



## Clinical trial results:

### **A Multicentre, Randomised, Double-blind, Parallel-group, Placebo-controlled, 52-Week, Phase III Study with an Open-label Extension to Evaluate the Efficacy and Safety of Benralizumab in Patients with Non-Cystic Fibrosis Bronchiectasis (MAHALE)**

#### **Summary**

|                          |                |
|--------------------------|----------------|
| EudraCT number           | 2020-004068-24 |
| Trial protocol           | DK DE PL IT    |
| Global end of trial date | 16 April 2024  |

#### **Results information**

|                                |              |
|--------------------------------|--------------|
| Result version number          | v1 (current) |
| This version publication date  | 02 May 2025  |
| First version publication date | 02 May 2025  |

#### **Trial information**

##### **Trial identification**

|                       |             |
|-----------------------|-------------|
| Sponsor protocol code | D325BC00001 |
|-----------------------|-------------|

##### **Additional study identifiers**

|                                    |             |
|------------------------------------|-------------|
| ISRCTN number                      | -           |
| ClinicalTrials.gov id (NCT number) | NCT05006573 |
| WHO universal trial number (UTN)   | -           |

Notes:

##### **Sponsors**

|                              |  |
|------------------------------|--|
| Sponsor organisation name    | AstraZeneca  |
| Sponsor organisation address | 151 85, Sodertalje, Sweden,  |
| Public contact               | AstraZeneca Information Center, AstraZeneca, +1 8002369933, information.center@astrazeneca.com |
| Scientific contact           | Global Clinical Head, AstraZeneca, +1 8772409479, information.center@astrazeneca.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 June 2024  |
| Is this the analysis of the primary completion data? | No            |
| Global end of trial reached?                         | Yes           |
| Global end of trial date                             | 16 April 2024 |
| Was the trial ended prematurely?                     | Yes           |

Notes:

## General information about the trial

Main objective of the trial:

To evaluate the effect of benralizumab 30 mg Q4W on bronchiectasis exacerbations

Protection of trial subjects:

This study is conducted in accordance with the protocol and with the following: Consensus ethical principles derived from international guidelines including the Declaration of Helsinki and Council for International Organizations of Medical Sciences International Ethical Guidelines; Applicable International Conference on Harmonisation (ICH)/Good Clinical Practice (GCP) Guidelines; Applicable laws and regulations. The protocol, protocol amendments, Informed Consent Form (ICF), Investigator Brochure, and other relevant documents (e.g. advertisements) must be submitted to an Institutional Review Board/Independent Ethics Committee (IRB/IEC) by the Investigator and reviewed and approved by the IRB/IEC before the study is initiated. Any amendments to the protocol will require IRB/IEC approval before implementation of changes made to the study design, except for changes necessary to eliminate an immediate hazard to study patients. Where applicable as per relevant laws and regulations, amendments will also be submitted to, reviewed and approved by regulatory authorities/national competent authorities.

Background therapy: -

Evidence for comparator: -

|   |                                       |
|---|---------------------------------------|
| Actual start date of recruitment                          | 21 July 2021                          |
| Long term follow-up planned                               | Yes                                   |
| Long term follow-up rationale                             | Safety, Efficacy, Scientific research |
| Long term follow-up duration                              | 8 Months                              |
| Independent data monitoring committee (IDMC) involvement? | No                                    |

Notes:

## Population of trial subjects

### Subjects enrolled per country

|                                      |                        |
|--------------------------------------|------------------------|
| Country: Number of subjects enrolled | United States: 6       |
| Country: Number of subjects enrolled | Canada: 5              |
| Country: Number of subjects enrolled | China: 6               |
| Country: Number of subjects enrolled | India: 5               |
| Country: Number of subjects enrolled | Philippines: 3         |
| Country: Number of subjects enrolled | Korea, Republic of: 11 |
| Country: Number of subjects enrolled | Viet Nam: 19           |
| Country: Number of subjects enrolled | Argentina: 12          |
| Country: Number of subjects enrolled | Australia: 16          |
| Country: Number of subjects enrolled | Denmark: 15            |
| Country: Number of subjects enrolled | Germany: 4             |
| Country: Number of subjects enrolled | Italy: 7               |

|                                      |                        |
|--------------------------------------|------------------------|
| Country: Number of subjects enrolled | Poland: 8              |
| Country: Number of subjects enrolled | Russian Federation: 13 |
| Country: Number of subjects enrolled | Spain: 8               |
| Country: Number of subjects enrolled | United Kingdom: 1      |
| Worldwide total number of subjects   | 139                    |
| EEA total number of subjects         | 42                     |

Notes:

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### **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)                      | 77 |
| From 65 to 84 years                       | 62 |
| 85 years and over                         | 0  |

## Subject disposition

### Recruitment

Recruitment details:

100 participants were randomized to receive treatment in study D325BC00001 (MAHALE) with benralizumab 30 mg or placebo. Of the 100 patients randomized, 99 (99%) received treatment with study drug. 54 (54%) patients received benralizumab 30 mg and 45 (45%) patients received placebo.

### Pre-assignment

Screening details:

All patients completed a screening period of 2 to 6 weeks during which inclusion/exclusion criteria was assessed, disease activity, lung function and patient reported outcomes (PROs) were recorded, medical history and clinical laboratory were taken.

### Period 1

|                              |   |
|------------------------------|---|
| Period 1 title               | Double-blind treatment 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                |
| <b>Arm title</b>             | Benralizumab 30 mg |

Arm description:

Benralizumab 30 mg injection delivered subcutaneously every 4 weeks

|  |                          |
|--|--------------------------|
| Arm type                               | Experimental             |
| Investigational medicinal product name | Benralizumab             |
| Investigational medicinal product code |                          |
| Other name                             | Fasenra                  |
| Pharmaceutical forms                   | Suspension for injection |
| Routes of administration               | Subcutaneous use         |

Dosage and administration details:

Benralizumab 30 mg administered subcutaneously every 4 weeks

|                  |         |
|------------------|---------|
| <b>Arm title</b> | Placebo |
|------------------|---------|

Arm description:

Matching placebo injection delivered subcutaneously every 4 weeks

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

Dosage and administration details:

Matching placebo administered subcutaneously every 4 weeks

| <b>Number of subjects in period 1</b> <sup>[1]</sup> | Benralizumab 30 mg | Placebo |
|--|--------------------|---------|
| Started  | 54                 | 45      |
| Completed  | 42                 | 42      |
| Not completed  | 12                 | 3       |
| Physician decision                                   | 2                  | -       |
| Consent withdrawn by subject                         | 7                  | 2       |
| other reasons  | -                  | 1       |
| Study terminated by sponsor                          | 1                  | -       |
| Protocol deviation                                   | 2                  | -       |

Notes:

[1] - The number of subjects reported to be in the baseline period are not the same as the worldwide number enrolled in the trial. It is expected that these numbers will be the same.

Justification: Not every enrolled participant got dosed. Some participants enrolled (signed consent) but failed screening so they did not start double-blind treatment period.

## Period 2

|                              |                             |
|------------------------------|-----------------------------|
| Period 2 title               | Open-label extension period |
| Is this the baseline period? | No                          |
| Allocation method            | Not applicable              |
| Blinding used                | Not blinded                 |

## Arms

|                              |                    |
|------------------------------|--------------------|
| Are arms mutually exclusive? | Yes                |
| <b>Arm title</b>             | Benralizumab 30 mg |

Arm description:

Benralizumab 30 mg injection delivered subcutaneously every 4 weeks

|  |                          |
|--|--------------------------|
| Arm type                               | Experimental             |
| Investigational medicinal product name | Benralizumab             |
| Investigational medicinal product code |                          |
| Other name                             | Fasenra                  |
| Pharmaceutical forms                   | Suspension for injection |
| Routes of administration               | Subcutaneous use         |

Dosage and administration details:

Benralizumab 30 mg administered subcutaneously every 4 weeks

|                  |  |
|------------------|--|
| <b>Arm title</b> | Placebo switched to Benralizumab 30 mg |
|------------------|--|

Arm description:

Subjects who received placebo in the double-blind period switched to Benralizumab 30 mg injection delivered subcutaneously every 4 weeks in open-label extension period

|  |                          |
|--|--------------------------|
| Arm type                               | Experimental             |
| Investigational medicinal product name | Benralizumab             |
| Investigational medicinal product code |                          |
| Other name                             | Fasenra                  |
| Pharmaceutical forms                   | Suspension for injection |
| Routes of administration               | Subcutaneous use         |

Dosage and administration details:

Benralizumab 30 mg administered subcutaneously every 4 weeks

| <b>Number of subjects in period<br/>2<sup>[2]</sup></b> | Benralizumab 30 mg | Placebo switched to<br>Benralizumab 30 mg |
|---|--------------------|---|
|   | Started            | 38  |
| Completed   | 38                 | 39  |
| Not completed   | 0                  | 1   |
| other reason  | -                  | 1   |

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Notes:

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

Justification: Not all participants enrolled in the open-label extension period.

## Baseline characteristics

### Reporting groups

|   |                    |
|---|--------------------|
| Reporting group title   | Benralizumab 30 mg |
| Reporting group description:<br>Benralizumab 30 mg injection delivered subcutaneously every 4 weeks |                    |
| Reporting group title   | Placebo            |
| Reporting group description:<br>Matching placebo injection delivered subcutaneously every 4 weeks   |                    |

| Reporting group values                    | Benralizumab 30 mg | Placebo | Total |
|---|--------------------|---------|-------|
| Number of subjects                        | 54                 | 45      | 99    |
| Age Categorical                           |                    |         |       |
| Units: participants                       |                    |         |       |
| >= 18 to <= 65 years                      | 34                 | 21      | 55    |
| > 65 years                                | 20                 | 24      | 44    |
| Age Continuous                            |                    |         |       |
| Units: years                              |                    |         |       |
| arithmetic mean                           | 59.2               | 59.2    |       |
| standard deviation                        | ± 13.14            | ± 15.49 | -     |
| Sex: Female, Male                         |                    |         |       |
| Units:                                    |                    |         |       |
| Female                                    | 37                 | 35      | 72    |
| Male                                      | 17                 | 10      | 27    |
| Race (NIH/OMB)                            |                    |         |       |
| Units: Subjects                           |                    |         |       |
| American Indian or Alaska Native          | 0                  | 0       | 0     |
| Asian                                     | 17                 | 14      | 31    |
| Native Hawaiian or Other Pacific Islander | 0                  | 0       | 0     |
| Black or African American                 | 0                  | 0       | 0     |
| White                                     | 36                 | 31      | 67    |
| More than one race                        | 1                  | 0       | 1     |
| Unknown or Not Reported                   | 0                  | 0       | 0     |
| Ethnicity (NIH/OMB)                       |                    |         |       |
| Units: Subjects                           |                    |         |       |
| Hispanic or Latino                        | 4                  | 7       | 11    |
| Not Hispanic or Latino                    | 50                 | 38      | 88    |
| Unknown or Not Reported                   | 0                  | 0       | 0     |

### Subject analysis sets

|   |                   |
|---|-------------------|
| Subject analysis set title  | Full Analysis Set |
| Subject analysis set type   | Full analysis     |
| Subject analysis set description:<br>All participants who were randomized and received any Investigational Product. |                   |

| <b>Reporting group values</b>             | Full Analysis Set |  |  |
|---|-------------------|--|--|
| Number of subjects                        | 99                |  |  |
| Age Categorical<br>Units: participants    |                   |  |  |
| >= 18 to <= 65 years                      | 55                |  |  |
| > 65 years                                | 44                |  |  |
| Age Continuous<br>Units: years            |                   |  |  |
| arithmetic mean                           | 59.2              |  |  |
| standard deviation                        | ± 14.18           |  |  |
| Sex: Female, Male<br>Units:               |                   |  |  |
| Female                                    | 72                |  |  |
| Male                                      | 27                |  |  |
| Race (NIH/OMB)<br>Units: Subjects         |                   |  |  |
| American Indian or Alaska Native          | 0                 |  |  |
| Asian                                     | 31                |  |  |
| Native Hawaiian or Other Pacific Islander | 0                 |  |  |
| Black or African American                 | 0                 |  |  |
| White                                     | 67                |  |  |
| More than one race                        | 1                 |  |  |
| Unknown or Not Reported                   | 0                 |  |  |
| Ethnicity (NIH/OMB)<br>Units: Subjects    |                   |  |  |
| Hispanic or Latino                        | 11                |  |  |
| Not Hispanic or Latino                    | 88                |  |  |
| Unknown or Not Reported                   | 0                 |  |  |

## End points

### End points reporting groups

|                                   |   |
|-----------------------------------|---|
| Reporting group title             | Benralizumab 30 mg  |
| Reporting group description:      | Benralizumab 30 mg injection delivered subcutaneously every 4 weeks   |
| Reporting group title             | Placebo   |
| Reporting group description:      | Matching placebo injection delivered subcutaneously every 4 weeks   |
| Reporting group title             | Benralizumab 30 mg  |
| Reporting group description:      | Benralizumab 30 mg injection delivered subcutaneously every 4 weeks   |
| Reporting group title             | Placebo switched to Benralizumab 30 mg  |
| Reporting group description:      | Subjects who received placebo in the double-blind period switched to Benralizumab 30 mg injection delivered subcutaneously every 4 weeks in open-label extension period |
| Subject analysis set title        | Full Analysis Set   |
| Subject analysis set type         | Full analysis   |
| Subject analysis set description: | All participants who were randomized and received any Investigational Product.  |

### Primary: Annualized bronchiectasis exacerbations rate in the double-blind period

|                        |   |
|------------------------|---|
| End point title        | Annualized bronchiectasis exacerbations rate in the double-blind period   |
| End point description: | Annualized Non-Cystic Fibrosis Bronchiectasis (NCFB) exacerbations rate through end of double-blind treatment period. |
| End point type         | Primary   |
| End point timeframe:   | Double-blind period   |

| End point values                             | Benralizumab 30 mg  | Placebo             |  |  |
|--|---------------------|---------------------|--|--|
| Subject group type                           | Reporting group     | Reporting group     |  |  |
| Number of subjects analysed                  | 54                  | 45                  |  |  |
| Units: exacerbations per year                |                     |                     |  |  |
| least squares mean (confidence interval 95%) | 1.44 (1.05 to 1.97) | 1.27 (0.89 to 1.80) |  |  |

### Statistical analyses

|                                   |   |
|-----------------------------------|---|
| Statistical analysis title        | negative binomial model   |
| Statistical analysis description: | The rate ratio (Benralizumab/Placebo) and its 95% CI are estimated using a negative binomial model. The covariates include treatment arm, baseline blood eosinophil category, and number of exacerbations from previous year. |
| Comparison groups                 | Benralizumab 30 mg v Placebo  |

|   |                            |
|---|----------------------------|
| Number of subjects included in analysis | 99                         |
| Analysis specification                  | Pre-specified              |
| Analysis type                           | superiority <sup>[1]</sup> |
| P-value                                 | = 0.5911                   |
| Method                                  | negative binomial model    |
| Parameter estimate                      | Risk ratio (RR)            |
| Point estimate                          | 1.14                       |
| Confidence interval                     |                            |
| level                                   | 95 %                       |
| sides                                   | 2-sided                    |
| lower limit                             | 0.71                       |
| upper limit                             | 1.82                       |

Notes:

[1] - marginal standardization method is used.

### Secondary: Time to first exacerbation in the double-blind treatment period

|  |   |
|--|---|
| End point title  | Time to first exacerbation in the double-blind treatment period |
| End point description:<br>Time to first NCFB exacerbation in the double-blind treatment period |   |
| End point type   | Secondary   |
| End point timeframe:<br>Double-blind period  |   |

| End point values            | Benralizumab 30 mg | Placebo         |  |  |
|-----------------------------|--------------------|-----------------|--|--|
| Subject group type          | Reporting group    | Reporting group |  |  |
| Number of subjects analysed | 54                 | 45              |  |  |
| Units: participants         | 32                 | 26              |  |  |

### Statistical analyses

|  |                                |
|--|--------------------------------|
| Statistical analysis title   | Cox proportional hazards model |
| Statistical analysis description:<br>The analysis is performed using cox proportional hazards model with covariates of treatment group, number of exacerbations in previous year and baseline eosinophil category. |                                |
| Comparison groups  | Benralizumab 30 mg v Placebo   |
| Number of subjects included in analysis  | 99                             |
| Analysis specification   | Pre-specified                  |
| Analysis type  | superiority                    |
| P-value  | = 0.6677                       |
| Method   | Regression, Cox                |
| Parameter estimate   | Hazard ratio (HR)              |
| Point estimate   | 1.12                           |

|                     |         |
|---------------------|---------|
| Confidence interval |         |
| level               | 95 %    |
| sides               | 2-sided |
| lower limit         | 0.67    |
| upper limit         | 1.91    |

### Secondary: Change from baseline in QoL-B-RSS over the double-blind period

|                 |  |
|-----------------|--|
| End point title | Change from baseline in QoL-B-RSS over the double-blind period |
|-----------------|--|

End point description:

Change from baseline in Quality of Life-Bronchiectasis-Respiratory Symptoms Scale over the double-blind treatment period. QoL-B-RSS scores range from 0 to 100, with higher scores indicative of better health-related quality of life.

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

End point timeframe:

Double-blind period

| End point values                     | Benralizumab<br>30 mg | Placebo         |  |  |
|--------------------------------------|-----------------------|-----------------|--|--|
| Subject group type                   | Reporting group       | Reporting group |  |  |
| Number of subjects analysed          | 54                    | 45              |  |  |
| Units: score                         |                       |                 |  |  |
| arithmetic mean (standard deviation) |                       |                 |  |  |
| Week 2                               | 6.6 (± 12.57)         | 3.1 (± 11.65)   |  |  |
| Week 4                               | 5.8 (± 12.53)         | -1.5 (± 12.49)  |  |  |
| Week 6                               | 6.8 (± 14.39)         | 0.7 (± 10.94)   |  |  |
| Week 8                               | 6.6 (± 14.17)         | 2.1 (± 16.29)   |  |  |
| Week 10                              | 5.3 (± 13.02)         | -1.0 (± 14.46)  |  |  |
| Week 12                              | 7.2 (± 11.47)         | 0.9 (± 15.44)   |  |  |
| Week 14                              | 8.0 (± 12.28)         | 3.7 (± 14.63)   |  |  |
| Week 16                              | 6.2 (± 14.51)         | 1.3 (± 15.79)   |  |  |
| Week 18                              | 8.6 (± 14.41)         | 2.6 (± 18.60)   |  |  |
| Week 20                              | 8.6 (± 15.41)         | 1.4 (± 18.58)   |  |  |
| Week 22                              | 8.4 (± 13.30)         | 3.9 (± 20.33)   |  |  |
| Week 24                              | 9.3 (± 17.31)         | 4.4 (± 17.70)   |  |  |
| Week 26                              | 7.4 (± 15.07)         | 3.8 (± 18.40)   |  |  |
| Week 28                              | 6.5 (± 15.92)         | 2.7 (± 21.33)   |  |  |
| Week 30                              | 7.5 (± 14.26)         | 1.2 (± 17.32)   |  |  |
| Week 32                              | 12.1 (± 14.37)        | 2.4 (± 19.09)   |  |  |
| Week 34                              | 7.6 (± 12.58)         | 2.8 (± 18.90)   |  |  |
| Week 36                              | 9.6 (± 17.44)         | 3.6 (± 19.31)   |  |  |
| Week 38                              | 8.1 (± 14.96)         | 1.3 (± 17.68)   |  |  |
| Week 40                              | 9.6 (± 17.32)         | -1.1 (± 18.50)  |  |  |
| Week 42                              | 7.1 (± 14.93)         | 3.3 (± 16.25)   |  |  |
| Week 44                              | 7.5 (± 15.00)         | 0.8 (± 20.76)   |  |  |
| Week 46                              | 8.6 (± 17.76)         | 3.4 (± 18.89)   |  |  |
| Week 48                              | 8.1 (± 16.75)         | 3.2 (± 20.52)   |  |  |

|         |               |               |  |  |
|---------|---------------|---------------|--|--|
| Week 50 | 9.8 (± 14.63) | 0.1 (± 15.42) |  |  |
| Week 52 | 7.3 (± 17.91) | 0.2 (± 18.12) |  |  |

## Statistical analyses

No statistical analyses for this end point

### Secondary: Change from baseline in pre-dose pre-BD FEV1 over the double-blind treatment period

|                        |   |
|------------------------|---|
| End point title        | Change from baseline in pre-dose pre-BD FEV1 over the double-blind treatment period   |
| End point description: | Change from baseline in pre-dose pre-bronchodilator (BD) forced expiratory volume in one second (FEV1) over the double-blind treatment period |
| End point type         | Secondary   |
| End point timeframe:   | Double-blind period   |

| End point values                     | Benralizumab<br>30 mg | Placebo             |  |  |
|--------------------------------------|-----------------------|---------------------|--|--|
| Subject group type                   | Reporting group       | Reporting group     |  |  |
| Number of subjects analysed          | 54                    | 45                  |  |  |
| Units: liter                         |                       |                     |  |  |
| arithmetic mean (standard deviation) |                       |                     |  |  |
| Week 4                               | 0.0139 (± 0.14327)    | -0.0477 (± 0.10758) |  |  |
| Week 8                               | 0.0048 (± 0.15392)    | -0.0465 (± 0.15263) |  |  |
| Week 16                              | -0.0191 (± 0.15964)   | -0.0282 (± 0.11452) |  |  |
| Week 24                              | -0.0378 (± 0.17290)   | -0.0595 (± 0.16409) |  |  |
| Week 32                              | -0.0248 (± 0.16782)   | -0.0921 (± 0.17543) |  |  |
| Week 40                              | -0.0597 (± 0.18924)   | -0.1037 (± 0.16808) |  |  |
| Week 48                              | -0.1236 (± 0.16353)   | -0.0849 (± 0.13783) |  |  |
| Week 52                              | -0.1093 (± 0.13130)   | -0.1186 (± 0.14969) |  |  |

## Statistical analyses

No statistical analyses for this end point

### Secondary: Change from baseline in LCQ total score over the double-blind period

|                 |   |
|-----------------|---|
| End point title | Change from baseline in LCQ total score over the double-blind |
|-----------------|---|

End point description:

Change from baseline in Leicester Cough Questionnaire (LCQ) total score over the double-blind treatment period. LCQ total scores range from 3 to 21. Higher scores indicate better quality of life.

End point type

Secondary

End point timeframe:

Double-blind period

| <b>End point values</b>              | Benralizumab<br>30 mg | Placebo         |  |  |
|--------------------------------------|-----------------------|-----------------|--|--|
| Subject group type                   | Reporting group       | Reporting group |  |  |
| Number of subjects analysed          | 54                    | 45              |  |  |
| Units: score                         |                       |                 |  |  |
| arithmetic mean (standard deviation) |                       |                 |  |  |
| Week 2                               | 0.5 (± 2.22)          | 0.5 (± 2.13)    |  |  |
| Week 4                               | 0.7 (± 2.35)          | 0.0 (± 2.15)    |  |  |
| Week 6                               | 0.8 (± 2.76)          | 0.6 (± 2.56)    |  |  |
| Week 8                               | 0.8 (± 3.37)          | 0.3 (± 2.85)    |  |  |
| Week 10                              | 1.0 (± 2.77)          | 0.1 (± 2.76)    |  |  |
| Week 12                              | 1.0 (± 2.51)          | 0.4 (± 3.03)    |  |  |
| Week 14                              | 1.4 (± 2.78)          | 0.8 (± 3.16)    |  |  |
| Week 16                              | 0.9 (± 2.61)          | 0.5 (± 3.10)    |  |  |
| Week 18                              | 1.0 (± 3.42)          | 1.1 (± 3.55)    |  |  |
| Week 20                              | 1.4 (± 3.28)          | 0.8 (± 3.39)    |  |  |
| Week 22                              | 0.9 (± 3.32)          | 0.8 (± 4.03)    |  |  |
| Week 24                              | 1.0 (± 3.43)          | 1.2 (± 3.48)    |  |  |
| Week 26                              | 0.9 (± 3.58)          | 1.0 (± 3.54)    |  |  |
| Week 28                              | 0.5 (± 4.31)          | 0.9 (± 4.08)    |  |  |
| Week 30                              | 0.7 (± 3.33)          | 0.8 (± 4.06)    |  |  |
| Week 32                              | 1.8 (± 3.45)          | 0.7 (± 4.14)    |  |  |
| Week 34                              | 0.8 (± 2.43)          | 0.8 (± 3.92)    |  |  |
| Week 36                              | 1.2 (± 3.48)          | 0.8 (± 3.95)    |  |  |
| Week 38                              | 1.0 (± 3.61)          | 0.6 (± 4.24)    |  |  |
| Week 40                              | 1.2 (± 3.93)          | 0.2 (± 3.86)    |  |  |
| Week 42                              | 0.6 (± 3.42)          | 0.3 (± 4.19)    |  |  |
| Week 44                              | 0.5 (± 3.23)          | 0.3 (± 4.02)    |  |  |
| Week 46                              | 0.7 (± 3.68)          | 0.6 (± 4.22)    |  |  |
| Week 48                              | 0.3 (± 3.78)          | 0.5 (± 4.20)    |  |  |
| Week 50                              | 0.7 (± 3.29)          | -0.2 (± 3.41)   |  |  |
| Week 52                              | 0.2 (± 3.94)          | -0.1 (± 2.86)   |  |  |

### Statistical analyses

No statistical analyses for this end point

### Secondary: Change from baseline in QoL-B scales (excluding QoL-B-RSS) over the double-blind period: Physical Functioning Scale

|                        |  |
|------------------------|--|
| End point title        | Change from baseline in QoL-B scales (excluding QoL-B-RSS) over the double-blind period: Physical Functioning Scale  |
| End point description: | change from baseline in Quality of Life-Bronchiectasis (QoL-B) scales (excluding QoL-B-RSS) over the double-blind treatment period: Physical Functioning Scale. QoL-B Physical Functioning Scale scores range from 0 to 100, with higher scores indicative of better health-related quality of life. |
| End point type         | Secondary  |
| End point timeframe:   | Double-blind period  |

| End point values                     | Benralizumab<br>30 mg | Placebo         |  |  |
|--------------------------------------|-----------------------|-----------------|--|--|
| Subject group type                   | Reporting group       | Reporting group |  |  |
| Number of subjects analysed          | 54                    | 45              |  |  |
| Units: score                         |                       |                 |  |  |
| arithmetic mean (standard deviation) |                       |                 |  |  |
| Week 2                               | 0.5 (± 12.23)         | -0.0 (± 16.50)  |  |  |
| Week 4                               | 1.5 (± 17.68)         | 0.8 (± 19.39)   |  |  |
| Week 6                               | 4.1 (± 20.81)         | 0.2 (± 17.97)   |  |  |
| Week 8                               | 3.3 (± 15.07)         | 0.3 (± 20.81)   |  |  |
| Week 10                              | 1.5 (± 19.22)         | 1.0 (± 22.06)   |  |  |
| Week 12                              | 3.1 (± 19.54)         | 0.5 (± 21.89)   |  |  |
| Week 14                              | 4.4 (± 15.48)         | 4.2 (± 22.15)   |  |  |
| Week 16                              | 3.5 (± 18.06)         | 3.3 (± 25.17)   |  |  |
| Week 18                              | 4.8 (± 19.15)         | 2.2 (± 23.01)   |  |  |
| Week 20                              | 4.5 (± 18.45)         | 4.7 (± 25.18)   |  |  |
| Week 22                              | 3.1 (± 19.62)         | 2.2 (± 22.96)   |  |  |
| Week 24                              | 5.2 (± 18.21)         | 4.7 (± 23.03)   |  |  |
| Week 26                              | 3.6 (± 20.68)         | 3.6 (± 24.40)   |  |  |
| Week 28                              | 3.8 (± 24.77)         | 4.8 (± 24.39)   |  |  |
| Week 30                              | 2.5 (± 21.33)         | 4.8 (± 25.50)   |  |  |
| Week 32                              | 6.7 (± 18.80)         | 5.9 (± 24.73)   |  |  |
| Week 34                              | 2.7 (± 19.14)         | 3.5 (± 24.90)   |  |  |
| Week 36                              | 0.6 (± 22.76)         | 4.7 (± 24.78)   |  |  |
| Week 38                              | 1.9 (± 16.40)         | 3.5 (± 23.5)    |  |  |
| Week 40                              | 2.1 (± 23.55)         | 4.1 (± 25.01)   |  |  |
| Week 42                              | 1.3 (± 21.13)         | 5.5 (± 28.92)   |  |  |
| Week 44                              | 0.6 (± 23.62)         | 4.2 (± 24.03)   |  |  |
| Week 46                              | 2.0 (± 22.89)         | 7.9 (± 23.42)   |  |  |
| Week 48                              | 0.0 (± 27.89)         | 7.6 (± 22.98)   |  |  |
| Week 50                              | 5.3 (± 23.46)         | 1.3 (± 21.08)   |  |  |
| Week 52                              | 5.1 (± 23.90)         | 2.1 (± 19.25)   |  |  |

### Statistical analyses

No statistical analyses for this end point

**Secondary: Change from baseline in QoL-B scales (excluding QoL-B-RSS) over the double-blind period: Role Functioning Scale**

|                 |   |
|-----------------|---|
| End point title | Change from baseline in QoL-B scales (excluding QoL-B-RSS) over the double-blind period: Role Functioning Scale |
|-----------------|---|

End point description:

Change from baseline in Quality of Life-Bronchiectasis (QoL-B) scales (excluding QoL-B-RSS) over the double-blind treatment period: Role Functioning Scale. QoL-B Role Functioning Scale scores range from 0 to 100, with higher scores indicative of better health-related quality of life.

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

End point timeframe:

Double-blind period

| End point values                     | Benralizumab<br>30 mg | Placebo         |  |  |
|--------------------------------------|-----------------------|-----------------|--|--|
| Subject group type                   | Reporting group       | Reporting group |  |  |
| Number of subjects analysed          | 54                    | 45              |  |  |
| Units: score                         |                       |                 |  |  |
| arithmetic mean (standard deviation) |                       |                 |  |  |
| Week 2                               | 1.1 (± 13.64)         | -1.2 (± 11.11)  |  |  |
| Week 4                               | 2.8 (± 13.00)         | -0.3 (± 14.53)  |  |  |
| Week 6                               | 2.7 (± 14.80)         | 2.5 (± 12.05)   |  |  |
| Week 8                               | 0.5 (± 16.27)         | 0.2 (± 15.02)   |  |  |
| Week 10                              | 1.2 (± 14.09)         | 2.7 (± 16.32)   |  |  |
| Week 12                              | 1.7 (± 16.36)         | 2.3 (± 16.96)   |  |  |
| Week 14                              | 3.0 (± 16.10)         | 2.1 (± 16.70)   |  |  |
| Week 16                              | 0.1 (± 17.77)         | -0.3 (± 16.60)  |  |  |
| Week 18                              | 2.4 (± 16.93)         | -0.0 (± 17.67)  |  |  |
| Week 20                              | 0.9 (± 16.01)         | 0.5 (± 18.25)   |  |  |
| Week 22                              | 2.8 (± 21.11)         | 4.0 (± 20.47)   |  |  |
| Week 24                              | 1.9 (± 22.60)         | 0.6 (± 19.67)   |  |  |
| Week 26                              | -0.1 (± 21.44)        | 1.2 (± 18.36)   |  |  |
| Week 28                              | -1.9 (± 21.02)        | 2.7 (± 17.79)   |  |  |
| Week 30                              | 1.1 (± 20.83)         | -0.3 (± 19.04)  |  |  |
| Week 32                              | 4.4 (± 15.08)         | 0.2 (± 18.17)   |  |  |
| Week 34                              | 1.4 (± 18.01)         | 1.7 (± 17.97)   |  |  |
| Week 36                              | -0.6 (± 19.18)        | 0.5 (± 16.69)   |  |  |
| Week 38                              | 1.4 (± 18.15)         | -2.2 (± 19.65)  |  |  |
| Week 40                              | 1.7 (± 22.20)         | 0.2 (± 21.80)   |  |  |
| Week 42                              | -1.3 (± 21.48)        | 1.8 (± 20.19)   |  |  |
| Week 44                              | 0.6 (± 25.33)         | -1.4 (± 17.46)  |  |  |
| Week 46                              | 0.4 (± 23.89)         | 4.0 (± 19.00)   |  |  |
| Week 48                              | -1.2 (± 25.03)        | 0.2 (± 18.16)   |  |  |
| Week 50                              | 0.7 (± 21.26)         | -1.9 (± 12.55)  |  |  |
| Week 52                              | -0.8 (± 23.28)        | 1.1 (± 17.81)   |  |  |

**Statistical analyses**

**Secondary: Change from baseline in QoL-B scales (excluding QoL-B-RSS) over the double-blind period: Emotional Functioning Scale**

|                 |  |
|-----------------|--|
| End point title | Change from baseline in QoL-B scales (excluding QoL-B-RSS) over the double-blind period: Emotional Functioning Scale |
|-----------------|--|

## End point description:

Change from baseline in Quality of Life-Bronchiectasis (QoL-B) scales (excluding QoL-B-RSS) over the double-blind treatment period: Emotional Functioning Scale. QoL-B Emotional Functioning Scale scores range from 0 to 100, with higher scores indicative of better health-related quality of life.

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

## End point timeframe:

Double-blind period

| End point values                     | Benralizumab<br>30 mg | Placebo         |  |  |
|--------------------------------------|-----------------------|-----------------|--|--|
| Subject group type                   | Reporting group       | Reporting group |  |  |
| Number of subjects analysed          | 54                    | 45              |  |  |
| Units: score                         |                       |                 |  |  |
| arithmetic mean (standard deviation) |                       |                 |  |  |
| Week 2                               | 0.2 (± 13.63)         | 2.0 (± 17.43)   |  |  |
| Week 4                               | -0.7 (± 14.07)        | 1.4 (± 14.42)   |  |  |
| Week 6                               | 3.5 (± 17.99)         | 4.2 (± 14.98)   |  |  |
| Week 8                               | -1.2 (± 16.84)        | 1.4 (± 17.77)   |  |  |
| Week 10                              | 0.2 (± 16.43)         | -1.0 (± 16.58)  |  |  |
| Week 12                              | 2.8 (± 17.30)         | 1.6 (± 21.38)   |  |  |
| Week 14                              | 4.7 (± 14.31)         | 1.8 (± 20.79)   |  |  |
| Week 16                              | 2.2 (± 16.56)         | 1.2 (± 22.48)   |  |  |
| Week 18                              | 3.2 (± 15.57)         | 3.8 (± 21.68)   |  |  |
| Week 20                              | 3.9 (± 15.82)         | 1.4 (± 22.27)   |  |  |
| Week 22                              | 2.8 (± 18.46)         | 2.1 (± 23.09)   |  |  |
| Week 24                              | 2.4 (± 17.80)         | 2.9 (± 19.32)   |  |  |
| Week 26                              | 3.0 (± 17.15)         | 4.3 (± 22.00)   |  |  |
| Week 28                              | 0.4 (± 25.82)         | 1.6 (± 24.43)   |  |  |
| Week 30                              | 2.7 (± 22.55)         | 1.5 (± 23.79)   |  |  |
| Week 32                              | 4.0 (± 15.82)         | 3.0 (± 22.42)   |  |  |
| Week 34                              | 1.4 (± 19.64)         | 1.9 (± 23.23)   |  |  |
| Week 36                              | 1.9 (± 17.89)         | 4.5 (± 22.75)   |  |  |
| Week 38                              | 2.6 (± 20.79)         | 1.9 (± 22.64)   |  |  |
| Week 40                              | 1.7 (± 23.35)         | 2.3 (± 22.28)   |  |  |
| Week 42                              | 1.1 (± 21.97)         | 3.4 (± 22.67)   |  |  |
| Week 44                              | 1.9 (± 25.89)         | 1.8 (± 18.95)   |  |  |
| Week 46                              | 3.9 (± 22.02)         | 6.8 (± 22.77)   |  |  |
| Week 48                              | 5.8 (± 22.10)         | 5.4 (± 22.83)   |  |  |
| Week 50                              | 5.5 (± 20.69)         | 3.0 (± 18.14)   |  |  |
| Week 52                              | 6.0 (± 26.30)         | 0.9 (± 24.98)   |  |  |

## Statistical analyses

No statistical analyses for this end point

### Secondary: Change from baseline in QoL-B scales (excluding QoL-B-RSS) over the double-blind period: Social Functioning Scale

|                 |   |
|-----------------|---|
| End point title | Change from baseline in QoL-B scales (excluding QoL-B-RSS) over the double-blind period: Social Functioning Scale |
|-----------------|---|

End point description:

Change from baseline in Quality of Life-Bronchiectasis (QoL-B) scales (excluding QoL-B-RSS) over the double-blind treatment period: Social Functioning Scale. QoL-B Social Functioning Scale scores range from 0 to 100, with higher scores indicative of better health-related quality of life.

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

End point timeframe:

Double-blind period

| End point values                     | Benralizumab<br>30 mg | Placebo         |  |  |
|--------------------------------------|-----------------------|-----------------|--|--|
| Subject group type                   | Reporting group       | Reporting group |  |  |
| Number of subjects analysed          | 54                    | 45              |  |  |
| Units: score                         |                       |                 |  |  |
| arithmetic mean (standard deviation) |                       |                 |  |  |
| Week 2                               | 6.4 (± 17.60)         | 4.5 (± 17.35)   |  |  |
| Week 4                               | 4.4 (± 18.62)         | 6.3 (± 22.69)   |  |  |
| Week 6                               | 8.4 (± 21.60)         | 5.8 (± 20.05)   |  |  |
| Week 8                               | 9.7 (± 23.10)         | 9.2 (± 20.53)   |  |  |
| Week 10                              | 9.4 (± 19.64)         | 6.0 (± 20.31)   |  |  |
| Week 12                              | 10.6 (± 23.32)        | 5.8 (± 21.42)   |  |  |
| Week 14                              | 10.9 (± 23.03)        | 7.7 (± 20.52)   |  |  |
| Week 16                              | 9.1 (± 20.73)         | 6.0 (± 23.53)   |  |  |
| Week 18                              | 11.6 (± 21.61)        | 10.3 (± 22.43)  |  |  |
| Week 20                              | 11.8 (± 22.59)        | 8.9 (± 21.43)   |  |  |
| Week 22                              | 7.2 (± 20.42)         | 9.5 (± 24.09)   |  |  |
| Week 24                              | 10.1 (± 24.90)        | 10.7 (± 24.14)  |  |  |
| Week 26                              | 10.1 (± 22.86)        | 9.9 (± 22.46)   |  |  |
| Week 28                              | 8.8 (± 24.67)         | 8.7 (± 24.83)   |  |  |
| Week 30                              | 10.2 (± 26.57)        | 7.7 (± 24.82)   |  |  |
| Week 32                              | 12.8 (± 23.84)        | 8.6 (± 24.48)   |  |  |
| Week 34                              | 9.6 (± 27.93)         | 9.3 (± 24.95)   |  |  |
| Week 36                              | 12.0 (± 27.06)        | 8.1 (± 25.53)   |  |  |
| Week 38                              | 10.2 (± 27.83)        | 6.5 (± 25.41)   |  |  |
| Week 40                              | 13.9 (± 32.35)        | 8.3 (± 27.77)   |  |  |
| Week 42                              | 10.2 (± 29.40)        | 8.6 (± 28.16)   |  |  |
| Week 44                              | 9.9 (± 28.68)         | 1.8 (± 24.50)   |  |  |
| Week 46                              | 9.1 (± 27.40)         | 6.6 (± 29.11)   |  |  |
| Week 48                              | 12.1 (± 27.11)        | 3.9 (± 30.74)   |  |  |
| Week 50                              | 10.2 (± 23.60)        | -1.7 (± 26.85)  |  |  |
| Week 52                              | 11.6 (± 27.91)        | 2.3 (± 25.29)   |  |  |

## Statistical analyses

No statistical analyses for this end point

### Secondary: Change from baseline in QoL-B scales (excluding QoL-B-RSS) over the double-blind period: Vitality Scale

|                 |   |
|-----------------|---|
| End point title | Change from baseline in QoL-B scales (excluding QoL-B-RSS) over the double-blind period: Vitality Scale |
|-----------------|---|

End point description:

Change from baseline in Quality of Life-Bronchiectasis (QoL-B) scales (excluding QoL-B-RSS) over the double-blind treatment period: Vitality Scale. QoL-B Vitality Scale scores range from 0 to 100, with higher scores indicative of better health-related quality of life.

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

End point timeframe:

Double-blind period

| End point values                     | Benralizumab<br>30 mg | Placebo         |  |  |
|--------------------------------------|-----------------------|-----------------|--|--|
| Subject group type                   | Reporting group       | Reporting group |  |  |
| Number of subjects analysed          | 54                    | 45              |  |  |
| Units: score                         |                       |                 |  |  |
| arithmetic mean (standard deviation) |                       |                 |  |  |
| Week 2                               | 3.0 (± 18.77)         | -2.4 (± 13.54)  |  |  |
| Week 4                               | 3.1 (± 17.82)         | 0.3 (± 15.21)   |  |  |
| Week 6                               | 4.0 (± 18.83)         | -2.0 (± 13.88)  |  |  |
| Week 8                               | 4.9 (± 17.84)         | -1.1 (± 16.26)  |  |  |
| Week 10                              | 6.4 (± 16.32)         | -3.1 (± 18.83)  |  |  |
| Week 12                              | 5.8 (± 18.48)         | -3.9 (± 16.24)  |  |  |
| Week 14                              | 8.8 (± 20.69)         | -2.7 (± 18.22)  |  |  |
| Week 16                              | 5.2 (± 19.66)         | -0.5 (± 19.71)  |  |  |
| Week 18                              | 5.0 (± 19.78)         | -1.4 (± 18.69)  |  |  |
| Week 20                              | 7.1 (± 19.99)         | -1.3 (± 19.28)  |  |  |
| Week 22                              | 5.7 (± 21.66)         | -0.6 (± 21.04)  |  |  |
| Week 24                              | 4.1 (± 20.87)         | 1.0 (± 19.67)   |  |  |
| Week 26                              | 6.2 (± 20.18)         | -1.6 (± 20.66)  |  |  |
| Week 28                              | 3.9 (± 21.75)         | -2.1 (± 21.57)  |  |  |
| Week 30                              | 4.4 (± 21.84)         | -4.3 (± 22.74)  |  |  |
| Week 32                              | 6.1 (± 19.97)         | 0.0 (± 20.49)   |  |  |
| Week 34                              | 1.1 (± 18.98)         | -0.8 (± 20.96)  |  |  |
| Week 36                              | 1.0 (± 18.59)         | -2.7 (± 18.72)  |  |  |
| Week 38                              | 4.1 (± 18.88)         | -0.0 (± 19.52)  |  |  |
| Week 40                              | 2.6 (± 23.01)         | -2.7 (± 21.97)  |  |  |
| Week 42                              | 3.0 (± 21.54)         | -1.0 (± 24.37)  |  |  |
| Week 44                              | 2.9 (± 21.11)         | -3.4 (± 21.24)  |  |  |

|         |               |                |  |  |
|---------|---------------|----------------|--|--|
| Week 46 | 5.2 (± 24.65) | 1.0 (± 20.10)  |  |  |
| Week 48 | 2.0 (± 23.48) | -1.3 (± 20.97) |  |  |
| Week 50 | 7.7 (± 20.81) | 0.0 (± 18.14)  |  |  |
| Week 52 | 5.3 (± 18.74) | -5.3 (± 23.53) |  |  |

## Statistical analyses

No statistical analyses for this end point

### Secondary: Change from baseline in QoL-B scales (excluding QoL-B-RSS) over the double-blind period: Health Perceptions Scale

|                 |   |
|-----------------|---|
| End point title | Change from baseline in QoL-B scales (excluding QoL-B-RSS) over the double-blind period: Health Perceptions Scale |
|-----------------|---|

End point description:

Change from baseline in Quality of Life-Bronchiectasis (QoL-B) scales (excluding QoL-B-RSS) over the double-blind treatment period: Health Perceptions Scale. QoL-B Health Perceptions Scale scores range from 0 to 100, with higher scores indicative of better health-related quality of life.

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

End point timeframe:

Double-blind period

| End point values                     | Benralizumab<br>30 mg | Placebo         |  |  |
|--------------------------------------|-----------------------|-----------------|--|--|
| Subject group type                   | Reporting group       | Reporting group |  |  |
| Number of subjects analysed          | 54                    | 45              |  |  |
| Units: score                         |                       |                 |  |  |
| arithmetic mean (standard deviation) |                       |                 |  |  |
| Week 2                               | 1.3 (± 12.95)         | 3.3 (± 14.12)   |  |  |
| Week 4                               | 1.2 (± 14.87)         | -0.2 (± 16.72)  |  |  |
| Week 6                               | 3.5 (± 16.90)         | 3.7 (± 16.06)   |  |  |
| Week 8                               | 5.3 (± 17.23)         | 4.3 (± 18.46)   |  |  |
| Week 10                              | 5.6 (± 16.57)         | 2.1 (± 18.47)   |  |  |
| Week 12                              | 7.5 (± 16.69)         | 3.3 (± 17.74)   |  |  |
| Week 14                              | 7.4 (± 16.78)         | 1.4 (± 18.99)   |  |  |
| Week 16                              | 1.9 (± 16.25)         | 2.4 (± 20.35)   |  |  |
| Week 18                              | 5.8 (± 16.68)         | 1.7 (± 20.69)   |  |  |
| Week 20                              | 4.6 (± 18.21)         | 3.9 (± 21.70)   |  |  |
| Week 22                              | 5.0 (± 16.70)         | 6.3 (± 21.99)   |  |  |
| Week 24                              | 7.2 (± 17.18)         | 5.0 (± 19.85)   |  |  |
| Week 26                              | 2.8 (± 16.76)         | 5.0 (± 20.26)   |  |  |
| Week 28                              | 3.4 (± 18.81)         | 2.4 (± 20.68)   |  |  |
| Week 30                              | 4.5 (± 18.03)         | 4.3 (± 21.87)   |  |  |
| Week 32                              | 7.0 (± 16.37)         | 2.4 (± 20.09)   |  |  |
| Week 34                              | 4.2 (± 17.68)         | 2.9 (± 22.29)   |  |  |
| Week 36                              | 3.5 (± 17.84)         | 2.0 (± 20.56)   |  |  |
| Week 38                              | 4.2 (± 16.30)         | 3.0 (± 22.90)   |  |  |
| Week 40                              | 5.1 (± 16.95)         | 1.4 (± 22.35)   |  |  |
| Week 42                              | 4.7 (± 18.38)         | 4.4 (± 23.77)   |  |  |

|         |               |               |  |  |
|---------|---------------|---------------|--|--|
| Week 44 | 4.8 (± 21.03) | 1.5 (± 20.78) |  |  |
| Week 46 | 6.6 (± 22.45) | 1.8 (± 19.07) |  |  |
| Week 48 | 7.3 (± 21.32) | 3.9 (± 23.68) |  |  |
| Week 50 | 6.9 (± 20.42) | 4.7 (± 18.65) |  |  |
| Week 52 | 4.0 (± 21.53) | 0.4 (± 24.13) |  |  |

## Statistical analyses

No statistical analyses for this end point

### Secondary: Change from baseline in QoL-B scales (excluding QoL-B-RSS) over the double-blind period: Treatment Burden Scale

|                 |   |
|-----------------|---|
| End point title | Change from baseline in QoL-B scales (excluding QoL-B-RSS) over the double-blind period: Treatment Burden Scale |
|-----------------|---|

End point description:

Change from baseline in Quality of Life-Bronchiectasis (QoL-B) scales (excluding QoL-B-RSS) over the double-blind treatment period: Treatment Burden Scale. QoL-B Treatment Burden Scale scores range from 0 to 100, with higher scores indicative of better health-related quality of life.

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

End point timeframe:

Double-blind period

| End point values                     | Benralizumab<br>30 mg | Placebo         |  |  |
|--------------------------------------|-----------------------|-----------------|--|--|
| Subject group type                   | Reporting group       | Reporting group |  |  |
| Number of subjects analysed          | 54                    | 45              |  |  |
| Units: score                         |                       |                 |  |  |
| arithmetic mean (standard deviation) |                       |                 |  |  |
| Week 2                               | 3.6 (± 22.56)         | -2.2 (± 16.75)  |  |  |
| Week 4                               | 3.7 (± 18.62)         | -2.1 (± 13.34)  |  |  |
| Week 6                               | 6.0 (± 23.20)         | -2.1 (± 15.72)  |  |  |
| Week 8                               | 4.8 (± 18.35)         | -1.9 (± 14.87)  |  |  |
| Week 10                              | 4.0 (± 17.31)         | 1.1 (± 17.83)   |  |  |
| Week 12                              | 0.3 (± 17.27)         | -0.4 (± 12.54)  |  |  |
| Week 14                              | 0.6 (± 20.74)         | -4.1 (± 14.73)  |  |  |
| Week 16                              | 4.4 (± 20.10)         | -1.1 (± 16.34)  |  |  |
| Week 18                              | -1.9 (± 16.28)        | -1.2 (± 14.92)  |  |  |
| Week 20                              | 4.1 (± 16.01)         | 0.3 (± 15.84)   |  |  |
| Week 22                              | -1.3 (± 14.37)        | -0.8 (± 16.82)  |  |  |
| Week 24                              | -1.0 (± 18.58)        | -1.1 (± 14.45)  |  |  |
| Week 26                              | 1.9 (± 17.32)         | 2.5 (± 15.37)   |  |  |
| Week 28                              | -5.1 (± 24.00)        | 1.4 (± 15.11)   |  |  |
| Week 30                              | -2.0 (± 19.14)        | -1.1 (± 18.39)  |  |  |
| Week 32                              | -2.1 (± 16.32)        | -0.8 (± 15.12)  |  |  |
| Week 34                              | -0.4 (± 16.70)        | -4.0 (± 17.95)  |  |  |
| Week 36                              | -0.7 (± 16.68)        | -1.5 (± 16.69)  |  |  |
| Week 38                              | -4.2 (± 25.27)        | -2.9 (± 21.04)  |  |  |
| Week 40                              | -2.0 (± 24.76)        | -0.4 (± 16.15)  |  |  |

|         |                |                |  |  |
|---------|----------------|----------------|--|--|
| Week 42 | -1.5 (± 23.52) | 1.7 (± 18.78)  |  |  |
| Week 44 | 2.1 (± 17.22)  | 1.4 (± 21.00)  |  |  |
| Week 46 | -0.0 (± 18.59) | 4.6 (± 14.62)  |  |  |
| Week 48 | -0.9 (± 17.25) | 3.6 (± 19.96)  |  |  |
| Week 50 | -2.0 (± 22.13) | -1.9 (± 18.77) |  |  |
| Week 52 | -1.9 (± 25.64) | 1.7 (± 14.94)  |  |  |

## Statistical analyses

No statistical analyses for this end point

### Secondary: Change from baseline in SGRQ total score over the double-blind treatment period

|                 |   |
|-----------------|---|
| End point title | Change from baseline in SGRQ total score over the double-blind treatment period |
|-----------------|---|

End point description:

Change from baseline in St. George's Respiratory Questionnaire (SGRQ) total score over the double-blind treatment period. SGRQ total scores range from 0 to 100. 100 represents the worst possible health status and 0 indicates the best possible health status.

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

End point timeframe:

Double-blind period

| End point values                     | Benralizumab<br>30 mg | Placebo         |  |  |
|--------------------------------------|-----------------------|-----------------|--|--|
| Subject group type                   | Reporting group       | Reporting group |  |  |
| Number of subjects analysed          | 54                    | 45              |  |  |
| Units: score                         |                       |                 |  |  |
| arithmetic mean (standard deviation) |                       |                 |  |  |
| Week 4                               | -4.7 (± 14.92)        | 0.6 (± 14.89)   |  |  |
| Week 8                               | -4.3 (± 15.99)        | -2.4 (± 15.33)  |  |  |
| Week 16                              | -4.4 (± 15.03)        | -0.1 (± 16.06)  |  |  |
| Week 24                              | -6.3 (± 16.21)        | -3.9 (± 21.08)  |  |  |
| Week 32                              | -5.8 (± 15.73)        | -1.6 (± 21.46)  |  |  |
| Week 40                              | -5.8 (± 17.63)        | -1.6 (± 24.51)  |  |  |
| Week 48                              | -4.9 (± 18.58)        | -0.0 (± 22.45)  |  |  |
| Week 52                              | -4.4 (± 20.37)        | 4.8 (± 23.33)   |  |  |

## Statistical analyses

No statistical analyses for this end point

## Adverse events

### Adverse events information

Timeframe for reporting adverse events:

Double-blind (DB) period and Open-label Extension (OLE) period. DB Period: From first dose of study drug until end of DB period, up to 52 weeks. OLE Period: From the end of the DB period (week 25 to 53) to the end of OLE period, up to 40 weeks.

Adverse event reporting additional description:

For analysis of Adverse Events, Safety Analysis Set is used. Safety Analysis Set: All participants who received at least one dose of study drug.

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

### Dictionary used

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

|                    |      |
|--------------------|------|
| Dictionary version | 26.1 |
|--------------------|------|

### Reporting groups

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

Reporting group description:

Matching placebo injection delivered subcutaneously every 4 weeks

|                       |                    |
|-----------------------|--------------------|
| Reporting group title | Benralizumab 30 mg |
|-----------------------|--------------------|

Reporting group description:

Benralizumab 30 mg injection delivered subcutaneously every 4 weeks

| <b>Serious adverse events</b>                     | Placebo         | Benralizumab 30 mg |  |
|---|-----------------|--------------------|--|
| Total subjects affected by serious adverse events |                 |                    |  |
| subjects affected / exposed                       | 7 / 45 (15.56%) | 13 / 54 (24.07%)   |  |
| number of deaths (all causes)                     | 0               | 0                  |  |
| number of deaths resulting from adverse events    | 0               | 0                  |  |
| Vascular disorders                                |                 |                    |  |
| Hypertension                                      |                 |                    |  |
| subjects affected / exposed                       | 1 / 45 (2.22%)  | 0 / 54 (0.00%)     |  |
| occurrences causally related to treatment / all   | 0 / 1           | 0 / 0              |  |
| deaths causally related to treatment / all        | 0 / 0           | 0 / 0              |  |
| Gastrointestinal disorders                        |                 |                    |  |
| Enteritis   |                 |                    |  |
| subjects affected / exposed                       | 0 / 45 (0.00%)  | 1 / 54 (1.85%)     |  |
| occurrences causally related to treatment / all   | 0 / 0           | 0 / 1              |  |
| deaths causally related to treatment / all        | 0 / 0           | 0 / 0              |  |
| Incarcerated inguinal hernia                      |                 |                    |  |
| subjects affected / exposed                       | 0 / 45 (0.00%)  | 1 / 54 (1.85%)     |  |
| occurrences causally related to treatment / all   | 0 / 0           | 0 / 1              |  |
| deaths causally related to treatment / all        | 0 / 0           | 0 / 0              |  |

|   |                 |                 |  |
|---|-----------------|-----------------|--|
| Intestinal obstruction                          |                 |                 |  |
| subjects affected / exposed                     | 0 / 45 (0.00%)  | 1 / 54 (1.85%)  |  |
| 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                     | 0 / 45 (0.00%)  | 1 / 54 (1.85%)  |  |
| occurrences causally related to treatment / all | 0 / 0           | 0 / 1           |  |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           |  |
| Bronchiectasis                                  |                 |                 |  |
| subjects affected / exposed                     | 6 / 45 (13.33%) | 9 / 54 (16.67%) |  |
| occurrences causally related to treatment / all | 0 / 7           | 0 / 11          |  |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           |  |
| Pulmonary embolism                              |                 |                 |  |
| subjects affected / exposed                     | 0 / 45 (0.00%)  | 1 / 54 (1.85%)  |  |
| occurrences causally related to treatment / all | 0 / 0           | 0 / 1           |  |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           |  |
| Infections and infestations                     |                 |                 |  |
| COVID-19  |                 |                 |  |
| subjects affected / exposed                     | 0 / 45 (0.00%)  | 1 / 54 (1.85%)  |  |
| occurrences causally related to treatment / all | 0 / 0           | 0 / 1           |  |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           |  |
| Haemophilus infection                           |                 |                 |  |
| subjects affected / exposed                     | 0 / 45 (0.00%)  | 1 / 54 (1.85%)  |  |
| occurrences causally related to treatment / all | 0 / 0           | 0 / 1           |  |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           |  |
| Pneumonia                                       |                 |                 |  |
| subjects affected / exposed                     | 0 / 45 (0.00%)  | 1 / 54 (1.85%)  |  |
| occurrences causally related to treatment / all | 0 / 0           | 0 / 1           |  |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           |  |
| Pneumonia pseudomonal                           |                 |                 |  |
| subjects affected / exposed                     | 0 / 45 (0.00%)  | 1 / 54 (1.85%)  |  |
| 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 %

| <b>Non-serious adverse events</b>                     | Placebo          | Benralizumab 30 mg |  |
|---|------------------|--------------------|--|
| Total subjects affected by non-serious adverse events |                  |                    |  |
| subjects affected / exposed                           | 23 / 45 (51.11%) | 37 / 54 (68.52%)   |  |
| Nervous system disorders                              |                  |                    |  |
| Dizziness   |                  |                    |  |
| subjects affected / exposed                           | 3 / 45 (6.67%)   | 2 / 54 (3.70%)     |  |
| occurrences (all)                                     | 3                | 2                  |  |
| Headache  |                  |                    |  |
| subjects affected / exposed                           | 7 / 45 (15.56%)  | 5 / 54 (9.26%)     |  |
| occurrences (all)                                     | 9                | 5                  |  |
| General disorders and administration site conditions  |                  |                    |  |
| Fatigue   |                  |                    |  |
| subjects affected / exposed                           | 1 / 45 (2.22%)   | 3 / 54 (5.56%)     |  |
| occurrences (all)                                     | 1                | 3                  |  |
| Pyrexia   |                  |                    |  |
| subjects affected / exposed                           | 3 / 45 (6.67%)   | 1 / 54 (1.85%)     |  |
| occurrences (all)                                     | 5                | 1                  |  |
| Eye disorders   |                  |                    |  |
| Cataract  |                  |                    |  |
| subjects affected / exposed                           | 1 / 45 (2.22%)   | 3 / 54 (5.56%)     |  |
| occurrences (all)                                     | 1                | 4                  |  |
| Gastrointestinal disorders                            |                  |                    |  |
| Abdominal pain upper                                  |                  |                    |  |
| subjects affected / exposed                           | 0 / 45 (0.00%)   | 3 / 54 (5.56%)     |  |
| occurrences (all)                                     | 0                | 4                  |  |
| Gastrooesophageal reflux disease                      |                  |                    |  |
| subjects affected / exposed                           | 0 / 45 (0.00%)   | 4 / 54 (7.41%)     |  |
| occurrences (all)                                     | 0                | 6                  |  |
| Musculoskeletal and connective tissue disorders       |                  |                    |  |

|   |                        |                        |  |
|---|------------------------|------------------------|--|
| Back pain<br>subjects affected / exposed<br>occurrences (all)                         | 2 / 45 (4.44%)<br>3    | 4 / 54 (7.41%)<br>4    |  |
| Infections and infestations   |                        |                        |  |
| COVID-19<br>subjects affected / exposed<br>occurrences (all)                          | 10 / 45 (22.22%)<br>12 | 21 / 54 (38.89%)<br>21 |  |
| Nasopharyngitis<br>subjects affected / exposed<br>occurrences (all)                   | 6 / 45 (13.33%)<br>6   | 6 / 54 (11.11%)<br>10  |  |
| Sinusitis<br>subjects affected / exposed<br>occurrences (all)                         | 2 / 45 (4.44%)<br>3    | 4 / 54 (7.41%)<br>4    |  |
| Upper respiratory tract infection<br>subjects affected / exposed<br>occurrences (all) | 1 / 45 (2.22%)<br>2    | 4 / 54 (7.41%)<br>5    |  |
| Urinary tract infection<br>subjects affected / exposed<br>occurrences (all)           | 0 / 45 (0.00%)<br>0    | 3 / 54 (5.56%)<br>3    |  |

## More information

### Substantial protocol amendments (globally)

Were there any global substantial amendments to the protocol? Yes

| Date            | Amendment   |
|-----------------|---|
| 10 January 2023 | <p>The initial protocol plan was to randomise approximately 420 eligible patients to investigational product with stratification for blood eosinophil count category. However, the coronavirus disease 2019 pandemic's impact on population characteristics that are part of the trial's inclusion criteria has resulted in recruitment challenges. These challenges, combined with other external uncertainties, have led to the sponsor's decision to stop further recruitment into the study. This decision was not due to safety or efficacy concerns for benralizumab in the non-cystic fibrosis bronchiectasis (NCFB) population. Therefore, all randomised patients are allowed to continue the treatment. The collected data will be analysed and shared with the scientific community to enhance understanding of NCFB.</p> <p>Due to the sponsor's decision to stop recruitment early, this clinical study protocol has been modified such that the duration of the double-blind period for each patient is 28 to 52 weeks, after which eligible patients will enter an open-label extension of approximately 32 weeks (approximately 24 weeks of benralizumab administration followed by an 8-week follow-up visit) that will focus on safety assessments. The protocol, including the study duration, sample size, primary study population, evaluated parameters, the timing of endpoint analyses, statistical analyses to be performed, and frequency and timing of activities in the schedule of assessments have been updated to reflect the significant changes in the overall study design and conduct.</p> |

Notes:

### Interruptions (globally)

Were there any global interruptions to the trial? No

### Limitations and caveats

Limitations of the trial such as small numbers of subjects analysed or technical problems leading to unreliable data.

Due to the decision to stop recruitment early and small sample size in  $\geq$  the threshold of blood eosinophil count stratum, the study is not powered to assess the hypothesis test for the primary efficacy endpoint.

Notes: