | MMRM |
| Parameter estimate | LS mean difference |
| Point estimate | -0.12 |

| | |
|---------------------|---------|
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | -0.29 |
| upper limit | 0.06 |

| | |
|---|----------------------------|
| Statistical analysis title | Statistical Analysis 3 |
| Statistical analysis description: | |
| Week 28 | |
| Comparison groups | Daprodustat v Epoetin alfa |
| Number of subjects included in analysis | 407 |
| Analysis specification | Pre-specified |
| Analysis type | superiority |
| P-value | = 0.1291 |
| Method | MMRM |
| Parameter estimate | LS mean difference |
| Point estimate | -0.11 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | -0.29 |
| upper limit | 0.08 |

| | |
|---|----------------------------|
| Statistical analysis title | Statistical Analysis 4 |
| Statistical analysis description: | |
| Week 52 | |
| Comparison groups | Daprodustat v Epoetin alfa |
| Number of subjects included in analysis | 407 |
| Analysis specification | Pre-specified |
| Analysis type | superiority |
| P-value | = 0.0859 |
| Method | MMRM |
| Parameter estimate | LS mean difference |
| Point estimate | -0.15 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | -0.36 |
| upper limit | 0.06 |

| | |
|---|---|
| Secondary: Pre-dose trough concentration (Ctau) of daprodustat (GSK1278863) and its metabolites GSK2391220 (M2), GSK2487818 (M4), GSK2506102 (M5), GSK2506104 (M3), GSK2531398 (M6) and GSK2531401 (M13) | |
| End point title | Pre-dose trough concentration (Ctau) of daprodustat |

(GSK1278863) and its metabolites GSK2391220 (M2), GSK2487818 (M4), GSK2506102 (M5), GSK2506104 (M3), GSK2531398 (M6) and GSK2531401 (M13)

End point description:

Blood samples were collected at indicated time points for pharmacokinetic analysis of daprodustat (GSK1278863) and its metabolites: GSK2391220 (M2), GSK2487818 (M4), GSK2506102 (M5), GSK2506104 (M3), GSK2531398 (M6) and GSK2531401 (M13). Pharmacokinetic Population comprised of all randomized participants for whom a post-Baseline pharmacokinetic sample was obtained and analyzed. Only those participants with data available at specified time points were analyzed (represented as n=X in the category titles). 99999 indicates that data was not available as geometric coefficient of variation could not be calculated for single participant.

End point type Secondary

End point timeframe:

Pre-dose on Day 1; Pre-dose and at 0.5, 1, 2, 3 hours post-dose on any one post-Baseline visit day between Week 8 and Week 52

| End point values | Daprodustat 2 mg | Daprodustat 4 mg | Daprodustat 8 mg | Daprodustat 12 mg |
|---|----------------------|----------------------|----------------------|----------------------|
| Subject group type | Subject analysis set | Subject analysis set | Subject analysis set | Subject analysis set |
| Number of subjects analysed | 8 ^[26] | 20 ^[27] | 51 ^[28] | 59 ^[29] |
| Units: Nanograms per milliliter | | | | |
| geometric mean (geometric coefficient of variation) | | | | |
| Daprodustat; n=1, 2, 10, 18, 14, 9, 6, 3, 2 | 6.2400 (± 99999) | 1.1207 (± 494.71) | 0.1786 (± 77.35) | 0.3727 (± 277.88) |
| GSK2391220; n=4, 17, 42, 57, 40, 25, 16, 3, 3 | 0.8623 (± 241.17) | 0.5893 (± 255.59) | 0.6341 (± 123.92) | 1.1572 (± 184.51) |
| GSK2487818; n=1, 4, 5, 20, 14, 7, 4, 3, 2 | 0.3620 (± 99999) | 0.2867 (± 111.67) | 0.1594 (± 16.91) | 0.2996 (± 105.55) |
| GSK2506102; n=4, 17, 45, 59, 43, 27, 16, 3, 3 | 0.9951 (± 122.94) | 0.8372 (± 121.27) | 0.9634 (± 95.99) | 1.5100 (± 105.50) |
| GSK2506104; n=6, 17, 45, 59, 43, 27, 16, 3, 3 | 0.9750 (± 408.49) | 1.9588 (± 163.27) | 2.0381 (± 124.74) | 3.5141 (± 136.72) |
| GSK2531398; n=2, 7, 22, 41, 33, 20, 15, 3, 3 | 1.1778 (± 20.55) | 0.6069 (± 271.48) | 0.2362 (± 76.76) | 0.4444 (± 144.99) |
| GSK2531401; n=6, 17, 45, 59, 44, 27, 16, 3, 3 | 1.4466 (± 190.80) | 3.5579 (± 102.68) | 4.0910 (± 148.03) | 6.8137 (± 102.34) |

Notes:

[26] - Pharmacokinetic Population

[27] - Pharmacokinetic Population

[28] - Pharmacokinetic Population

[29] - Pharmacokinetic Population

| End point values | Daprodustat 16 mg | Daprodustat 20 mg | Daprodustat 24 mg | Daprodustat 32 mg |
|---|----------------------|----------------------|----------------------|----------------------|
| Subject group type | Subject analysis set | Subject analysis set | Subject analysis set | Subject analysis set |
| Number of subjects analysed | 45 ^[30] | 28 ^[31] | 16 ^[32] | 3 ^[33] |
| Units: Nanograms per milliliter | | | | |
| geometric mean (geometric coefficient of variation) | | | | |
| Daprodustat; n=1, 2, 10, 18, 14, 9, 6, 3, 2 | 0.3443 (± 100.78) | 0.3871 (± 161.05) | 0.1621 (± 42.17) | 0.2768 (± 140.82) |
| GSK2391220; n=4, 17, 42, 57, 40, 25, 16, 3, 3 | 1.1654 (± 191.57) | 1.1792 (± 168.59) | 1.4987 (± 136.35) | 1.6974 (± 6.82) |
| GSK2487818; n=1, 4, 5, 20, 14, 7, 4, 3, 2 | 0.3027 (± 69.12) | 0.2868 (± 109.23) | 0.2585 (± 30.72) | 0.2414 (± 29.66) |

| | | | | |
|---|-------------------|-------------------|-------------------|-------------------|
| GSK2506102; n=4, 17, 45, 59, 43, 27, 16, 3, 3 | 1.5480 (± 122.95) | 1.6555 (± 133.94) | 3.2099 (± 67.36) | 1.6892 (± 30.44) |
| GSK2506104; n=6, 17, 45, 59, 43, 27, 16, 3, 3 | 3.3872 (± 182.27) | 3.6000 (± 173.62) | 6.5730 (± 99.82) | 4.2068 (± 15.44) |
| GSK2531398; n=2, 7, 22, 41, 33, 20, 15, 3, 3 | 0.3917 (± 169.77) | 0.3728 (± 197.51) | 0.3992 (± 153.15) | 0.3963 (± 16.52) |
| GSK2531401; n=6, 17, 45, 59, 44, 27, 16, 3, 3 | 5.6037 (± 130.97) | 8.4611 (± 128.74) | 11.7372 (± 65.37) | 6.0453 (± 140.63) |

Notes:

[30] - Pharmacokinetic Population

[31] - Pharmacokinetic Population

[32] - Pharmacokinetic Population

[33] - Pharmacokinetic Population

| End point values | Daprodustat 48 mg | | | |
|---|----------------------|--|--|--|
| Subject group type | Subject analysis set | | | |
| Number of subjects analysed | 3 ^[34] | | | |
| Units: Nanograms per milliliter | | | | |
| geometric mean (geometric coefficient of variation) | | | | |
| Daprodustat; n=1, 2, 10, 18, 14, 9, 6, 3, 2 | 0.3486 (± 68.34) | | | |
| GSK2391220; n=4, 17, 42, 57, 40, 25, 16, 3, 3 | 1.3531 (± 19.28) | | | |
| GSK2487818; n=1, 4, 5, 20, 14, 7, 4, 3, 2 | 0.2111 (± 80.56) | | | |
| GSK2506102; n=4, 17, 45, 59, 43, 27, 16, 3, 3 | 1.8595 (± 48.36) | | | |
| GSK2506104; n=6, 17, 45, 59, 43, 27, 16, 3, 3 | 4.1894 (± 23.78) | | | |
| GSK2531398; n=2, 7, 22, 41, 33, 20, 15, 3, 3 | 0.2280 (± 56.68) | | | |
| GSK2531401; n=6, 17, 45, 59, 44, 27, 16, 3, 3 | 16.2584 (± 41.06) | | | |

Notes:

[34] - Pharmacokinetic Population

Statistical analyses

No statistical analyses for this end point

Secondary: Maximum observed concentration (C_{max}) of daprodustat (GSK1278863) and its metabolites GSK2391220 (M2), GSK2487818 (M4), GSK2506102 (M5), GSK2506104 (M3), GSK2531398 (M6) and GSK2531401 (M13)

| | |
|-----------------|---|
| End point title | Maximum observed concentration (C _{max}) of daprodustat (GSK1278863) and its metabolites GSK2391220 (M2), GSK2487818 (M4), GSK2506102 (M5), GSK2506104 (M3), GSK2531398 (M6) and GSK2531401 (M13) |
|-----------------|---|

End point description:

Blood samples were collected at indicated time points for pharmacokinetic analysis of daprodustat (GSK1278863) and its metabolites: GSK2391220 (M2), GSK2487818 (M4), GSK2506102 (M5), GSK2506104 (M3), GSK2531398 (M6) and GSK2531401 (M13). Only those participants with data available at specified time points were analyzed (represented as n=X in the category titles).

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

End point timeframe:

Pre-dose on Day 1; Pre-dose and at 0.5, 1, 2, 3 hours post-dose on any one post-Baseline visit day between Week 8 and Week 52

| End point values | Daprodustat 2 mg | Daprodustat 4 mg | Daprodustat 8 mg | Daprodustat 12 mg |
|---|----------------------|----------------------|----------------------|----------------------|
| Subject group type | Subject analysis set | Subject analysis set | Subject analysis set | Subject analysis set |
| Number of subjects analysed | 8 ^[35] | 20 ^[36] | 51 ^[37] | 59 ^[38] |
| Units: Nanograms per milliliter | | | | |
| geometric mean (geometric coefficient of variation) | | | | |
| Daprodustat; n=8, 20, 49, 57, 45, 28, 16, 3, 3 | 44.5832 (± 227.65) | 51.9261 (± 227.59) | 113.4049 (± 179.69) | 143.8790 (± 233.09) |
| GSK2391220; n=8, 19, 50, 59, 45, 28, 16, 3, 3 | 2.6298 (± 60.93) | 4.0224 (± 134.91) | 6.3826 (± 198.78) | 8.9535 (± 126.76) |
| GSK2487818; n=7, 18, 47, 56, 45, 28, 16, 3, 3 | 2.0320 (± 73.45) | 3.2703 (± 143.75) | 6.3474 (± 175.79) | 8.0134 (± 146.43) |
| GSK2506102; n=8, 19, 51, 59, 45, 28, 16, 3, 3 | 0.8328 (± 101.92) | 1.4018 (± 84.93) | 2.0385 (± 85.59) | 2.8357 (± 68.15) |
| GSK2506104; n=8, 19, 51, 59, 45, 28, 16, 3, 3 | 3.2020 (± 81.23) | 5.2039 (± 98.70) | 7.5220 (± 131.81) | 10.8186 (± 84.31) |
| GSK2531398; n=8, 17, 46, 59, 45, 27, 16, 3, 3 | 1.2731 (± 57.92) | 2.3676 (± 84.23) | 3.7348 (± 131.10) | 3.8017 (± 177.36) |
| GSK2531401; n=7, 19, 51, 59, 45, 28, 16, 3, 3 | 2.0473 (± 100.05) | 4.0012 (± 88.64) | 5.4631 (± 120.63) | 8.8488 (± 80.17) |

Notes:

[35] - Pharmacokinetic Population

[36] - Pharmacokinetic Population

[37] - Pharmacokinetic Population

[38] - Pharmacokinetic Population

| End point values | Daprodustat 16 mg | Daprodustat 20 mg | Daprodustat 24 mg | Daprodustat 32 mg |
|---|----------------------|----------------------|----------------------|----------------------|
| Subject group type | Subject analysis set | Subject analysis set | Subject analysis set | Subject analysis set |
| Number of subjects analysed | 45 ^[39] | 28 ^[40] | 16 ^[41] | 3 ^[42] |
| Units: Nanograms per milliliter | | | | |
| geometric mean (geometric coefficient of variation) | | | | |
| Daprodustat; n=8, 20, 49, 57, 45, 28, 16, 3, 3 | 126.6824 (± 288.50) | 212.5087 (± 152.47) | 290.3163 (± 87.39) | 197.7071 (± 36.53) |
| GSK2391220; n=8, 19, 50, 59, 45, 28, 16, 3, 3 | 9.5131 (± 167.92) | 11.8995 (± 172.35) | 22.3378 (± 95.60) | 9.3582 (± 71.78) |
| GSK2487818; n=7, 18, 47, 56, 45, 28, 16, 3, 3 | 6.4276 (± 278.04) | 9.6617 (± 207.18) | 19.9693 (± 94.09) | 8.4327 (± 64.98) |
| GSK2506102; n=8, 19, 51, 59, 45, 28, 16, 3, 3 | 3.2007 (± 89.86) | 3.5712 (± 96.48) | 6.4555 (± 59.57) | 2.4981 (± 71.38) |
| GSK2506104; n=8, 19, 51, 59, 45, 28, 16, 3, 3 | 11.5783 (± 130.74) | 13.8509 (± 125.27) | 24.4926 (± 84.96) | 9.5457 (± 73.58) |
| GSK2531398; n=8, 17, 46, 59, 45, 27, 16, 3, 3 | 4.0850 (± 209.29) | 6.1029 (± 137.40) | 10.7532 (± 98.46) | 4.6296 (± 72.00) |
| GSK2531401; n=7, 19, 51, 59, 45, 28, 16, 3, 3 | 8.4814 (± 93.83) | 10.7368 (± 90.83) | 14.7926 (± 59.24) | 7.1458 (± 174.98) |

Notes:

[39] - Pharmacokinetic Population

[40] - Pharmacokinetic Population

[41] - Pharmacokinetic Population

[42] - Pharmacokinetic Population

| | | | | |
|---|----------------------|--|--|--|
| End point values | Daprodustat 48 mg | | | |
| Subject group type | Subject analysis set | | | |
| Number of subjects analysed | 3 ^[43] | | | |
| Units: Nanograms per milliliter | | | | |
| geometric mean (geometric coefficient of variation) | | | | |
| Daprodustat; n=8, 20, 49, 57, 45, 28, 16, 3, 3 | 310.1938 (± 190.69) | | | |
| GSK2391220; n=8, 19, 50, 59, 45, 28, 16, 3, 3 | 31.6698 (± 84.08) | | | |
| GSK2487818; n=7, 18, 47, 56, 45, 28, 16, 3, 3 | 29.3042 (± 72.06) | | | |
| GSK2506102; n=8, 19, 51, 59, 45, 28, 16, 3, 3 | 7.1245 (± 87.62) | | | |
| GSK2506104; n=8, 19, 51, 59, 45, 28, 16, 3, 3 | 30.4034 (± 79.13) | | | |
| GSK2531398; n=8, 17, 46, 59, 45, 27, 16, 3, 3 | 14.7844 (± 81.18) | | | |
| GSK2531401; n=7, 19, 51, 59, 45, 28, 16, 3, 3 | 20.1044 (± 67.56) | | | |

Notes:

[43] - Pharmacokinetic Population

Statistical analyses

No statistical analyses for this end point

Adverse events

Adverse events information

Timeframe for reporting adverse events:

Treatment emergent serious adverse events (SAEs) and non-serious adverse events (non-serious AEs) were collected up to 52 weeks.

Adverse event reporting additional description:

Safety Population was used to assess SAEs and non-serious AEs, which comprised of all randomized participants who have taken at least 1 dose of study treatment. One participant from Randomized (ITT) Population (N=407) did not receive study treatment, hence was not included in Safety Population (N=406).

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

Dictionary used

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

| | |
|--------------------|------|
| Dictionary version | 23.0 |
|--------------------|------|

Reporting groups

| | |
|-----------------------|-------------|
| Reporting group title | Daprodustat |
|-----------------------|-------------|

Reporting group description:

Participants received daprodustat tablets with titrated dose levels ranging from 2, 4, 8, 12, 16, 20, 24, 32 and 48 milligrams (mg) orally three-times weekly up to 52 weeks. Study treatment was dose-titrated to achieve and maintain hemoglobin in the target range (10 to 11 grams per deciliter [g/dL]). In order to maintain the study blind, participants also received saline intravenous (IV) injection once weekly or three-times weekly depending on dose level, up to 52 weeks as an inactive treatment for the IV formulation. All participants were followed up at 4 to 6 weeks after last dose.

| | |
|-----------------------|--------------|
| Reporting group title | Epoetin alfa |
|-----------------------|--------------|

Reporting group description:

Participants received epoetin alfa with titrated dose levels ranging from 1500 Units to 60,000 Units total weekly dose and administered as IV injection once weekly or three-times weekly depending on dose level up to 52 weeks. Study treatment was dose-titrated to achieve and maintain hemoglobin in the target range (10 to 11 g/dL). In order to maintain the study blind, participants also received placebo tablets matching to daprodustat orally three-times weekly up to 52 weeks as an inactive treatment for the tablet formulation. All participants were followed up at 4 to 6 weeks after last dose.

| Serious adverse events | Daprodustat | Epoetin alfa | |
|---|-------------------|-------------------|--|
| Total subjects affected by serious adverse events | | | |
| subjects affected / exposed | 80 / 270 (29.63%) | 47 / 136 (34.56%) | |
| number of deaths (all causes) | 18 | 10 | |
| number of deaths resulting from adverse events | | | |
| Neoplasms benign, malignant and unspecified (incl cysts and polyps) | | | |
| Lip and/or oral cavity cancer | | | |
| subjects affected / exposed | 1 / 270 (0.37%) | 0 / 136 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Oropharyngeal cancer | | | |

| | | | |
|---|-----------------|-----------------|--|
| subjects affected / exposed | 1 / 270 (0.37%) | 0 / 136 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Smooth muscle cell neoplasm | | | |
| subjects affected / exposed | 1 / 270 (0.37%) | 0 / 136 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Squamous cell carcinoma of lung | | | |
| subjects affected / exposed | 0 / 270 (0.00%) | 1 / 136 (0.74%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 1 | |
| Vascular disorders | | | |
| Hypertension | | | |
| subjects affected / exposed | 2 / 270 (0.74%) | 1 / 136 (0.74%) | |
| occurrences causally related to treatment / all | 0 / 2 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Hypertensive crisis | | | |
| subjects affected / exposed | 2 / 270 (0.74%) | 1 / 136 (0.74%) | |
| occurrences causally related to treatment / all | 0 / 2 | 1 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Hypotension | | | |
| subjects affected / exposed | 1 / 270 (0.37%) | 2 / 136 (1.47%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 2 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Peripheral ischaemia | | | |
| subjects affected / exposed | 2 / 270 (0.74%) | 1 / 136 (0.74%) | |
| occurrences causally related to treatment / all | 0 / 2 | 0 / 2 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Deep vein thrombosis | | | |
| subjects affected / exposed | 1 / 270 (0.37%) | 1 / 136 (0.74%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Extremity necrosis | | | |

| | | | |
|---|-----------------|-----------------|--|
| subjects affected / exposed | 2 / 270 (0.74%) | 0 / 136 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 2 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Haemorrhage | | | |
| subjects affected / exposed | 1 / 270 (0.37%) | 1 / 136 (0.74%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Hypertensive emergency | | | |
| subjects affected / exposed | 1 / 270 (0.37%) | 1 / 136 (0.74%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Arterial occlusive disease | | | |
| subjects affected / exposed | 1 / 270 (0.37%) | 0 / 136 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Brachiocephalic vein stenosis | | | |
| subjects affected / exposed | 1 / 270 (0.37%) | 0 / 136 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Dialysis induced hypertension | | | |
| subjects affected / exposed | 1 / 270 (0.37%) | 0 / 136 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Haematoma | | | |
| subjects affected / exposed | 1 / 270 (0.37%) | 0 / 136 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Ischaemia | | | |
| subjects affected / exposed | 0 / 270 (0.00%) | 1 / 136 (0.74%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Malignant hypertension | | | |

| | | | |
|--|-----------------|-----------------|--|
| subjects affected / exposed | 1 / 270 (0.37%) | 0 / 136 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Orthostatic hypotension | | | |
| subjects affected / exposed | 1 / 270 (0.37%) | 0 / 136 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Peripheral vascular disorder | | | |
| subjects affected / exposed | 0 / 270 (0.00%) | 1 / 136 (0.74%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Subclavian vein thrombosis | | | |
| subjects affected / exposed | 1 / 270 (0.37%) | 0 / 136 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Thrombophlebitis | | | |
| subjects affected / exposed | 0 / 270 (0.00%) | 1 / 136 (0.74%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| General disorders and administration site conditions | | | |
| Pyrexia | | | |
| subjects affected / exposed | 2 / 270 (0.74%) | 1 / 136 (0.74%) | |
| occurrences causally related to treatment / all | 0 / 2 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 1 | 0 / 0 | |
| Asthenia | | | |
| subjects affected / exposed | 1 / 270 (0.37%) | 0 / 136 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 1 | 0 / 0 | |
| Catheter site inflammation | | | |
| subjects affected / exposed | 0 / 270 (0.00%) | 1 / 136 (0.74%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Device related thrombosis | | | |

| | | | |
|---|-----------------|-----------------|--|
| subjects affected / exposed | 0 / 270 (0.00%) | 1 / 136 (0.74%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| General physical health deterioration | | | |
| subjects affected / exposed | 0 / 270 (0.00%) | 1 / 136 (0.74%) | |
| occurrences causally related to treatment / all | 0 / 0 | 1 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Non-cardiac chest pain | | | |
| subjects affected / exposed | 0 / 270 (0.00%) | 1 / 136 (0.74%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Thirst | | | |
| subjects affected / exposed | 1 / 270 (0.37%) | 0 / 136 (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 | 1 / 270 (0.37%) | 0 / 136 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Reproductive system and breast disorders | | | |
| Postmenopausal haemorrhage | | | |
| subjects affected / exposed | 0 / 270 (0.00%) | 1 / 136 (0.74%) | |
| 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 | | | |
| Acute respiratory failure | | | |
| subjects affected / exposed | 3 / 270 (1.11%) | 1 / 136 (0.74%) | |
| occurrences causally related to treatment / all | 0 / 3 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Dyspnoea | | | |
| subjects affected / exposed | 1 / 270 (0.37%) | 3 / 136 (2.21%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 3 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |

| | | | |
|---|-----------------|-----------------|--|
| Chronic obstructive pulmonary disease | | | |
| subjects affected / exposed | 2 / 270 (0.74%) | 1 / 136 (0.74%) | |
| occurrences causally related to treatment / all | 0 / 2 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Hypoxia | | | |
| subjects affected / exposed | 1 / 270 (0.37%) | 1 / 136 (0.74%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Pulmonary embolism | | | |
| subjects affected / exposed | 0 / 270 (0.00%) | 2 / 136 (1.47%) | |
| occurrences causally related to treatment / all | 0 / 0 | 1 / 2 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Respiratory failure | | | |
| subjects affected / exposed | 1 / 270 (0.37%) | 1 / 136 (0.74%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 1 | 0 / 0 | |
| Asthma | | | |
| subjects affected / exposed | 0 / 270 (0.00%) | 1 / 136 (0.74%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Epistaxis | | | |
| subjects affected / exposed | 0 / 270 (0.00%) | 1 / 136 (0.74%) | |
| 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 / 270 (0.00%) | 1 / 136 (0.74%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Pulmonary hypertension | | | |
| subjects affected / exposed | 1 / 270 (0.37%) | 0 / 136 (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 | 0 / 270 (0.00%) | 1 / 136 (0.74%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Psychiatric disorders | | | |
| Confusional state | | | |
| subjects affected / exposed | 0 / 270 (0.00%) | 1 / 136 (0.74%) | |
| occurrences causally related to treatment / all | 0 / 0 | 1 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Product issues | | | |
| Thrombosis in device | | | |
| subjects affected / exposed | 0 / 270 (0.00%) | 1 / 136 (0.74%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Injury, poisoning and procedural complications | | | |
| Arteriovenous fistula thrombosis | | | |
| subjects affected / exposed | 7 / 270 (2.59%) | 3 / 136 (2.21%) | |
| occurrences causally related to treatment / all | 0 / 9 | 0 / 4 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Head injury | | | |
| subjects affected / exposed | 2 / 270 (0.74%) | 2 / 136 (1.47%) | |
| occurrences causally related to treatment / all | 0 / 2 | 0 / 2 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Arteriovenous fistula site complication | | | |
| subjects affected / exposed | 2 / 270 (0.74%) | 1 / 136 (0.74%) | |
| occurrences causally related to treatment / all | 0 / 2 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Fall | | | |
| subjects affected / exposed | 1 / 270 (0.37%) | 2 / 136 (1.47%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 2 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Vascular graft occlusion | | | |

| | | | |
|---|-----------------|-----------------|--|
| subjects affected / exposed | 1 / 270 (0.37%) | 1 / 136 (0.74%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Arteriovenous fistula occlusion | | | |
| subjects affected / exposed | 0 / 270 (0.00%) | 1 / 136 (0.74%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 2 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Arteriovenous fistula site haematoma | | | |
| subjects affected / exposed | 1 / 270 (0.37%) | 0 / 136 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Arteriovenous fistula site haemorrhage | | | |
| subjects affected / exposed | 1 / 270 (0.37%) | 0 / 136 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Arteriovenous graft site stenosis | | | |
| subjects affected / exposed | 0 / 270 (0.00%) | 1 / 136 (0.74%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 2 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Arthropod bite | | | |
| subjects affected / exposed | 1 / 270 (0.37%) | 0 / 136 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Joint injury | | | |
| subjects affected / exposed | 0 / 270 (0.00%) | 1 / 136 (0.74%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Multiple fractures | | | |
| subjects affected / exposed | 1 / 270 (0.37%) | 0 / 136 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Post procedural haematoma | | | |

| | | | |
|---|-----------------|-----------------|--|
| subjects affected / exposed | 0 / 270 (0.00%) | 1 / 136 (0.74%) | |
| 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 | 1 / 270 (0.37%) | 0 / 136 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Sternal fracture | | | |
| subjects affected / exposed | 1 / 270 (0.37%) | 0 / 136 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Subdural haematoma | | | |
| subjects affected / exposed | 0 / 270 (0.00%) | 1 / 136 (0.74%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Tibia fracture | | | |
| subjects affected / exposed | 1 / 270 (0.37%) | 0 / 136 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Vascular access complication | | | |
| subjects affected / exposed | 0 / 270 (0.00%) | 1 / 136 (0.74%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Vascular access malfunction | | | |
| subjects affected / exposed | 0 / 270 (0.00%) | 1 / 136 (0.74%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Vascular access site thrombosis | | | |
| subjects affected / exposed | 1 / 270 (0.37%) | 0 / 136 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Vascular access site pseudoaneurysm | | | |

| | | | |
|---|-----------------|-----------------|--|
| subjects affected / exposed | 1 / 270 (0.37%) | 0 / 136 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Congenital, familial and genetic disorders | | | |
| Congenital cystic kidney disease | | | |
| subjects affected / exposed | 1 / 270 (0.37%) | 0 / 136 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Cardiac disorders | | | |
| Angina unstable | | | |
| subjects affected / exposed | 0 / 270 (0.00%) | 3 / 136 (2.21%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 4 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Atrial fibrillation | | | |
| subjects affected / exposed | 1 / 270 (0.37%) | 2 / 136 (1.47%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 2 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Myocardial infarction | | | |
| subjects affected / exposed | 3 / 270 (1.11%) | 0 / 136 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 3 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 1 | 0 / 0 | |
| Acute coronary syndrome | | | |
| subjects affected / exposed | 2 / 270 (0.74%) | 0 / 136 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 2 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Acute myocardial infarction | | | |
| subjects affected / exposed | 1 / 270 (0.37%) | 1 / 136 (0.74%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 2 | |
| deaths causally related to treatment / all | 0 / 1 | 0 / 0 | |
| Angina pectoris | | | |
| subjects affected / exposed | 1 / 270 (0.37%) | 1 / 136 (0.74%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |

| | | | |
|---|-----------------|-----------------|--|
| Cardiac failure | | | |
| subjects affected / exposed | 2 / 270 (0.74%) | 0 / 136 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 2 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 1 | 0 / 0 | |
| Atrioventricular block complete | | | |
| subjects affected / exposed | 0 / 270 (0.00%) | 1 / 136 (0.74%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Cardiac arrest | | | |
| subjects affected / exposed | 0 / 270 (0.00%) | 1 / 136 (0.74%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 1 | |
| Cardiac failure congestive | | | |
| subjects affected / exposed | 1 / 270 (0.37%) | 0 / 136 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Cardiomyopathy | | | |
| subjects affected / exposed | 0 / 270 (0.00%) | 1 / 136 (0.74%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Coronary artery disease | | | |
| subjects affected / exposed | 1 / 270 (0.37%) | 0 / 136 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Supraventricular tachycardia | | | |
| subjects affected / exposed | 1 / 270 (0.37%) | 0 / 136 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Nervous system disorders | | | |
| Cerebrovascular accident | | | |
| subjects affected / exposed | 4 / 270 (1.48%) | 0 / 136 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 6 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Transient ischaemic attack | | | |

| | | | |
|---|-----------------|-----------------|--|
| subjects affected / exposed | 2 / 270 (0.74%) | 1 / 136 (0.74%) | |
| occurrences causally related to treatment / all | 0 / 2 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Diabetic hyperglycaemic coma | | | |
| subjects affected / exposed | 0 / 270 (0.00%) | 1 / 136 (0.74%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Generalised tonic-clonic seizure | | | |
| subjects affected / exposed | 0 / 270 (0.00%) | 1 / 136 (0.74%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Haemorrhagic stroke | | | |
| subjects affected / exposed | 1 / 270 (0.37%) | 0 / 136 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 1 | 0 / 0 | |
| Headache | | | |
| subjects affected / exposed | 1 / 270 (0.37%) | 0 / 136 (0.00%) | |
| occurrences causally related to treatment / all | 1 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Hypertensive encephalopathy | | | |
| subjects affected / exposed | 1 / 270 (0.37%) | 0 / 136 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Ischaemic stroke | | | |
| subjects affected / exposed | 1 / 270 (0.37%) | 0 / 136 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Loss of consciousness | | | |
| subjects affected / exposed | 1 / 270 (0.37%) | 0 / 136 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Lumbar radiculopathy | | | |

| | | | |
|---|-----------------|-----------------|--|
| subjects affected / exposed | 0 / 270 (0.00%) | 1 / 136 (0.74%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Myoclonus | | | |
| subjects affected / exposed | 1 / 270 (0.37%) | 0 / 136 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Syncope | | | |
| subjects affected / exposed | 0 / 270 (0.00%) | 1 / 136 (0.74%) | |
| 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 | 2 / 270 (0.74%) | 3 / 136 (2.21%) | |
| occurrences causally related to treatment / all | 0 / 2 | 1 / 4 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Normocytic anaemia | | | |
| subjects affected / exposed | 1 / 270 (0.37%) | 0 / 136 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Ear and labyrinth disorders | | | |
| Vertigo positional | | | |
| subjects affected / exposed | 1 / 270 (0.37%) | 0 / 136 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Gastrointestinal disorders | | | |
| Gastritis | | | |
| subjects affected / exposed | 1 / 270 (0.37%) | 2 / 136 (1.47%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 2 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Constipation | | | |
| subjects affected / exposed | 2 / 270 (0.74%) | 0 / 136 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 2 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |

| | | | |
|---|-----------------|-----------------|--|
| Diarrhoea | | | |
| subjects affected / exposed | 1 / 270 (0.37%) | 1 / 136 (0.74%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 1 | 0 / 0 | |
| Nausea | | | |
| subjects affected / exposed | 1 / 270 (0.37%) | 1 / 136 (0.74%) | |
| occurrences causally related to treatment / all | 1 / 1 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Vomiting | | | |
| subjects affected / exposed | 1 / 270 (0.37%) | 1 / 136 (0.74%) | |
| occurrences causally related to treatment / all | 1 / 1 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Abdominal pain | | | |
| subjects affected / exposed | 1 / 270 (0.37%) | 0 / 136 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Abdominal pain upper | | | |
| subjects affected / exposed | 1 / 270 (0.37%) | 0 / 136 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Chronic gastritis | | | |
| subjects affected / exposed | 1 / 270 (0.37%) | 0 / 136 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Diabetic gastroparesis | | | |
| subjects affected / exposed | 1 / 270 (0.37%) | 0 / 136 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Gastric antral vascular ectasia | | | |
| subjects affected / exposed | 1 / 270 (0.37%) | 0 / 136 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Gastric dilatation | | | |

| | | | |
|---|-----------------|-----------------|--|
| subjects affected / exposed | 1 / 270 (0.37%) | 0 / 136 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Gastric ulcer haemorrhage | | | |
| subjects affected / exposed | 1 / 270 (0.37%) | 0 / 136 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Gastrointestinal haemorrhage | | | |
| subjects affected / exposed | 0 / 270 (0.00%) | 1 / 136 (0.74%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Impaired gastric emptying | | | |
| subjects affected / exposed | 0 / 270 (0.00%) | 1 / 136 (0.74%) | |
| 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 / 270 (0.37%) | 0 / 136 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Pancreatitis relapsing | | | |
| subjects affected / exposed | 1 / 270 (0.37%) | 0 / 136 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Upper gastrointestinal haemorrhage | | | |
| subjects affected / exposed | 1 / 270 (0.37%) | 0 / 136 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Hepatobiliary disorders | | | |
| Bile duct stone | | | |
| subjects affected / exposed | 0 / 270 (0.00%) | 1 / 136 (0.74%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Cholecystitis | | | |

| | | | |
|---|-----------------|-----------------|--|
| subjects affected / exposed | 1 / 270 (0.37%) | 0 / 136 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Skin and subcutaneous tissue disorders | | | |
| Diabetic foot | | | |
| subjects affected / exposed | 0 / 270 (0.00%) | 2 / 136 (1.47%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 2 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Erythema | | | |
| subjects affected / exposed | 1 / 270 (0.37%) | 0 / 136 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Skin ulcer | | | |
| subjects affected / exposed | 1 / 270 (0.37%) | 0 / 136 (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 | | | |
| Haematuria | | | |
| subjects affected / exposed | 0 / 270 (0.00%) | 2 / 136 (1.47%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 2 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Calculus urethral | | | |
| subjects affected / exposed | 1 / 270 (0.37%) | 0 / 136 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Endocrine disorders | | | |
| Hyperparathyroidism | | | |
| subjects affected / exposed | 0 / 270 (0.00%) | 1 / 136 (0.74%) | |
| 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 | | | |
| Arthritis | | | |

| | | | |
|---|-----------------|-----------------|--|
| subjects affected / exposed | 0 / 270 (0.00%) | 1 / 136 (0.74%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Cervical spinal stenosis | | | |
| subjects affected / exposed | 1 / 270 (0.37%) | 0 / 136 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Musculoskeletal chest pain | | | |
| subjects affected / exposed | 1 / 270 (0.37%) | 0 / 136 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Neuropathic arthropathy | | | |
| subjects affected / exposed | 1 / 270 (0.37%) | 0 / 136 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Pain in extremity | | | |
| subjects affected / exposed | 1 / 270 (0.37%) | 0 / 136 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Pathological fracture | | | |
| subjects affected / exposed | 1 / 270 (0.37%) | 0 / 136 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Infections and infestations | | | |
| Pneumonia | | | |
| subjects affected / exposed | 9 / 270 (3.33%) | 5 / 136 (3.68%) | |
| occurrences causally related to treatment / all | 0 / 9 | 0 / 5 | |
| deaths causally related to treatment / all | 0 / 1 | 0 / 1 | |
| Clostridium difficile colitis | | | |
| subjects affected / exposed | 2 / 270 (0.74%) | 1 / 136 (0.74%) | |
| occurrences causally related to treatment / all | 0 / 2 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Arteriovenous fistula site infection | | | |

| | | | |
|---|-----------------|-----------------|--|
| subjects affected / exposed | 2 / 270 (0.74%) | 0 / 136 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 2 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Gangrene | | | |
| subjects affected / exposed | 1 / 270 (0.37%) | 1 / 136 (0.74%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Gastroenteritis | | | |
| subjects affected / exposed | 2 / 270 (0.74%) | 0 / 136 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 3 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Sepsis | | | |
| subjects affected / exposed | 1 / 270 (0.37%) | 1 / 136 (0.74%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Septic shock | | | |
| subjects affected / exposed | 2 / 270 (0.74%) | 0 / 136 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 2 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Acinetobacter infection | | | |
| subjects affected / exposed | 1 / 270 (0.37%) | 0 / 136 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Atypical pneumonia | | | |
| subjects affected / exposed | 1 / 270 (0.37%) | 0 / 136 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Bacteraemia | | | |
| subjects affected / exposed | 0 / 270 (0.00%) | 1 / 136 (0.74%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Bronchitis | | | |

| | | | |
|---|-----------------|-----------------|--|
| subjects affected / exposed | 1 / 270 (0.37%) | 0 / 136 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Campylobacter colitis | | | |
| subjects affected / exposed | 1 / 270 (0.37%) | 0 / 136 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Catheter bacteraemia | | | |
| subjects affected / exposed | 0 / 270 (0.00%) | 1 / 136 (0.74%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Cellulitis | | | |
| subjects affected / exposed | 1 / 270 (0.37%) | 0 / 136 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Ear infection | | | |
| subjects affected / exposed | 1 / 270 (0.37%) | 0 / 136 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Endocarditis | | | |
| subjects affected / exposed | 0 / 270 (0.00%) | 1 / 136 (0.74%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Enteritis infectious | | | |
| subjects affected / exposed | 1 / 270 (0.37%) | 0 / 136 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 1 | 0 / 0 | |
| Enterococcal bacteraemia | | | |
| subjects affected / exposed | 1 / 270 (0.37%) | 0 / 136 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Escherichia urinary tract infection | | | |

| | | | |
|---|-----------------|-----------------|--|
| subjects affected / exposed | 1 / 270 (0.37%) | 0 / 136 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| H1N1 influenza | | | |
| subjects affected / exposed | 1 / 270 (0.37%) | 0 / 136 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Infected skin ulcer | | | |
| subjects affected / exposed | 0 / 270 (0.00%) | 1 / 136 (0.74%) | |
| 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 / 270 (0.37%) | 0 / 136 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Injection site cellulitis | | | |
| subjects affected / exposed | 1 / 270 (0.37%) | 0 / 136 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Laryngitis | | | |
| subjects affected / exposed | 1 / 270 (0.37%) | 0 / 136 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 1 | 0 / 0 | |
| Localised infection | | | |
| subjects affected / exposed | 0 / 270 (0.00%) | 1 / 136 (0.74%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Osteomyelitis | | | |
| subjects affected / exposed | 0 / 270 (0.00%) | 1 / 136 (0.74%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Pharyngitis | | | |

| | | | |
|---|-----------------|-----------------|--|
| subjects affected / exposed | 1 / 270 (0.37%) | 0 / 136 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Postoperative wound infection | | | |
| subjects affected / exposed | 0 / 270 (0.00%) | 1 / 136 (0.74%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Prostatitis Escherichia coli | | | |
| subjects affected / exposed | 1 / 270 (0.37%) | 0 / 136 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Proteus infection | | | |
| subjects affected / exposed | 1 / 270 (0.37%) | 0 / 136 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Pseudomembranous colitis | | | |
| subjects affected / exposed | 1 / 270 (0.37%) | 0 / 136 (0.00%) | |
| occurrences causally related to treatment / all | 1 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Pyelonephritis | | | |
| subjects affected / exposed | 1 / 270 (0.37%) | 0 / 136 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Respiratory syncytial virus infection | | | |
| subjects affected / exposed | 1 / 270 (0.37%) | 0 / 136 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Respiratory tract infection | | | |
| subjects affected / exposed | 0 / 270 (0.00%) | 1 / 136 (0.74%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Skin bacterial infection | | | |

| | | | |
|---|-----------------|-----------------|--|
| subjects affected / exposed | 1 / 270 (0.37%) | 0 / 136 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Tubo-ovarian abscess | | | |
| subjects affected / exposed | 1 / 270 (0.37%) | 0 / 136 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Upper respiratory tract infection | | | |
| subjects affected / exposed | 1 / 270 (0.37%) | 0 / 136 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Urosepsis | | | |
| subjects affected / exposed | 0 / 270 (0.00%) | 1 / 136 (0.74%) | |
| 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 | 1 / 270 (0.37%) | 0 / 136 (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 | | | |
| Fluid overload | | | |
| subjects affected / exposed | 2 / 270 (0.74%) | 2 / 136 (1.47%) | |
| occurrences causally related to treatment / all | 0 / 2 | 0 / 2 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Hyperkalaemia | | | |
| subjects affected / exposed | 3 / 270 (1.11%) | 1 / 136 (0.74%) | |
| occurrences causally related to treatment / all | 0 / 3 | 0 / 2 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Diabetic ketoacidosis | | | |
| subjects affected / exposed | 2 / 270 (0.74%) | 0 / 136 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 5 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Hypoglycaemia | | | |

| | | | |
|---|-----------------|-----------------|--|
| subjects affected / exposed | 1 / 270 (0.37%) | 1 / 136 (0.74%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Diabetes mellitus | | | |
| subjects affected / exposed | 0 / 270 (0.00%) | 1 / 136 (0.74%) | |
| 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 | Daprodustat | Epoetin alfa | |
|---|-------------------|-------------------|--|
| Total subjects affected by non-serious adverse events | | | |
| subjects affected / exposed | 74 / 270 (27.41%) | 42 / 136 (30.88%) | |
| Vascular disorders | | | |
| Hypertension | | | |
| subjects affected / exposed | 22 / 270 (8.15%) | 14 / 136 (10.29%) | |
| occurrences (all) | 35 | 19 | |
| Hypotension | | | |
| subjects affected / exposed | 12 / 270 (4.44%) | 9 / 136 (6.62%) | |
| occurrences (all) | 16 | 13 | |
| Nervous system disorders | | | |
| Headache | | | |
| subjects affected / exposed | 11 / 270 (4.07%) | 13 / 136 (9.56%) | |
| occurrences (all) | 13 | 26 | |
| General disorders and administration site conditions | | | |
| Pyrexia | | | |
| subjects affected / exposed | 7 / 270 (2.59%) | 8 / 136 (5.88%) | |
| occurrences (all) | 9 | 9 | |
| Gastrointestinal disorders | | | |
| Diarrhoea | | | |
| subjects affected / exposed | 23 / 270 (8.52%) | 14 / 136 (10.29%) | |
| occurrences (all) | 36 | 19 | |
| Vomiting | | | |
| subjects affected / exposed | 15 / 270 (5.56%) | 13 / 136 (9.56%) | |
| occurrences (all) | 16 | 15 | |
| Nausea | | | |

| | | | |
|-----------------------------|-----------------|------------------|--|
| subjects affected / exposed | 6 / 270 (2.22%) | 11 / 136 (8.09%) | |
| occurrences (all) | 8 | 21 | |
| Abdominal pain | | | |
| subjects affected / exposed | 7 / 270 (2.59%) | 9 / 136 (6.62%) | |
| occurrences (all) | 8 | 9 | |

More information

Substantial protocol amendments (globally)

Were there any global substantial amendments to the protocol? No

Interruptions (globally)

Were there any global interruptions to the trial? No

Limitations and caveats

None reported