



Clinical trial results:

A Phase 3, Randomized, Multicenter, Open-Label, Controlled Study to Evaluate the Efficacy and Safety of APL-2 in Patients with Paroxysmal Nocturnal Hemoglobinuria (PNH)

Summary

| | |
|--------------------------|----------------|
| EudraCT number | 2018-004220-11 |
| Trial protocol | PL |
| Global end of trial date | 23 June 2021 |

Results information

| | |
|--------------------------------|----------------|
| Result version number | v1 (current) |
| This version publication date | 14 August 2022 |
| First version publication date | 14 August 2022 |

Trial information

Trial identification

| | |
|-----------------------|----------|
| Sponsor protocol code | APL2-308 |
|-----------------------|----------|

Additional study identifiers

| | |
|------------------------------------|-------------|
| ISRCTN number | - |
| ClinicalTrials.gov id (NCT number) | NCT04085601 |
| WHO universal trial number (UTN) | - |

Notes:

Sponsors

| | |
|------------------------------|--|
| Sponsor organisation name | Apellis Pharmaceuticals, Inc |
| Sponsor organisation address | 100 5th Avenue, Waltham, Massachusetts, United States, 02451 |
| Public contact | Apellis Pharmaceuticals, Inc,, Apellis Clinical Trial Information Line, 1 833-284-6361, clinicaltrials@apellis.com |
| Scientific contact | Apellis Pharmaceuticals, Inc,, Apellis Clinical Trial Information Line, 1 833-284-6361, clinicaltrials@apellis.com |

Notes:

Paediatric regulatory details

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

Notes:

Results analysis stage

| | |
|--|--------------|
| Analysis stage | Final |
| Date of interim/final analysis | 23 June 2021 |
| Is this the analysis of the primary completion data? | No |
| Global end of trial reached? | Yes |
| Global end of trial date | 23 June 2021 |
| Was the trial ended prematurely? | No |

Notes:

General information about the trial

Main objective of the trial:

To evaluate the efficacy of pegcetacoplan (APL-2), compared to standard of care (SoC) (excluding complement inhibitors), in subjects with paroxysmal nocturnal hemoglobinuria (PNH), as assessed by:

- Hemoglobin (Hb) stabilization, defined as avoidance of a > 1 gram per deciliter (g/dL) decrease in Hb levels from Baseline in the absence of transfusion through Week 26 (Yes/No)

AND

- Reduction in lactate dehydrogenase (LDH) level from Baseline to Week 26

Protection of trial subjects:

This research was carried out in accordance with the protocol, applicable regulations, the ethical principles set forth in the Declaration of Helsinki, and the International Council for Harmonisation of Technical Requirements for Pharmaceuticals for Human Use Harmonised Guideline for Good Clinical Practice E6 Revision 2. An external, independent data monitoring committee (IDMC) assessed the safety and tolerability data of the study periodically.

Background therapy: -

Evidence for comparator: -

| | |
|---|----------------|
| Actual start date of recruitment | 27 August 2019 |
| 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 | Thailand: 13 |
| Country: Number of subjects enrolled | Malaysia: 7 |
| Country: Number of subjects enrolled | Hong Kong: 4 |
| Country: Number of subjects enrolled | Mexico: 2 |
| Country: Number of subjects enrolled | Singapore: 3 |
| Country: Number of subjects enrolled | Philippines: 12 |
| Country: Number of subjects enrolled | Peru: 9 |
| Country: Number of subjects enrolled | Colombia: 3 |
| Worldwide total number of subjects | 53 |
| EEA total number of subjects | 0 |

Notes:

Subjects enrolled per age group

| | |
|----------|---|
| In utero | 0 |
|----------|---|

| | |
|---|----|
| Preterm newborn - gestational age < 37 wk | 0 |
| Newborns (0-27 days) | 0 |
| Infants and toddlers (28 days-23 months) | 0 |
| Children (2-11 years) | 0 |
| Adolescents (12-17 years) | 0 |
| Adults (18-64 years) | 47 |
| From 65 to 84 years | 6 |
| 85 years and over | 0 |

Subject disposition

Recruitment

Recruitment details:

This study was conducted in subjects with PNH at 22 investigational sites. The study consisted of a screening period (up to 4 weeks), followed by a randomized controlled period (RCP) (26 weeks). All subjects who completed RCP rolled over into a separate open-label, long-term extension study (APL2-307) or completed the safety follow-up (34 weeks).

Pre-assignment

Screening details:

A total of 68 subjects were screened. Of which, 53 subjects with PNH who met all of the inclusion criteria and none of the exclusion criteria were randomized in a 2:1 ratio either to receive pegcetacoplan or to remain on their current SoC in RCP.

Period 1

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

Arms

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

Arm description:

Subjects were received subcutaneous (SC) infusion of pegcetacoplan 1080 milligram (mg) twice weekly or every 3 days up to end of the RCP (Week 26). Subjects were not allowed to receive treatment with other complement inhibitors.

| | |
|--|-----------------------|
| Arm type | Experimental |
| Investigational medicinal product name | Pegcetacoplan |
| Investigational medicinal product code | APL-2 |
| Other name | |
| Pharmaceutical forms | Solution for infusion |
| Routes of administration | Subcutaneous use |

Dosage and administration details:

Pegcetacoplan was administered as a 20 milliliter SC infusion. The preferred site of infusion was the abdomen.

| | |
|------------------|------------------|
| Arm title | Standard of Care |
|------------------|------------------|

Arm description:

Subjects continued to receive SoC treatment but were not allowed to receive treatment with a complement inhibitor unless they qualified for pegcetacoplan escape therapy.

| | |
|---|-----------------|
| Arm type | No intervention |
| No investigational medicinal product assigned in this arm | |

| Number of subjects in period 1 | Pegcetacoplan | Standard of Care |
|---------------------------------------|------------------|-------------------|
| Started | 35 | 18 |
| SoC to Pegcetacoplan (Escape therapy) | 0 ^[1] | 11 ^[2] |
| Completed | 33 | 17 |
| Not completed | 2 | 1 |
| Death | 1 | 1 |

| | | |
|-------------------|---|---|
| Lost to follow-up | 1 | - |
|-------------------|---|---|

Notes:

[1] - The number of subjects at this milestone seems inconsistent with the number of subjects in the arm. It is expected that the number of subjects will be greater than, or equal to the number that completed, minus those who left.

Justification: Subjects assigned to the SoC reporting group were commenced escape pegcetacoplan therapy if they were classified as a failure for the first coprimary endpoint.

[2] - The number of subjects at this milestone seems inconsistent with the number of subjects in the arm. It is expected that the number of subjects will be greater than, or equal to the number that completed, minus those who left.

Justification: Subjects assigned to the SoC reporting group were commenced escape pegcetacoplan therapy if they were classified as a failure for the first coprimary endpoint.

Baseline characteristics

Reporting groups

| | |
|-----------------------|---------------|
| Reporting group title | Pegcetacoplan |
|-----------------------|---------------|

Reporting group description:

Subjects were received subcutaneous (SC) infusion of pegcetacoplan 1080 milligram (mg) twice weekly or every 3 days up to end of the RCP (Week 26). Subjects were not allowed to receive treatment with other complement inhibitors.

| | |
|-----------------------|------------------|
| Reporting group title | Standard of Care |
|-----------------------|------------------|

Reporting group description:

Subjects continued to receive SoC treatment but were not allowed to receive treatment with a complement inhibitor unless they qualified for pegcetacoplan escape therapy.

| Reporting group values | Pegcetacoplan | Standard of Care | Total |
|----------------------------------|---------------|------------------|-------|
| Number of subjects | 35 | 18 | 53 |
| Age categorical | | | |
| Units: Subjects | | | |
| <65 years | 33 | 14 | 47 |
| >= 65 and < 75 years | 2 | 4 | 6 |
| Age continuous | | | |
| Units: years | | | |
| arithmetic mean | 42.2 | 49.1 | |
| standard deviation | ± 12.70 | ± 15.64 | - |
| Gender categorical | | | |
| Units: Subjects | | | |
| Female | 16 | 8 | 24 |
| Male | 19 | 10 | 29 |
| Race | | | |
| Units: Subjects | | | |
| Black or African American | 2 | 0 | 2 |
| American Indian or Alaska Native | 9 | 2 | 11 |
| Asian | 23 | 16 | 39 |
| Other | 1 | 0 | 1 |
| Ethnicity | | | |
| Units: Subjects | | | |
| Hispanic or Latino | 12 | 2 | 14 |
| Not Hispanic or Latino | 23 | 16 | 39 |

End points

End points reporting groups

| | |
|--|------------------|
| Reporting group title | Pegcetacoplan |
| Reporting group description: Subjects were received subcutaneous (SC) infusion of pegcetacoplan 1080 milligram (mg) twice weekly or every 3 days up to end of the RCP (Week 26). Subjects were not allowed to receive treatment with other complement inhibitors. | |
| Reporting group title | Standard of Care |
| Reporting group description: Subjects continued to receive SoC treatment but were not allowed to receive treatment with a complement inhibitor unless they qualified for pegcetacoplan escape therapy. | |

Primary: Number of Subjects who Achieved Hb Stabilization

| | |
|---|--|
| End point title | Number of Subjects who Achieved Hb Stabilization |
| End point description: The Hb stabilization was defined as avoidance of a >1 g/dL decrease in Hb concentration from Baseline in the absence of transfusion through Week 26. The intent-to-treat (ITT) set included all subjects assigned to treatment. | |
| End point type | Primary |
| End point timeframe: From Baseline (Day 1) up to Week 26 | |

| End point values | Pegcetacoplan | Standard of Care | | |
|-----------------------------|-----------------|------------------|--|--|
| Subject group type | Reporting group | Reporting group | | |
| Number of subjects analysed | 35 | 18 | | |
| Units: subjects | | | | |
| number (not applicable) | 30 | 0 | | |

Statistical analyses

| | |
|---|--|
| Statistical analysis title | Treatment difference in Hb Stabilization |
| Comparison groups | Pegcetacoplan v Standard of Care |
| Number of subjects included in analysis | 53 |
| Analysis specification | Pre-specified |
| Analysis type | superiority |
| P-value | < 0.0001 ^[1] |
| Method | Cochran-Mantel-Haenszel |
| Parameter estimate | Difference |
| Point estimate | 0.7311 |

| | |
|---------------------|---------|
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | 0.572 |
| upper limit | 0.8902 |

Notes:

[1] - Cochran-Mantel-Haenszel test is stratified by number of packed red blood cell (PRBC) within 12 months prior to screening (<4, ≥ 4) reported in electronic data capture (EDC) data.

Primary: Change From Baseline in LDH Concentration At Week 26

| | |
|-----------------|--|
| End point title | Change From Baseline in LDH Concentration At Week 26 |
|-----------------|--|

End point description:

The LDH concentration was analyzed using an analysis of covariance (ANCOVA) model with a last observation carried forward (LOCF) and a baseline observation carried forward (BOCF) approach for handling missing data. Baseline was defined as average of measurements prior to first dose of pegcetacoplan or on or prior to randomization of SoC. Post baseline missing values are imputed using multiple imputation method with Markov Chain Mont Carlo method. The ITT set included all subjects assigned to treatment.

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

End point timeframe:

Baseline (Day 1) and Week 26

| End point values | Pegcetacoplan | Standard of Care | | |
|-------------------------------------|----------------------|---------------------|--|--|
| Subject group type | Reporting group | Reporting group | | |
| Number of subjects analysed | 35 | 18 | | |
| Units: Units/Liter (U/L) | | | | |
| least squares mean (standard error) | -1870.47 (± 100.971) | -400.09 (± 312.988) | | |

Statistical analyses

| | |
|---|-----------------------------------|
| Statistical analysis title | Treatment difference in LDH level |
| Comparison groups | Pegcetacoplan v Standard of Care |
| Number of subjects included in analysis | 53 |
| Analysis specification | Pre-specified |
| Analysis type | superiority |
| P-value | < 0.0001 ^[2] |
| Method | ANCOVA |
| Parameter estimate | LS mean difference |
| Point estimate | -1470.38 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | -2113.44 |
| upper limit | -827.32 |

Notes:

[2] - P-value for Baseline, strata and treatment is from least square (LS) mean of proc mixed and proc mianalyze based on parameter estimates.

Secondary: Number of Subjects with an Hb Response in the Absence of Transfusions

| | |
|-----------------|---|
| End point title | Number of Subjects with an Hb Response in the Absence of Transfusions |
|-----------------|---|

End point description:

An Hb response was defined as a ≥ 1 g/dL increase in Hb from baseline at Week 26. The ITT set included all subjects assigned to treatment.

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

End point timeframe:

Baseline and Week 26

| End point values | Pegcetacoplan | Standard of Care | | |
|-----------------------------|-----------------|------------------|--|--|
| Subject group type | Reporting group | Reporting group | | |
| Number of subjects analysed | 35 | 18 | | |
| Units: subjects | | | | |
| number (not applicable) | 25 | 1 | | |

Statistical analyses

| | |
|---|---|
| Statistical analysis title | Hb Response in the absence of transfusion |
| Comparison groups | Pegcetacoplan v Standard of Care |
| Number of subjects included in analysis | 53 |
| Analysis specification | Pre-specified |
| Analysis type | superiority |
| P-value | < 0.0001 [3] |
| Method | Cochran-Mantel-Haenszel |
| Parameter estimate | Difference |
| Point estimate | 0.5411 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | 0.339 |
| upper limit | 0.7431 |

Notes:

[3] - Cochran-Mantel-Haenszel test is stratified by number of PRBC within 12 months prior to screening (<4 , ≥ 4) reported in EDC data.

Secondary: Change From Baseline in Absolute Reticulocyte Count (ARC) at Week 26

| | |
|-----------------|--|
| End point title | Change From Baseline in Absolute Reticulocyte Count (ARC) at Week 26 |
|-----------------|--|

End point description:

Blood samples were collected via direct venipuncture at the specific time points to determine ARC. Baseline was defined as average of measurements prior to first dose of pegcetacoplan or on or prior to randomization of SoC. Post baseline missing values are imputed using multiple imputation method with Markov Chain Monte Carlo method. The ITT set included all subjects assigned to treatment.

| | |
|----------------------|-----------|
| End point type | Secondary |
| End point timeframe: | |
| Baseline and Week 26 | |

| End point values | Pegcetacoplan | Standard of Care | | |
|-------------------------------------|-------------------|-------------------|--|--|
| Subject group type | Reporting group | Reporting group | | |
| Number of subjects analysed | 35 | 18 | | |
| Units: 10 ⁹ /L | | | | |
| least squares mean (standard error) | -123.26 (± 9.164) | -19.44 (± 25.209) | | |

Statistical analyses

| | |
|---|----------------------------------|
| Statistical analysis title | ARC during RCP |
| Comparison groups | Pegcetacoplan v Standard of Care |
| Number of subjects included in analysis | 53 |
| Analysis specification | Pre-specified |
| Analysis type | superiority |
| P-value | = 0.0002 ^[4] |
| Method | ANCOVA |
| Parameter estimate | LS mean difference |
| Point estimate | -103.82 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | -158.9 |
| upper limit | -48.74 |

Notes:

[4] - P-value for Baseline, strata and treatment is from LS mean of proc mixed and proc mianalyze based on parameter estimates.

Secondary: Change From Baseline in Hb Concentration at Week 26

| | |
|------------------------|--|
| End point title | Change From Baseline in Hb Concentration at Week 26 |
| End point description: | Baseline was defined as average of measurements prior to first dose of pegcetacoplan or on or prior to randomization of SoC. Post baseline missing values are imputed using multiple imputation method with Markov Chain Mont Carlo method. The ITT set included all subjects assigned to treatment. |
| End point type | Secondary |
| End point timeframe: | |
| Baseline and Week 26 | |

| End point values | Pegcetacoplan | Standard of Care | | |
|-------------------------------------|-----------------|------------------|--|--|
| Subject group type | Reporting group | Reporting group | | |
| Number of subjects analysed | 35 | 18 | | |
| Units: g/dL | | | | |
| least squares mean (standard error) | 2.94 (± 0.383) | 0.27 (± 0.759) | | |

Statistical analyses

| Statistical analysis title | Hb change from Baseline |
|---|----------------------------------|
| Comparison groups | Pegcetacoplan v Standard of Care |
| Number of subjects included in analysis | 53 |
| Analysis specification | Pre-specified |
| Analysis type | superiority |
| P-value | = 0.0019 ^[5] |
| Method | ANCOVA |
| Parameter estimate | LS mean difference |
| Point estimate | 2.67 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | 0.99 |
| upper limit | 4.35 |

Notes:

[5] - P-value for baseline, strata and treatment is from LS mean of proc mixed and proc mianalyze based on parameter estimates.

Secondary: Percentage of Subjects Who Received Transfusion or Decrease of Hb >2 g/dL From Baseline

| | |
|------------------------|---|
| End point title | Percentage of Subjects Who Received Transfusion or Decrease of Hb >2 g/dL From Baseline |
| End point description: | Transfusion refers to any transfusion of packed red blood cell (PRBC), leukocyte-depleted red blood cells (LDPRC), leukocyte poor packed red blood cell (LPRC), leukocyte poor blood (LPB) or whole blood. The ITT set included all subjects assigned to treatment. |
| End point type | Secondary |
| End point timeframe: | |
| At Week 26 | |

| End point values | Pegcetacoplan | Standard of Care | | |
|-------------------------------|-----------------|------------------|--|--|
| Subject group type | Reporting group | Reporting group | | |
| Number of subjects analysed | 35 | 18 | | |
| Units: percentage of subjects | | | | |
| number (not applicable) | 11.4 | 100 | | |

Statistical analyses

| | |
|---|----------------------------------|
| Statistical analysis title | Transfusions or decrease of Hb |
| Comparison groups | Pegcetacoplan v Standard of Care |
| Number of subjects included in analysis | 53 |
| Analysis specification | Pre-specified |
| Analysis type | superiority |
| P-value | < 0.0001 ^[6] |
| Method | Cochran-Mantel-Haenszel |
| Parameter estimate | Difference |
| Point estimate | -0.7505 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | -0.9041 |
| upper limit | -0.5969 |

Notes:

[6] - Cochran-Mantel-Haenszel test is stratified by number of PRBC within 12 months prior to screening (<4, ≥4) reported in EDC data.

Secondary: Percentage of Subjects with Transfusion Avoidance

| | |
|------------------------|--|
| End point title | Percentage of Subjects with Transfusion Avoidance |
| End point description: | Transfusion avoidance was defined as the percentage of subjects who did not require a transfusion during the RCP. Transfusion refers to any transfusion of PRBC, LDPRC, LPRC, LPB or whole blood. The ITT set included all subjects assigned to treatment. |
| End point type | Secondary |
| End point timeframe: | |
| At Week 26 | |

| | | | | |
|-------------------------------|-----------------|------------------|--|--|
| End point values | Pegcetacoplan | Standard of Care | | |
| Subject group type | Reporting group | Reporting group | | |
| Number of subjects analysed | 35 | 18 | | |
| Units: percentage of subjects | | | | |
| number (not applicable) | 91.4 | 5.6 | | |

Statistical analyses

| | |
|-----------------------------------|--|
| Statistical analysis title | Treatment difference in transfusions avoidance |
| Comparison groups | Pegcetacoplan v Standard of Care |

| | |
|---|-------------------------|
| Number of subjects included in analysis | 53 |
| Analysis specification | Pre-specified |
| Analysis type | superiority |
| P-value | < 0.0001 ^[7] |
| Method | Cochran-Mantel-Haenszel |
| Parameter estimate | Difference |
| Point estimate | 0.7241 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | 0.5583 |
| upper limit | 0.8899 |

Notes:

[7] - Cochran-Mantel-Haenszel test is stratified by number of PRBC within 12 months prior to screening (<4, ≥4) reported in EDC data.

Secondary: Number of PRBC Units Transfused from Baseline Through Week 26

| | |
|-----------------|---|
| End point title | Number of PRBC Units Transfused from Baseline Through Week 26 |
|-----------------|---|

End point description:

The number of units of PRBC transfusions was estimated. In one transfusion subjects received one or more units. The ITT set included all subjects assigned to treatment.

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

End point timeframe:

Up to Week 26

| End point values | Pegcetacoplan | Standard of Care | | |
|-------------------------------|-----------------|------------------|--|--|
| Subject group type | Reporting group | Reporting group | | |
| Number of subjects analysed | 35 | 18 | | |
| Units: PRBC transfusions | | | | |
| median (full range (min-max)) | 0.0 (0 to 19) | 3.0 (0 to 13) | | |

Statistical analyses

| | |
|---|--|
| Statistical analysis title | Treatment difference in PRBC transfusion units |
| Comparison groups | Pegcetacoplan v Standard of Care |
| Number of subjects included in analysis | 53 |
| Analysis specification | Pre-specified |
| Analysis type | superiority |
| P-value | < 0.0001 ^[8] |
| Method | Wilcoxon Rank-Sum Test |
| Parameter estimate | Median difference (net) |
| Point estimate | 3 |

| | |
|---------------------|---------|
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | 2 |
| upper limit | 4 |

Notes:

[8] - Wilcoxon rank-sum test p-value for the comparison between treatments is based on median using stratified non-parametric analysis. The 95% CI is constructed using Hodges-Lehmann Estimation of Location Shift.

Secondary: Change From Baseline in Functional Assessment of Chronic Illness Therapy- (FACIT-Fatigue) Scale score at Week 26

| | |
|-----------------|--|
| End point title | Change From Baseline in Functional Assessment of Chronic Illness Therapy- (FACIT-Fatigue) Scale score at Week 26 |
|-----------------|--|

End point description:

The FACIT-Fatigue Scale is a 13-item Likert scaled instrument that is self-administered by the subjects during clinic visits. Subjects were presented with 13 statements and asked to indicate their responses as it applied to the past 7 days. The 5 possible responses are "Not at all" (0), "A little bit" (1), "Somewhat" (2), "Quite a bit" (3), and "Very much" (4). With 13 statements, the total score has a range of 0 to 52. The higher score corresponded to a higher quality of life. Baseline is defined as average of measurements prior to first dose of pegcetacoplan or on or prior to randomization of SoC. Post baseline missing values are imputed using multiple imputation method with Markov Chain Mont Carlo method. The ITT set included all subjects assigned to treatment.

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

End point timeframe:

Baseline and Week 26

| | | | | |
|-------------------------------------|-----------------|------------------|--|--|
| End point values | Pegcetacoplan | Standard of Care | | |
| Subject group type | Reporting group | Reporting group | | |
| Number of subjects analysed | 35 | 18 | | |
| Units: scores on a scale | | | | |
| least squares mean (standard error) | 7.78 (± 1.210) | 3.26 (± 2.113) | | |

Statistical analyses

| | |
|---|--|
| Statistical analysis title | Treatment difference in FACIT-Fatigue Scale Scores |
| Comparison groups | Pegcetacoplan v Standard of Care |
| Number of subjects included in analysis | 53 |
| Analysis specification | Pre-specified |
| Analysis type | superiority |
| P-value | = 0.061 ^[9] |
| Method | ANCOVA |
| Parameter estimate | LS mean difference |
| Point estimate | 4.51 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | -0.21 |
| upper limit | 9.24 |

Notes:

[9] - P-value for baseline, strata and treatment is from LS mean of proc mixed and proc mianalyze based on parameter estimates.

Secondary: Percentage of Subjects with Hb Normalization levels at Week 26

| | |
|-----------------|--|
| End point title | Percentage of Subjects with Hb Normalization levels at Week 26 |
|-----------------|--|

End point description:

Normalization of Hb levels defined as $\geq 1 \times$ lower limit of normal (LLN) at Week 26 in the absence of transfusion. Transfusion refers to any transfusion of PRBC, LDPRC, LPRC, LPB or whole blood. The ITT set included all subjects assigned to treatment.

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

End point timeframe:

Baseline and Week 26

| End point values | Pegcetacoplan | Standard of Care | | |
|-------------------------------|-----------------|------------------|--|--|
| Subject group type | Reporting group | Reporting group | | |
| Number of subjects analysed | 35 | 18 | | |
| Units: percentage of subjects | | | | |
| number (not applicable) | 45.7 | 0 | | |

Statistical analyses

| | |
|---|----------------------------------|
| Statistical analysis title | Hb normalization |
| Comparison groups | Pegcetacoplan v Standard of Care |
| Number of subjects included in analysis | 53 |
| Analysis specification | Pre-specified |
| Analysis type | superiority |
| P-value | = 0.001 |
| Method | Cochran-Mantel-Haenszel |
| Parameter estimate | Difference |
| Point estimate | 0.3645 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | 0.1648 |
| upper limit | 0.5642 |

Secondary: Percentage of Subjects With LDH Normalization at Week 26

| | |
|-----------------|--|
| End point title | Percentage of Subjects With LDH Normalization at Week 26 |
|-----------------|--|

End point description:

The LDH normalization was defined as LDH $\leq 1 \times$ ULN of normal range at week 26 in the absence of transfusion. Transfusion refers to any transfusion of PRBC, LDPRC, LPPRC, LPRC, LPB or whole blood. The ITT set included all subjects assigned to treatment.

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

End point timeframe:

At Week 26

| End point values | Pegcetacoplan | Standard of Care | | |
|-------------------------------|-----------------|------------------|--|--|
| Subject group type | Reporting group | Reporting group | | |
| Number of subjects analysed | 35 | 18 | | |
| Units: percentage of subjects | | | | |
| number (not applicable) | 65.7 | 0 | | |

Statistical analyses

| | |
|---|----------------------------------|
| Statistical analysis title | LDH Normalization at Week 26 |
| Comparison groups | Pegcetacoplan v Standard of Care |
| Number of subjects included in analysis | 53 |
| Analysis specification | Pre-specified |
| Analysis type | superiority |
| P-value | < 0.0001 |
| Method | Cochran-Mantel-Haenszel |
| Parameter estimate | Difference |
| Point estimate | 0.5592 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | 0.3682 |
| upper limit | 0.7502 |

Secondary: Change From Baseline in European Organization for Research and Treatment of Cancer (EORTC) 30-item Core Quality of Life Questionnaire (QLQ-C30) scores at Week 26

| | |
|-----------------|---|
| End point title | Change From Baseline in European Organization for Research and Treatment of Cancer (EORTC) 30-item Core Quality of Life Questionnaire (QLQ-C30) scores at Week 26 |
|-----------------|---|

End point description:

The EORTC QLQ-C30 questionnaire (version 3.0) consisted of 30 questions comprised of both multi-item scales and single-item measures to assess overall quality of life in subjects. Questions were designated by functional scales, symptom scales, and global subject QOL/overall perceived health status. For the first 28 questions the 4 possible responses are "Not at all" (1), 'A little' (2), 'Quite a bit' (3) and 'Very much' (4). For the remaining 2 questions the response is requested on a 7-point scale from 1 ('Very poor') to 7 ('Excellent'). Each scale has a range of 0% - 100%. A high scale score represents a higher response level. Baseline is defined as average of measurements prior to first dose of pegcetacoplan or on or prior to randomization of SoC. Post baseline missing values are imputed using multiple imputation method with Markov Chain Mont Carlo method. The ITT set included all subjects assigned to treatment.

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

End point timeframe:

Baseline and Week 26

| End point values | Pegcetacoplan | Standard of Care | | |
|-------------------------------------|----------------------|----------------------|--|--|
| Subject group type | Reporting group | Reporting group | | |
| Number of subjects analysed | 35 | 18 | | |
| Units: scores on a scale | | | | |
| least squares mean (standard error) | 18.90 (\pm 2.909) | -2.85 (\pm 5.703) | | |

Statistical analyses

| Statistical analysis title | Treatment difference in EORTC QLC-C30 score |
|---|---|
| Comparison groups | Pegcetacoplan v Standard of Care |
| Number of subjects included in analysis | 53 |
| Analysis specification | Pre-specified |
| Analysis type | superiority |
| P-value | = 0.0006 ^[10] |
| Method | ANCOVA |
| Parameter estimate | LS mean difference |
| Point estimate | 21.75 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | 9.35 |
| upper limit | 34.16 |

Notes:

[10] - P-value for baseline, strata and treatment is from LS mean of proc mixed and proc mianalyze based on parameter estimates.

Secondary: Change From Baseline in Linear Analog Assessment (LASA) Scales Score at Week 26

| | |
|------------------------|--|
| End point title | Change From Baseline in Linear Analog Assessment (LASA) Scales Score at Week 26 |
| End point description: | The LASA consisted of 3 items asking respondents to rate their perceived level of functioning. Specific domains include activity level, ability to carry out daily activities, and an item for overall QOL. Their level of functioning was reported on a 0-100 scale with 0 representing "As low as could be" and 100 representing "As high as could be". The ITT set included all subjects assigned to treatment. |
| End point type | Secondary |
| End point timeframe: | Baseline and Week 26 |

| End point values | Pegcetacoplan | Standard of Care | | |
|-------------------------------------|----------------------|-----------------------|--|--|
| Subject group type | Reporting group | Reporting group | | |
| Number of subjects analysed | 35 | 18 | | |
| Units: scores on scale | | | | |
| least squares mean (standard error) | 50.39 (\pm 9.062) | -5.39 (\pm 17.689) | | |

Statistical analyses

| Statistical analysis title | LASA Scores |
|---|----------------------------------|
| Comparison groups | Pegcetacoplan v Standard of Care |
| Number of subjects included in analysis | 53 |
| Analysis specification | Pre-specified |
| Analysis type | superiority |
| P-value | = 0.005 ^[11] |
| Method | ANCOVA |
| Parameter estimate | LS mean difference |
| Point estimate | 55.79 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | 16.83 |
| upper limit | 94.74 |

Notes:

[11] - P-value for baseline, strata and treatment is from LS mean of proc mixed and proc mianalyze based on parameter estimates.

Secondary: Percentage of Subjects with ARC Normalization

| End point title | Percentage of Subjects with ARC Normalization |
|------------------------|---|
| End point description: | Absolute reticulocyte count normalization is defined as ARC < 1xupper limit of normal (ULN) of the gender-specific normal range at week 26 in the absence of transfusion. Subjects who received a transfusion or withdraw from study or escaped from SoC to pegcetacoplan treatment group or lost to follow up without providing efficacy data at Week 26 were classified as non-responders. Transfusion refers to any transfusion of PRBC, LDPRC, LPRC, LPB or whole blood. The ITT set included all subjects assigned to treatment. |
| End point type | Secondary |
| End point timeframe: | |
| At Week 26 | |

| End point values | Pegcetacoplan | Standard of Care | | |
|-------------------------------|-----------------|------------------|--|--|
| Subject group type | Reporting group | Reporting group | | |
| Number of subjects analysed | 35 | 18 | | |
| Units: percentage of subjects | | | | |
| number (not applicable) | 60.0 | 5.6 | | |

Statistical analyses

| | |
|---|---|
| Statistical analysis title | Treatment difference in ARC Normalization |
| Comparison groups | Pegcetacoplan v Standard of Care |
| Number of subjects included in analysis | 53 |
| Analysis specification | Pre-specified |
| Analysis type | superiority |
| P-value | = 0.0002 ^[12] |
| Method | Cochran-Mantel-Haenszel |
| Parameter estimate | Difference |
| Point estimate | 0.4639 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | 0.2529 |
| upper limit | 0.675 |

Notes:

[12] - Cochran-Mantel-Haenszel test is stratified by number of PRBC within 12 months prior to screening (<4, ≥ 4) reported in EDC data.

Secondary: Number of Subjects with Failure of Hb Stabilization

| | |
|---|---|
| End point title | Number of Subjects with Failure of Hb Stabilization |
| End point description: | |
| Hb stabilization is defined as avoidance of a >1 g/dL decrease in Hb levels from baseline through Week 26 in the absence of transfusion. Transfusion refers to any transfusion of PRBC, LDPRC, LPRC, LPB or whole blood. The ITT set included all subjects assigned to treatment. | |
| End point type | Secondary |
| End point timeframe: | |
| Up to Week 26 | |

| | | | | |
|-----------------------------|-----------------|------------------|--|--|
| End point values | Pegcetacoplan | Standard of Care | | |
| Subject group type | Reporting group | Reporting group | | |
| Number of subjects analysed | 35 | 18 | | |
| Units: subjects | | | | |
| number (not applicable) | 4 | 18 | | |

Statistical analyses

| | |
|-----------------------------------|--|
| Statistical analysis title | Treatment difference in Hb stabilization failure |
| Comparison groups | Pegcetacoplan v Standard of Care |

| | |
|---|--------------------------|
| Number of subjects included in analysis | 53 |
| Analysis specification | Pre-specified |
| Analysis type | superiority |
| P-value | < 0.0001 ^[13] |
| Method | Stratified Wilcoxon |
| Parameter estimate | Stratified Hazard Ratio |
| Point estimate | 0.02 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | 0.004 |
| upper limit | 0.091 |

Notes:

[13] - Hazard ratio is based on cox proportional hazards model.

Secondary: Time to First PRBC Transfusion

| | |
|--|--------------------------------|
| End point title | Time to First PRBC Transfusion |
| End point description: | |
| Time to first-on-study PRBC transfusions during RCP were reported. Here 9999 indicates not estimable. The ITT set included all subjects assigned to treatment. | |
| End point type | Secondary |
| End point timeframe: | |
| Up to Week 26 | |

| End point values | Pegcetacoplan | Standard of Care | | |
|----------------------------------|---------------------|-------------------------|--|--|
| Subject group type | Reporting group | Reporting group | | |
| Number of subjects analysed | 35 | 18 | | |
| Units: weeks | | | | |
| median (confidence interval 95%) | 9999 (9999 to 9999) | 7.000 (4.143 to 10.286) | | |

Statistical analyses

| | |
|---|----------------------------------|
| Statistical analysis title | Time to First PRBC Transfusion |
| Comparison groups | Pegcetacoplan v Standard of Care |
| Number of subjects included in analysis | 53 |
| Analysis specification | Pre-specified |
| Analysis type | superiority |
| P-value | < 0.0001 |
| Method | Stratified Wilcoxon |
| Parameter estimate | Stratified Hazard Ratio |
| Point estimate | 0.025 |

| | |
|---------------------|---------|
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | 0.005 |
| upper limit | 0.121 |

Adverse events

Adverse events information

Timeframe for reporting adverse events:

Treatment-emergent adverse events were reported from the first dose of study medication and for up to 8 weeks after the last dose of study medication, approximately 34 weeks.

Adverse event reporting additional description:

The safety set included all subjects who received at least 1 dose of pegcetacoplan and all subjects who were randomized to SoC. Overall Pegcetacoplan included 11 subjects who escaped from the SoC group to pegcetacoplan group.

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

Dictionary used

| | |
|--------------------|--------|
| Dictionary name | MedDRA |
| Dictionary version | 23.0 |

Reporting groups

| | |
|-----------------------|-----------------------|
| Reporting group title | Overall Pegcetacoplan |
|-----------------------|-----------------------|

Reporting group description:

Subjects were received SC infusion of pegcetacoplan 1080 mg twice weekly or every 3 days up to end of the RCP (Week 26). Subjects were not allowed to receive treatment with other complement inhibitors. During the study, any subject assigned to the SoC reporting group (excluding complement inhibitors) who had an Hb concentration ≥ 2 g/dL below baseline or who presented with a qualifying thromboembolic event secondary to PNH was offered early escape therapy with pegcetacoplan.

| | |
|-----------------------|------------------|
| Reporting group title | Standard of Care |
|-----------------------|------------------|

Reporting group description:

Subjects continued to receive SoC treatment but were not allowed to receive treatment with a complement inhibitor unless they qualified for pegcetacoplan escape therapy.

| Serious adverse events | Overall Pegcetacoplan | Standard of Care | |
|---|-----------------------|------------------|--|
| Total subjects affected by serious adverse events | | | |
| subjects affected / exposed | 6 / 46 (13.04%) | 3 / 18 (16.67%) | |
| number of deaths (all causes) | 1 | 1 | |
| number of deaths resulting from adverse events | 1 | 1 | |
| Congenital, familial and genetic disorders | | | |
| Dermoid cyst | | | |
| subjects affected / exposed | 1 / 46 (2.17%) | 0 / 18 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Blood and lymphatic system disorders | | | |
| Febrile neutropenia | | | |
| subjects affected / exposed | 1 / 46 (2.17%) | 1 / 18 (5.56%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 1 | |
| Neutropenia | | | |

| | | | |
|--|----------------|----------------|--|
| subjects affected / exposed | 1 / 46 (2.17%) | 0 / 18 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Pancytopenia | | | |
| subjects affected / exposed | 1 / 46 (2.17%) | 0 / 18 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Bone marrow failure | | | |
| subjects affected / exposed | 0 / 46 (0.00%) | 1 / 18 (5.56%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Thrombocytopenia | | | |
| subjects affected / exposed | 0 / 46 (0.00%) | 1 / 18 (5.56%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 1 | |
| Haemolysis | | | |
| subjects affected / exposed | 1 / 46 (2.17%) | 0 / 18 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Anaemia | | | |
| subjects affected / exposed | 1 / 46 (2.17%) | 0 / 18 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Respiratory, thoracic and mediastinal disorders | | | |
| Respiratory failure | | | |
| subjects affected / exposed | 0 / 46 (0.00%) | 1 / 18 (5.56%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 1 | |
| Hepatobiliary disorders | | | |
| Bile duct stone | | | |
| subjects affected / exposed | 1 / 46 (2.17%) | 0 / 18 (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 Pneumocystis jirovecii pneumonia subjects affected / exposed occurrences causally related to treatment / all deaths causally related to treatment / all | 0 / 46 (0.00%) 0 / 0 0 / 0 | 1 / 18 (5.56%) 0 / 1 0 / 0 | |
| Septic shock subjects affected / exposed occurrences causally related to treatment / all deaths causally related to treatment / all | 1 / 46 (2.17%) 0 / 1 0 / 1 | 1 / 18 (5.56%) 0 / 1 0 / 1 | |
| Herpes virus infection subjects affected / exposed occurrences causally related to treatment / all deaths causally related to treatment / all | 0 / 46 (0.00%) 0 / 0 0 / 0 | 1 / 18 (5.56%) 0 / 1 0 / 1 | |
| Pulmonary tuberculosis subjects affected / exposed occurrences causally related to treatment / all deaths causally related to treatment / all | 0 / 46 (0.00%) 0 / 0 0 / 0 | 1 / 18 (5.56%) 0 / 1 0 / 1 | |
| Urinary tract infection subjects affected / exposed occurrences causally related to treatment / all deaths causally related to treatment / all | 0 / 46 (0.00%) 0 / 0 0 / 0 | 1 / 18 (5.56%) 0 / 1 0 / 1 | |
| Metabolism and nutrition disorders Metabolic acidosis subjects affected / exposed occurrences causally related to treatment / all deaths causally related to treatment / all | 0 / 46 (0.00%) 0 / 0 0 / 0 | 1 / 18 (5.56%) 0 / 1 0 / 0 | |

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

| Non-serious adverse events | Overall Pegcetacoplan | Standard of Care | |
|---|--------------------------|------------------|--|
| Total subjects affected by non-serious adverse events | | | |
| subjects affected / exposed | 35 / 46 (76.09%) | 12 / 18 (66.67%) | |
| General disorders and administration site conditions | | | |

| | | | |
|---|----------------|----------------|--|
| Pyrexia | | | |
| subjects affected / exposed | 4 / 46 (8.70%) | 0 / 18 (0.00%) | |
| occurrences (all) | 4 | 0 | |
| Fatigue | | | |
| subjects affected / exposed | 1 / 46 (2.17%) | 1 / 18 (5.56%) | |
| occurrences (all) | 1 | 2 | |
| Malaise | | | |
| subjects affected / exposed | 0 / 46 (0.00%) | 1 / 18 (5.56%) | |
| occurrences (all) | 0 | 1 | |
| Respiratory, thoracic and mediastinal disorders | | | |
| Cough | | | |
| subjects affected / exposed | 3 / 46 (6.52%) | 0 / 18 (0.00%) | |
| occurrences (all) | 3 | 0 | |
| Epistaxis | | | |
| subjects affected / exposed | 3 / 46 (6.52%) | 0 / 18 (0.00%) | |
| occurrences (all) | 3 | 0 | |
| Dyspnoea | | | |
| subjects affected / exposed | 1 / 46 (2.17%) | 1 / 18 (5.56%) | |
| occurrences (all) | 1 | 1 | |
| Oropharyngeal discomfort | | | |
| subjects affected / exposed | 1 / 46 (2.17%) | 1 / 18 (5.56%) | |
| occurrences (all) | 1 | 1 | |
| Rhinitis allergic | | | |
| subjects affected / exposed | 1 / 46 (2.17%) | 1 / 18 (5.56%) | |
| occurrences (all) | 1 | 1 | |
| Psychiatric disorders | | | |
| Anxiety | | | |
| subjects affected / exposed | 0 / 46 (0.00%) | 1 / 18 (5.56%) | |
| occurrences (all) | 0 | 1 | |
| Investigations | | | |
| Blood creatinine increased | | | |
| subjects affected / exposed | 3 / 46 (6.52%) | 0 / 18 (0.00%) | |
| occurrences (all) | 3 | 0 | |
| Injury, poisoning and procedural complications | | | |
| Skin abrasion | | | |

| | | | |
|--|---------------------|---------------------|--|
| subjects affected / exposed occurrences (all) | 0 / 46 (0.00%) 0 | 1 / 18 (5.56%) 1 | |
| Nervous system disorders | | | |
| Dizziness | | | |
| subjects affected / exposed | 5 / 46 (10.87%) | 0 / 18 (0.00%) | |
| occurrences (all) | 10 | 0 | |
| Headache | | | |
| subjects affected / exposed | 4 / 46 (8.70%) | 0 / 18 (0.00%) | |
| occurrences (all) | 9 | 0 | |
| Somnolence | | | |
| subjects affected / exposed | 3 / 46 (6.52%) | 0 / 18 (0.00%) | |
| occurrences (all) | 3 | 0 | |
| Blood and lymphatic system disorders | | | |
| Anaemia | | | |
| subjects affected / exposed | 3 / 46 (6.52%) | 1 / 18 (5.56%) | |
| occurrences (all) | 3 | 1 | |
| Haemolysis | | | |
| subjects affected / exposed | 3 / 46 (6.52%) | 0 / 18 (0.00%) | |
| occurrences (all) | 3 | 0 | |
| Thrombocytopenia | | | |
| subjects affected / exposed | 3 / 46 (6.52%) | 0 / 18 (0.00%) | |
| occurrences (all) | 3 | 0 | |
| Gastrointestinal disorders | | | |
| Abdominal pain | | | |
| subjects affected / exposed | 3 / 46 (6.52%) | 0 / 18 (0.00%) | |
| occurrences (all) | 3 | 0 | |
| Abdominal pain upper | | | |
| subjects affected / exposed | 3 / 46 (6.52%) | 1 / 18 (5.56%) | |
| occurrences (all) | 4 | 1 | |
| Dyspepsia | | | |
| subjects affected / exposed | 1 / 46 (2.17%) | 1 / 18 (5.56%) | |
| occurrences (all) | 1 | 1 | |
| Skin and subcutaneous tissue disorders | | | |
| Ecchymosis | | | |
| subjects affected / exposed | 3 / 46 (6.52%) | 0 / 18 (0.00%) | |
| occurrences (all) | 4 | 0 | |
| Erythema | | | |

| | | | |
|--|----------------------|----------------------|--|
| subjects affected / exposed occurrences (all) | 3 / 46 (6.52%) 4 | 0 / 18 (0.00%) 0 | |
| Renal and urinary disorders Acute kidney injury subjects affected / exposed occurrences (all) | 0 / 46 (0.00%) 0 | 1 / 18 (5.56%) 1 | |
| Musculoskeletal and connective tissue disorders Pain in extremity subjects affected / exposed occurrences (all) | 6 / 46 (13.04%) 8 | 0 / 18 (0.00%) 0 | |
| Arthralgia subjects affected / exposed occurrences (all) | 5 / 46 (10.87%) 9 | 0 / 18 (0.00%) 0 | |
| Musculoskeletal pain subjects affected / exposed occurrences (all) | 3 / 46 (6.52%) 5 | 0 / 18 (0.00%) 0 | |
| Plantar fasciitis subjects affected / exposed occurrences (all) | 0 / 46 (0.00%) 0 | 1 / 18 (5.56%) 1 | |
| Infections and infestations Viral infection subjects affected / exposed occurrences (all) | 3 / 46 (6.52%) 3 | 0 / 18 (0.00%) 0 | |
| Upper respiratory tract infection subjects affected / exposed occurrences (all) | 1 / 46 (2.17%) 1 | 2 / 18 (11.11%) 2 | |
| Influenza subjects affected / exposed occurrences (all) | 0 / 46 (0.00%) 0 | 1 / 18 (5.56%) 1 | |
| Urinary tract infection subjects affected / exposed occurrences (all) | 0 / 46 (0.00%) 0 | 1 / 18 (5.56%) 1 | |
| Metabolism and nutrition disorders Hypokalaemia subjects affected / exposed occurrences (all) | 6 / 46 (13.04%) 7 | 2 / 18 (11.11%) 2 | |

| | | | |
|-----------------------------|----------------|----------------|--|
| Hyperuricaemia | | | |
| subjects affected / exposed | 1 / 46 (2.17%) | 1 / 18 (5.56%) | |
| occurrences (all) | 1 | 1 | |
| Dehydration | | | |
| subjects affected / exposed | 0 / 46 (0.00%) | 1 / 18 (5.56%) | |
| occurrences (all) | 0 | 1 | |

More information

Substantial protocol amendments (globally)

Were there any global substantial amendments to the protocol? Yes

| Date | Amendment |
|---------------|---|
| 05 March 2019 | <p>Amended to update throughout to mandate prophylactic antibiotic therapy for 14 days post vaccination.</p> <p>Definitions of coprimary objectives/endpoints were clarified.</p> <p>Secondary objectives were re-ordered.</p> <p>The following secondary objective was added: Normalization of Hb levels (defined as $\geq 1 \times$ ULN) from Baseline at Week 26 in the absence of transfusions (Yes/No).</p> <p>The following safety objective was added to correct an error of omission: Incidence of anti-APL2 antibodies.</p> <p>To ensure equal distribution of baseline characteristics across treatment groups, stratification at randomization was clarified: Randomization were stratified by the following values: number of PRBC transfusions within the 12 months prior to screening (≤ 4; > 4) (ie, number of transfusion events regardless of PRBC units transfused).</p> <p>The following inclusion criterion was modified to exclude subjects with Class 2 or greater obesity from enrolling in the study (subjects with a body mass index ≥ 35.0 kilogram per square meter, as defined by the US Centers for Disease Control and Prevention's criteria [CDC 2016]).</p> <p>The criteria for escape therapy was clarified as follows: Following Visit 2 (Week 0), subjects assigned to the SoC (excluding complement inhibitors) treatment arm who have an Hb level measured by the central laboratory that is ≥ 2 g/dL below the Baseline value will be offered the opportunity to receive escape therapy with APL-2.</p> <p>Pharmacokinetic (PK) assessment was changed to Weeks 0, 4, 8, 12, 20, 26, and 30.</p> <p>Complement profile assessment (total hemolytic complement activity assay, alternative pathway hemolytic complement activity assay) was changed to Weeks 0, 4, 8, 12, 20, 26, and 30.</p> <p>The C3 assessment was separated out from complement profile and changed to every clinic visit except screening and APL-2 Initiation Visit.</p> |
| 20 May 2020 | <p>Added coronavirus disease 2019 (COVID-19) pandemic-related information.</p> <p>The PK sample collection and complement profile sample collection timepoints shown on the schedule of events were updated to accurately reflect changes made in Amendment 1. The Week 2 draw was removed and a Week 8 draw was added for both PK and complement sample collection.</p> <p>Added benefit/risk information regarding pegcetacoplan use and the potential risks/complications with COVID-19.</p> <p>Deleted the following as a secondary objective: Change from Baseline to Week 26 in Hb level.</p> <p>Added information related to an altitude correction factor for Hb in subjects living at altitudes ≥ 1000 meters above sea level.</p> <p>A typo in the PRBC transfusion stratification categories (was changed from [≤ 4; > 4] to [< 4, ≥ 4]) was corrected.</p> <p>The statement regarding scheduling of data monitoring committee meetings was removed to allow scheduling flexibility.</p> <p>The LDH criterion for dose increase was changed in order to allow consideration of more frequent dosing to occur after 1 instance of an LDH result of $\geq 2 \times$ ULN, instead of 2 consecutive occasions at least one week apart.</p> <p>It was clarified that serious adverse event not considered related to study drug, or in subjects randomized to the SoC, do not have to be reported to regulatory authorities.</p> |

| | |
|----------------|---|
| 10 August 2020 | Removed language regarding an altitude correction factor for Hb because no subjects enrolled in the study live at altitudes ≥ 1000 meters above sea level. Added a section regarding the collection of COVID-19 test results. Added a new section, regarding drug abuse, misuse, overdose, and medication error. |
|----------------|---|

Notes:

Interruptions (globally)

Were there any global interruptions to the trial? No

Limitations and caveats

None reported