



Clinical trial results:

A randomized, double-blind, multiple dosing (14 days), placebo-controlled, incomplete block crossover, multi-center study to assess efficacy and safety of three dose levels of AZD7594, given once daily by inhalation, in patients with mild to moderate asthma.

Summary

| | |
|--------------------------|------------------|
| EudraCT number | 2014-005306-37 |
| Trial protocol | DE BG |
| Global end of trial date | 08 February 2016 |

Results information

| | |
|--------------------------------|------------------|
| Result version number | v1 (current) |
| This version publication date | 19 February 2017 |
| First version publication date | 19 February 2017 |

Trial information

Trial identification

| | |
|-----------------------|-------------|
| Sponsor protocol code | D3741C00003 |
|-----------------------|-------------|

Additional study identifiers

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

Notes:

Sponsors

| | |
|------------------------------|--|
| Sponsor organisation name | AstraZeneca AB |
| Sponsor organisation address | Forskargatan 18,, Södertälje, Sweden, 15185 |
| Public contact | Information Centre, AstraZeneca AB, Information Centre, AstraZeneca AB, +1 800 2369933, information.centre@astrazeneca.com |
| Scientific contact | Global Clinical Leader, Information Centre, AstraZeneca AB, ClinicalTrialTransparency@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 | 08 February 2016 |
| Is this the analysis of the primary completion data? | Yes |
| Primary completion date | 08 February 2016 |
| Global end of trial reached? | Yes |
| Global end of trial date | 08 February 2016 |
| Was the trial ended prematurely? | No |

Notes:

General information about the trial

Main objective of the trial:

The primary objective was to investigate the efficacy of AZD7594 as measured by change in trough forced expiratory volume in 1 sec (FEV1) from baseline, as compared to placebo.

Protection of trial subjects:

This study was designed and monitored in accordance with with the ethical principles of Good Clinical Practice (GCP) guidelines of the International Conference on Harmonization (ICH) as required by the major regulatory authorities, and in accordance with the Declaration of Helsinki (1996). The study was carried out in keeping with local legal requirements as well. The patients were informed of the nature, significance, implications, and risks of the research study. Informed consent was recorded in writing, dated, and signed by the patients before the start of the study, as evidence to indicate that their informed consent was given freely. This consent form was dated and retained by the Investigator as part of the study records. No study-related procedure was performed prior to obtaining informed consent from the patient. The terms of the consent and when it was obtained was also documented in the electronic case report form (eCRF). Informed consent was obtained in line with the Declaration of Helsinki (1996), the current requirements of GCP (Committee for Proprietary Medicinal Products/ICH/135/95), and local regulation – whichever afforded the greatest patient protection. If a protocol amendment was required, the informed consent form (ICF) was revised to reflect the changes to the protocol. If the ICF was revised, it was reviewed and approved by the appropriate independent ethics committee (IEC), and signed by all patients subsequently enrolled in the study as well as those currently enrolled in the study.

Background therapy:

-

Evidence for comparator:

-

| | |
|---|--------------|
| Actual start date of recruitment | 25 June 2015 |
| 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 | Germany: 50 |
| Country: Number of subjects enrolled | Bulgaria: 4 |
| Worldwide total number of subjects | 54 |
| EEA total number of subjects | 54 |

Notes:

| Subjects enrolled per age group | |
|---|----|
| In utero | 0 |
| Preterm newborn - gestational age < 37 wk | 0 |
| Newborns (0-27 days) | 0 |
| Infants and toddlers (28 days-23 months) | 0 |
| Children (2-11 years) | 0 |
| Adolescents (12-17 years) | 0 |
| Adults (18-64 years) | 54 |
| From 65 to 84 years | 0 |
| 85 years and over | 0 |

Subject disposition

Recruitment

Recruitment details:

The study was conducted in Germany (9 centers) & Bulgaria (1 center). 110 participants were enrolled (signed informed consent). A total of 54 participants with mild to moderate asthma were randomized after screening, and received study treatment (AZD7594 or placebo) given over 3 Treatment Periods in an incomplete block crossover design.

Pre-assignment

Screening details:

The study consisted of a 2-part run-in period, 3 treatment periods separated by intervening wash-out periods, and a final period of safety follow-up.

Period 1

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

Blinding implementation details:

The study blind was to be broken only in the case of a medical emergency, where knowledge of the IP received could affect the choice of treatment, and in case of a regulatory requirement (eg, for a serious adverse event [SAE] or death).

Arms

| | |
|------------------------------|--|
| Are arms mutually exclusive? | Yes |
| Arm title | Sequence 1 (Placebo + AZD7594 58 µg + AZD7594 250 µg) |

Arm description:

Placebo once daily for 14 days in Period 1, 58 µg AZD7594 once daily for 14 days in Period 2 and 250 µg AZD7594 once daily for 14 days in Period 3

| | |
|--|---------------------------------|
| Arm type | Experimental |
| Investigational medicinal product name | AZD7594 |
| Investigational medicinal product code | AZD7594 |
| Other name | |
| Pharmaceutical forms | Inhalation powder, hard capsule |
| Routes of administration | Inhalation use |

Dosage and administration details:

Placebo once daily for 14 days in Period 1, AZD7594 58 µg once daily for 14 days in Period 2 and AZD7594 250 µg once daily for 14 days in Period 3

| | |
|------------------|--|
| Arm title | Sequence 2 (Placebo + AZD7594 250 µg + AZD7594 800 µg) |
|------------------|--|

Arm description:

Placebo once daily for 14 days in Period 1, 250 µg AZD7594 once daily for 14 days in Period 2 and 800 µg AZD7594 once daily for 14 days in Period 3

| | |
|--|---------------------------------|
| Arm type | Experimental |
| Investigational medicinal product name | AZD7594 |
| Investigational medicinal product code | AZD7594 |
| Other name | |
| Pharmaceutical forms | Inhalation powder, hard capsule |
| Routes of administration | Inhalation use |

Dosage and administration details:

Placebo once daily for 14 days in Period 1, AZD7594 250 µg once daily for 14 days in Period 2 and AZD7594 800 µg once daily for 14 days in Period 3

| | |
|------------------|--|
| Arm title | Sequence 3 (Placebo + AZD7594 800 µg + AZD7594 58 µg) |
|------------------|--|

Arm description:
Placebo once daily for 14 days in Period 1, 800 µg AZD7594 once daily for 14 days in Period 2 and 58 µg AZD7594 once daily for 14 days in Period 3

| | |
|--|---------------------------------|
| Arm type | Experimental |
| Investigational medicinal product name | AZD7594 |
| Investigational medicinal product code | AZD7594 |
| Other name | |
| Pharmaceutical forms | Inhalation powder, hard capsule |
| Routes of administration | Inhalation use |

Dosage and administration details:

Placebo once daily for 14 days in Period 1, AZD7594 800 µg once daily for 14 days in Period 2 and AZD7594 58 µg once daily for 14 days in Period 3

| | |
|------------------|---|
| Arm title | Sequence 4 (AZD7594 58 µg + Placebo + AZD7594 800 µg) |
|------------------|---|

Arm description:

58 µg AZD7594 once daily for 14 days in Period 1, Placebo once daily for 14 days in Period 2 and 800 µg AZD7594 once daily for 14 days in Period 3

| | |
|--|---------------------------------|
| Arm type | Experimental |
| Investigational medicinal product name | AZD7594 |
| Investigational medicinal product code | AZD7594 |
| Other name | |
| Pharmaceutical forms | Inhalation powder, hard capsule |
| Routes of administration | Inhalation use |

Dosage and administration details:

AZD7594 58 µg once daily for 14 days in Period 1, Placebo once daily for 14 days in Period 2 and AZD7594 800 µg once daily for 14 days in Period 3

| | |
|------------------|---|
| Arm title | Sequence 5 (AZD7594 58 µg + AZD7594 800 µg + Placebo) |
|------------------|---|

Arm description:

58 µg AZD7594 once daily for 14 days in Period 1, 800 µg AZD7594 once daily for 14 days in Period 2 and Placebo once daily for 14 days in Period 3

| | |
|--|---------------------------------|
| Arm type | Experimental |
| Investigational medicinal product name | AZD7594 |
| Investigational medicinal product code | AZD7594 |
| Other name | |
| Pharmaceutical forms | Inhalation powder, hard capsule |
| Routes of administration | Inhalation use |

Dosage and administration details:

AZD7594 58 µg once daily for 14 days in Period 1, AZD7594 800 µg once daily for 14 days in Period 2 and Placebo once daily for 14 days in Period 3

| | |
|------------------|---|
| Arm title | Sequence 6 (AZD7594 250 µg + Placebo + AZD7594 58 µg) |
|------------------|---|

Arm description:

250 µg AZD7594 once daily for 14 days in Period 1, Placebo once daily for 14 days in Period 2 and 58 µg AZD7594 once daily for 14 days in Period 3

| | |
|--|---------------------------------|
| Arm type | Experimental |
| Investigational medicinal product name | AZD7594 |
| Investigational medicinal product code | AZD7594 |
| Other name | |
| Pharmaceutical forms | Inhalation powder, hard capsule |
| Routes of administration | Inhalation use |

Dosage and administration details:

AZD7594 250 µg once daily for 14 days in Period 1, Placebo once daily for 14 days in Period 2 and AZD7594 58 µg once daily for 14 days in Period 3

| | |
|------------------|--|
| Arm title | Sequence 7 (AZD7594 250 µg + AZD7594 58 µg + Placebo) |
|------------------|--|

Arm description:

250 µg AZD7594 once daily for 14 days in Period 1, 58 µg AZD7594 once daily for 14 days in Period 2 and Placebo once daily for 14 days in Period 3

| | |
|--|---------------------------------|
| Arm type | Experimental |
| Investigational medicinal product name | AZD7594 |
| Investigational medicinal product code | AZD7594 |
| Other name | |
| Pharmaceutical forms | Inhalation powder, hard capsule |
| Routes of administration | Inhalation use |

Dosage and administration details:

AZD7594 250 µg once daily for 14 days in Period 1, AZD7594 58 µg once daily for 14 days in Period 2 and Placebo once daily for 14 days in Period 3

| | |
|------------------|--|
| Arm title | Sequence 8 (AZD7594 800 µg + Placebo + AZD7594 250 µg) |
|------------------|--|

Arm description:

800 µg AZD7594 once daily for 14 days in Period 1, Placebo once daily for 14 days in Period 2 and 250 µg AZD7594 once daily for 14 days

| | |
|--|---------------------------------|
| Arm type | Experimental |
| Investigational medicinal product name | AZD7594 |
| Investigational medicinal product code | AZD7594 |
| Other name | |
| Pharmaceutical forms | Inhalation powder, hard capsule |
| Routes of administration | Inhalation use |

Dosage and administration details:

AZD7594 800 µg once daily for 14 days in Period 1, Placebo once daily for 14 days in Period 2 and AZD7594 250 µg once daily for 14 days

| | |
|------------------|--|
| Arm title | Sequence 9 (AZD7594 800 µg + AZD7594 250 µg + Placebo) |
|------------------|--|

Arm description:

800 µg AZD7594 once daily for 14 days in Period 1, 250 µg AZD7594 once daily for 14 days in Period 2 and Placebo once daily for 14 days in Period 3

| | |
|--|---------------------------------|
| Arm type | Experimental |
| Investigational medicinal product name | AZD7594 |
| Investigational medicinal product code | AZD7594 |
| Other name | |
| Pharmaceutical forms | Inhalation powder, hard capsule |
| Routes of administration | Inhalation use |

Dosage and administration details:

AZD7594 800 µg once daily for 14 days in Period 1, AZD7594 250 µg once daily for 14 days in Period 2 and Placebo once daily for 14 days in Period 3

| Number of subjects in period 1 | Sequence 1 (Placebo + AZD7594 58 µg + AZD7594 250 µg) | Sequence 2 (Placebo + AZD7594 250 µg + AZD7594 800 µg) | Sequence 3 (Placebo + AZD7594 800 µg + AZD7594 58 µg) |
|--|--|--|--|
| Started | 6 | 6 | 6 |
| Completed | 6 | 6 | 4 |
| Not completed | 0 | 0 | 2 |
| Adverse event, non-fatal | - | - | 1 |
| Study-specific withdrawal criteria | - | - | 1 |
| Randomization to wrong PK sampling group | - | - | - |

| Number of subjects in period 1 | Sequence 4 (AZD7594 58 µg + Placebo + AZD7594 800 µg) | Sequence 5 (AZD7594 58 µg + AZD7594 800 µg + Placebo) | Sequence 6 (AZD7594 250 µg + Placebo + AZD7594 58 µg) |
|---|--|--|--|
| Started | 7 | 6 | 5 |
| Completed | 6 | 5 | 5 |
| Not completed | 1 | 1 | 0 |
| Adverse event, non-fatal | - | - | - |
| Study-specific withdrawal criteria | 1 | - | - |
| Randomization to wrong PK sampling group | - | 1 | - |

| Number of subjects in period 1 | Sequence 7 (AZD7594 250 µg + AZD7594 58 µg + Placebo) | Sequence 8 (AZD7594 800 µg + Placebo + AZD7594 250 µg) | Sequence 9 (AZD7594 800 µg + AZD7594 250 µg + Placebo) |
|---|--|---|---|
| Started | 6 | 5 | 7 |
| Completed | 6 | 4 | 6 |
| Not completed | 0 | 1 | 1 |
| Adverse event, non-fatal | - | - | - |
| Study-specific withdrawal criteria | - | 1 | 1 |
| Randomization to wrong PK sampling group | - | - | - |

Baseline characteristics

Reporting groups

| | |
|---|---|
| Reporting group title | Sequence 1 (Placebo + AZD7594 58 µg + AZD7594 250 µg) |
| Reporting group description: Placebo once daily for 14 days in Period 1, 58 µg AZD7594 once daily for 14 days in Period 2 and 250 µg AZD7594 once daily for 14 days in Period 3 | |
| Reporting group title | Sequence 2 (Placebo + AZD7594 250 µg + AZD7594 800 µg) |
| Reporting group description: Placebo once daily for 14 days in Period 1, 250 µg AZD7594 once daily for 14 days in Period 2 and 800 µg AZD7594 once daily for 14 days in Period 3 | |
| Reporting group title | Sequence 3 (Placebo + AZD7594 800 µg + AZD7594 58 µg) |
| Reporting group description: Placebo once daily for 14 days in Period 1, 800 µg AZD7594 once daily for 14 days in Period 2 and 58 µg AZD7594 once daily for 14 days in Period 3 | |
| Reporting group title | Sequence 4 (AZD7594 58 µg + Placebo + AZD7594 800 µg) |
| Reporting group description: 58 µg AZD7594 once daily for 14 days in Period 1, Placebo once daily for 14 days in Period 2 and 800 µg AZD7594 once daily for 14 days in Period 3 | |
| Reporting group title | Sequence 5 (AZD7594 58 µg + AZD7594 800 µg + Placebo) |
| Reporting group description: 58 µg AZD7594 once daily for 14 days in Period 1, 800 µg AZD7594 once daily for 14 days in Period 2 and Placebo once daily for 14 days in Period 3 | |
| Reporting group title | Sequence 6 (AZD7594 250 µg + Placebo + AZD7594 58 µg) |
| Reporting group description: 250 µg AZD7594 once daily for 14 days in Period 1, Placebo once daily for 14 days in Period 2 and 58 µg AZD7594 once daily for 14 days in Period 3 | |
| Reporting group title | Sequence 7 (AZD7594 250 µg + AZD7594 58 µg + Placebo) |
| Reporting group description: 250 µg AZD7594 once daily for 14 days in Period 1, 58 µg AZD7594 once daily for 14 days in Period 2 and Placebo once daily for 14 days in Period 3 | |
| Reporting group title | Sequence 8 (AZD7594 800 µg + Placebo + AZD7594 250 µg) |
| Reporting group description: 800 µg AZD7594 once daily for 14 days in Period 1, Placebo once daily for 14 days in Period 2 and 250 µg AZD7594 once daily for 14 days | |
| Reporting group title | Sequence 9 (AZD7594 800 µg + AZD7594 250 µg + Placebo) |
| Reporting group description: 800 µg AZD7594 once daily for 14 days in Period 1, 250 µg AZD7594 once daily for 14 days in Period 2 and Placebo once daily for 14 days in Period 3 | |

| Reporting group values | Sequence 1 (Placebo + AZD7594 58 µg + AZD7594 250 µg) | Sequence 2 (Placebo + AZD7594 250 µg + AZD7594 800 µg) | Sequence 3 (Placebo + AZD7594 800 µg + AZD7594 58 µg) |
|--|--|--|--|
| Number of subjects | 6 | 6 | 6 |
| Age categorical Units: Subjects | | | |
| 18 - 75 years | 6 | 6 | 6 |
| Age Continuous Age (years) Units: years | | | |
| arithmetic mean | 49 | 50 | 56 |
| standard deviation | ± 14 | ± 10 | ± 10 |

| | | | |
|---------------------|---|---|---|
| Gender, Male/Female | | | |
| Units: Participants | | | |
| Female | 1 | 0 | 2 |
| Male | 5 | 6 | 4 |

| | | | |
|-------------------------------|--|--|--|
| Reporting group values | Sequence 4 (AZD7594 58 µg + Placebo + AZD7594 800 µg) | Sequence 5 (AZD7594 58 µg + AZD7594 800 µg + Placebo) | Sequence 6 (AZD7594 250 µg + Placebo + AZD7594 58 µg) |
| Number of subjects | 7 | 6 | 5 |
| Age categorical | | | |
| Units: Subjects | | | |
| 18 - 75 years | 7 | 6 | 5 |
| Age Continuous Age (years) | | | |
| Units: years | | | |
| arithmetic mean | 50 | 49 | 55 |
| standard deviation | ± 17 | ± 7 | ± 9 |
| Gender, Male/Female | | | |
| Units: Participants | | | |
| Female | 0 | 3 | 2 |
| Male | 7 | 3 | 3 |

| | | | |
|-------------------------------|---|--|--|
| Reporting group values | Sequence 7 (AZD7594 250 µg + AZD7594 58 µg + Placebo) | Sequence 8 (AZD7594 800 µg + Placebo + AZD7594 250 µg) | Sequence 9 (AZD7594 800 µg + AZD7594 250 µg + Placebo) |
| Number of subjects | 6 | 5 | 7 |
| Age categorical | | | |
| Units: Subjects | | | |
| 18 - 75 years | 6 | 5 | 7 |
| Age Continuous Age (years) | | | |
| Units: years | | | |
| arithmetic mean | 48 | 55 | 46 |
| standard deviation | ± 14 | ± 14 | ± 13 |
| Gender, Male/Female | | | |
| Units: Participants | | | |
| Female | 0 | 1 | 1 |
| Male | 6 | 4 | 6 |

| | | | |
|-------------------------------|-------|--|--|
| Reporting group values | Total | | |
| Number of subjects | 54 | | |
| Age categorical | | | |
| Units: Subjects | | | |
| 18 - 75 years | 54 | | |
| Age Continuous Age (years) | | | |
| Units: years | | | |
| arithmetic mean | - | | |
| standard deviation | - | | |
| Gender, Male/Female | | | |
| Units: Participants | | | |
| Female | 10 | | |
| Male | 44 | | |

Subject analysis sets

| | |
|--|----------------|
| Subject analysis set title | AZD7594 |
| Subject analysis set type | Full analysis |
| Subject analysis set description: AZD7594 DPI once daily | |
| Subject analysis set title | Placebo (PBO) |
| Subject analysis set type | Full analysis |
| Subject analysis set description: Placebo for AZD7594 DPI once daily | |
| Subject analysis set title | AZD7594 58 µg |
| Subject analysis set type | Full analysis |
| Subject analysis set description: AZD7594 DPI once daily - 2 capsules of 29 µg | |
| Subject analysis set title | AZD7594 250 µg |
| Subject analysis set type | Full analysis |
| Subject analysis set description: AZD7594 DPI once daily - 2 capsules of 125 µg | |
| Subject analysis set title | AZD7594 800 µg |
| Subject analysis set type | Full analysis |
| Subject analysis set description: AZD7594 DPI once daily - 2 capsules of 400 µg | |

| Reporting group values | AZD7594 | Placebo (PBO) | AZD7594 58 µg |
|--|---------|---------------|---------------|
| Number of subjects | 34 | 52 | 34 |
| Age categorical Units: Subjects | | | |
| 18 - 75 years | | 52 | 34 |
| Age Continuous Age (years) Units: years | | | |
| arithmetic mean | | 51 | 51 |
| standard deviation | ± | ± 12 | ± 12 |
| Gender, Male/Female Units: Participants | | | |
| Female | 0 | 8 | 8 |
| Male | 0 | 44 | 26 |

| Reporting group values | AZD7594 250 µg | AZD7594 800 µg | |
|--|----------------|----------------|--|
| Number of subjects | 34 | 34 | |
| Age categorical Units: Subjects | | | |
| 18 - 75 years | 34 | 34 | |
| Age Continuous Age (years) Units: years | | | |
| arithmetic mean | 50 | 51 | |
| standard deviation | ± 12 | ± 12 | |
| Gender, Male/Female Units: Participants | | | |
| Female | 4 | 6 | |
| Male | 30 | 28 | |

End points

End points reporting groups

| | |
|---|---|
| Reporting group title | Sequence 1 (Placebo + AZD7594 58 µg + AZD7594 250 µg) |
| Reporting group description: Placebo once daily for 14 days in Period 1, 58 µg AZD7594 once daily for 14 days in Period 2 and 250 µg AZD7594 once daily for 14 days in Period 3 | |
| Reporting group title | Sequence 2 (Placebo + AZD7594 250 µg + AZD7594 800 µg) |
| Reporting group description: Placebo once daily for 14 days in Period 1, 250 µg AZD7594 once daily for 14 days in Period 2 and 800 µg AZD7594 once daily for 14 days in Period 3 | |
| Reporting group title | Sequence 3 (Placebo + AZD7594 800 µg + AZD7594 58 µg) |
| Reporting group description: Placebo once daily for 14 days in Period 1, 800 µg AZD7594 once daily for 14 days in Period 2 and 58 µg AZD7594 once daily for 14 days in Period 3 | |
| Reporting group title | Sequence 4 (AZD7594 58 µg + Placebo + AZD7594 800 µg) |
| Reporting group description: 58 µg AZD7594 once daily for 14 days in Period 1, Placebo once daily for 14 days in Period 2 and 800 µg AZD7594 once daily for 14 days in Period 3 | |
| Reporting group title | Sequence 5 (AZD7594 58 µg + AZD7594 800 µg + Placebo) |
| Reporting group description: 58 µg AZD7594 once daily for 14 days in Period 1, 800 µg AZD7594 once daily for 14 days in Period 2 and Placebo once daily for 14 days in Period 3 | |
| Reporting group title | Sequence 6 (AZD7594 250 µg + Placebo + AZD7594 58 µg) |
| Reporting group description: 250 µg AZD7594 once daily for 14 days in Period 1, Placebo once daily for 14 days in Period 2 and 58 µg AZD7594 once daily for 14 days in Period 3 | |
| Reporting group title | Sequence 7 (AZD7594 250 µg + AZD7594 58 µg + Placebo) |
| Reporting group description: 250 µg AZD7594 once daily for 14 days in Period 1, 58 µg AZD7594 once daily for 14 days in Period 2 and Placebo once daily for 14 days in Period 3 | |
| Reporting group title | Sequence 8 (AZD7594 800 µg + Placebo + AZD7594 250 µg) |
| Reporting group description: 800 µg AZD7594 once daily for 14 days in Period 1, Placebo once daily for 14 days in Period 2 and 250 µg AZD7594 once daily for 14 days | |
| Reporting group title | Sequence 9 (AZD7594 800 µg + AZD7594 250 µg + Placebo) |
| Reporting group description: 800 µg AZD7594 once daily for 14 days in Period 1, 250 µg AZD7594 once daily for 14 days in Period 2 and Placebo once daily for 14 days in Period 3 | |
| Subject analysis set title | AZD7594 |
| Subject analysis set type | Full analysis |
| Subject analysis set description: AZD7594 DPI once daily | |
| Subject analysis set title | Placebo (PBO) |
| Subject analysis set type | Full analysis |
| Subject analysis set description: Placebo for AZD7594 DPI once daily | |
| Subject analysis set title | AZD7594 58 µg |
| Subject analysis set type | Full analysis |
| Subject analysis set description: AZD7594 DPI once daily - 2 capsules of 29 µg | |
| Subject analysis set title | AZD7594 250 µg |
| Subject analysis set type | Full analysis |

Subject analysis set description:

AZD7594 DPI once daily - 2 capsules of 125 µg

| | |
|----------------------------|----------------|
| Subject analysis set title | AZD7594 800 µg |
| Subject analysis set type | Full analysis |

Subject analysis set description:

AZD7594 DPI once daily - 2 capsules of 400 µg

Primary: Efficacy of AZD7594 by assessment of the change from baseline in morning trough forced expiratory volume in 1 second (FEV1) on Day 15

| | |
|-----------------|---|
| End point title | Efficacy of AZD7594 by assessment of the change from baseline in morning trough forced expiratory volume in 1 second (FEV1) on Day 15 |
|-----------------|---|

End point description:

Comparison of the efficacy of AZD7594 in terms of change from baseline in morning trough forced expiratory volume in 1 second (FEV1) on Day 15 (defined as the average of the values at 23:00 and 23:30 hours after last dose of investigational medicinal product [IMP] on Day 14) with placebo

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

End point timeframe:

On Day 1 (pre-dose) and on Day 15 in each period

| End point values | AZD7594 | Placebo (PBO) | | |
|--|-----------------------------|------------------------------|--|--|
| Subject group type | Subject analysis set | Subject analysis set | | |
| Number of subjects analysed | 33 | 51 | | |
| Units: Liters | | | | |
| least squares mean (confidence interval 95%) | | | | |
| AZD7594 58 µg vs. PBO | 0.08639 (-0.0165 to 0.1893) | 0.05948 (-0.02453 to 0.1435) | | |
| AZD7594 250 µg vs. PBO | 0.1355 (0.03283 to 0.2382) | 0.05948 (-0.02453 to 0.1435) | | |
| AZD7594 800 µg vs. PBO | 0.2072 (0.1041 to 0.3104) | 0.05948 (-0.02453 to 0.1435) | | |

Statistical analyses

| | |
|----------------------------|------------------------|
| Statistical analysis title | Statistical analysis 1 |
|----------------------------|------------------------|

Statistical analysis description:

AZD7594 58 µg vs. Placebo

| | |
|---|--------------------------------|
| Comparison groups | AZD7594 v Placebo (PBO) |
| Number of subjects included in analysis | 84 |
| Analysis specification | Pre-specified |
| Analysis type | superiority |
| P-value | = 0.6379 |
| Method | Mixed models analysis |
| Parameter estimate | Mean difference (final values) |
| Point estimate | 0.02691 |

| | |
|----------------------|----------------------------|
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | -0.08626 |
| upper limit | 0.1401 |
| Variability estimate | Standard error of the mean |
| Dispersion value | 0.05697 |

| | |
|--|--------------------------------|
| Statistical analysis title | Statistical analysis 2 |
| Statistical analysis description: AZD7594 250 µg vs.PBO | |
| Comparison groups | AZD7594 v Placebo (PBO) |
| Number of subjects included in analysis | 84 |
| Analysis specification | Pre-specified |
| Analysis type | superiority |
| P-value | = 0.1827 |
| Method | Mixed models analysis |
| Parameter estimate | Mean difference (final values) |
| Point estimate | 0.07604 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | -0.03645 |
| upper limit | 0.1885 |
| Variability estimate | Standard error of the mean |
| Dispersion value | 0.05663 |

| | |
|---|--------------------------------|
| Statistical analysis title | Statistical analysis 3 |
| Statistical analysis description: AZD7594 800 µg vs. PBO | |
| Comparison groups | AZD7594 v Placebo (PBO) |
| Number of subjects included in analysis | 84 |
| Analysis specification | Pre-specified |
| Analysis type | superiority |
| P-value | = 0.0108 |
| Method | Mixed models analysis |
| Parameter estimate | Mean difference (final values) |
| Point estimate | 0.1478 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | 0.03494 |
| upper limit | 0.2606 |
| Variability estimate | Standard error of the mean |
| Dispersion value | 0.05679 |

Secondary: Efficacy of AZD7594 by assessment of the change from baseline in fractional exhaled nitric oxide (FeNO) on Day 8

| | |
|--|--|
| End point title | Efficacy of AZD7594 by assessment of the change from baseline in fractional exhaled nitric oxide (FeNO) on Day 8 |
| End point description: The efficacy of AZD7594 will be assessed in terms of change from baseline in fractional exhaled nitric oxide (FeNO) on Day 8 | |
| End point type | Secondary |
| End point timeframe: On Day 1 (pre-dose) and on Day 8 in each period | |

| End point values | AZD7594 | Placebo (PBO) | | |
|--|---------------------------|---------------------------|--|--|
| Subject group type | Subject analysis set | Subject analysis set | | |
| Number of subjects analysed | 34 | 52 | | |
| Units: Parts per billion (ppb) | | | | |
| least squares mean (confidence interval 95%) | | | | |
| AZD7594 58 µg vs. PBO (n=32 for AZD7594) | -9.153 (-15.08 to -3.23) | -4.296 (-9.046 to 0.4536) | | |
| AZD7594 250 µg vs. PBO (n=33 for AZD7594) | -14.71 (-20.56 to -8.862) | -4.296 (-9.046 to 0.4536) | | |
| AZD7594 800 µg vs. PBO (n=32 for AZD7594) | -19.04 (-24.99 to -13.1) | -4.296 (-9.046 to 0.4536) | | |

Statistical analyses

| | |
|--|--------------------------------|
| Statistical analysis title | Statistical analysis 1 |
| Statistical analysis description: AZD7594 58 µg vs. PBO | |
| Comparison groups | AZD7594 v Placebo (PBO) |
| Number of subjects included in analysis | 86 |
| Analysis specification | Pre-specified |
| Analysis type | superiority |
| P-value | = 0.1342 |
| Method | Mixed models analysis |
| Parameter estimate | Mean difference (final values) |
| Point estimate | -4.857 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | -11.24 |
| upper limit | 1.528 |
| Variability estimate | Standard error of the mean |
| Dispersion value | 3.214 |

| | |
|---|--------------------------------|
| Statistical analysis title | Statistical analysis 2 |
| Statistical analysis description: AZD7594 250 µg vs. PBO | |
| Comparison groups | AZD7594 v Placebo (PBO) |
| Number of subjects included in analysis | 86 |
| Analysis specification | Pre-specified |
| Analysis type | superiority |
| P-value | = 0.0016 |
| Method | Mixed models analysis |
| Parameter estimate | Mean difference (final values) |
| Point estimate | -10.41 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | -16.75 |
| upper limit | -4.075 |
| Variability estimate | Standard error of the mean |
| Dispersion value | 3.19 |

| | |
|---|--------------------------------|
| Statistical analysis title | Statistical analysis 3 |
| Statistical analysis description: AZD7594 800 µg vs. PBO | |
| Comparison groups | AZD7594 v Placebo (PBO) |
| Number of subjects included in analysis | 86 |
| Analysis specification | Pre-specified |
| Analysis type | superiority |
| P-value | < 0.0001 |
| Method | Mixed models analysis |
| Parameter estimate | Mean difference (final values) |
| Point estimate | -14.75 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | -21.18 |
| upper limit | -8.319 |
| Variability estimate | Standard error of the mean |
| Dispersion value | 3.236 |

Secondary: Efficacy of AZD7594 by assessment of the change from baseline in fractional exhaled nitric oxide (FeNO) on Day 15

| | |
|-----------------|---|
| End point title | Efficacy of AZD7594 by assessment of the change from baseline in fractional exhaled nitric oxide (FeNO) on Day 15 |
|-----------------|---|

End point description:

The efficacy of AZD7594 will be assessed in terms of change from baseline in fractional exhaled nitric oxide (FeNO) on Day 15

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

End point timeframe:

On Day 1 (pre-dose) and on Day 15 in each period

| End point values | AZD7594 | Placebo (PBO) | | |
|--|---------------------------|---------------------------|--|--|
| Subject group type | Subject analysis set | Subject analysis set | | |
| Number of subjects analysed | 34 | 51 | | |
| Units: Parts per billion (ppb) | | | | |
| least squares mean (confidence interval 95%) | | | | |
| AZD7594 58 µg vs. PBO (n= 32 for AZD7594) | -14.4 (-22.67 to -6.129) | -0.5488 (-6.723 to 5.626) | | |
| AZD7594 250 µg vs. PBO (n= 33 for AZD7594) | -14.81 (-22.96 to -6.657) | -0.5488 (-6.723 to 5.626) | | |
| AZD7594 800 µg vs. PBO (n= 32 for AZD7594) | -20.44 (-28.72 to -12.17) | -0.5488 (-6.723 to 5.626) | | |

Statistical analyses

| | |
|----------------------------|------------------------|
| Statistical analysis title | Statistical analysis 1 |
|----------------------------|------------------------|

Statistical analysis description:

AZD7594 58 µg vs. PBO

| | |
|-------------------|-------------------------|
| Comparison groups | AZD7594 v Placebo (PBO) |
|-------------------|-------------------------|

| | |
|---|----|
| Number of subjects included in analysis | 85 |
|---|----|

| | |
|------------------------|---------------|
| Analysis specification | Pre-specified |
|------------------------|---------------|

| | |
|---------------|-------------|
| Analysis type | superiority |
|---------------|-------------|

| | |
|---------|----------|
| P-value | = 0.0084 |
|---------|----------|

| | |
|--------|-----------------------|
| Method | Mixed models analysis |
|--------|-----------------------|

| | |
|--------------------|--------------------------------|
| Parameter estimate | Mean difference (final values) |
|--------------------|--------------------------------|

| | |
|----------------|--------|
| Point estimate | -13.85 |
|----------------|--------|

Confidence interval

| | |
|-------|------|
| level | 95 % |
|-------|------|

| | |
|-------|---------|
| sides | 2-sided |
|-------|---------|

| | |
|-------------|--------|
| lower limit | -24.06 |
|-------------|--------|

| | |
|-------------|--------|
| upper limit | -3.642 |
|-------------|--------|

| | |
|----------------------|----------------------------|
| Variability estimate | Standard error of the mean |
|----------------------|----------------------------|

| | |
|------------------|-------|
| Dispersion value | 5.139 |
|------------------|-------|

| | |
|----------------------------|------------------------|
| Statistical analysis title | Statistical analysis 2 |
|----------------------------|------------------------|

Statistical analysis description:

AZD7594 250 µg vs. PBO

| | |
|---|--------------------------------|
| Comparison groups | AZD7594 v Placebo (PBO) |
| Number of subjects included in analysis | 85 |
| Analysis specification | Pre-specified |
| Analysis type | superiority |
| P-value | = 0.0062 |
| Method | Mixed models analysis |
| Parameter estimate | Mean difference (final values) |
| Point estimate | -14.26 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | -24.37 |
| upper limit | -4.149 |
| Variability estimate | Standard error of the mean |
| Dispersion value | 5.088 |

Statistical analysis title

Statistical analysis 3

Statistical analysis description:

AZD7594 800 µg vs. PBO

| | |
|---|--------------------------------|
| Comparison groups | AZD7594 v Placebo (PBO) |
| Number of subjects included in analysis | 85 |
| Analysis specification | Pre-specified |
| Analysis type | superiority |
| P-value | = 0.0002 |
| Method | Mixed models analysis |
| Parameter estimate | Mean difference (final values) |
| Point estimate | -19.9 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | -30.1 |
| upper limit | -9.689 |
| Variability estimate | Standard error of the mean |
| Dispersion value | 5.137 |

Secondary: Efficacy of AZD7594 by assessment of the change from baseline in trough forced expiratory volume in 1 second (FEV1) on Day 8

| | |
|-----------------|--|
| End point title | Efficacy of AZD7594 by assessment of the change from baseline in trough forced expiratory volume in 1 second (FEV1) on Day 8 |
|-----------------|--|

End point description:

The efficacy of AZD7594 will be assessed in terms of change from baseline in morning trough forced expiratory volume in 1 second (FEV1) on Day 8 (defined as the average of the values at 23:00 and 23:30 hours after last dose of investigational medicinal product [IMP] on Day 7)

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

End point timeframe:

On Day 1 (pre-dose) and on Day 8 (pre-dose) in each period

| End point values | AZD7594 | Placebo (PBO) | | |
|--|------------------------------|------------------------------|--|--|
| Subject group type | Subject analysis set | Subject analysis set | | |
| Number of subjects analysed | 33 | 52 | | |
| Units: Liters | | | | |
| least squares mean (confidence interval 95%) | | | | |
| AZD7594 58 µg vs. PBO | 0.1016 (-0.00007 to 0.2033) | 0.07112 (-0.00922 to 0.1515) | | |
| AZD7594 250 µg vs. PBO | 0.08856 (-0.01295 to 0.1901) | 0.07112 (-0.00922 to 0.1515) | | |
| AZD7594 800 µg vs. PBO | 0.2272 (0.1252 to 0.3293) | 0.07112 (-0.00922 to 0.1515) | | |

Statistical analyses

| Statistical analysis title | Statistical analysis 1 |
|--|--------------------------------|
| Statistical analysis description: AZD7594 58 µg vs. PBO | |
| Comparison groups | AZD7594 v Placebo (PBO) |
| Number of subjects included in analysis | 85 |
| Analysis specification | Pre-specified |
| Analysis type | superiority |
| P-value | = 0.6036 |
| Method | Mixed models analysis |
| Parameter estimate | Mean difference (final values) |
| Point estimate | 0.03051 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | -0.08579 |
| upper limit | 0.1468 |
| Variability estimate | Standard error of the mean |
| Dispersion value | 0.05856 |

| Statistical analysis title | Statistical analysis 2 |
|---|-------------------------|
| Statistical analysis description: AZD7594 250 µg vs. PBO | |
| Comparison groups | AZD7594 v Placebo (PBO) |

| | |
|---|--------------------------------|
| Number of subjects included in analysis | 85 |
| Analysis specification | Pre-specified |
| Analysis type | superiority |
| P-value | = 0.767 |
| Method | Mixed models analysis |
| Parameter estimate | Mean difference (final values) |
| Point estimate | 0.01744 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | -0.09912 |
| upper limit | 0.134 |
| Variability estimate | Standard error of the mean |
| Dispersion value | 0.05869 |

| | |
|---|--------------------------------|
| Statistical analysis title | Statistical analysis 3 |
| Statistical analysis description: AZD7594 800 µg vs. PBO | |
| Comparison groups | AZD7594 v Placebo (PBO) |
| Number of subjects included in analysis | 85 |
| Analysis specification | Pre-specified |
| Analysis type | superiority |
| P-value | = 0.0093 |
| Method | Mixed models analysis |
| Parameter estimate | Mean difference (final values) |
| Point estimate | 0.1561 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | 0.03943 |
| upper limit | 0.2728 |
| Variability estimate | Standard error of the mean |
| Dispersion value | 0.05874 |

Secondary: Efficacy of AZD7594 by assessment of the change from baseline in trough forced vital capacity (FVC) on Day 15

| | |
|--|---|
| End point title | Efficacy of AZD7594 by assessment of the change from baseline in trough forced vital capacity (FVC) on Day 15 |
| End point description: The efficacy of AZD7594 will be assessed in terms of change from baseline in morning trough forced vital capacity (FVC) on Day 15 (defined as the average of the values at 23:00 and 23:30 hours after last dose of investigational medicinal product [IMP] on Day 14) | |
| End point type | Secondary |
| End point timeframe: On Day 1 (pre-dose) and on Day 15 (pre-dose) in each period | |

| End point values | AZD7594 | Placebo (PBO) | | |
|--|------------------------------|------------------------------|--|--|
| Subject group type | Subject analysis set | Subject analysis set | | |
| Number of subjects analysed | 33 | 51 | | |
| Units: Liters | | | | |
| least squares mean (confidence interval 95%) | | | | |
| AZD7594 58 µg vs. PBO | 0.04186 (-0.06673 to 0.1505) | 0.07653 (-0.01626 to 0.1693) | | |
| AZD7594 250 µg vs. PBO | 0.1047 (-0.0036 to 0.2131) | 0.07653 (-0.01626 to 0.1693) | | |
| AZD7594 800 µg vs. PBO | 0.1382 (0.02938 to 0.2471) | 0.07653 (-0.01626 to 0.1693) | | |

Statistical analyses

| Statistical analysis title | Statistical analysis 1 |
|--|--------------------------------|
| Statistical analysis description: AZD7594 58 µg vs. PBO | |
| Comparison groups | AZD7594 v Placebo (PBO) |
| Number of subjects included in analysis | 84 |
| Analysis specification | Pre-specified |
| Analysis type | superiority |
| P-value | = 0.5207 |
| Method | Mixed models analysis |
| Parameter estimate | Mean difference (final values) |
| Point estimate | -0.03467 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | -0.1415 |
| upper limit | 0.07213 |
| Variability estimate | Standard error of the mean |
| Dispersion value | 0.05377 |

| Statistical analysis title | Statistical analysis 2 |
|---|-------------------------|
| Statistical analysis description: AZD7594 250 µg vs. PBO | |
| Comparison groups | AZD7594 v Placebo (PBO) |

| | |
|---|--------------------------------|
| Number of subjects included in analysis | 84 |
| Analysis specification | Pre-specified |
| Analysis type | superiority |
| P-value | = 0.5983 |
| Method | Mixed models analysis |
| Parameter estimate | Mean difference (final values) |
| Point estimate | 0.02821 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | -0.07778 |
| upper limit | 0.1342 |
| Variability estimate | Standard error of the mean |
| Dispersion value | 0.05336 |

| | |
|---|--------------------------------|
| Statistical analysis title | Statistical analysis 3 |
| Statistical analysis description: AZD7594 800 µg vs. PBO | |
| Comparison groups | AZD7594 v Placebo (PBO) |
| Number of subjects included in analysis | 84 |
| Analysis specification | Pre-specified |
| Analysis type | superiority |
| P-value | = 0.2538 |
| Method | Mixed models analysis |
| Parameter estimate | Mean difference (final values) |
| Point estimate | 0.06169 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | -0.04501 |
| upper limit | 0.1684 |
| Variability estimate | Standard error of the mean |
| Dispersion value | 0.05371 |

Secondary: Efficacy of AZD7594 by assessment of the change from baseline in trough forced vital capacity (FVC) on Day 8

| | |
|--|--|
| End point title | Efficacy of AZD7594 by assessment of the change from baseline in trough forced vital capacity (FVC) on Day 8 |
| End point description: The efficacy of AZD7594 will be assessed in terms of change from baseline in morning trough forced vital capacity (FVC) on Day 8 (defined as the average of the values at 23:00 and 23:30 hours after last dose of investigational medicinal product [IMP] on Day 7) | |
| End point type | Secondary |
| End point timeframe: On Day 1 (pre-dose) and on Day 8 (pre-dose) in each period | |

| End point values | AZD7594 | Placebo (PBO) | | |
|--|------------------------------|-----------------------------|--|--|
| Subject group type | Subject analysis set | Subject analysis set | | |
| Number of subjects analysed | 33 | 52 | | |
| Units: Liters | | | | |
| least squares mean (confidence interval 95%) | | | | |
| AZD7594 58 µg vs. PBO | 0.06179 (-0.04132 to 0.1649) | 0.08441 (0.00163 to 0.1672) | | |
| AZD7594 250 µg vs. PBO | 0.0841 (-0.01877 to 0.187) | 0.08441 (0.00163 to 0.1672) | | |
| AZD7594 800 µg vs. PBO | 0.1527 (0.04929 to 0.2562) | 0.08441 (0.00163 to 0.1672) | | |

Statistical analyses

| Statistical analysis title | Statistical analysis 1 |
|--|--------------------------------|
| Statistical analysis description: AZD7594 58 µg vs. PBO | |
| Comparison groups | AZD7594 v Placebo (PBO) |
| Number of subjects included in analysis | 85 |
| Analysis specification | Pre-specified |
| Analysis type | superiority |
| P-value | = 0.6945 |
| Method | Mixed models analysis |
| Parameter estimate | Mean difference (final values) |
| Point estimate | -0.02262 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | -0.1367 |
| upper limit | 0.09144 |
| Variability estimate | Standard error of the mean |
| Dispersion value | 0.05743 |

| Statistical analysis title | Statistical analysis 2 |
|---|-------------------------|
| Statistical analysis description: AZD7594 250 µg vs. PBO | |
| Comparison groups | AZD7594 v Placebo (PBO) |

| | |
|---|--------------------------------|
| Number of subjects included in analysis | 85 |
| Analysis specification | Pre-specified |
| Analysis type | superiority |
| P-value | = 0.9957 |
| Method | Mixed models analysis |
| Parameter estimate | Mean difference (final values) |
| Point estimate | -0.00031 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | -0.1146 |
| upper limit | 0.114 |
| Variability estimate | Standard error of the mean |
| Dispersion value | 0.05755 |

| | |
|---|--------------------------------|
| Statistical analysis title | Statistical analysis 3 |
| Statistical analysis description: AZD7594 800 µg vs. PBO | |
| Comparison groups | AZD7594 v Placebo (PBO) |
| Number of subjects included in analysis | 85 |
| Analysis specification | Pre-specified |
| Analysis type | superiority |
| P-value | = 0.2398 |
| Method | Mixed models analysis |
| Parameter estimate | Mean difference (final values) |
| Point estimate | 0.06831 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | -0.04637 |
| upper limit | 0.183 |
| Variability estimate | Standard error of the mean |
| Dispersion value | 0.05774 |

Secondary: Efficacy of AZD7594 by assessment of the change from baseline in morning peak expiratory flow (mPEF) before administration over the treatment period

| | |
|---|--|
| End point title | Efficacy of AZD7594 by assessment of the change from baseline in morning peak expiratory flow (mPEF) before administration over the treatment period |
| End point description: The efficacy of AZD7594 will be assessed in terms of change from baseline in morning peak expiratory flow (mPEF) before administration of the investigational medicinal product (IMP) in each treatment period. The first PEF measurement was on the evening of Visit 1. Every morning and every evening after Visit 1, patients were required to perform 3 maneuvers for PEF assessment. The highest value from among the 3 assessments was marked as mPEF with the date and time of the measurement. The final PEF assessment was done on the morning of Visit 11 (Day 15 of Treatment Period 3). | |
| End point type | Secondary |

End point timeframe:

Every morning at pre-dose from Day 1 to Day 15

| End point values | AZD7594 | Placebo (PBO) | | |
|--|-------------------------|--------------------------|--|--|
| Subject group type | Subject analysis set | Subject analysis set | | |
| Number of subjects analysed | 33 | 52 | | |
| Units: L/min | | | | |
| least squares mean (confidence interval 95%) | | | | |
| AZD7594 58 µg vs. PBO | 10.42 (-1.909 to 22.74) | 0.08136 (-10.5 to 10.66) | | |
| AZD7594 250 µg vs. PBO | 5.334 (-6.975 to 17.64) | 0.08136 (-10.5 to 10.66) | | |
| AZD7594 800 µg vs. PBO | 12.6 (0.2402 to 24.96) | 0.08136 (-10.5 to 10.66) | | |

Statistical analyses

| Statistical analysis title | Statistical analysis 1 |
|--|--------------------------------|
| Statistical analysis description: AZD7594 58 µg vs. PBO | |
| Comparison groups | AZD7594 v Placebo (PBO) |
| Number of subjects included in analysis | 85 |
| Analysis specification | Pre-specified |
| Analysis type | superiority |
| P-value | = 0.0819 |
| Method | Mixed models analysis |
| Parameter estimate | Mean difference (final values) |
| Point estimate | 10.34 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | -1.335 |
| upper limit | 22.01 |
| Variability estimate | Standard error of the mean |
| Dispersion value | 5.877 |

| Statistical analysis title | Statistical analysis 2 |
|---|-------------------------|
| Statistical analysis description: AZD7594 250 µg vs. PBO | |
| Comparison groups | AZD7594 v Placebo (PBO) |

| | |
|---|--------------------------------|
| Number of subjects included in analysis | 85 |
| Analysis specification | Pre-specified |
| Analysis type | superiority |
| P-value | = 0.3741 |
| Method | Mixed models analysis |
| Parameter estimate | Mean difference (final values) |
| Point estimate | 5.253 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | -6.427 |
| upper limit | 16.93 |
| Variability estimate | Standard error of the mean |
| Dispersion value | 5.881 |

| | |
|---|--------------------------------|
| Statistical analysis title | Statistical analysis 3 |
| Statistical analysis description: AZD7594 800 µg vs. PBO | |
| Comparison groups | AZD7594 v Placebo (PBO) |
| Number of subjects included in analysis | 85 |
| Analysis specification | Pre-specified |
| Analysis type | superiority |
| P-value | = 0.0374 |
| Method | Mixed models analysis |
| Parameter estimate | Mean difference (final values) |
| Point estimate | 12.52 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | 0.7481 |
| upper limit | 24.29 |
| Variability estimate | Standard error of the mean |
| Dispersion value | 5.926 |

Secondary: Efficacy of AZD7594 by assessment of the change from baseline in evening peak expiratory flow (ePEF) before administration over the treatment period

| | |
|---|--|
| End point title | Efficacy of AZD7594 by assessment of the change from baseline in evening peak expiratory flow (ePEF) before administration over the treatment period |
| End point description: The efficacy of AZD7594 was assessed in terms of change from baseline in evening peak expiratory flow (ePEF) in each treatment period. The first PEF measurement was on the evening of Visit 1. Every morning and every evening after Visit 1, patients were required to perform 3 maneuvers for PEF assessment. The highest value from among the 3 assessments was marked as ePEF together with the date and time of the measurement. The final PEF assessment was done on the morning of Visit 11 (Day 15 of Treatment Period 3). | |
| End point type | Secondary |

End point timeframe:

Every evening from Day 1 to Day 14 in each period

| End point values | AZD7594 | Placebo (PBO) | | |
|--|--------------------------|--------------------------|--|--|
| Subject group type | Subject analysis set | Subject analysis set | | |
| Number of subjects analysed | 33 | 51 | | |
| Units: L/min | | | | |
| least squares mean (confidence interval 95%) | | | | |
| AZD7594 58 µg vs. PBO | 7.475 (-4.426 to 19.38) | -8.257 (-18.71 to 2.193) | | |
| AZD7594 250 µg vs. PBO | 6.04 (-5.839 to 17.92) | -8.257 (-18.71 to 2.193) | | |
| AZD7594 800 µg vs. PBO | 11.65 (-0.2692 to 23.58) | -8.257 (-18.71 to 2.193) | | |

Statistical analyses

| Statistical analysis title | Statistical analysis 1 |
|--|--------------------------------|
| Statistical analysis description: AZD7594 58 µg vs. PBO | |
| Comparison groups | AZD7594 v Placebo (PBO) |
| Number of subjects included in analysis | 84 |
| Analysis specification | Pre-specified |
| Analysis type | superiority |
| P-value | = 0.0044 |
| Method | Mixed models analysis |
| Parameter estimate | Mean difference (final values) |
| Point estimate | 15.73 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | 5.039 |
| upper limit | 26.43 |
| Variability estimate | Standard error of the mean |
| Dispersion value | 5.384 |

| Statistical analysis title | Statistical analysis 2 |
|---|-------------------------|
| Statistical analysis description: AZD7594 250 µg vs. PBO | |
| Comparison groups | AZD7594 v Placebo (PBO) |

| | |
|---|--------------------------------|
| Number of subjects included in analysis | 84 |
| Analysis specification | Pre-specified |
| Analysis type | superiority |
| P-value | = 0.0098 |
| Method | Mixed models analysis |
| Parameter estimate | Mean difference (final values) |
| Point estimate | 14.3 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | 3.534 |
| upper limit | 25.06 |
| Variability estimate | Standard error of the mean |
| Dispersion value | 5.419 |

| | |
|---|--------------------------------|
| Statistical analysis title | Statistical analysis 3 |
| Statistical analysis description: AZD7594 800 µg vs. PBO | |
| Comparison groups | AZD7594 v Placebo (PBO) |
| Number of subjects included in analysis | 84 |
| Analysis specification | Pre-specified |
| Analysis type | superiority |
| P-value | = 0.0004 |
| Method | Mixed models analysis |
| Parameter estimate | Mean difference (final values) |
| Point estimate | 19.91 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | 9.068 |
| upper limit | 30.75 |
| Variability estimate | Standard error of the mean |
| Dispersion value | 5.459 |

Secondary: Efficacy of AZD7594 by assessment of the change from baseline in average daily use of rescue salbutamol over the treatment period

| | |
|--|---|
| End point title | Efficacy of AZD7594 by assessment of the change from baseline in average daily use of rescue salbutamol over the treatment period |
| End point description: The efficacy of AZD7594 will be assessed in terms of change from baseline in average daily use of salbutamol (each morning and evening) in each treatment period | |
| End point type | Secondary |
| End point timeframe: Every day from Day 1 to Day 15 (from evening of Day 1 to morning of Day 15) | |

| End point values | AZD7594 | Placebo (PBO) | | |
|--|-----------------------------|-----------------------------|--|--|
| Subject group type | Subject analysis set | Subject analysis set | | |
| Number of subjects analysed | 33 | 51 | | |
| Units: Number of inhalations | | | | |
| least squares mean (confidence interval 95%) | | | | |
| AZD7594 58 µg vs. PBO | -0.6776 (-1.071 to -0.2841) | -0.334 (-0.6733 to 0.00522) | | |
| AZD7594 250 µg vs. PBO | -0.8193 (-1.212 to -0.4267) | -0.334 (-0.6733 to 0.00522) | | |
| AZD7594 800 µg vs. PBO | -1.137 (-1.531 to -0.7422) | -0.334 (-0.6733 to 0.00522) | | |

Statistical analyses

| Statistical analysis title | Statistical analysis 1 |
|--|--------------------------------|
| Statistical analysis description: AZD7594 58 µg vs. PBO | |
| Comparison groups | AZD7594 v Placebo (PBO) |
| Number of subjects included in analysis | 84 |
| Analysis specification | Pre-specified |
| Analysis type | superiority |
| P-value | = 0.0723 |
| Method | Mixed models analysis |
| Parameter estimate | Mean difference (final values) |
| Point estimate | -0.3435 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | -0.7189 |
| upper limit | 0.03179 |
| Variability estimate | Standard error of the mean |
| Dispersion value | 0.189 |

| Statistical analysis title | Statistical analysis 2 |
|---|-------------------------|
| Statistical analysis description: AZD7594 250 µg vs. PBO | |
| Comparison groups | AZD7594 v Placebo (PBO) |

| | |
|---|--------------------------------|
| Number of subjects included in analysis | 84 |
| Analysis specification | Pre-specified |
| Analysis type | superiority |
| P-value | = 0.0124 |
| Method | Mixed models analysis |
| Parameter estimate | Mean difference (final values) |
| Point estimate | -0.4852 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | -0.8631 |
| upper limit | -0.1073 |
| Variability estimate | Standard error of the mean |
| Dispersion value | 0.1903 |

| | |
|---|--------------------------------|
| Statistical analysis title | Statistical analysis 3 |
| Statistical analysis description: AZD7594 800 µg vs. PBO | |
| Comparison groups | AZD7594 v Placebo (PBO) |
| Number of subjects included in analysis | 84 |
| Analysis specification | Pre-specified |
| Analysis type | superiority |
| P-value | < 0.0001 |
| Method | Mixed models analysis |
| Parameter estimate | Mean difference (final values) |
| Point estimate | -0.8026 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | -1.183 |
| upper limit | -0.4224 |
| Variability estimate | Standard error of the mean |
| Dispersion value | 0.1914 |

Secondary: Efficacy of AZD7594 by assessment of the change from baseline to Day 15 in Asthma Control Questionnaire-5

| | |
|--|---|
| End point title | Efficacy of AZD7594 by assessment of the change from baseline to Day 15 in Asthma Control Questionnaire-5 |
| End point description: The efficacy of AZD7594 was assessed in terms of change from baseline to Day 15 in Asthma Control Questionnaire-5 in each treatment period. Each question was scored on a scale of 0 to 6, where a lower score represents a more severe impairment/symptom. The ACQ-5 score at a given visit was defined as the average of the scores given for each of the questions (ACQ-5 score = Sum of 5 scores/5). | |
| End point type | Secondary |
| End point timeframe: At baseline and on Day 15 in each period | |

| End point values | AZD7594 | Placebo (PBO) | | |
|--|------------------------------|-----------------------------|--|--|
| Subject group type | Subject analysis set | Subject analysis set | | |
| Number of subjects analysed | 33 | 52 | | |
| Units: Unit on a scale | | | | |
| least squares mean (confidence interval 95%) | | | | |
| AZD7594 58 µg vs. PBO | -0.2929 (-0.4744 to -0.1113) | 0.01428 (-0.1281 to 0.1567) | | |
| AZD7594 250 µg vs. PBO | -0.1681 (-0.3496 to 0.01335) | 0.01428 (-0.1281 to 0.1567) | | |
| AZD7594 800 µg vs. PBO | -0.4158 (-0.5975 to -0.2342) | 0.01428 (-0.1281 to 0.1567) | | |

Statistical analyses

| Statistical analysis title | Statistical analysis 1 |
|--|--------------------------------|
| Statistical analysis description: AZD7594 58 µg vs. PBO | |
| Comparison groups | AZD7594 v Placebo (PBO) |
| Number of subjects included in analysis | 85 |
| Analysis specification | Pre-specified |
| Analysis type | superiority |
| P-value | = 0.0044 |
| Method | Mixed models analysis |
| Parameter estimate | Mean difference (final values) |
| Point estimate | -0.3071 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | -0.5159 |
| upper limit | -0.09836 |
| Variability estimate | Standard error of the mean |
| Dispersion value | 0.1051 |

| Statistical analysis title | Statistical analysis 2 |
|---|-------------------------|
| Statistical analysis description: AZD7594 250 µg vs. PBO | |
| Comparison groups | AZD7594 v Placebo (PBO) |

| | |
|---|--------------------------------|
| Number of subjects included in analysis | 85 |
| Analysis specification | Pre-specified |
| Analysis type | superiority |
| P-value | = 0.0883 |
| Method | Mixed models analysis |
| Parameter estimate | Mean difference (final values) |
| Point estimate | -0.1824 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | -0.3927 |
| upper limit | 0.02789 |
| Variability estimate | Standard error of the mean |
| Dispersion value | 0.1059 |

| | |
|---|--------------------------------|
| Statistical analysis title | Statistical analysis 3 |
| Statistical analysis description: AZD7594 800 µg vs. PBO | |
| Comparison groups | AZD7594 v Placebo (PBO) |
| Number of subjects included in analysis | 85 |
| Analysis specification | Pre-specified |
| Analysis type | superiority |
| P-value | < 0.0001 |
| Method | Mixed models analysis |
| Parameter estimate | Mean difference (final values) |
| Point estimate | -0.4301 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | -0.6397 |
| upper limit | -0.2205 |
| Variability estimate | Standard error of the mean |
| Dispersion value | 0.1055 |

Secondary: Efficacy of AZD7594 by assessment of the change from baseline to Day 8 in Asthma Control Questionnaire-5

| | |
|--|--|
| End point title | Efficacy of AZD7594 by assessment of the change from baseline to Day 8 in Asthma Control Questionnaire-5 |
| End point description: The efficacy of AZD7594 was assessed in terms of change from baseline to Day 8 in Asthma Control Questionnaire-5 in each treatment period. Each question was scored on a scale of 0 to 6, where a lower score represents a more severe impairment/symptom. The ACQ-5 score at a given visit was defined as the average of the scores given for each of the questions (ACQ-5 score = Sum of 5 scores/5) | |
| End point type | Secondary |
| End point timeframe: At baseline and on Day 8 in each period | |

| End point values | AZD7594 | Placebo (PBO) | | |
|--|------------------------------|-----------------------------|--|--|
| Subject group type | Subject analysis set | Subject analysis set | | |
| Number of subjects analysed | 33 | 52 | | |
| Units: Unit on a scale | | | | |
| least squares mean (confidence interval 95%) | | | | |
| AZD7594 58 µg vs. PBO | -0.2724 (-0.4309 to -0.1138) | -0.1072 (-0.232 to 0.01748) | | |
| AZD7594 250 µg vs. PBO | -0.198 (-0.3565 to -0.03952) | -0.1072 (-0.232 to 0.01748) | | |
| AZD7594 800 µg vs. PBO | -0.3604 (-0.5191 to -0.2017) | -0.1072 (-0.232 to 0.01748) | | |

Statistical analyses

| Statistical analysis title | Statistical analysis 1 |
|--|--------------------------------|
| Statistical analysis description: AZD7594 58 µg vs. PBO | |
| Comparison groups | AZD7594 v Placebo (PBO) |
| Number of subjects included in analysis | 85 |
| Analysis specification | Pre-specified |
| Analysis type | superiority |
| P-value | = 0.0741 |
| Method | Mixed models analysis |
| Parameter estimate | Mean difference (final values) |
| Point estimate | -0.1651 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | -0.3466 |
| upper limit | 0.01638 |
| Variability estimate | Standard error of the mean |
| Dispersion value | 0.09139 |

| Statistical analysis title | Statistical analysis 2 |
|---|-------------------------|
| Statistical analysis description: AZD7594 250 µg vs. PBO | |
| Comparison groups | AZD7594 v Placebo (PBO) |

| | |
|---|--------------------------------|
| Number of subjects included in analysis | 85 |
| Analysis specification | Pre-specified |
| Analysis type | superiority |
| P-value | = 0.3265 |
| Method | Mixed models analysis |
| Parameter estimate | Mean difference (final values) |
| Point estimate | -0.09079 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | -0.2736 |
| upper limit | 0.09201 |
| Variability estimate | Standard error of the mean |
| Dispersion value | 0.09204 |

| | |
|---|--------------------------------|
| Statistical analysis title | Statistical analysis 3 |
| Statistical analysis description: AZD7594 800 µg vs. PBO | |
| Comparison groups | AZD7594 v Placebo (PBO) |
| Number of subjects included in analysis | 85 |
| Analysis specification | Pre-specified |
| Analysis type | superiority |
| P-value | = 0.007 |
| Method | Mixed models analysis |
| Parameter estimate | Mean difference (final values) |
| Point estimate | -0.2532 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | -0.4354 |
| upper limit | -0.07092 |
| Variability estimate | Standard error of the mean |
| Dispersion value | 0.09176 |

Secondary: Efficacy of AZD7594 by assessment of night-time awakenings

| | |
|---|--|
| End point title | Efficacy of AZD7594 by assessment of night-time awakenings |
| End point description: The efficacy of AZD7594 was assessed in terms of change in nighttime awakenings in each treatment period. The patients were asked to answer 'Yes' or 'No' to the question of "Did your asthma cause you to wake up last night?". If yes, the number and percentage of days that had a night-time awakening were determined for each of the study periods. | |
| End point type | Secondary |
| End point timeframe: At baseline and from Day 1 to Day 14 in each period | |

| End point values | AZD7594 | Placebo (PBO) | | |
|--|-----------------------------|-----------------------------|--|--|
| Subject group type | Subject analysis set | Subject analysis set | | |
| Number of subjects analysed | 33 | 52 | | |
| Units: Number of nighttime awakenings | | | | |
| least squares mean (confidence interval 95%) | | | | |
| AZD7594 58 µg vs. PBO | -0.412 (-0.7229 to -0.101) | 0.006541 (-0.2509 to 0.264) | | |
| AZD7594 250 µg vs. PBO | -0.1729 (-0.4833 to 0.1376) | 0.006541 (-0.2509 to 0.264) | | |
| AZD7594 800 µg vs. PBO | -0.7595 (-1.071 to -0.4479) | 0.006541 (-0.2509 to 0.264) | | |

Statistical analyses

| Statistical analysis title | Statistical analysis 1 |
|--|--------------------------------|
| Statistical analysis description: AZD7594 58 µg vs. PBO | |
| Comparison groups | AZD7594 v Placebo (PBO) |
| Number of subjects included in analysis | 85 |
| Analysis specification | Pre-specified |
| Analysis type | superiority |
| P-value | = 0.0116 |
| Method | Mixed models analysis |
| Parameter estimate | Mean difference (final values) |
| Point estimate | -0.4185 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | -0.7414 |
| upper limit | -0.09563 |
| Variability estimate | Standard error of the mean |
| Dispersion value | 0.1626 |

| Statistical analysis title | Statistical analysis 2 |
|---|-------------------------|
| Statistical analysis description: AZD7594 250 µg vs. PBO | |
| Comparison groups | AZD7594 v Placebo (PBO) |

| | |
|---|--------------------------------|
| Number of subjects included in analysis | 85 |
| Analysis specification | Pre-specified |
| Analysis type | superiority |
| P-value | = 0.2732 |
| Method | Mixed models analysis |
| Parameter estimate | Mean difference (final values) |
| Point estimate | -0.1794 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | -0.5027 |
| upper limit | 0.1438 |
| Variability estimate | Standard error of the mean |
| Dispersion value | 0.1628 |

| | |
|---|--------------------------------|
| Statistical analysis title | Statistical analysis 3 |
| Statistical analysis description: AZD7594 800 µg vs. PBO | |
| Comparison groups | AZD7594 v Placebo (PBO) |
| Number of subjects included in analysis | 85 |
| Analysis specification | Pre-specified |
| Analysis type | superiority |
| P-value | < 0.0001 |
| Method | Mixed models analysis |
| Parameter estimate | Mean difference (final values) |
| Point estimate | -0.7661 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | -1.091 |
| upper limit | -0.4411 |
| Variability estimate | Standard error of the mean |
| Dispersion value | 0.1636 |

Secondary: Efficacy of AZD7594 by assessment of daily symptom score

| | |
|--|--|
| End point title | Efficacy of AZD7594 by assessment of daily symptom score |
| End point description: The efficacy of AZD7594 was assessed in terms of change in daily symptom score from baseline to average of treatment period post dose (Day 1-14) in each treatment period. Severity scores for asthma symptoms were recorded twice daily, once in the morning and once in the evening with the scoring system of 0-no asthma symptoms, 1-toleratable asthma symptoms, 2-discomfort asthma symptoms with normal activities (or with sleep) and 3-asthma symptoms with impaired normal activities (or to sleep). | |
| End point type | Secondary |
| End point timeframe: At baseline and from Day 1 to Day 15 in each period | |

| End point values | AZD7594 | Placebo (PBO) | | |
|--|-------------------------------|-------------------------------|--|--|
| Subject group type | Subject analysis set | Subject analysis set | | |
| Number of subjects analysed | 33 | 51 | | |
| Units: Unit on a scale | | | | |
| least squares mean (confidence interval 95%) | | | | |
| AZD7594 58 µg vs. PBO | -0.119 (-0.219 to -0.01903) | -0.01229 (-0.09729 to 0.0727) | | |
| AZD7594 250 µg vs. PBO | -0.09435 (-0.1941 to 0.00541) | -0.01229 (-0.09729 to 0.0727) | | |
| AZD7594 800 µg vs. PBO | -0.215 (-0.3151 to -0.1149) | -0.01229 (-0.09729 to 0.0727) | | |

Statistical analyses

| Statistical analysis title | Statistical analysis 1 |
|--|--------------------------------|
| Statistical analysis description: AZD7594 58 µg vs. PBO | |
| Comparison groups | AZD7594 v Placebo (PBO) |
| Number of subjects included in analysis | 84 |
| Analysis specification | Pre-specified |
| Analysis type | superiority |
| P-value | = 0.0349 |
| Method | Mixed models analysis |
| Parameter estimate | Mean difference (final values) |
| Point estimate | -0.1067 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | -0.2057 |
| upper limit | -0.00775 |
| Variability estimate | Standard error of the mean |
| Dispersion value | 0.04982 |

| Statistical analysis title | Statistical analysis 2 |
|---|-------------------------|
| Statistical analysis description: AZD7594 250 µg vs. PBO | |
| Comparison groups | AZD7594 v Placebo (PBO) |

| | |
|---|--------------------------------|
| Number of subjects included in analysis | 84 |
| Analysis specification | Pre-specified |
| Analysis type | superiority |
| P-value | = 0.1052 |
| Method | Mixed models analysis |
| Parameter estimate | Mean difference (final values) |
| Point estimate | -0.08205 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | -0.1817 |
| upper limit | 0.01756 |
| Variability estimate | Standard error of the mean |
| Dispersion value | 0.05015 |

| | |
|---|--------------------------------|
| Statistical analysis title | Statistical analysis 3 |
| Statistical analysis description: AZD7594 800 µg vs. PBO | |
| Comparison groups | AZD7594 v Placebo (PBO) |
| Number of subjects included in analysis | 84 |
| Analysis specification | Pre-specified |
| Analysis type | superiority |
| P-value | = 0.0001 |
| Method | Mixed models analysis |
| Parameter estimate | Mean difference (final values) |
| Point estimate | -0.2027 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | -0.3028 |
| upper limit | -0.1025 |
| Variability estimate | Standard error of the mean |
| Dispersion value | 0.05044 |

Secondary: Efficacy of AZD7594 by assessment of asthma control days

| | |
|---|--|
| End point title | Efficacy of AZD7594 by assessment of asthma control days |
| End point description: The efficacy of AZD7594 was assessed in terms of amount of asthma control days in each treatment period. An asthma control day was defined as a day with asthma symptom score = 0, a night with no awakenings due to asthma symptoms and a day with no use of rescue medication. A given calendar day was defined as an asthma control day if it fulfills the criteria for a symptom-free day and for a rescue medication-free day. | |
| End point type | Secondary |
| End point timeframe: At baseline and from Day 1 to Day 14 post-dose in each period | |

| End point values | AZD7594 | Placebo (PBO) | | |
|--|---------------------------|---------------------------|--|--|
| Subject group type | Subject analysis set | Subject analysis set | | |
| Number of subjects analysed | 33 | 51 | | |
| Units: Average number of asthma control days | | | | |
| least squares mean (confidence interval 95%) | | | | |
| AZD7594 58 µg vs. PBO | 0.9502 (0.3166 to 1.584) | 0.2773 (-0.2745 to 0.829) | | |
| AZD7594 250 µg vs. PBO | 0.7054 (0.07299 to 1.338) | 0.2773 (-0.2745 to 0.829) | | |
| AZD7594 800 µg vs. PBO | 1.219 (0.5843 to 1.853) | 0.2773 (-0.2745 to 0.829) | | |

Statistical analyses

| Statistical analysis title | Statistical analysis 1 |
|--|--------------------------------|
| Statistical analysis description: AZD7594 58 µg vs. PBO | |
| Comparison groups | AZD7594 v Placebo (PBO) |
| Number of subjects included in analysis | 84 |
| Analysis specification | Pre-specified |
| Analysis type | superiority |
| P-value | = 0.0247 |
| Method | Mixed models analysis |
| Parameter estimate | Mean difference (final values) |
| Point estimate | 0.673 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | 0.08779 |
| upper limit | 1.258 |
| Variability estimate | Standard error of the mean |
| Dispersion value | 0.2946 |

| Statistical analysis title | Statistical analysis 2 |
|---|-------------------------|
| Statistical analysis description: AZD7594 250 µg vs. PBO | |
| Comparison groups | AZD7594 v Placebo (PBO) |

| | |
|---|--------------------------------|
| Number of subjects included in analysis | 84 |
| Analysis specification | Pre-specified |
| Analysis type | superiority |
| P-value | = 0.1521 |
| Method | Mixed models analysis |
| Parameter estimate | Mean difference (final values) |
| Point estimate | 0.4281 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | -0.1607 |
| upper limit | 1.017 |
| Variability estimate | Standard error of the mean |
| Dispersion value | 0.2965 |

| | |
|---|--------------------------------|
| Statistical analysis title | Statistical analysis 3 |
| Statistical analysis description: AZD7594 800 µg vs. PBO | |
| Comparison groups | AZD7594 v Placebo (PBO) |
| Number of subjects included in analysis | 84 |
| Analysis specification | Pre-specified |
| Analysis type | superiority |
| P-value | = 0.0022 |
| Method | Mixed models analysis |
| Parameter estimate | Mean difference (final values) |
| Point estimate | 0.9415 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | 0.3483 |
| upper limit | 1.535 |
| Variability estimate | Standard error of the mean |
| Dispersion value | 0.2987 |

Secondary: Safety of AZD7594 by assessment of adverse events

| | |
|---|---|
| End point title | Safety of AZD7594 by assessment of adverse events |
| End point description: Assessment of safety and tolerability of three dose levels of AZD7594 in participants with mild to moderate asthma. IP referred to investigational product. | |
| End point type | Secondary |
| End point timeframe: From Screening to Follow-up (these two examinations are up to 165 days apart) | |

| End point values | Placebo (PBO) | AZD7594 58 µg | AZD7594 250 µg | AZD7594 800 µg |
|--|----------------------|----------------------|----------------------|----------------------|
| Subject group type | Subject analysis set | Subject analysis set | Subject analysis set | Subject analysis set |
| Number of subjects analysed | 52 | 34 | 34 | 34 |
| Units: Number | | | | |
| Any AE | 17 | 13 | 9 | 12 |
| AE causally related to IMP | 3 | 1 | 1 | 2 |
| Any AE with an outcome of death | 0 | 0 | 0 | 0 |
| Any SAE (including events with outcome of death) | 0 | 0 | 0 | 0 |
| Any AE leading to discontinuation of IMP | 1 | 0 | 0 | 0 |

Statistical analyses

No statistical analyses for this end point

Secondary: Rate and extent of absorption of three dose levels of AZD7594 by assessment of Cmax of AZD7594

| | |
|-----------------|--|
| End point title | Rate and extent of absorption of three dose levels of AZD7594 by assessment of Cmax of AZD7594 |
|-----------------|--|

End point description:

Comparison of Cmax (maximum observed plasma concentration) of AZD7594 on Day 1 of each treatment period; up to 6 samples were collected in each period (i.e. in participants with intensive pharmacokinetic assessments, at pre-dose and 15 and 30 minutes, and 1, 2, and 4 h post-dose)

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

End point timeframe:

On Day 1 in each period (in subjects with intensive pharmacokinetic assessments, at pre-dose and 15 and 30 minutes, and 1, 2, and 4 h post-dose)

| End point values | AZD7594 58 µg | AZD7594 250 µg | AZD7594 800 µg | |
|---|----------------------|----------------------|----------------------|--|
| Subject group type | Subject analysis set | Subject analysis set | Subject analysis set | |
| Number of subjects analysed | 9 | 9 | 8 | |
| Units: pmol/L | | | | |
| geometric mean (geometric coefficient of variation) | | | | |
| Cmax | 36.4 (± 32.8) | 92.02 (± 34.17) | 169.7 (± 43.21) | |

Statistical analyses

No statistical analyses for this end point

Secondary: Rate and extent of absorption of three dose levels of AZD7594 by assessment of AUC(0-4) of AZD7594

| | |
|-----------------|--|
| End point title | Rate and extent of absorption of three dose levels of AZD7594 by assessment of AUC(0-4) of AZD7594 |
|-----------------|--|

End point description:

Comparison of AUC(0-4) (Area under the plasma concentration-time curve from time zero to 4 hours after administration) of AZD7594 on Day 1 of each treatment period; up to 6 samples were collected in each period (i.e. in subjects with intensive pharmacokinetic assessments, at pre-dose and 15 and 30 minutes, and 1, 2, and 4 h post-dose)

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

End point timeframe:

On Day 1 in each period (in subjects with intensive pharmacokinetic assessments, at pre-dose and 15 and 30 minutes, and 1, 2, and 4 h post-dose)

| End point values | AZD7594 58 µg | AZD7594 250 µg | AZD7594 800 µg | |
|---|----------------------|----------------------|----------------------|--|
| Subject group type | Subject analysis set | Subject analysis set | Subject analysis set | |
| Number of subjects analysed | 4 | 9 | 8 | |
| Units: h×pmol/L | | | | |
| geometric mean (geometric coefficient of variation) | | | | |
| AUC(0-4) | 85.02 (± 8.21) | 188.4 (± 30.58) | 371.1 (± 31.55) | |

Statistical analyses

No statistical analyses for this end point

Secondary: Rate and extent of absorption of three dose levels of AZD7594 following multiple dose administration by assessment of C_{max,ss} of AZD7594

| | |
|-----------------|--|
| End point title | Rate and extent of absorption of three dose levels of AZD7594 following multiple dose administration by assessment of C _{max,ss} of AZD7594 |
|-----------------|--|

End point description:

Comparison of C_{max,ss} (observed maximum plasma concentration at steady state) of AZD7594 on Day 14 of each treatment period; up to 10 samples were collected in each period (i.e. in subjects with intensive pharmacokinetic assessments, at pre-dose and 15 and 30 minutes, and 1, 2, 4, 8, 12, 16 and 24 h post-dose)

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

End point timeframe:

On Day 14 in each period (in subjects with intensive pharmacokinetic assessments, at pre-dose and 15 and 30 minutes, and 1, 2, 4, 8, 12, 16 and 24 h post-dose)

| End point values | AZD7594 58 µg | AZD7594 250 µg | AZD7594 800 µg | |
|---|----------------------|----------------------|----------------------|--|
| Subject group type | Subject analysis set | Subject analysis set | Subject analysis set | |
| Number of subjects analysed | 9 | 9 | 8 | |
| Units: pmol/L | | | | |
| geometric mean (geometric coefficient of variation) | | | | |
| C _{max,ss} | 54.97 (± 19.7) | 158.7 (± 35.01) | 421.6 (± 37.26) | |

Statistical analyses

| | |
|--|--------------------------------|
| Statistical analysis title | Statistical analysis 1 |
| Statistical analysis description: AZD7594 250 µg versus AZD7594 58 µg | |
| Comparison groups | AZD7594 58 µg v AZD7594 250 µg |
| Number of subjects included in analysis | 18 |
| Analysis specification | Pre-specified |
| Analysis type | superiority |
| P-value | < 0.0001 |
| Method | ANOVA |
| Parameter estimate | Ratio Estimate (%) |
| Point estimate | 272.2 |
| Confidence interval | |
| level | 90 % |
| sides | 2-sided |
| lower limit | 237.43 |
| upper limit | 312.05 |

| | |
|--|--------------------------------|
| Statistical analysis title | Statistical analysis 2 |
| Statistical analysis description: AZD7594 800 µg versus AZD7594 58 µg | |
| Comparison groups | AZD7594 58 µg v AZD7594 800 µg |
| Number of subjects included in analysis | 17 |
| Analysis specification | Pre-specified |
| Analysis type | superiority |
| P-value | < 0.0001 |
| Method | ANOVA |
| Parameter estimate | Ratio Estimate (%) |
| Point estimate | 676.13 |
| Confidence interval | |
| level | 90 % |
| sides | 2-sided |
| lower limit | 580.91 |
| upper limit | 786.95 |

Secondary: Rate and extent of absorption of three dose levels of AZD7594 following multiple dose administration by assessment of AUC(0-24) of AZD7594

| | |
|-----------------|--|
| End point title | Rate and extent of absorption of three dose levels of AZD7594 following multiple dose administration by assessment of AUC(0-24) of AZD7594 |
|-----------------|--|

End point description:

Comparison of AUC(0-24) (Area under the plasma concentration-time curve from time zero to 24 hours after administration) of AZD7594 on Day 14 of each treatment period; up to 10 samples were collected in each period (i.e. in subjects with intensive pharmacokinetic assessments, at pre-dose and 15 and 30 minutes, and 1, 2, 4, 8, 12, 16 and 24 h post-dose)

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

End point timeframe:

On Day 14 in each period (in subjects with intensive pharmacokinetic assessments, at pre-dose and 15 and 30 minutes, and 1, 2, 4, 8, 12, 16 and 24 h post-dose)

| End point values | AZD7594 58 µg | AZD7594 250 µg | AZD7594 800 µg | |
|---|----------------------|----------------------|----------------------|--|
| Subject group type | Subject analysis set | Subject analysis set | Subject analysis set | |
| Number of subjects analysed | 9 | 9 | 8 | |
| Units: h×pmol/L | | | | |
| geometric mean (geometric coefficient of variation) | | | | |
| AUC(0-24) | 467.1 (± 17.91) | 1725 (± 44.33) | 4894 (± 52.48) | |

Statistical analyses

| | |
|----------------------------|------------------------|
| Statistical analysis title | Statistical analysis 1 |
|----------------------------|------------------------|

Statistical analysis description:

AZD7594 250 µg versus AZD7594 58 µg

| | |
|---|--------------------------------|
| Comparison groups | AZD7594 58 µg v AZD7594 250 µg |
| Number of subjects included in analysis | 18 |
| Analysis specification | Pre-specified |
| Analysis type | superiority |
| P-value | < 0.0001 |
| Method | ANOVA |
| Parameter estimate | Ratio Estimate (%) |
| Point estimate | 337.82 |
| Confidence interval | |
| level | 90 % |
| sides | 2-sided |
| lower limit | 290.8 |
| upper limit | 392.43 |

| | |
|----------------------------|------------------------|
| Statistical analysis title | Statistical analysis 2 |
|----------------------------|------------------------|

Statistical analysis description:

AZD7594 800 µg versus AZD7594 58 µg

| | |
|-------------------|--------------------------------|
| Comparison groups | AZD7594 58 µg v AZD7594 800 µg |
|-------------------|--------------------------------|

| | |
|---|--------------------|
| Number of subjects included in analysis | 17 |
| Analysis specification | Pre-specified |
| Analysis type | superiority |
| P-value | < 0.0001 |
| Method | ANOVA |
| Parameter estimate | Ratio Estimate (%) |
| Point estimate | 964.62 |
| Confidence interval | |
| level | 90 % |
| sides | 2-sided |
| lower limit | 816.13 |
| upper limit | 1140.13 |

Secondary: Rate and extent of absorption of three dose levels of AZD7594 following multiple dose administration by assessment of AUC(0-last) of AZD7594

| | |
|------------------------|---|
| End point title | Rate and extent of absorption of three dose levels of AZD7594 following multiple dose administration by assessment of AUC(0-last) of AZD7594 |
| End point description: | Comparison of AUC(0-last) (Area under the plasma concentration-time curve from time zero to the time of the last quantifiable concentration) of AZD7594 (i.e. in subjects with intensive pharmacokinetic assessments) |
| End point type | Secondary |
| End point timeframe: | On Day 1 and Day 14 in each period (in subjects with intensive pharmacokinetic assessments, on Day 1 at pre-dose and 15 and 30 minutes, and 1, 2 and 4 h post-dose, on Day 14 at pre-dose and 15 and 30 minutes, and 1, 2, 4, 8, 12, 16 and 24 h post-dose) |

| End point values | AZD7594 58 µg | AZD7594 250 µg | AZD7594 800 µg | |
|---|----------------------|----------------------|----------------------|--|
| Subject group type | Subject analysis set | Subject analysis set | Subject analysis set | |
| Number of subjects analysed | 9 | 9 | 8 | |
| Units: h*pmol/L | | | | |
| geometric mean (geometric coefficient of variation) | | | | |
| Day 1 | 56.85 (± 45.4) | 188.5 (± 30.57) | 371.8 (± 31.63) | |
| Day 14 | 467.3 (± 17.93) | 1728 (± 44.36) | 4897 (± 52.48) | |

Statistical analyses

No statistical analyses for this end point

Secondary: Rate and extent of absorption of three dose levels of AZD7594 by assessment of tmax of AZD7594

| | |
|-----------------|---|
| End point title | Rate and extent of absorption of three dose levels of AZD7594 |
|-----------------|---|

End point description:

Comparison of tmax (time to reach maximum plasma concentration) of AZD7594 on Day 1 of each treatment period; up to 6 samples were collected in each period (i.e. in subjects with intensive pharmacokinetic assessments, at pre-dose and 15 and 30 minutes, and 1, 2, and 4 hours post-dose)

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

End point timeframe:

On Day 1 in each period (in subjects with intensive pharmacokinetic assessments, at pre-dose and 15 and 30 minutes, and 1, 2, and 4 h post-dose)

| End point values | AZD7594 58 µg | AZD7594 250 µg | AZD7594 800 µg | |
|-------------------------------|----------------------|----------------------|----------------------|--|
| Subject group type | Subject analysis set | Subject analysis set | Subject analysis set | |
| Number of subjects analysed | 9 | 9 | 8 | |
| Units: Hour | | | | |
| median (full range (min-max)) | | | | |
| tmax | 0.25 (0.23 to 0.27) | 0.25 (0.25 to 0.5) | 0.25 (0.25 to 0.55) | |

Statistical analyses

No statistical analyses for this end point

Secondary: Rate and extent of absorption of three dose levels of AZD7594 following multiple dose administration by assessment of tmax,ss of AZD7594

| | |
|-----------------|--|
| End point title | Rate and extent of absorption of three dose levels of AZD7594 following multiple dose administration by assessment of tmax,ss of AZD7594 |
|-----------------|--|

End point description:

Comparison of tmax,ss (time to reach maximum plasma concentration at steady state) of AZD7594 on Day 14 of each treatment period; up to 10 samples were collected in each period (i.e. in subjects with intensive pharmacokinetic assessments, at pre-dose and 15 and 30 minutes, and 1, 2, 4, 8, 12, 16 and 24 hours post-dose)

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

End point timeframe:

On Day 14 in each period (in subjects with intensive pharmacokinetic assessments, at pre-dose and 15 and 30 minutes, and 1, 2, 4, 8, 12, 16 and 24 h post-dose)

| End point values | AZD7594 58 µg | AZD7594 250 µg | AZD7594 800 µg | |
|-------------------------------|----------------------|----------------------|----------------------|--|
| Subject group type | Subject analysis set | Subject analysis set | Subject analysis set | |
| Number of subjects analysed | 9 | 9 | 8 | |
| Units: Hour | | | | |
| median (full range (min-max)) | | | | |
| tmax,ss | 0.25 (0.25 to 0.5) | 0.25 (0.23 to 0.27) | 0.25 (0.25 to 0.98) | |

Statistical analyses

No statistical analyses for this end point

Secondary: Rate and extent of absorption of three dose levels of AZD7594 following multiple dose administration by assessment of C_{avg,ss} of AZD7594

| | |
|-----------------|--|
| End point title | Rate and extent of absorption of three dose levels of AZD7594 following multiple dose administration by assessment of C _{avg,ss} of AZD7594 |
|-----------------|--|

End point description:

Comparison of C_{avg,ss} (average plasma concentration during a dosing interval at steady state) of AZD7594 on Day 14 of each treatment period; up to 10 samples were collected in each period (i.e. in subjects with intensive pharmacokinetic assessments, at pre-dose and 15 and 30 minutes, and 1, 2, 4, 8, 12, 16 and 24 h post-dose)

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

End point timeframe:

On Day 14 in each period (in subjects with intensive pharmacokinetic assessments, at pre-dose and 15 and 30 minutes, and 1, 2, 4, 8, 12, 16 and 24 h post-dose)

| End point values | AZD7594 58 µg | AZD7594 250 µg | AZD7594 800 µg | |
|---|----------------------|----------------------|----------------------|--|
| Subject group type | Subject analysis set | Subject analysis set | Subject analysis set | |
| Number of subjects analysed | 9 | 9 | 8 | |
| Units: pmol/L | | | | |
| geometric mean (geometric coefficient of variation) | | | | |
| AZD7594 58 µg (n=9) | 19.48 (± 17.93) | 71.89 (± 44.33) | 203.9 (± 52.55) | |

Statistical analyses

No statistical analyses for this end point

Secondary: Rate and extent of absorption of three dose levels of AZD7594 following multiple dose administration by assessment of C_{max}/D of AZD7594

| | |
|-----------------|--|
| End point title | Rate and extent of absorption of three dose levels of AZD7594 following multiple dose administration by assessment of C _{max} /D of AZD7594 |
|-----------------|--|

End point description:

Comparison of C_{max}/D (dose-normalized C_{max}) of AZD7594

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

End point timeframe:

On Day 1 in each period

| End point values | AZD7594 58 µg | AZD7594 250 µg | AZD7594 800 µg | |
|---|----------------------|----------------------|----------------------|--|
| Subject group type | Subject analysis set | Subject analysis set | Subject analysis set | |
| Number of subjects analysed | 9 | 9 | 8 | |
| Units: pmol/L/µmol | | | | |
| geometric mean (geometric coefficient of variation) | | | | |
| C _{max} /D | 380.8 (± 32.8) | 223.4 (± 34.17) | 128.5 (± 43.21) | |

Statistical analyses

No statistical analyses for this end point

Secondary: Rate and extent of absorption of three dose levels of AZD7594 following multiple dose administration by assessment of AUC(0-24)/D of AZD7594

| | |
|--|--|
| End point title | Rate and extent of absorption of three dose levels of AZD7594 following multiple dose administration by assessment of AUC(0-24)/D of AZD7594 |
| End point description: | |
| Comparison of AUC(0-24)/D (dose-normalized AUC(0-24)) of AZD7594 | |
| End point type | Secondary |
| End point timeframe: | |
| On Day 14 in each period | |

| End point values | AZD7594 58 µg | AZD7594 250 µg | AZD7594 800 µg | |
|---|----------------------|----------------------|----------------------|--|
| Subject group type | Subject analysis set | Subject analysis set | Subject analysis set | |
| Number of subjects analysed | 9 | 9 | 8 | |
| Units: h×pmol/L/µmol | | | | |
| geometric mean (geometric coefficient of variation) | | | | |
| AUC (0-24)/D | 4886 (± 17.91) | 4188 (± 44.33) | 3708 (± 52.48) | |

Statistical analyses

No statistical analyses for this end point

Secondary: Rate and extent of absorption of three dose levels of AZD7594 following multiple dose administration by assessment of steady-state C_{min} of AZD7594

| | |
|-----------------|--|
| End point title | Rate and extent of absorption of three dose levels of AZD7594 following multiple dose administration by assessment of steady-state C _{min} of AZD7594 |
|-----------------|--|

End point description:

Comparison of C_{min} (predose concentration) of AZD7594 in each treatment period

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

End point timeframe:

On Day 1 and on Day 14 at pre-dose in each period

| | | | | |
|---|----------------------|----------------------|--|--|
| End point values | AZD7594 250 µg | AZD7594 800 µg | | |
| Subject group type | Subject analysis set | Subject analysis set | | |
| Number of subjects analysed | 9 | 8 | | |
| Units: pmol/L | | | | |
| geometric mean (geometric coefficient of variation) | | | | |
| Steady-state C _{min} | 55.95 (± 51.74) | 191.6 (± 68.27) | | |

Statistical analyses

No statistical analyses for this end point

Adverse events

Adverse events information

Timeframe for reporting adverse events:

From Screening to Follow-up (these two examinations are up to 165 days apart)

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

Dictionary used

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

| | |
|--------------------|-------|
| Dictionary version | 18.1. |
|--------------------|-------|

Reporting groups

| | |
|-----------------------|---------------|
| Reporting group title | Placebo (PBO) |
|-----------------------|---------------|

Reporting group description:

Placebo for AZD7594 DPI once daily

| | |
|-----------------------|---------------|
| Reporting group title | AZD7594 58 µg |
|-----------------------|---------------|

Reporting group description:

AZD7594 DPI once daily - 2 capsules of 29 µg

| | |
|-----------------------|----------------|
| Reporting group title | AZD7594 250 µg |
|-----------------------|----------------|

Reporting group description:

AZD7594 DPI once daily - 2 capsules of 125 µg

| | |
|-----------------------|----------------|
| Reporting group title | AZD7594 800 µg |
|-----------------------|----------------|

Reporting group description:

AZD7594 DPI once daily - 2 capsules of 400 µg

| Serious adverse events | Placebo (PBO) | AZD7594 58 µg | AZD7594 250 µg |
|---|----------------|----------------|----------------|
| Total subjects affected by serious adverse events | | | |
| subjects affected / exposed | 0 / 52 (0.00%) | 0 / 34 (0.00%) | 0 / 34 (0.00%) |
| number of deaths (all causes) | 0 | 0 | 0 |
| number of deaths resulting from adverse events | 0 | 0 | 0 |

| Serious adverse events | AZD7594 800 µg | | |
|---|----------------|--|--|
| Total subjects affected by serious adverse events | | | |
| subjects affected / exposed | 0 / 34 (0.00%) | | |
| number of deaths (all causes) | 0 | | |
| number of deaths resulting from adverse events | 0 | | |

Frequency threshold for reporting non-serious adverse events: 0 %

| Non-serious adverse events | Placebo (PBO) | AZD7594 58 µg | AZD7594 250 µg |
|---|------------------|------------------|-----------------|
| Total subjects affected by non-serious adverse events | | | |
| subjects affected / exposed | 17 / 52 (32.69%) | 13 / 34 (38.24%) | 9 / 34 (26.47%) |
| Investigations | | | |
| Blood lactate dehydrogenase increased | | | |
| subjects affected / exposed | 0 / 52 (0.00%) | 0 / 34 (0.00%) | 0 / 34 (0.00%) |
| occurrences (all) | 0 | 0 | 0 |
| Hepatic enzyme increased | | | |
| subjects affected / exposed | 1 / 52 (1.92%) | 0 / 34 (0.00%) | 1 / 34 (2.94%) |
| occurrences (all) | 1 | 0 | 1 |
| Injury, poisoning and procedural complications | | | |
| Contusion | | | |
| subjects affected / exposed | 0 / 52 (0.00%) | 0 / 34 (0.00%) | 1 / 34 (2.94%) |
| occurrences (all) | 0 | 0 | 1 |
| Nervous system disorders | | | |
| Headache | | | |
| subjects affected / exposed | 0 / 52 (0.00%) | 0 / 34 (0.00%) | 3 / 34 (8.82%) |
| occurrences (all) | 0 | 0 | 3 |
| Migraine | | | |
| subjects affected / exposed | 0 / 52 (0.00%) | 1 / 34 (2.94%) | 0 / 34 (0.00%) |
| occurrences (all) | 0 | 1 | 0 |
| Blood and lymphatic system disorders | | | |
| Anaemia vitamin B12 deficiency | | | |
| subjects affected / exposed | 1 / 52 (1.92%) | 0 / 34 (0.00%) | 0 / 34 (0.00%) |
| occurrences (all) | 1 | 0 | 0 |
| Eye disorders | | | |
| Eye irritation | | | |
| subjects affected / exposed | 1 / 52 (1.92%) | 0 / 34 (0.00%) | 0 / 34 (0.00%) |
| occurrences (all) | 1 | 0 | 0 |
| Gastrointestinal disorders | | | |
| Diarrhoea | | | |
| subjects affected / exposed | 0 / 52 (0.00%) | 0 / 34 (0.00%) | 0 / 34 (0.00%) |
| occurrences (all) | 0 | 0 | 0 |
| Abdominal discomfort | | | |
| subjects affected / exposed | 0 / 52 (0.00%) | 1 / 34 (2.94%) | 0 / 34 (0.00%) |
| occurrences (all) | 0 | 1 | 0 |
| Dental caries | | | |

| | | | |
|---|----------------|----------------|----------------|
| subjects affected / exposed | 0 / 52 (0.00%) | 1 / 34 (2.94%) | 0 / 34 (0.00%) |
| occurrences (all) | 0 | 1 | 0 |
| Abdominal pain upper | | | |
| subjects affected / exposed | 1 / 52 (1.92%) | 0 / 34 (0.00%) | 0 / 34 (0.00%) |
| occurrences (all) | 1 | 0 | 0 |
| Gingival bleeding | | | |
| subjects affected / exposed | 1 / 52 (1.92%) | 0 / 34 (0.00%) | 0 / 34 (0.00%) |
| occurrences (all) | 1 | 0 | 0 |
| Toothache | | | |
| subjects affected / exposed | 1 / 52 (1.92%) | 0 / 34 (0.00%) | 0 / 34 (0.00%) |
| occurrences (all) | 1 | 0 | 0 |
| Vomiting | | | |
| subjects affected / exposed | 1 / 52 (1.92%) | 0 / 34 (0.00%) | 0 / 34 (0.00%) |
| occurrences (all) | 1 | 0 | 0 |
| Respiratory, thoracic and mediastinal disorders | | | |
| Cough | | | |
| subjects affected / exposed | 1 / 52 (1.92%) | 2 / 34 (5.88%) | 0 / 34 (0.00%) |
| occurrences (all) | 1 | 2 | 0 |
| Oropharyngeal pain | | | |
| subjects affected / exposed | 0 / 52 (0.00%) | 1 / 34 (2.94%) | 1 / 34 (2.94%) |
| occurrences (all) | 0 | 1 | 1 |
| Asthma | | | |
| subjects affected / exposed | 1 / 52 (1.92%) | 0 / 34 (0.00%) | 1 / 34 (2.94%) |
| occurrences (all) | 1 | 0 | 1 |
| Epistaxis | | | |
| subjects affected / exposed | 0 / 52 (0.00%) | 0 / 34 (0.00%) | 0 / 34 (0.00%) |
| occurrences (all) | 0 | 0 | 0 |
| Respiratory distress | | | |
| subjects affected / exposed | 0 / 52 (0.00%) | 0 / 34 (0.00%) | 0 / 34 (0.00%) |
| occurrences (all) | 0 | 0 | 0 |
| Sputum increased | | | |
| subjects affected / exposed | 1 / 52 (1.92%) | 1 / 34 (2.94%) | 0 / 34 (0.00%) |
| occurrences (all) | 1 | 1 | 0 |
| Dyspnoea | | | |

| | | | |
|---|----------------------|----------------------|---------------------|
| subjects affected / exposed occurrences (all) | 2 / 52 (3.85%) 2 | 0 / 34 (0.00%) 0 | 0 / 34 (0.00%) 0 |
| Nasal inflammation subjects affected / exposed occurrences (all) | 1 / 52 (1.92%) 1 | 0 / 34 (0.00%) 0 | 0 / 34 (0.00%) 0 |
| Productive cough subjects affected / exposed occurrences (all) | 1 / 52 (1.92%) 1 | 0 / 34 (0.00%) 0 | 0 / 34 (0.00%) 0 |
| Hepatobiliary disorders Hepatosplenomegaly subjects affected / exposed occurrences (all) | 0 / 52 (0.00%) 0 | 0 / 34 (0.00%) 0 | 0 / 34 (0.00%) 0 |
| Skin and subcutaneous tissue disorders Pruritus subjects affected / exposed occurrences (all) | 0 / 52 (0.00%) 0 | 1 / 34 (2.94%) 1 | 0 / 34 (0.00%) 0 |
| Eczema subjects affected / exposed occurrences (all) | 1 / 52 (1.92%) 1 | 0 / 34 (0.00%) 0 | 0 / 34 (0.00%) 0 |
| Musculoskeletal and connective tissue disorders Arthralgia subjects affected / exposed occurrences (all) | 0 / 52 (0.00%) 0 | 1 / 34 (2.94%) 1 | 0 / 34 (0.00%) 0 |
| Back pain subjects affected / exposed occurrences (all) | 0 / 52 (0.00%) 0 | 0 / 34 (0.00%) 0 | 0 / 34 (0.00%) 0 |
| Musculoskeletal pain subjects affected / exposed occurrences (all) | 0 / 52 (0.00%) 0 | 1 / 34 (2.94%) 1 | 0 / 34 (0.00%) 0 |
| Infections and infestations Nasopharyngitis subjects affected / exposed occurrences (all) | 8 / 52 (15.38%) 8 | 4 / 34 (11.76%) 4 | 2 / 34 (5.88%) 2 |
| Gastroenteritis subjects affected / exposed occurrences (all) | 0 / 52 (0.00%) 0 | 3 / 34 (8.82%) 3 | 0 / 34 (0.00%) 0 |

| | | | |
|-----------------------------|----------------|----------------|----------------|
| Gastrointestinal infection | | | |
| subjects affected / exposed | 0 / 52 (0.00%) | 0 / 34 (0.00%) | 1 / 34 (2.94%) |
| occurrences (all) | 0 | 0 | 1 |
| Hordeolum | | | |
| subjects affected / exposed | 0 / 52 (0.00%) | 0 / 34 (0.00%) | 1 / 34 (2.94%) |
| occurrences (all) | 0 | 0 | 1 |
| Rhinitis | | | |
| subjects affected / exposed | 0 / 52 (0.00%) | 0 / 34 (0.00%) | 1 / 34 (2.94%) |
| occurrences (all) | 0 | 0 | 1 |
| Sinusitis | | | |
| subjects affected / exposed | 1 / 52 (1.92%) | 0 / 34 (0.00%) | 0 / 34 (0.00%) |
| occurrences (all) | 1 | 0 | 0 |

| | | | |
|---|------------------|--|--|
| Non-serious adverse events | AZD7594 800 µg | | |
| Total subjects affected by non-serious adverse events | | | |
| subjects affected / exposed | 12 / 34 (35.29%) | | |
| Investigations | | | |
| Blood lactate dehydrogenase increased | | | |
| subjects affected / exposed | 1 / 34 (2.94%) | | |
| occurrences (all) | 1 | | |
| Hepatic enzyme increased | | | |
| subjects affected / exposed | 0 / 34 (0.00%) | | |
| occurrences (all) | 0 | | |
| Injury, poisoning and procedural complications | | | |
| Contusion | | | |
| subjects affected / exposed | 0 / 34 (0.00%) | | |
| occurrences (all) | 0 | | |
| Nervous system disorders | | | |
| Headache | | | |
| subjects affected / exposed | 2 / 34 (5.88%) | | |
| occurrences (all) | 2 | | |
| Migraine | | | |
| subjects affected / exposed | 1 / 34 (2.94%) | | |
| occurrences (all) | 1 | | |
| Blood and lymphatic system disorders | | | |

| | | | |
|--|---|--|--|
| Anaemia vitamin B12 deficiency subjects affected / exposed occurrences (all) | 0 / 34 (0.00%) 0 | | |
| Eye disorders Eye irritation subjects affected / exposed occurrences (all) | 0 / 34 (0.00%) 0 | | |
| Gastrointestinal disorders Diarrhoea subjects affected / exposed occurrences (all) Abdominal discomfort subjects affected / exposed occurrences (all) Dental caries subjects affected / exposed occurrences (all) Abdominal pain upper subjects affected / exposed occurrences (all) Gingival bleeding subjects affected / exposed occurrences (all) Toothache subjects affected / exposed occurrences (all) Vomiting subjects affected / exposed occurrences (all) | 3 / 34 (8.82%) 3 0 / 34 (0.00%) 0 0 / 34 (0.00%) 0 0 / 34 (0.00%) 0 0 / 34 (0.00%) 0 0 / 34 (0.00%) 0 0 / 34 (0.00%) 0 | | |
| Respiratory, thoracic and mediastinal disorders Cough subjects affected / exposed occurrences (all) Oropharyngeal pain subjects affected / exposed occurrences (all) | 0 / 34 (0.00%) 0 0 / 34 (0.00%) 0 | | |

| | | | |
|---|----------------|--|--|
| Asthma subjects affected / exposed occurrences (all) Epistaxis subjects affected / exposed occurrences (all) Respiratory distress subjects affected / exposed occurrences (all) Sputum increased subjects affected / exposed occurrences (all) Dyspnoea subjects affected / exposed occurrences (all) Nasal inflammation subjects affected / exposed occurrences (all) Productive cough subjects affected / exposed occurrences (all) | 0 / 34 (0.00%) | | |
| | 0 | | |
| | 1 / 34 (2.94%) | | |
| | 1 | | |
| | 1 / 34 (2.94%) | | |
| | 1 | | |
| | 0 / 34 (0.00%) | | |
| Hepatobiliary disorders Hepatosplenomegaly subjects affected / exposed occurrences (all) Skin and subcutaneous tissue disorders Pruritus subjects affected / exposed occurrences (all) Eczema subjects affected / exposed occurrences (all) | 0 | | |
| | 0 / 34 (0.00%) | | |
| | 0 | | |
| | 0 / 34 (0.00%) | | |
| | 0 | | |
| | 0 / 34 (0.00%) | | |
| | 0 | | |
| Musculoskeletal and connective tissue disorders Arthralgia subjects affected / exposed occurrences (all) | 1 / 34 (2.94%) | | |
| | 1 | | |
| Arthralgia subjects affected / exposed occurrences (all) | 0 / 34 (0.00%) | | |
| | 0 | | |

| | | | |
|-----------------------------|-----------------|--|--|
| Back pain | | | |
| subjects affected / exposed | 1 / 34 (2.94%) | | |
| occurrences (all) | 1 | | |
| Musculoskeletal pain | | | |
| subjects affected / exposed | 0 / 34 (0.00%) | | |
| occurrences (all) | 0 | | |
| Infections and infestations | | | |
| Nasopharyngitis | | | |
| subjects affected / exposed | 4 / 34 (11.76%) | | |
| occurrences (all) | 4 | | |
| Gastroenteritis | | | |
| subjects affected / exposed | 0 / 34 (0.00%) | | |
| occurrences (all) | 0 | | |
| Gastrointestinal infection | | | |
| subjects affected / exposed | 0 / 34 (0.00%) | | |
| occurrences (all) | 0 | | |
| Hordeolum | | | |
| subjects affected / exposed | 0 / 34 (0.00%) | | |
| occurrences (all) | 0 | | |
| Rhinitis | | | |
| subjects affected / exposed | 0 / 34 (0.00%) | | |
| occurrences (all) | 0 | | |
| Sinusitis | | | |
| subjects affected / exposed | 0 / 34 (0.00%) | | |
| occurrences (all) | 0 | | |

More information

Substantial protocol amendments (globally)

Were there any global substantial amendments to the protocol? Yes

| Date | Amendment |
|--------------|---|
| 26 June 2015 | Changes are made in the following: Number of study centers, inclusion criteria included reversibility to salbutamol testing in spirometry and a repeat Visit 1 in case reversibility test was negative., exclusion criteria of hypersensitivity to the active substance or to any of the excipients of the Run-in medication, budesonide , thyroid function test (safety laboratory assessments schedule), run-in part 1 (length of budesonide treatment), duration of run-in period (parts 1 & 2) and total study duration for each individual patient |

Notes:

Interruptions (globally)

Were there any global interruptions to the trial? No

Limitations and caveats

None reported