



## Clinical trial results:

### **SHAMAL: A Multicentre, Randomised, Open-Label, Parallel-Group, Active-Controlled, Phase IV Study to Assess the Reduction of Daily Maintenance ICS/LABA Treatment Towards Anti-Inflammatory Reliever Treatment in Patients with Severe Eosinophilic Asthma Treated with Benralizumab**

#### **Summary**

|                          |                 |
|--------------------------|-----------------|
| EudraCT number           | 2019-001924-37  |
| Trial protocol           | GB DE FR IT     |
| Global end of trial date | 31 January 2023 |

#### **Results information**

|                                |                  |
|--------------------------------|------------------|
| Result version number          | v1 (current)     |
| This version publication date  | 14 February 2024 |
| First version publication date | 14 February 2024 |

#### **Trial information**

##### **Trial identification**

|                       |             |
|-----------------------|-------------|
| Sponsor protocol code | D3250C00072 |
|-----------------------|-------------|

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

|                                    |             |
|------------------------------------|-------------|
| ISRCTN number                      | -           |
| ClinicalTrials.gov id (NCT number) | NCT04159519 |
| WHO universal trial number (UTN)   | -           |

Notes:

#### **Sponsors**

|                              |                                                                                                                                                 |
|------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| Sponsor organisation name    | AstraZeneca Clinical study Information Center                                                                                                   |
| Sponsor organisation address | Södertälje, Södertälje, Sweden, 151 85                                                                                                          |
| Public contact               | AstraZeneca Clinical study Information Center, AstraZeneca Clinical study Information Center, +1 8772409479, information.center@astrazeneca.com |
| Scientific contact           | Global Clinical Lead, AstraZeneca Clinical study Information Center, +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                       | 28 March 2023   |
| Is this the analysis of the primary completion data? | No              |
| Global end of trial reached?                         | Yes             |
| Global end of trial date                             | 31 January 2023 |
| Was the trial ended prematurely?                     | No              |

Notes:

## General information about the trial

Main objective of the trial:

To assess the potential for benralizumab-treated patients to reduce Symbicort maintenance treatment while maintaining asthma symptom control.

Protection of trial subjects:

The clinical study protocol (CSP) and participant informed consent documents were reviewed and approved by the institutional review board/independent ethics committee before the study was initiated. This study was performed in accordance with the ethical principles that have their origin in the Declaration of Helsinki and that are consistent with International Council for Harmonisation/Good Clinical Practice, applicable regulatory requirements and the AstraZeneca policy on Bioethics. The Principal Investigator at each study site explained the nature of the study to the patient and answered all questions regarding the study. Patients were informed that their participation was voluntary, and they were free to refuse to participate and withdraw their consent at any time and for any reason during the study.

Background therapy: -

Evidence for comparator: -

|                                                           |              |
|-----------------------------------------------------------|--------------|
| Actual start date of recruitment                          | 27 July 2020 |
| Long term follow-up planned                               | No           |
| Independent data monitoring committee (IDMC) involvement? | No           |

Notes:

## Population of trial subjects

### Subjects enrolled per country

|                                      |                    |
|--------------------------------------|--------------------|
| Country: Number of subjects enrolled | France: 34         |
| Country: Number of subjects enrolled | Germany: 72        |
| Country: Number of subjects enrolled | Italy: 24          |
| Country: Number of subjects enrolled | United Kingdom: 38 |
| Worldwide total number of subjects   | 168                |
| EEA total number of subjects         | 130                |

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          | 0 |

|                           |     |
|---------------------------|-----|
| months)                   |     |
| Children (2-11 years)     | 0   |
| Adolescents (12-17 years) | 0   |
| Adults (18-64 years)      | 114 |
| From 65 to 84 years       | 54  |
| 85 years and over         | 0   |

## Subject disposition

### Recruitment

Recruitment details:

The study was conducted between 27 July 2020 and 31 January 2023.

### Pre-assignment

Screening details:

The study included a screening period and run-in period of 4-8 weeks. The 208 were enrolled and entered screening and run-in period, during which patients received benralizumab with high-dose Symbicort. At Week 0, patients meeting the randomization criteria were randomized into treatment reduction or reference arms.

### 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                 |
| <b>Arm title</b>             | Treatment reduction |

Arm description:

Patients received benralizumab 30 mg every 8 weeks (Q8W) during the study period, and high-dose Symbicort maintenance 400/12 µg ×2 inhalations BID + Ventolin (salbutamol 100 µg) reliever as needed (PRN), tapering to, medium-dose Symbicort 200/6 µg ×2 inhalations BID maintenance + Symbicort 200/6 µg reliever PRN, low dose Symbicort 200/6 µg × 1 inhalation BID maintenance + Symbicort 200/6 µg reliever PRN; or Symbicort 200/6 µg reliever only, as per tapering scheme and depending on the degree of asthma control). The reduction period in this arm lasted for 32 weeks.

|                                        |                                              |
|----------------------------------------|----------------------------------------------|
| Arm type                               | Experimental                                 |
| Investigational medicinal product name | Benralizumab                                 |
| Investigational medicinal product code |                                              |
| Other name                             | Fasenra®                                     |
| Pharmaceutical forms                   | Solution for injection in pre-filled syringe |
| Routes of administration               | Subcutaneous use                             |

Dosage and administration details:

Patients received benralizumab 30 mg/mL, 1 mL fill volume via subcutaneous injection every 8 weeks during the study period.

|                                        |                        |
|----------------------------------------|------------------------|
| Investigational medicinal product name | Ventolin®              |
| Investigational medicinal product code |                        |
| Other name                             | Salbutamol             |
| Pharmaceutical forms                   | Pressurised inhalation |
| Routes of administration               | Inhalation use         |

Dosage and administration details:

Patients received salbutamol sulfate 100 µg per inhalation in the screening/run-in phase as needed.

|                                        |                                        |
|----------------------------------------|----------------------------------------|
| Investigational medicinal product name | Symbicort®                             |
| Investigational medicinal product code |                                        |
| Other name                             | Budesonide/formoterol                  |
| Pharmaceutical forms                   | Inhalation solution, Inhalation powder |
| Routes of administration               | Inhalation use                         |

Dosage and administration details:

Patients received budesonide 400 µg/formoterol fumarate 12 µg per inhalation (2 inhalations) BID as maintenance, and reducing to budesonide 200 µg/formoterol fumarate 6 µg per inhalation (1 or 2 inhalations) BID as maintenance and reliever as needed, or as reliever only.

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

**Arm description:**

Patients received benralizumab 30 mg Q8W + high-dose Symbicort® 400/12 µg maintenance × 2 inhalations BID + Ventolin® (salbutamol 100 µg) reliever PRN therapy. Eligible patients randomised to the reference arm continued on high-dose Symbicort® maintenance treatment and Ventolin® reliever treatment.

|                                        |                                              |
|----------------------------------------|----------------------------------------------|
| Arm type                               | Experimental                                 |
| Investigational medicinal product name | Benralizumab                                 |
| Investigational medicinal product code |                                              |
| Other name                             | Fasenra®                                     |
| Pharmaceutical forms                   | Solution for injection in pre-filled syringe |
| Routes of administration               | Subcutaneous use                             |

**Dosage and administration details:**

Patients received benralizumab 30 mg/mL, 1 mL fill volume via subcutaneous injection every 8 weeks during the study period.

|                                        |                        |
|----------------------------------------|------------------------|
| Investigational medicinal product name | Ventolin®              |
| Investigational medicinal product code |                        |
| Other name                             | Salbutamol             |
| Pharmaceutical forms                   | Pressurised inhalation |
| Routes of administration               | Inhalation use         |

**Dosage and administration details:**

Patients received salbutamol sulfate 100 µg per inhalation as needed.

|                                        |                                        |
|----------------------------------------|----------------------------------------|
| Investigational medicinal product name | Symbicort®                             |
| Investigational medicinal product code |                                        |
| Other name                             | Budesonide/formoterol                  |
| Pharmaceutical forms                   | Inhalation solution, Inhalation powder |
| Routes of administration               | Inhalation use                         |

**Dosage and administration details:**

Patients received budesonide 400 µg/formoterol fumarate 12 µg per inhalation (2 inhalations) BID as maintenance.

| <b>Number of subjects in period 1</b> | <b>Treatment reduction</b> | <b>Reference</b> |
|---------------------------------------|----------------------------|------------------|
| Started                               | 125                        | 43               |
| Completed                             | 117                        | 37               |
| Not completed                         | 8                          | 6                |
| Consent withdrawn by subject          | 4                          | 4                |
| Adverse event, non-fatal              | 1                          | 1                |
| Discontinued from study               | 1                          | -                |
| Lack of efficacy                      | 1                          | -                |
| Protocol deviation                    | 1                          | 1                |

## Baseline characteristics

### Reporting groups

| Reporting group title                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Treatment reduction |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|
| Reporting group description:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                     |
| Patients received benralizumab 30 mg every 8 weeks (Q8W) during the study period, and high-dose Symbicort maintenance 400/12 µg ×2 inhalations BID + Ventolin (salbutamol 100 µg) reliever as needed (PRN), tapering to, medium-dose Symbicort 200/6 µg ×2 inhalations BID maintenance + Symbicort 200/6 µg reliever PRN, low dose Symbicort 200/6 µg × 1 inhalation BID maintenance + Symbicort 200/6 µg reliever PRN; or Symbicort 200/6 µg reliever only, as per tapering scheme and depending on the degree of asthma control). The reduction period in this arm lasted for 32 weeks. |                     |
| Reporting group title                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Reference           |
| Reporting group description:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                     |
| Patients received benralizumab 30 mg Q8W + high-dose Symbicort® 400/12 µg maintenance × 2 inhalations BID + Ventolin® (salbutamol 100 µg) reliever PRN therapy. Eligible patients randomised to the reference arm continued on high-dose Symbicort® maintenance treatment and Ventolin® reliever treatment.                                                                                                                                                                                                                                                                               |                     |

| Reporting group values                             | Treatment reduction | Reference | Total |
|----------------------------------------------------|---------------------|-----------|-------|
| Number of subjects                                 | 125                 | 43        | 168   |
| Age categorical                                    |                     |           |       |
| Units: Subjects                                    |                     |           |       |
| In utero                                           | 0                   | 0         | 0     |
| Preterm newborn infants (gestational age < 37 wks) | 0                   | 0         | 0     |
| Newborns (0-27 days)                               | 0                   | 0         | 0     |
| Infants and toddlers (28 days-23 months)           | 0                   | 0         | 0     |
| Children (2-11 years)                              | 0                   | 0         | 0     |
| Adolescents (12-17 years)                          | 0                   | 0         | 0     |
| Adults (18-64 years)                               | 82                  | 32        | 114   |
| From 65-84 years                                   | 43                  | 11        | 54    |
| 85 years and over                                  | 0                   | 0         | 0     |
| Age Continuous                                     |                     |           |       |
| Units: Years                                       |                     |           |       |
| arithmetic mean                                    | 58.1                | 56.5      |       |
| standard deviation                                 | ± 12.44             | ± 11.70   | -     |
| Sex: Female, Male                                  |                     |           |       |
| Units: Participants                                |                     |           |       |
| Female                                             | 69                  | 20        | 89    |
| Male                                               | 56                  | 23        | 79    |

## End points

### End points reporting groups

| Reporting group title                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Treatment reduction |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|
| Reporting group description:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                     |
| Patients received benralizumab 30 mg every 8 weeks (Q8W) during the study period, and high-dose Symbicort maintenance 400/12 µg ×2 inhalations BID + Ventolin (salbutamol 100 µg) reliever as needed (PRN), tapering to, medium-dose Symbicort 200/6 µg ×2 inhalations BID maintenance + Symbicort 200/6 µg reliever PRN, low dose Symbicort 200/6 µg × 1 inhalation BID maintenance + Symbicort 200/6 µg reliever PRN; or Symbicort 200/6 µg reliever only, as per tapering scheme and depending on the degree of asthma control). The reduction period in this arm lasted for 32 weeks. |                     |
| Reporting group title                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Reference           |
| Reporting group description:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                     |
| Patients received benralizumab 30 mg Q8W + high-dose Symbicort® 400/12 µg maintenance × 2 inhalations BID + Ventolin® (salbutamol 100 µg) reliever PRN therapy. Eligible patients randomised to the reference arm continued on high-dose Symbicort® maintenance treatment and Ventolin® reliever treatment.                                                                                                                                                                                                                                                                               |                     |

### Primary: Proportion of patients who reduced their Symbicort® maintenance dose at the end of the reduction period

| End point title                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Proportion of patients who reduced their Symbicort® maintenance dose at the end of the reduction period <sup>[1][2]</sup> |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|
| End point description:                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                           |
| Proportion of patients with non-missing Week 32 who reduced their Symbicort® maintenance dose at the end of the reduction period (Week 32) to: a) Medium-dose Symbicort® maintenance and reliever therapy (SMART), or b) Low-dose SMART, or c) Symbicort® anti-inflammatory reliever only. The full analysis set (FAS) population included for this endpoint, all randomised patients, irrespective of their protocol adherence and continued participation in the study. |                                                                                                                           |
| End point type                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Primary                                                                                                                   |
| End point timeframe:                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                           |
| At Week 32                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                           |

#### Notes:

[1] - No statistical analyses have been specified for this primary end point. It is expected there is at least one statistical analysis for each primary end point.

Justification: No statistical analysis was performed.

[2] - The end point is not reporting statistics for all the arms in the baseline period. It is expected all the baseline period arms will be reported on when providing values for an end point on the baseline period.

Justification: No statistical analysis was performed.

| End point values                 | Treatment reduction      |  |  |  |
|----------------------------------|--------------------------|--|--|--|
| Subject group type               | Reporting group          |  |  |  |
| Number of subjects analysed      | 119                      |  |  |  |
| Units: Proportion                |                          |  |  |  |
| number (confidence interval 95%) |                          |  |  |  |
| Medium-dose SMART                | 0.151 (0.0922 to 0.2285) |  |  |  |
| Low-dose SMART                   | 0.168 (0.1058 to 0.2476) |  |  |  |
| Symbicort® reliever-only dose    | 0.605 (0.5113 to 0.6934) |  |  |  |

## Statistical analyses

No statistical analyses for this end point

### Secondary: Change from baseline in Asthma control questionnaire-5 item (ACQ-5) score at the end of the reduction period

|                 |                                                                                                              |
|-----------------|--------------------------------------------------------------------------------------------------------------|
| End point title | Change from baseline in Asthma control questionnaire-5 item (ACQ-5) score at the end of the reduction period |
|-----------------|--------------------------------------------------------------------------------------------------------------|

End point description:

Change from baseline in the ACQ-5 patient reported outcome. This instrument contains 5 asthma symptom questions, rated from 0 (total control) to 6 (severely uncontrolled). The ACQ-5 score is the mean of the responses. Mean scores  $\leq 0.75$  indicate well controlled,  $>0.75$  and  $<1.5$  indicate partly controlled and  $\geq 1.5$  indicate not well controlled asthma. The FAS population included for this endpoint, all randomised patients, irrespective of their protocol adherence and continued participation in the study.

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

End point timeframe:

Week 0 (baseline) and at Week 32

| End point values                     | Treatment reduction    | Reference              |  |  |
|--------------------------------------|------------------------|------------------------|--|--|
| Subject group type                   | Reporting group        | Reporting group        |  |  |
| Number of subjects analysed          | 112                    | 38                     |  |  |
| Units: Change from baseline in score |                        |                        |  |  |
| least squares mean (standard error)  | 0.1617 ( $\pm$ 0.0393) | 0.0555 ( $\pm$ 0.0677) |  |  |

## Statistical analyses

|                            |                               |
|----------------------------|-------------------------------|
| Statistical analysis title | Comparison with reference arm |
|----------------------------|-------------------------------|

Statistical analysis description:

Comparison with reference arm

|                                         |                                  |
|-----------------------------------------|----------------------------------|
| Comparison groups                       | Treatment reduction v Reference  |
| Number of subjects included in analysis | 150                              |
| Analysis specification                  | Pre-specified                    |
| Analysis type                           |                                  |
| Method                                  | Mixed model for repeated measure |
| Parameter estimate                      | Least square mean difference     |
| Point estimate                          | 0.1062                           |
| Confidence interval                     |                                  |
| level                                   | 95 %                             |
| sides                                   | 2-sided                          |
| lower limit                             | -0.0485                          |
| upper limit                             | 0.2609                           |

### Secondary: Change from baseline in standardised asthma quality of life questionnaire for 12 years and older (AQLQ(S)+12) at the end of the reduction

**period**

|                 |                                                                                                                                                  |
|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| End point title | Change from baseline in standardised asthma quality of life questionnaire for 12 years and older (AQLQ(S)+12) at the end of the reduction period |
|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------|

## End point description:

The AQLQ(S)+12 is a Patient-Reported Outcome (PRO) that measures the health-related quality of life experienced by asthma patients. The questionnaire comprises 4 separate domains (symptoms, activity limitations, emotional function, and environmental stimuli). Patients are asked to recall their experiences during the previous 2 weeks before each visit and to score each of the questions on a 7-point scale ranging from 7 (no impairment) to 1 (severe impairment). The statistical test is mixed model for repeated measure (MMRM) with fixed effects for treatment arm, visit, baseline value, and treatment-by-visit interaction with an unstructured covariance structure. The FAS population included for this endpoint, all randomised patients, irrespective of their protocol adherence and continued participation in the study.

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

## End point timeframe:

Week 0 (baseline) and at Week 32

| End point values                     | Treatment reduction     | Reference              |  |  |
|--------------------------------------|-------------------------|------------------------|--|--|
| Subject group type                   | Reporting group         | Reporting group        |  |  |
| Number of subjects analysed          | 99                      | 35                     |  |  |
| Units: Change from baseline in score |                         |                        |  |  |
| least squares mean (standard error)  | -0.0279 ( $\pm$ 0.0559) | 0.0064 ( $\pm$ 0.0950) |  |  |

**Statistical analyses**

|                                   |                               |
|-----------------------------------|-------------------------------|
| <b>Statistical analysis title</b> | Comparison with reference arm |
|-----------------------------------|-------------------------------|

## Statistical analysis description:

## Comparison with reference arm

|                                         |                                  |
|-----------------------------------------|----------------------------------|
| Comparison groups                       | Treatment reduction v Reference  |
| Number of subjects included in analysis | 134                              |
| Analysis specification                  | Pre-specified                    |
| Analysis type                           |                                  |
| Method                                  | Mixed model for repeated measure |
| Parameter estimate                      | Least square mean difference     |
| Point estimate                          | -0.0343                          |
| Confidence interval                     |                                  |
| level                                   | 95 %                             |
| sides                                   | 2-sided                          |
| lower limit                             | -0.2527                          |
| upper limit                             | 0.1841                           |

**Secondary: Number of patients with no deterioration in AQLQ(S)+12 at the end of the reduction period**

|                 |                                                               |
|-----------------|---------------------------------------------------------------|
| End point title | Number of patients with no deterioration in AQLQ(S)+12 at the |
|-----------------|---------------------------------------------------------------|

## End point description:

The AQLQ(S)+12 is a PRO that measures the health-related quality of life experienced by asthma patients. The questionnaire comprises 4 separate domains (symptoms, activity limitations, emotional function, and environmental stimuli). Patients are asked to recall their experiences during the previous 2 weeks before each visit and to score each of the questions on a 7-point scale ranging from 7 (no impairment) to 1 (severe impairment). AQLQ(S)+12 deterioration was defined as at least a 0.5 unit decrease in AQLQ(S)+12 total score from baseline. Patients with no deterioration include patients with improvement or no change. The FAS population included for this endpoint, all randomised patients, irrespective of their protocol adherence and continued participation in the study.

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

End point timeframe:

At Week 32

| End point values            | Treatment reduction | Reference       |  |  |
|-----------------------------|---------------------|-----------------|--|--|
| Subject group type          | Reporting group     | Reporting group |  |  |
| Number of subjects analysed | 125                 | 43              |  |  |
| Units: Participants         |                     |                 |  |  |
| Improvement                 | 12                  | 3               |  |  |
| No change                   | 73                  | 28              |  |  |

## Statistical analyses

No statistical analyses for this end point

**Secondary: Number of patients with no deterioration in ACQ-5 at the end of the reduction period**

|                 |                                                                                      |
|-----------------|--------------------------------------------------------------------------------------|
| End point title | Number of patients with no deterioration in ACQ-5 at the end of the reduction period |
|-----------------|--------------------------------------------------------------------------------------|

## End point description:

Change from baseline in the ACQ-5 patient reported outcome. This instrument contains 5 asthma symptom questions, rated from 0 (total control) to 6 (severely uncontrolled). The ACQ-5 score is the mean of the responses. Mean scores  $\leq 0.75$  indicating well controlled,  $>0.75$  and  $<1.5$  indicate partly controlled and  $\geq 1.5$  indicate not well controlled asthma. ACQ-5 deterioration is defined as at least a 0.5 unit increase in ACQ-5 score from baseline. Patients with no deterioration include patients with improvement or no change. The FAS population included for this endpoint, all randomised patients, irrespective of their protocol adherence and continued participation in the study.

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

End point timeframe:

At Week 32

| End point values            | Treatment reduction | Reference       |  |  |
|-----------------------------|---------------------|-----------------|--|--|
| Subject group type          | Reporting group     | Reporting group |  |  |
| Number of subjects analysed | 125                 | 43              |  |  |
| Units: Participants         |                     |                 |  |  |
| Improvement                 | 6                   | 2               |  |  |
| No change                   | 87                  | 28              |  |  |

## Statistical analyses

No statistical analyses for this end point

## Secondary: Change from baseline in pre-bronchodilator forced expiratory volume in 1 second (FEV1) during the study period

|                 |                                                                                                                |
|-----------------|----------------------------------------------------------------------------------------------------------------|
| End point title | Change from baseline in pre-bronchodilator forced expiratory volume in 1 second (FEV1) during the study period |
|-----------------|----------------------------------------------------------------------------------------------------------------|

End point description:

The potential for benralizumab-treated patients to maintain lung function while stepping down Symbicort® maintenance treatment was assessed. The FEV1 is the maximal volume of air exhaled in the first second of a forced expiration from a position of full inspiration, expressed in liters. Change from baseline pre-bronchodilator FEV1 calculated as post-baseline pre-bronchodilator FEV1 (L) minus baseline pre-bronchodilator FEV1 (L) for all post-baseline measurement points. The FAS population included for this endpoint, all randomised patients, irrespective of their protocol adherence and continued participation in the study. Here, "n" represents the number of patients analyzed for each row of this endpoint.

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

End point timeframe:

At Week 0 (baseline), and at Weeks 8, 16, 24, 32, 40, and 48

| End point values                    | Treatment reduction | Reference          |  |  |
|-------------------------------------|---------------------|--------------------|--|--|
| Subject group type                  | Reporting group     | Reporting group    |  |  |
| Number of subjects analysed         | 125                 | 43                 |  |  |
| Units: Liter                        |                     |                    |  |  |
| least squares mean (standard error) |                     |                    |  |  |
| Week 8 (n= 102; 33)                 | 0.0411 (± 0.0183)   | 0.0549 (± 0.0315)  |  |  |
| Week 16 (n= 97; 34)                 | 0.0299 (± 0.0215)   | 0.0115 (± 0.0363)  |  |  |
| Week 24 (n= 92; 31)                 | -0.0536 (± 0.0317)  | 0.0644 (± 0.0540)  |  |  |
| Week 32 (n= 89; 31)                 | -0.0824 (± 0.0285)  | -0.0016 (± 0.0482) |  |  |
| Week 40 (n= 93; 32)                 | -0.0953 (± 0.0280)  | 0.0428 (± 0.0476)  |  |  |
| Week 48 (n= 92; 29)                 | -0.0889 (± 0.0272)  | 0.0059 (± 0.0475)  |  |  |

## Statistical analyses

No statistical analyses for this end point

### Secondary: Cumulative total daily inhaled corticosteroids (ICS) dose, by period

|                 |                                                                      |
|-----------------|----------------------------------------------------------------------|
| End point title | Cumulative total daily inhaled corticosteroids (ICS) dose, by period |
|-----------------|----------------------------------------------------------------------|

End point description:

The cumulative total daily ICS dose (maintenance +reliever) for: a) reduction period; b) maintenance period; c) study period was assessed. The FAS population included for this endpoint, all randomised patients, irrespective of their protocol adherence and continued participation in the study. Here, "n" represents the number of patients analyzed for each row of this endpoint.

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

End point timeframe:

Reduction period (From Week 0 up to Week 32); maintenance period (From Week 32 up to Week 48); Study period (Week 0 up to end of maintenance period/ end of study)

| End point values                     | Treatment reduction    | Reference              |  |  |
|--------------------------------------|------------------------|------------------------|--|--|
| Subject group type                   | Reporting group        | Reporting group        |  |  |
| Number of subjects analysed          | 125                    | 42                     |  |  |
| Units: Microgram                     |                        |                        |  |  |
| arithmetic mean (standard deviation) |                        |                        |  |  |
| Reduction period (n= 125; 42)        | 115956.8 (± 73223.93)  | 312857.1 (± 81251.22)  |  |  |
| Maintenance period (n= 102; 38)      | 50984.3 (± 51148.59)   | 150400.0 (± 42180.46)  |  |  |
| Study period (n= 125; 42)            | 157560.0 (± 114123.69) | 448933.3 (± 131247.22) |  |  |

## Statistical analyses

No statistical analyses for this end point

### Secondary: Annualised asthma exacerbation rate during the study period

|                 |                                                             |
|-----------------|-------------------------------------------------------------|
| End point title | Annualised asthma exacerbation rate during the study period |
|-----------------|-------------------------------------------------------------|

End point description:

Asthma exacerbation rate was assessed. An asthma exacerbation was defined as a worsening of asthma symptoms that led to any of the following: a) Temporary bolus/burst of systemic corticosteroids ( $\geq 3$  consecutive days); b) Single depo-injectable dose of corticosteroids (equivalent to a 3-day bolus/burst); c) Visit to emergency room/urgent care (treatment  $< 24$  hours) requiring systemic corticosteroids; d) Hospitalization (admission/evaluation  $\geq 24$  hours) due to asthma. The FAS population included for this endpoint, all randomised patients, irrespective of their protocol adherence and continued participation in the study.

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

End point timeframe:

From Week 0 up to Week 48

| End point values                 | Treatment reduction | Reference           |  |  |
|----------------------------------|---------------------|---------------------|--|--|
| Subject group type               | Reporting group     | Reporting group     |  |  |
| Number of subjects analysed      | 125                 | 43                  |  |  |
| Units: Rate                      |                     |                     |  |  |
| number (confidence interval 95%) | 0.14 (0.09 to 0.23) | 0.14 (0.06 to 0.31) |  |  |

## Statistical analyses

No statistical analyses for this end point

## Secondary: Total daily ICS dose (maintenance + reliever) at the end of the reduction period

|                 |                                                                                  |
|-----------------|----------------------------------------------------------------------------------|
| End point title | Total daily ICS dose (maintenance + reliever) at the end of the reduction period |
|-----------------|----------------------------------------------------------------------------------|

End point description:

The mean total daily ICS dose (maintenance + reliever) during the 8 weeks prior to end of the reduction period was assessed. The FAS population included for this endpoint, all randomised patients, irrespective of their protocol adherence and continued participation in the study.

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

End point timeframe:

At Week 32

| End point values                     | Treatment reduction       | Reference                  |  |  |
|--------------------------------------|---------------------------|----------------------------|--|--|
| Subject group type                   | Reporting group           | Reporting group            |  |  |
| Number of subjects analysed          | 120                       | 39                         |  |  |
| Units: Microgram                     |                           |                            |  |  |
| arithmetic mean (standard deviation) | 380.028 ( $\pm$ 440.4995) | 1401.796 ( $\pm$ 316.9718) |  |  |

## Statistical analyses

No statistical analyses for this end point

## Secondary: Proportion of participants using the same Symbicort® daily dose at the end of the maintenance period (Week 48) that they achieved at the end of the reduction period (Week 32)

|                 |                                                                                                                                                                                               |
|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| End point title | Proportion of participants using the same Symbicort® daily dose at the end of the maintenance period (Week 48) that they achieved at the end of the reduction period (Week 32) <sup>[3]</sup> |
|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

End point description:

Proportion of patients using the same Symbicort daily dose at the end of the maintenance period that they achieved at the end of the reduction period. Proportions were based on patients with non-missing Week 32 and Week 48 Symbicort doses. The FAS population included for this endpoint, all randomised patients, irrespective of their protocol adherence and continued participation in the study.

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

End point timeframe:

At Week 48

Notes:

[3] - The end point is not reporting statistics for all the arms in the baseline period. It is expected all the baseline period arms will be reported on when providing values for an end point on the baseline period.  
Justification: No statistical analysis was performed.

| End point values                 | Treatment reduction      |  |  |  |
|----------------------------------|--------------------------|--|--|--|
| Subject group type               | Reporting group          |  |  |  |
| Number of subjects analysed      | 118                      |  |  |  |
| Units: Proportion                |                          |  |  |  |
| number (confidence interval 95%) | 0.958 (0.9039 to 0.9861) |  |  |  |

### Statistical analyses

No statistical analyses for this end point

### Secondary: Number of patients with at least 1 exacerbation occurring from end of the reduction period to end of the maintenance period

|                 |                                                                                                                             |
|-----------------|-----------------------------------------------------------------------------------------------------------------------------|
| End point title | Number of patients with at least 1 exacerbation occurring from end of the reduction period to end of the maintenance period |
|-----------------|-----------------------------------------------------------------------------------------------------------------------------|

End point description:

Number of patients with at least 1 exacerbation occurring from end of the reduction period to end of the maintenance period. The FAS population included for this endpoint, all randomised patients, irrespective of their protocol adherence and continued participation in the study.

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

End point timeframe:

From Week 32 to Week 48

| End point values            | Treatment reduction | Reference       |  |  |
|-----------------------------|---------------------|-----------------|--|--|
| Subject group type          | Reporting group     | Reporting group |  |  |
| Number of subjects analysed | 125                 | 43              |  |  |
| Units: Participants         | 5                   | 4               |  |  |

### Statistical analyses

No statistical analyses for this end point

### Secondary: Total daily ICS dose from the end of the reduction period to the end of the maintenance period

|                 |                                                                                                |
|-----------------|------------------------------------------------------------------------------------------------|
| End point title | Total daily ICS dose from the end of the reduction period to the end of the maintenance period |
|-----------------|------------------------------------------------------------------------------------------------|

End point description:

Total daily ICS dose from the end of the reduction period to the end of the maintenance period. The FAS

population included for this endpoint, all randomised patients, irrespective of their protocol adherence and continued participation in the study. Here, "n" represents the number of patients analyzed for each row of this endpoint.

|                               |           |
|-------------------------------|-----------|
| End point type                | Secondary |
| End point timeframe:          |           |
| Week 32, Week 40, and Week 48 |           |

| End point values                     | Treatment reduction  | Reference             |  |  |
|--------------------------------------|----------------------|-----------------------|--|--|
| Subject group type                   | Reporting group      | Reporting group       |  |  |
| Number of subjects analysed          | 119                  | 38                    |  |  |
| Units: Microgram                     |                      |                       |  |  |
| arithmetic mean (standard deviation) |                      |                       |  |  |
| Week 32 (n= 119; 38)                 | 383.221 (± 440.9649) | 1438.685 (± 220.6355) |  |  |
| Week 40 (n= 119; 38)                 | 408.458 (± 475.6986) | 1424.624 (± 321.5752) |  |  |
| Week 48 (n= 117; 38)                 | 376.356 (± 449.6614) | 1265.356 (± 472.5244) |  |  |

## Statistical analyses

No statistical analyses for this end point

## Secondary: Change in ACQ-5 from the end of the reduction period to the end of the maintenance period

|                                                                                                                                                                                                                                           |                                                                                           |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|
| End point title                                                                                                                                                                                                                           | Change in ACQ-5 from the end of the reduction period to the end of the maintenance period |
| End point description:                                                                                                                                                                                                                    |                                                                                           |
| Change in ACQ-5 score from end of reduction to end of maintenance is reported. The FAS population included for this endpoint, all randomised patients, irrespective of their protocol adherence and continued participation in the study. |                                                                                           |
| End point type                                                                                                                                                                                                                            | Secondary                                                                                 |
| End point timeframe:                                                                                                                                                                                                                      |                                                                                           |
| From Week 32 to Week 48                                                                                                                                                                                                                   |                                                                                           |

| End point values                     | Treatment reduction | Reference       |  |  |
|--------------------------------------|---------------------|-----------------|--|--|
| Subject group type                   | Reporting group     | Reporting group |  |  |
| Number of subjects analysed          | 110                 | 34              |  |  |
| Units: Change in score               |                     |                 |  |  |
| arithmetic mean (standard deviation) | -0.07 (± 0.575)     | -0.20 (± 0.814) |  |  |

## Statistical analyses

No statistical analyses for this end point

### Secondary: Change in FEV1 from the end of the reduction period to the end of the maintenance period

|                 |                                                                                          |
|-----------------|------------------------------------------------------------------------------------------|
| End point title | Change in FEV1 from the end of the reduction period to the end of the maintenance period |
|-----------------|------------------------------------------------------------------------------------------|

End point description:

The change from the end of the reduction period to the end of the maintenance period for pre-bronchodilator Forced Expiratory Volume in 1 second (FEV1) was calculated as Week 48 pre-bronchodilator FEV1 (Liter [L]) minus the maintenance period baseline pre-bronchodilator FEV1 (L). The FEV1 is the maximal volume of air exhaled in the first second of a forced expiration from a position of full inspiration, expressed in liters. The FAS population included for this endpoint, all randomised patients, irrespective of their protocol adherence and continued participation in the study.

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

End point timeframe:

From Week 32 to Week 48

| End point values                     | Treatment reduction    | Reference              |  |  |
|--------------------------------------|------------------------|------------------------|--|--|
| Subject group type                   | Reporting group        | Reporting group        |  |  |
| Number of subjects analysed          | 100                    | 30                     |  |  |
| Units: Liter                         |                        |                        |  |  |
| arithmetic mean (standard deviation) | 0.0089 ( $\pm$ 0.2320) | 0.0040 ( $\pm$ 0.2264) |  |  |

## Statistical analyses

No statistical analyses for this end point

### Secondary: Change in AQLQ(S)+12 from the end of the reduction period to the end of the maintenance period

|                 |                                                                                                |
|-----------------|------------------------------------------------------------------------------------------------|
| End point title | Change in AQLQ(S)+12 from the end of the reduction period to the end of the maintenance period |
|-----------------|------------------------------------------------------------------------------------------------|

End point description:

Change in AQLQ(S)+12 from the end of the reduction period to the end of the maintenance period is reported. The FAS population included for this endpoint, all randomised patients, irrespective of their protocol adherence and continued participation in the study.

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

End point timeframe:

From Week 32 to Week 48

| End point values                     | Treatment reduction | Reference        |  |  |
|--------------------------------------|---------------------|------------------|--|--|
| Subject group type                   | Reporting group     | Reporting group  |  |  |
| Number of subjects analysed          | 97                  | 31               |  |  |
| Units: Change in score               |                     |                  |  |  |
| arithmetic mean (standard deviation) | -0.008 (± 0.4720)   | 0.060 (± 0.5658) |  |  |

## Statistical analyses

No statistical analyses for this end point

## Secondary: Number of patients that met each composite endpoint defining clinical remission

|                 |                                                                                 |
|-----------------|---------------------------------------------------------------------------------|
| End point title | Number of patients that met each composite endpoint defining clinical remission |
|-----------------|---------------------------------------------------------------------------------|

End point description:

Clinical remission in patients at end of the reduction and maintenance periods was assessed. A remission score, based on the number of remission criteria achieved at week 32 or week 48, was calculated for patients who met 0, 1, 2, and all 3 remission criteria (zero exacerbations, ACQ-5 < 1.5, or ACQ-5 ≤ 0.75, < 10% FEV1 deterioration). The FAS population included for this endpoint, all randomised patients, irrespective of their protocol adherence and continued participation in the study. Here, "n" represents the number of patients analyzed for each row of this endpoint.

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

End point timeframe:

At Week 32 and Week 48

| End point values                               | Treatment reduction | Reference       |  |  |
|------------------------------------------------|---------------------|-----------------|--|--|
| Subject group type                             | Reporting group     | Reporting group |  |  |
| Number of subjects analysed                    | 119                 | 38              |  |  |
| Units: Participants                            |                     |                 |  |  |
| No asthma exacerbation at Week 32 (n= 119; 38) | 108                 | 37              |  |  |
| No asthma exacerbation at Week 48 (n= 117; 37) | 101                 | 32              |  |  |
| ACQ-5 <1.5 at Week 32 (n= 115; 35)             | 106                 | 32              |  |  |
| ACQ-5 <1.5 at Week 48 (n= 113; 35)             | 103                 | 32              |  |  |
| ACQ-5 ≤ 0.75 at Week 32 (n= 115; 35)           | 65                  | 21              |  |  |
| ACQ-5 ≤ 0.75 at Week 48 (n= 113; 35)           | 68                  | 21              |  |  |
| FEV1<10% decrease at Week 32 (n= 89; 31)       | 59                  | 26              |  |  |
| FEV1 < 10% decrease at Week 48 (n= 92; 29)     | 66                  | 23              |  |  |

## Statistical analyses

**Secondary: Number of patients that met 0, 1, 2, and all 3 composite remission endpoints**

|                 |                                                                              |
|-----------------|------------------------------------------------------------------------------|
| End point title | Number of patients that met 0, 1, 2, and all 3 composite remission endpoints |
|-----------------|------------------------------------------------------------------------------|

## End point description:

Clinical remission in patients at end of the reduction and maintenance periods was assessed. A remission score, based on the number of remission criteria achieved at week 32 or week 48, was calculated for patients who met 0, 1, 2, and all 3 remission criteria (zero exacerbations, ACQ-5 < 1.5, or ACQ-5 ≤ 0.75, < 10% FEV1 deterioration). The FAS population included for this endpoint, all randomised patients, irrespective of their protocol adherence and continued participation in the study. Here, #1a is defined as zero exacerbation, ACQ-5 ≤ 0.75, FEV1 < 10% decrease from baseline, and #1b as zero exacerbation, ACQ-5 < 1.5, FEV1 < 10% decrease from baseline. Also "n" represents the number of patients analyzed for each row of this endpoint.

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

## End point timeframe:

At Week 32 and Week 48

| End point values                                  | Treatment reduction | Reference       |  |  |
|---------------------------------------------------|---------------------|-----------------|--|--|
| Subject group type                                | Reporting group     | Reporting group |  |  |
| Number of subjects analysed                       | 89                  | 28              |  |  |
| Units: Participants                               |                     |                 |  |  |
| Remission score (0) #1a at week 32<br>(n= 86; 28) | 2                   | 0               |  |  |
| Remission score (1) #1a at week 32<br>(n= 86; 28) | 15                  | 5               |  |  |
| Remission score (2) #1a at week 32<br>(n= 86; 28) | 40                  | 8               |  |  |
| Remission score (3) #1a at week 32<br>(n= 86; 28) | 29                  | 15              |  |  |
| Remission score (0) #1a at week 48<br>(n= 89; 28) | 1                   | 1               |  |  |
| Remission score (1) #1a at week 48<br>(n= 89; 28) | 15                  | 4               |  |  |
| Remission score (2) #1a at week 48<br>(n= 89; 28) | 41                  | 9               |  |  |
| Remission score (3) #1a at week 48<br>(n= 89; 28) | 32                  | 14              |  |  |
| Remission score (0) #1b at week 32<br>(n= 86; 28) | 1                   | 0               |  |  |
| Remission score (1) #1b at week 32<br>(n= 86; 28) | 5                   | 2               |  |  |
| Remission score (2) #1b at week 32<br>(n= 86; 28) | 32                  | 5               |  |  |
| Remission score (3) #1b at week 32<br>(n= 86; 28) | 48                  | 21              |  |  |
| Remission score (0) #1b at week 48<br>(n= 89; 28) | 0                   | 0               |  |  |
| Remission score (1) #1b at week 48<br>(n= 89; 28) | 5                   | 2               |  |  |
| Remission score (2) #1b at week 48<br>(n= 89; 28) | 36                  | 7               |  |  |
| Remission score (3) #1b at week 48<br>(n= 89; 28) | 48                  | 19              |  |  |

## Statistical analyses

No statistical analyses for this end point

## Secondary: Number of patients with adverse events or serious adverse events

|                 |                                                                  |
|-----------------|------------------------------------------------------------------|
| End point title | Number of patients with adverse events or serious adverse events |
|-----------------|------------------------------------------------------------------|

End point description:

The safety and tolerability of benralizumab in patients with severe asthma, while stepping down Symbicort® maintenance treatment and maintaining asthma symptom control was assessed. The safety analysis set (SAF) included for this endpoint, all patients from the FAS who receive any amount of study treatment and will be used for all safety analyses.

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

End point timeframe:

From Week 0 (randomization) to Week 48 or end of treatment (total period of study is 2.5 years)

| End point values                                  | Treatment reduction | Reference       |  |  |
|---------------------------------------------------|---------------------|-----------------|--|--|
| Subject group type                                | Reporting group     | Reporting group |  |  |
| Number of subjects analysed                       | 125                 | 42              |  |  |
| Units: Participants                               |                     |                 |  |  |
| Any adverse event (AE)                            | 91                  | 35              |  |  |
| Any AE with outcome = death                       | 0                   | 0               |  |  |
| Serious adverse events, including deaths.         | 12                  | 5               |  |  |
| Any AE leading to discontinuation of benralizumab | 3                   | 1               |  |  |
| Any AE leading to discontinuation of Symbicort    | 3                   | 1               |  |  |
| Any AE leading to discontinuation of Ventolin     | 2                   | 1               |  |  |
| Any AE leading to withdrawal from study           | 3                   | 1               |  |  |

## Statistical analyses

No statistical analyses for this end point

## Adverse events

### Adverse events information

Timeframe for reporting adverse events:

From Week 0 (randomization) to Week 48 or end of treatment (total period of study is 2.5 years)

Adverse event reporting additional description:

The safety analysis set (SAF) included all patients from the FAS who receive any amount of study treatment and will be used for all safety analyses.

|                 |                |
|-----------------|----------------|
| Assessment type | Non-systematic |
|-----------------|----------------|

### Dictionary used

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

|                    |      |
|--------------------|------|
| Dictionary version | 25.1 |
|--------------------|------|

### Reporting groups

|                       |           |
|-----------------------|-----------|
| Reporting group title | Reference |
|-----------------------|-----------|

Reporting group description:

Patients received benralizumab 30 mg Q8W + high-dose Symbicort® 400/12 µg maintenance × 2 inhalations BID + Ventolin® (salbutamol 100 µg) reliever PRN therapy. Eligible patients randomised to the reference arm continued on high-dose Symbicort® maintenance treatment and Ventolin® reliever treatment.

|                       |                     |
|-----------------------|---------------------|
| Reporting group title | Treatment reduction |
|-----------------------|---------------------|

Reporting group description:

Patients received benralizumab 30 mg every 8 weeks (Q8W) during the study period, and high-dose Symbicort maintenance 400/12 µg ×2 inhalations BID + Ventolin (salbutamol 100 µg) reliever as needed (PRN), tapering to, medium-dose Symbicort 200/6 µg ×2 inhalations BID maintenance + Symbicort 200/6 µg reliever PRN, low dose Symbicort 200/6 µg × 1 inhalation BID maintenance + Symbicort 200/6 µg reliever PRN; or Symbicort 200/6 µg reliever only, as per tapering scheme and depending on the degree of asthma control). The reduction period in this arm lasted for 32 weeks.

| Serious adverse events                                              | Reference       | Treatment reduction |  |
|---------------------------------------------------------------------|-----------------|---------------------|--|
| Total subjects affected by serious adverse events                   |                 |                     |  |
| subjects affected / exposed                                         | 5 / 42 (11.90%) | 12 / 125 (9.60%)    |  |
| number of deaths (all causes)                                       | 0               | 0                   |  |
| number of deaths resulting from adverse events                      | 0               | 0                   |  |
| Neoplasms benign, malignant and unspecified (incl cysts and polyps) |                 |                     |  |
| Gallbladder adenocarcinoma                                          |                 |                     |  |
| subjects affected / exposed                                         | 0 / 42 (0.00%)  | 1 / 125 (0.80%)     |  |
| occurrences causally related to treatment / all                     | 0 / 0           | 0 / 1               |  |
| deaths causally related to treatment / all                          | 0 / 0           | 0 / 0               |  |
| Injury, poisoning and procedural complications                      |                 |                     |  |
| Spinal compression fracture                                         |                 |                     |  |
| subjects affected / exposed                                         | 0 / 42 (0.00%)  | 1 / 125 (0.80%)     |  |
| occurrences causally related to treatment / all                     | 0 / 0           | 0 / 1               |  |
| deaths causally related to treatment / all                          | 0 / 0           | 0 / 0               |  |

|                                                 |                |                 |  |
|-------------------------------------------------|----------------|-----------------|--|
| Ankle fracture                                  |                |                 |  |
| subjects affected / exposed                     | 0 / 42 (0.00%) | 1 / 125 (0.80%) |  |
| occurrences causally related to treatment / all | 0 / 0          | 0 / 1           |  |
| deaths causally related to treatment / all      | 0 / 0          | 0 / 0           |  |
| Vaccination complication                        |                |                 |  |
| subjects affected / exposed                     | 1 / 42 (2.38%) | 0 / 125 (0.00%) |  |
| occurrences causally related to treatment / all | 0 / 1          | 0 / 0           |  |
| deaths causally related to treatment / all      | 0 / 0          | 0 / 0           |  |
| Cardiac disorders                               |                |                 |  |
| Atrial flutter                                  |                |                 |  |
| subjects affected / exposed                     | 1 / 42 (2.38%) | 0 / 125 (0.00%) |  |
| occurrences causally related to treatment / all | 0 / 1          | 0 / 0           |  |
| deaths causally related to treatment / all      | 0 / 0          | 0 / 0           |  |
| Nervous system disorders                        |                |                 |  |
| Seizure                                         |                |                 |  |
| subjects affected / exposed                     | 0 / 42 (0.00%) | 1 / 125 (0.80%) |  |
| occurrences causally related to treatment / all | 0 / 0          | 0 / 1           |  |
| deaths causally related to treatment / all      | 0 / 0          | 0 / 0           |  |
| Immune system disorders                         |                |                 |  |
| Eosinophilic granulomatosis with polyangiitis   |                |                 |  |
| subjects affected / exposed                     | 0 / 42 (0.00%) | 1 / 125 (0.80%) |  |
| occurrences causally related to treatment / all | 0 / 0          | 0 / 1           |  |
| deaths causally related to treatment / all      | 0 / 0          | 0 / 0           |  |
| Reproductive system and breast disorders        |                |                 |  |
| Postmenopausal haemorrhage                      |                |                 |  |
| subjects affected / exposed                     | 0 / 42 (0.00%) | 1 / 125 (0.80%) |  |
| occurrences causally related to treatment / all | 0 / 0          | 0 / 1           |  |
| deaths causally related to treatment / all      | 0 / 0          | 0 / 0           |  |
| Gastrointestinal disorders                      |                |                 |  |
| Inguinal hernia                                 |                |                 |  |
| subjects affected / exposed                     | 1 / 42 (2.38%) | 0 / 125 (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 |                |                 |  |

|                                                 |                |                 |  |
|-------------------------------------------------|----------------|-----------------|--|
| Pulmonary embolism                              |                |                 |  |
| subjects affected / exposed                     | 0 / 42 (0.00%) | 1 / 125 (0.80%) |  |
| occurrences causally related to treatment / all | 0 / 0          | 0 / 1           |  |
| deaths causally related to treatment / all      | 0 / 0          | 0 / 0           |  |
| Asthma                                          |                |                 |  |
| subjects affected / exposed                     | 1 / 42 (2.38%) | 0 / 125 (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                     |                |                 |  |
| Periorbital abscess                             |                |                 |  |
| subjects affected / exposed                     | 0 / 42 (0.00%) | 1 / 125 (0.80%) |  |
| occurrences causally related to treatment / all | 0 / 0          | 0 / 1           |  |
| deaths causally related to treatment / all      | 0 / 0          | 0 / 0           |  |
| Orchitis                                        |                |                 |  |
| subjects affected / exposed                     | 0 / 42 (0.00%) | 1 / 125 (0.80%) |  |
| occurrences causally related to treatment / all | 0 / 0          | 0 / 1           |  |
| deaths causally related to treatment / all      | 0 / 0          | 0 / 0           |  |
| Lower respiratory tract infection               |                |                 |  |
| subjects affected / exposed                     | 0 / 42 (0.00%) | 1 / 125 (0.80%) |  |
| occurrences causally related to treatment / all | 0 / 0          | 0 / 1           |  |
| deaths causally related to treatment / all      | 0 / 0          | 0 / 0           |  |
| Helicobacter infection                          |                |                 |  |
| subjects affected / exposed                     | 1 / 42 (2.38%) | 0 / 125 (0.00%) |  |
| occurrences causally related to treatment / all | 0 / 1          | 0 / 0           |  |
| deaths causally related to treatment / all      | 0 / 0          | 0 / 0           |  |
| Influenza                                       |                |                 |  |
| subjects affected / exposed                     | 0 / 42 (0.00%) | 1 / 125 (0.80%) |  |
| occurrences causally related to treatment / all | 0 / 0          | 0 / 1           |  |
| deaths causally related to treatment / all      | 0 / 0          | 0 / 0           |  |
| Metabolism and nutrition disorders              |                |                 |  |
| Diabetes mellitus inadequate control            |                |                 |  |
| subjects affected / exposed                     | 0 / 42 (0.00%) | 1 / 125 (0.80%) |  |
| 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>                     | Reference        | Treatment reduction |  |
|-------------------------------------------------------|------------------|---------------------|--|
| Total subjects affected by non-serious adverse events |                  |                     |  |
| subjects affected / exposed                           | 20 / 42 (47.62%) | 46 / 125 (36.80%)   |  |
| Respiratory, thoracic and mediastinal disorders       |                  |                     |  |
| Asthma                                                |                  |                     |  |
| subjects affected / exposed                           | 4 / 42 (9.52%)   | 17 / 125 (13.60%)   |  |
| occurrences (all)                                     | 4                | 20                  |  |
| Infections and infestations                           |                  |                     |  |
| COVID-19                                              |                  |                     |  |
| subjects affected / exposed                           | 9 / 42 (21.43%)  | 19 / 125 (15.20%)   |  |
| occurrences (all)                                     | 9                | 19                  |  |
| Bronchitis                                            |                  |                     |  |
| subjects affected / exposed                           | 1 / 42 (2.38%)   | 7 / 125 (5.60%)     |  |
| occurrences (all)                                     | 1                | 8                   |  |
| Rhinitis                                              |                  |                     |  |
| subjects affected / exposed                           | 3 / 42 (7.14%)   | 1 / 125 (0.80%)     |  |
| occurrences (all)                                     | 4                | 1                   |  |
| Nasopharyngitis                                       |                  |                     |  |
| subjects affected / exposed                           | 7 / 42 (16.67%)  | 10 / 125 (8.00%)    |  |
| occurrences (all)                                     | 8                | 12                  |  |

## More information

### Substantial protocol amendments (globally)

Were there any global substantial amendments to the protocol? Yes

| Date              | Amendment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 10 July 2020      | Amendment 1 Version 2.0: Removal of nasosorption sampling and addition of SARS-CoV-2 test and induced sputum sampling; study mitigation during study disruptions due to cases of civil crisis, natural disaster, or public health crisis which will provide sites with measures that may be implemented if a patient is not able to visit a study site to ensure that the clinical trial can continue whilst minimizing risk to the patient, maintaining compliance with Good Clinical Practice, and minimizing risks to the study integrity. |
| 17 September 2021 | Amendment 2 Version 3.0: Updated the estimated date of last patient completed; Added new criteria to include details about patients who received COVID-19 vaccination; New section was added to explain restrictions related to blood donation; Added new row to study treatment table to include conversion of 200/6 and 400/12 Symbicort into 'total' µg; Added wording about home completion of COVID- 19 related electronic patient reported outcome; Added new population for analysis-Safety Analysis. set                              |
| 15 November 2022  | Amendment 3 Version 4.0: Updated to add a secondary endpoint ie, clinical remission; Deleted reference to analysis after patients reach V6 (32 weeks).                                                                                                                                                                                                                                                                                                                                                                                        |

Notes:

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### Interruptions (globally)

Were there any global interruptions to the trial? No

### Limitations and caveats

None reported