



Clinical trial results:

A repeat-dose, open-label, randomized, incomplete block design in pediatric subjects with asthma, ages 4 - 11 years, to compare systemic exposure and pharmacodynamics of fluticasone propionate and salmeterol following Advair® HFA 45/21 mcg (2 inhalations), Advair HFA 45/21 mcg (2 inhalations) with Aerochamber Plus Spacer and Advair Diskus 100/50 twice daily.

Summary

| | |
|--------------------------|------------------|
| EudraCT number | 2015-004866-27 |
| Trial protocol | Outside EU/EEA |
| Global end of trial date | 02 February 2007 |

Results information

| | |
|--------------------------------|------------------|
| Result version number | v1 (current) |
| This version publication date | 19 December 2016 |
| First version publication date | 19 December 2016 |

Trial information

Trial identification

| | |
|-----------------------|-----------|
| Sponsor protocol code | SAS105519 |
|-----------------------|-----------|

Additional study identifiers

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

Notes:

Sponsors

| | |
|------------------------------|---|
| Sponsor organisation name | GlaxoSmithKline |
| Sponsor organisation address | 980 Great West Road, Brentford, Middlesex, United Kingdom, |
| Public contact | GSK Response Center, GlaxoSmithKline, 1-866 4357343, GSKClinicalSupportHD@gsk.com |
| Scientific contact | GSK Response Center, GlaxoSmithKline, 1-866 4357343, GSKClinicalSupportHD@gsk.com |

Notes:

Paediatric regulatory details

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|--|----|
| 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 | 11 July 2007 |
| Is this the analysis of the primary completion data? | Yes |
| Primary completion date | 02 February 2007 |
| Global end of trial reached? | Yes |
| Global end of trial date | 02 February 2007 |
| Was the trial ended prematurely? | No |

Notes:

General information about the trial

Main objective of the trial:

The purpose of this study was to compare the systemic exposure and pharmacodynamics of therapeutic doses of Advair HFA

Protection of trial subjects:

Not applicable

Background therapy: -

Evidence for comparator: -

| | |
|---|-----------------|
| Actual start date of recruitment | 30 October 2006 |
| 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 | United States: 31 |
| Worldwide total number of subjects | 31 |
| EEA total number of subjects | 0 |

Notes:

Subjects enrolled per age group

| | |
|---|----|
| In utero | 0 |
| Preterm newborn - gestational age < 37 wk | 0 |
| Newborns (0-27 days) | 0 |
| Infants and toddlers (28 days-23 months) | 0 |
| Children (2-11 years) | 31 |
| Adolescents (12-17 years) | 0 |
| Adults (18-64 years) | 0 |
| From 65 to 84 years | 0 |
| 85 years and over | 0 |

Subject disposition

Recruitment

Recruitment details:

This was a repeat-dose, open-label randomized, incomplete block design study in pediatric participants with asthma, aged 4-11 years to compare systemic exposure and pharmacodynamics of Advair HFA (A), Advair DISKUS (B), and Advair HFA with Aerochamber Plus Spacer (C) in two treatment periods, with a follow-up period within 24 hours post last dose.

Pre-assignment

Screening details:

Following Baseline assessments, participants received Advair HFA 45/21 microgram (μg) (two inhalations), Advair DISKUS 100/50 μg (one inhalation), or Advair HFA with Aerochamber Plus Spacer 45/21 μg (two inhalations) twice daily for 21 days, in accordance with the treatment sequence to which they were randomized (AB,BA,AC,CA,BC,or CB).

Period 1

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

Arms

| | |
|-----------|----------------------|
| Arm title | All study treatments |
|-----------|----------------------|

Arm description:

Participants were randomized to one of the 6 possible treatment arms (AB, BC, AC, CA, BC, or CB): Treatment regimen A: two inhalations of ADVAIR HFA 45/21 μg , which was a combination of 45 μg of fluticasone propionate (FP) and 21 μg of salmeterol administered via a metered dose inhaler (MDI), treatment regimen B: Advair HFA 42/21 μg with Aerochamber Plus Spacer, or treatment regimen C: Advair DISKUS 100/50 μg twice daily (BID) for 21 days (on outpatient basis except on Day 21) in both treatment periods without any washout period.

| | |
|--|-------------------|
| Arm type | Experimental |
| Investigational medicinal product name | ADVAIR HFA |
| Investigational medicinal product code | |
| Other name | |
| Pharmaceutical forms | Inhalation powder |
| Routes of administration | Inhalation use |

Dosage and administration details:

Advair HFA 45/21 μg was supplied as an HFA-propelled 120-actuation MDI designed to deliver approximately 21 μg salmeterol and 42 μg FP per actuation. Two inhalations from this device twice daily (BID) for 21 days.

| | |
|--|---|
| Investigational medicinal product name | ADVAIR HFA with Aerochamber Plus Spacer |
| Investigational medicinal product code | |
| Other name | |
| Pharmaceutical forms | Inhalation powder |
| Routes of administration | Inhalation use |

Dosage and administration details:

Advair HFA 45/21 μg was supplied as supplied as a 6 mutli-dose powder inhaler (MDPI) to deliver 45 μg of salmeterol and 21 μg of fluticasone propionate (FP). Two inhalations from the DISKUS device twice daily (BID) for 21 days

| | |
|--|-------------------|
| Investigational medicinal product name | ADVAIR DISKUS |
| Investigational medicinal product code | |
| Other name | |
| Pharmaceutical forms | Inhalation powder |
| Routes of administration | Inhalation use |

Dosage and administration details:

One inhalation of ADVAIR DISKUS 100/50mcg (Fluticasone, Salmeterol) will be administered twice daily for 21 days

| Number of subjects in period 1 | All study treatments |
|---------------------------------------|----------------------|
| Started | 31 |
| Completed | 28 |
| Not completed | 3 |
| Consent withdrawn by subject | 2 |
| Missing | 1 |

Baseline characteristics

Reporting groups

| | |
|-----------------------|---------------|
| Reporting group title | Overall study |
|-----------------------|---------------|

Reporting group description: -

| Reporting group values | Overall study | Total | |
|---|-----------------|-------|--|
| Number of subjects | 31 | 31 | |
| Age categorical Units: Subjects | | | |
| Age continuous Units: years arithmetic mean standard deviation | 7.16 ± 2.423 | - | |
| Gender categorical Units: Subjects | | | |
| Female | 7 | 7 | |
| Male | 24 | 24 | |
| Race Units: Subjects | | | |
| AfricanAmerican/African Heritage | 2 | 2 | |
| Asian-South East Asian Heritage | 1 | 1 | |
| Native Hawaiian or Other Pacific Islander | 1 | 1 | |
| White-Arabic/North African Heritage | 2 | 2 | |
| White-White/Caucasian/European Heritage | 25 | 25 | |

End points

End points reporting groups

| | |
|-----------------------|----------------------|
| Reporting group title | All study treatments |
|-----------------------|----------------------|

Reporting group description:

Participants were randomized to one of the 6 possible treatment arms (AB, BC, AC, CA, BC, or CB): Treatment regimen A: two inhalations of ADVAIR HFA 45/21 µg, which was a combination of 45 µg of fluticasone propionate (FP) and 21 µg of salmeterol administered via a metered dose inhaler (MDI), treatment regimen B: Advair HFA 42/21 µg with Aerochamber Plus Spacer, or treatment regimen C: Advair DISKUS 100/50 µg twice daily (BID) for 21 days (on outpatient basis except on Day 21) in both treatment periods without any washout period.

| | |
|----------------------------|--------------------|
| Subject analysis set title | Advair HFA |
| Subject analysis set type | Sub-group analysis |

Subject analysis set description:

Participants were randomized to one of the 6 possible treatment arms (AB, BA, AC, CA, BC, or CB): two inhalations of ADVAIR HFA 45/21 µg, which was supplied as a HFA-propelled 120-actuation metered dose inhaler (MDI) designed to deliver 45 µg of fluticasone propionate (FP) and 21 µg of salmeterol twice daily (BID) for 21 days (on outpatient basis except on Day 21) along with either Advair HFA with Aerochamber Plus Spacer or Advair DISKUS. After this treatment period 1, participants received a repeat dosing of the same sequence for 21 days without any washout period.

| | |
|----------------------------|------------------------|
| Subject analysis set title | Advair HFA with Spacer |
| Subject analysis set type | Sub-group analysis |

Subject analysis set description:

Participants were randomized to one of the 6 possible treatment arms (AB, BA, AC, CA, BC, or CB): two inhalations of ADVAIR HFA 45/21 µg with Aerochamber Plus Spacer, which was supplied as a metered dose inhaler (MDI) designed to deliver 45 µg of FP and 21 µg of salmeterol twice daily (BID) for 21 days (on outpatient basis except on Day 21) along with either Advair HFA or Advair DISKUS. After this treatment period 1, participants received a repeat dosing of the same sequence for 21 days without any washout period.

| | |
|----------------------------|--------------------|
| Subject analysis set title | Advair DISKUS |
| Subject analysis set type | Sub-group analysis |

Subject analysis set description:

Participants were randomized to one of the 6 possible treatment arms (AB, BA, AC, CA, BC or CB): one inhalation of ADVAIR DISKUS 100/50 µg, which was supplied as a 60-dose multi-dose powder inhaler (MPDI) designed to deliver 100 µg of FP and 50 µg of salmeterol twice daily (BID) for 21 days (on outpatient basis except on Day 21) along with either Advair HFA with Aerochamber Plus Spacer or Advair HFA. After this treatment period 1, participants received a repeat dosing of the same sequence for 21 days without any washout period.

Primary: Weighted mean serum cortisol (SC) over 0 to 12 hours (h; 0-12 h) post-dose for fluticasone propionate (FP)

| | |
|-----------------|--|
| End point title | Weighted mean serum cortisol (SC) over 0 to 12 hours (h; 0-12 h) post-dose for fluticasone propionate (FP) |
|-----------------|--|

End point description:

Participants' blood samples were collected and analyzed for SC levels. The serum cortisol weighted mean, calculated by dividing the area under the concentration curve (AUC) over the 0-12 h period by the sample collection time interval, was determined at Baseline and at the end of each treatment period. Only participants data available at the analysis time point were analyzed (represented as n=X, X, X in category title. Pharmacodynamic (PD) parameter population was defined as all participants who received treatment during both periods and for whom PD parameters were derived for both periods.

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

End point timeframe:

Baseline and 0, 2, 4, 8, and 12 h post-dose on Day 21 of each treatment period

| End point values | Advair HFA | Advair HFA with Spacer | Advair DISKUS | |
|--|----------------------|------------------------|----------------------|--|
| Subject group type | Subject analysis set | Subject analysis set | Subject analysis set | |
| Number of subjects analysed | 18 ^[1] | 19 ^[2] | 20 ^[3] | |
| Units: Nanomoles per liter (nmol/L) | | | | |
| geometric mean (confidence interval 95%) | 0.86 (0.77 to 0.96) | 0.78 (0.7 to 0.86) | 0.87 (0.79 to 0.97) | |

Notes:

[1] - Pharmacodynamic (PD) Parameter Population

[2] - Pharmacodynamic (PD) Parameter Population

[3] - Pharmacodynamic (PD) Parameter Population

Statistical analyses

| Statistical analysis title | Statistical analysis 1 |
|---|-----------------------------------|
| Comparison groups | Advair DISKUS v Advair HFA |
| Number of subjects included in analysis | 38 |
| Analysis specification | Pre-specified |
| Analysis type | other ^[4] |
| Parameter estimate | Ratio of adjusted geometric means |
| Point estimate | 0.98 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | 0.87 |
| upper limit | 1.12 |
| Variability estimate | Standard error of the mean |
| Dispersion value | 0.062 |

Notes:

[4] - If the two-sided CI for the ratio of geometric means for the two formulations is contained within the range of 0.7 to 1.43, the two formulations were deemed comparable.

| Statistical analysis title | Statistical analysis 2 |
|---|--|
| Comparison groups | Advair DISKUS v Advair HFA with Spacer |
| Number of subjects included in analysis | 39 |
| Analysis specification | Pre-specified |
| Analysis type | other ^[5] |
| Parameter estimate | Ratio of adjusted geometric means |
| Point estimate | 0.89 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | 0.78 |
| upper limit | 1.01 |
| Variability estimate | Standard error of the mean |
| Dispersion value | 0.061 |

Notes:

[5] - If the two-sided CI for the ratio of geometric means for the two formulations is contained within the range of 0.7 to 1.43, the two formulations were deemed comparable.

| Statistical analysis title | Statistical analysis 3 |
|----------------------------|-------------------------------------|
| Comparison groups | Advair HFA with Spacer v Advair HFA |

| | |
|---|-----------------------------------|
| Number of subjects included in analysis | 37 |
| Analysis specification | Pre-specified |
| Analysis type | other ^[6] |
| Parameter estimate | Ratio of adjusted geometric means |
| Point estimate | 0.9 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | 0.79 |
| upper limit | 1.03 |
| Variability estimate | Standard error of the mean |
| Dispersion value | 0.064 |

Notes:

[6] - If the two-sided CI for the ratio of geometric means for the two formulations is contained within the range of 0.7 to 1.43, the two formulations were deemed comparable.

Primary: Serum cortisol minimum (Cmin) over 0-12 h post-dose for FP

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|---|--|
| End point title | Serum cortisol minimum (Cmin) over 0-12 h post-dose for FP |
| End point description: | |
| Blood samples of participants were collected for the evaluation of Cmin. Any differences in systemic exposure as a result of the absorbed steroid component of the three differing inhaled treatments should also result in differences in serum cortisol concentrations. Only participants data available at the analysis time point were analyzed (represented as n=X, X, X in category title). | |
| End point type | Primary |
| End point timeframe: | |
| At Baseline and 0, 2, 4, 8, and 12 h post-dose on Day 21 of each treatment period | |

| End point values | Advair HFA | Advair HFA with Spacer | Advair DISKUS | |
|--|----------------------|------------------------|----------------------|--|
| Subject group type | Subject analysis set | Subject analysis set | Subject analysis set | |
| Number of subjects analysed | 18 ^[7] | 19 ^[8] | 20 ^[9] | |
| Units: Nanomoles/liter (nmol/L) | | | | |
| geometric mean (confidence interval 95%) | 0.9 (0.69 to 1.18) | 0.67 (0.52 to 0.87) | 1.09 (0.84 to 1.4) | |

Notes:

[7] - Pharmacodynamic (PD) Parameter Population

[8] - Pharmacodynamic (PD) Parameter Population

[9] - Pharmacodynamic (PD) Parameter Population

Statistical analyses

| | |
|---|-----------------------------------|
| Statistical analysis title | Statistical analysis 1 |
| Comparison groups | Advair HFA v Advair DISKUS |
| Number of subjects included in analysis | 38 |
| Analysis specification | Pre-specified |
| Analysis type | other ^[10] |
| Parameter estimate | Ratio of adjusted geometric means |
| Point estimate | 0.83 |

| | |
|----------------------|----------------------------|
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | 0.57 |
| upper limit | 1.2 |
| Variability estimate | Standard error of the mean |
| Dispersion value | 0.185 |

Notes:

[10] - If the two-sided CI for the ratio of geometric means for the two formulations is contained within the range of 0.7 to 1.43, the two formulations were deemed comparable.

| | |
|---|--|
| Statistical analysis title | Statistical analysis 2 |
| Comparison groups | Advair DISKUS v Advair HFA with Spacer |
| Number of subjects included in analysis | 39 |
| Analysis specification | Pre-specified |
| Analysis type | other ^[11] |
| Parameter estimate | Ratio of adjusted geometric means |
| Point estimate | 0.62 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | 0.43 |
| upper limit | 0.89 |
| Variability estimate | Standard error of the mean |
| Dispersion value | 0.183 |

Notes:

[11] - If the two-sided CI for the ratio of geometric means for the two formulations is contained within the range of 0.7 to 1.43, the two formulations were deemed comparable.

| | |
|---|-------------------------------------|
| Statistical analysis title | Statistical analysis 3 |
| Comparison groups | Advair HFA with Spacer v Advair HFA |
| Number of subjects included in analysis | 37 |
| Analysis specification | Pre-specified |
| Analysis type | other ^[12] |
| Parameter estimate | Ratio of adjusted geometric means |
| Point estimate | 0.75 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | 0.51 |
| upper limit | 1.09 |
| Variability estimate | Standard error of the mean |
| Dispersion value | 0.189 |

Notes:

[12] - If the two-sided CI for the ratio of geometric means for the two formulations is contained within the range of 0.7 to 1.43, the two formulations were deemed comparable.

Secondary: Maximum mean change from Baseline of the QT Interval Corrected According to Bazett's Formula (QTcB) at 9 hours post-dose

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|-----------------|--|
| End point title | Maximum mean change from Baseline of the QT Interval Corrected According to Bazett's Formula (QTcB) at 9 hours post-dose |
|-----------------|--|

End point description:

Twelve-lead electrocardiogram was performed to measure QTcB at Baseline, pre-dose and at 15 min, 45 min, 1.5 h, 3h, 6 h and 9 h post-dose on Day 21 of each treatment period and maximum value for QTcB was derived during the 0-9 h period. Baseline was defined as the derived parameter from the Baseline assessment. Only participants data available at the analysis time point were analyzed (represented as n=X, X, X in category title). Pharmacodynamic (PD) parameter population was defined as all participants who received treatment during both periods and for whom PD parameters were derived for both periods.

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

End point timeframe:

At Baseline, and pre-dose, 15 min, 45 min, 1.5 h, 3 h, 6 h, and 9 h on Day 21 of each treatment period

| End point values | Advair HFA | Advair HFA with Spacer | Advair DISKUS | |
|----------------------------------|----------------------|------------------------|----------------------|--|
| Subject group type | Subject analysis set | Subject analysis set | Subject analysis set | |
| Number of subjects analysed | 18 ^[13] | 19 ^[14] | 20 ^[15] | |
| Units: Milliseconds (ms) | | | | |
| arithmetic mean (standard error) | 3.6 (± 2.2) | -2.2 (± 2.14) | 0.4 (± 2.08) | |

Notes:

[13] - Pharmacodynamic (PD) Parameter Population

[14] - Pharmacodynamic (PD) Parameter Population

[15] - Pharmacodynamic (PD) Parameter Population

Statistical analyses

| Statistical analysis title | Statistical analysis 1 |
|---|------------------------------|
| Comparison groups | Advair HFA v Advair DISKUS |
| Number of subjects included in analysis | 38 |
| Analysis specification | Pre-specified |
| Analysis type | other |
| Parameter estimate | Difference of adjusted means |
| Point estimate | 3.2 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | -2.3 |
| upper limit | 8.8 |
| Variability estimate | Standard error of the mean |
| Dispersion value | 2.73 |

| Statistical analysis title | Statistical analysis 2 |
|---|--|
| Comparison groups | Advair DISKUS v Advair HFA with Spacer |
| Number of subjects included in analysis | 39 |
| Analysis specification | Pre-specified |
| Analysis type | other |
| Parameter estimate | Difference of adjusted means |
| Point estimate | -2.6 |

| | |
|----------------------|----------------------------|
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | -8 |
| upper limit | 2.9 |
| Variability estimate | Standard error of the mean |
| Dispersion value | 2.69 |

| | |
|---|-------------------------------------|
| Statistical analysis title | Statistical analysis 3 |
| Comparison groups | Advair HFA with Spacer v Advair HFA |
| Number of subjects included in analysis | 37 |
| Analysis specification | Pre-specified |
| Analysis type | other |
| Parameter estimate | Difference of adjusted means |
| Point estimate | -5.8 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | -11.5 |
| upper limit | -0.1 |
| Variability estimate | Standard error of the mean |
| Dispersion value | 2.82 |

Secondary: Weighted mean change from Baseline of the QT Interval Corrected According to Bazett's Formula (QTcB) at 9 hours post-dose

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|-----------------|---|
| End point title | Weighted mean change from Baseline of the QT Interval Corrected According to Bazett's Formula (QTcB) at 9 hours post-dose |
|-----------------|---|

End point description:

Twelve-lead electrocardiograms were performed to measure QTcB at Baseline, pre-dose and 15 min, 45 min, 1.5 h, 3h, 6 h and 9 h post-dose on Day 21 of each treatment period. Baseline was defined as the derived parameter from the Baseline assessment. Weighted mean (WM) was derived by calculating the area under curve (AUC), and then dividing by the relevant time interval. The data are presented as the adjusted means of WM. Only participants data available at the analysis time point were analyzed (represented as n=X, X, X in category title).

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

End point timeframe:

At Baseline, and pre-dose, 15 min, 45 min, 1.5 h, 3 h, 6 h, and 9 h on Day 21 of each treatment period

| End point values | Advair HFA | Advair HFA with Spacer | Advair DISKUS | |
|----------------------------------|----------------------|------------------------|----------------------|--|
| Subject group type | Subject analysis set | Subject analysis set | Subject analysis set | |
| Number of subjects analysed | 18 ^[16] | 19 ^[17] | 20 ^[18] | |
| Units: Milliseconds (ms) | | | | |
| arithmetic mean (standard error) | 5 (± 1.61) | 0.1 (± 1.62) | 1 (± 1.53) | |

Notes:

[16] - PD Parameter Population

[17] - PD Parameter Population

[18] - PD Parameter Population

Statistical analyses

| | |
|---|------------------------------|
| Statistical analysis title | Statistical analysis 1 |
| Comparison groups | Advair HFA v Advair DISKUS |
| Number of subjects included in analysis | 38 |
| Analysis specification | Pre-specified |
| Analysis type | other |
| Parameter estimate | Difference of adjusted means |
| Point estimate | 4 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | 0.2 |
| upper limit | 7.9 |
| Variability estimate | Standard error of the mean |
| Dispersion value | 1.9 |

| | |
|---|--|
| Statistical analysis title | Statistical analysis 2 |
| Comparison groups | Advair DISKUS v Advair HFA with Spacer |
| Number of subjects included in analysis | 39 |
| Analysis specification | Pre-specified |
| Analysis type | other |
| Parameter estimate | Difference of adjusted means |
| Point estimate | -0.9 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | -4.8 |
| upper limit | 3 |
| Variability estimate | Standard error of the mean |
| Dispersion value | 1.9 |

| | |
|-----------------------------------|-------------------------------------|
| Statistical analysis title | Statistical analysis 3 |
| Comparison groups | Advair HFA with Spacer v Advair HFA |

| | |
|---|------------------------------|
| Number of subjects included in analysis | 37 |
| Analysis specification | Pre-specified |
| Analysis type | other |
| Parameter estimate | Difference of adjusted means |
| Point estimate | -4.9 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | -9.1 |
| upper limit | -0.8 |
| Variability estimate | Standard error of the mean |
| Dispersion value | 2.03 |

Secondary: Maximum mean change from Baseline of the QT Interval Corrected According to Fridericia's Formula (QTcF) at 9 hours post-dose

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|-----------------|--|
| End point title | Maximum mean change from Baseline of the QT Interval Corrected According to Fridericia's Formula (QTcF) at 9 hours post-dose |
|-----------------|--|

End point description:

Twelve-lead electrocardiograms (ECGs) were performed to measure QT interval corrected according to Fridericia's formula (QTcF) at Baseline, pre-dose and 15 minutes (min), 45 min, 1.5 hours (h), 3h, 6 h and 9 h post-dose on Day 21 of each treatment period and the maximum values for QTcF were derived during the 0-9 h period. Baseline was defined as the derived parameter from the Baseline assessment. The data are presented as adjusted means of the maximum QTcF. Only participants data available at the analysis time point were analyzed (represented as n=X, X, X in category title).

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

End point timeframe:

At Baseline, and pre-dose, 15 min, 45 min, 1.5 h, 3 h, 6 h, and 9 h on Day 21 of each treatment period

| End point values | Advair HFA | Advair HFA with Spacer | Advair DISKUS | |
|----------------------------------|----------------------|------------------------|----------------------|--|
| Subject group type | Subject analysis set | Subject analysis set | Subject analysis set | |
| Number of subjects analysed | 18 ^[19] | 19 ^[20] | 20 ^[21] | |
| Units: Milliseconds (ms) | | | | |
| arithmetic mean (standard error) | -0.9 (± 1.88) | -4 (± 1.83) | -4.4 (± 1.79) | |

Notes:

[19] - PD Parameter Population

[20] - PD Parameter Population

[21] - PD Parameter Population

Statistical analyses

| | |
|----------------------------|----------------------------|
| Statistical analysis title | Statistical analysis 1 |
| Comparison groups | Advair HFA v Advair DISKUS |

| | |
|---|------------------------------|
| Number of subjects included in analysis | 38 |
| Analysis specification | Pre-specified |
| Analysis type | other |
| Parameter estimate | Difference of adjusted means |
| Point estimate | 3.4 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | -1.2 |
| upper limit | 8 |
| Variability estimate | Standard error of the mean |
| Dispersion value | 2.26 |

| | |
|---|--|
| Statistical analysis title | Statistical analysis 2 |
| Comparison groups | Advair DISKUS v Advair HFA with Spacer |
| Number of subjects included in analysis | 39 |
| Analysis specification | Pre-specified |
| Analysis type | other |
| Parameter estimate | Difference of adjusted means |
| Point estimate | 0.4 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | -4.1 |
| upper limit | 5 |
| Variability estimate | Standard error of the mean |
| Dispersion value | 2.24 |

| | |
|---|-------------------------------------|
| Statistical analysis title | Statistical analysis 3 |
| Comparison groups | Advair HFA with Spacer v Advair HFA |
| Number of subjects included in analysis | 37 |
| Analysis specification | Pre-specified |
| Analysis type | other |
| Parameter estimate | Difference of adjusted means |
| Point estimate | -3 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | -7.8 |
| upper limit | 1.8 |
| Variability estimate | Standard error of the mean |
| Dispersion value | 2.35 |

Secondary: Weighted mean change from Baseline of the QT Interval Corrected

According to Fridericia's Formula (QTcF) at 9 hours post-dose

| | |
|-----------------|---|
| End point title | Weighted mean change from Baseline of the QT Interval Corrected According to Fridericia's Formula (QTcF) at 9 hours post-dose |
|-----------------|---|

End point description:

Twelve-lead ECGs (electrocardiograms) were performed to measure QTcF at Baseline, pre-dose and 15 minutes (min), 45 min, 1.5 h, 3h, 6 h and 9 h post-dose on Day 21 of each treatment period. Baseline was defined as the derived parameter from the Baseline assessment. Weighted mean (WM) was derived by calculating the AUC, and then dividing by the relevant time interval. Data are presented as the adjusted means of WM. Only participants data available at the analysis time point were analyzed (represented as n=X, X, X in category title).

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

End point timeframe:

At Baseline, and pre-dose, 15 min, 45 min, 1.5 h, 3 h, 6 h, and 9 h on Day 21 of each treatment period

| End point values | Advair HFA | Advair HFA with Spacer | Advair DISKUS | |
|----------------------------------|----------------------|------------------------|----------------------|--|
| Subject group type | Subject analysis set | Subject analysis set | Subject analysis set | |
| Number of subjects analysed | 18 ^[22] | 18 ^[23] | 20 ^[24] | |
| Units: Milliseconds (ms) | | | | |
| arithmetic mean (standard error) | 1.9 (± 1.28) | -3.3 (± 1.28) | -3.6 (± 1.2) | |

Notes:

[22] - PD Parameter Population

[23] - PD Parameter Population

[24] - PD Parameter Population

Statistical analyses

| Statistical analysis title | Statistical analysis 1 |
|---|------------------------------|
| Comparison groups | Advair HFA v Advair DISKUS |
| Number of subjects included in analysis | 38 |
| Analysis specification | Pre-specified |
| Analysis type | other |
| Parameter estimate | Difference of adjusted means |
| Point estimate | 5.5 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | 2.2 |
| upper limit | 8.9 |
| Variability estimate | Standard error of the mean |
| Dispersion value | 1.65 |

| Statistical analysis title | Statistical analysis 2 |
|----------------------------|--|
| Comparison groups | Advair DISKUS v Advair HFA with Spacer |

| | |
|---|------------------------------|
| Number of subjects included in analysis | 38 |
| Analysis specification | Pre-specified |
| Analysis type | other |
| Parameter estimate | Difference of adjusted means |
| Point estimate | 0.3 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | -3 |
| upper limit | 3.7 |
| Variability estimate | Standard error of the mean |
| Dispersion value | 1.65 |

| | |
|---|-------------------------------------|
| Statistical analysis title | Statistical analysis 3 |
| Comparison groups | Advair HFA with Spacer v Advair HFA |
| Number of subjects included in analysis | 36 |
| Analysis specification | Pre-specified |
| Analysis type | other |
| Parameter estimate | Difference of adjusted means |
| Point estimate | -5.2 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | -8.7 |
| upper limit | -1.7 |
| Variability estimate | Standard error of the mean |
| Dispersion value | 1.74 |

Secondary: Maximum mean change from Baseline of the supine heart rate at 9 hours post-dose

| | |
|-----------------|---|
| End point title | Maximum mean change from Baseline of the supine heart rate at 9 hours post-dose |
|-----------------|---|

End point description:

Heart rate was recorded at Screening, prior to dosing, and at 15 minutes, 45 minutes, 1.5, 3, 6 and 9 h post-dose on Day 21 of each treatment period. Baseline was defined as the derived parameter from the Baseline assessment. Heart rate measurement was taken in a supine position having rested in this position for at least 10 min before each reading. The maximum observed value of heart rate was measured and data are presented as adjusted mean of maximum heart rate. Only participants data available at the analysis time point were analyzed (represented as n=X, X, X in category title).

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

End point timeframe:

At Baseline, and pre-dose, 15 min, 45 min, 1.5 h, 3 h, 6 h, and 9 h on Day 21 of each treatment period

| End point values | Advair HFA | Advair HFA with Spacer | Advair DISKUS | |
|----------------------------------|----------------------|------------------------|----------------------|--|
| Subject group type | Subject analysis set | Subject analysis set | Subject analysis set | |
| Number of subjects analysed | 18 ^[25] | 19 ^[26] | 20 ^[27] | |
| Units: Beats per minute (bpm) | | | | |
| arithmetic mean (standard error) | 3.7 (± 2.31) | -0.1 (± 2.26) | 4.8 (± 2.19) | |

Notes:

[25] - PD Parameter Population

[26] - PD Parameter Population

[27] - PD Parameter Population

Statistical analyses

| Statistical analysis title | Statistical analysis 1 |
|---|------------------------------|
| Comparison groups | Advair HFA v Advair DISKUS |
| Number of subjects included in analysis | 38 |
| Analysis specification | Pre-specified |
| Analysis type | other |
| Parameter estimate | Difference of adjusted means |
| Point estimate | -1.1 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | -6.8 |
| upper limit | 4.6 |
| Variability estimate | Standard error of the mean |
| Dispersion value | 2.82 |

| Statistical analysis title | Statistical analysis 2 |
|---|--|
| Comparison groups | Advair DISKUS v Advair HFA with Spacer |
| Number of subjects included in analysis | 39 |
| Analysis specification | Pre-specified |
| Analysis type | other |
| Parameter estimate | Difference of adjusted means |
| Point estimate | -5 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | -10.6 |
| upper limit | 0.7 |
| Variability estimate | Standard error of the mean |
| Dispersion value | 2.79 |

| Statistical analysis title | Statistical analysis 3 |
|----------------------------|-------------------------------------|
| Comparison groups | Advair HFA with Spacer v Advair HFA |

| | |
|---|------------------------------|
| Number of subjects included in analysis | 37 |
| Analysis specification | Pre-specified |
| Analysis type | other |
| Parameter estimate | Difference of adjusted means |
| Point estimate | -3.9 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | -9.8 |
| upper limit | 2.1 |
| Variability estimate | Standard error of the mean |
| Dispersion value | 2.92 |

Secondary: Weighted Mean change from Baseline of supine heart rate at 9 hours post-dose

| | |
|-----------------|--|
| End point title | Weighted Mean change from Baseline of supine heart rate at 9 hours post-dose |
|-----------------|--|

End point description:

Heart rate was recorded at Screening, prior to dosing, and at 15 min, 45 min, 1.5, 3, 6 and 9 h post-dose on Day 21 of each treatment period. Baseline was defined as the derived parameter from the Baseline assessment. Heart rate measurement was taken in a supine position having rested in this position for at least 10 min before each reading. Weighted mean (WM) was derived by calculating the AUC, and then dividing by the relevant time interval. Only participants data available at the analysis time point were analyzed (represented as n=X, X, X in category title).

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

End point timeframe:

At Baseline, and pre-dose, 15 min, 45 min, 1.5 h, 3 h, 6 h, and 9 h on Day 21 of each treatment period

| End point values | Advair HFA | Advair HFA with Spacer | Advair DISKUS | |
|----------------------------------|----------------------|------------------------|----------------------|--|
| Subject group type | Subject analysis set | Subject analysis set | Subject analysis set | |
| Number of subjects analysed | 18 ^[28] | 18 ^[29] | 20 ^[30] | |
| Units: Bpm | | | | |
| arithmetic mean (standard error) | 4.1 (± 1.52) | 3.2 (± 1.53) | 5.8 (± 1.44) | |

Notes:

[28] - PD Parameter Population

[29] - PD Parameter Population

[30] - PD Parameter Population

Statistical analyses

| | |
|----------------------------|----------------------------|
| Statistical analysis title | Statistical analysis 1 |
| Comparison groups | Advair HFA v Advair DISKUS |

| | |
|---|--------------------------------|
| Number of subjects included in analysis | 38 |
| Analysis specification | Pre-specified |
| Analysis type | other |
| Parameter estimate | Difference of treatment ratios |
| Point estimate | -1.7 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | -5.8 |
| upper limit | 2.4 |
| Variability estimate | Standard error of the mean |
| Dispersion value | 2.03 |

| | |
|---|--|
| Statistical analysis title | Statistical analysis 2 |
| Comparison groups | Advair DISKUS v Advair HFA with Spacer |
| Number of subjects included in analysis | 38 |
| Analysis specification | Pre-specified |
| Analysis type | other |
| Parameter estimate | Difference of treatment ratios |
| Point estimate | -2.6 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | -6.7 |
| upper limit | 1.5 |
| Variability estimate | Standard error of the mean |
| Dispersion value | 2.03 |

| | |
|---|-------------------------------------|
| Statistical analysis title | Statistical analysis 3 |
| Comparison groups | Advair HFA with Spacer v Advair HFA |
| Number of subjects included in analysis | 36 |
| Analysis specification | Pre-specified |
| Analysis type | other |
| Parameter estimate | Difference of treatment ratios |
| Point estimate | -0.9 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | -5.2 |
| upper limit | 3.4 |
| Variability estimate | Standard error of the mean |
| Dispersion value | 2.13 |

Secondary: Maximum change from Baseline for supine systolic blood pressure (SBP)

at 9 hours post-dose

| | |
|-----------------|--|
| End point title | Maximum change from Baseline for supine systolic blood pressure (SBP) at 9 hours post-dose |
|-----------------|--|

End point description:

Blood pressure (BP) measurement included supine SBP and diastolic BP (DBP). SBP was recorded at screening, prior to dosing, and at 15 min, 45 min, 1.5, 2, 4, 6 and 9 h post-dose on Day 21 of the each treatment period. The maximum observed values for SBP from the time of the morning dose on Day 21 to 9 h post-dose were measured and the data are presented as adjusted mean of maximum SBP.

Baseline was defined as the derived parameter from the Baseline assessment. Only participants data available at the analysis time point were analyzed (represented as n=X, X, X in category title).

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

End point timeframe:

At Baseline, and pre-dose, 15 min, 45 min, 1.5 h, 3 h, 6 h, and 9 h on Day 21 of each treatment period

| End point values | Advair HFA | Advair HFA with Spacer | Advair DISKUS | |
|--------------------------------------|----------------------|------------------------|----------------------|--|
| Subject group type | Subject analysis set | Subject analysis set | Subject analysis set | |
| Number of subjects analysed | 18 ^[31] | 19 ^[32] | 20 ^[33] | |
| Units: Millimeters of mercury (mmHg) | | | | |
| arithmetic mean (standard error) | 0.4 (± 1.46) | 0.7 (± 1.43) | -1.5 (± 1.39) | |

Notes:

[31] - PD Parameter Population

[32] - PD Parameter Population

[33] - PD Parameter Population

Statistical analyses

| Statistical analysis title | Statistical analysis 1 |
|---|--------------------------------|
| Comparison groups | Advair HFA v Advair DISKUS |
| Number of subjects included in analysis | 38 |
| Analysis specification | Pre-specified |
| Analysis type | other |
| Parameter estimate | Difference of treatment ratios |
| Point estimate | 1.8 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | -1.7 |
| upper limit | 5.3 |
| Variability estimate | Standard error of the mean |
| Dispersion value | 1.72 |

| Statistical analysis title | Statistical analysis 2 |
|----------------------------|--|
| Comparison groups | Advair HFA with Spacer v Advair DISKUS |

| | |
|---|--------------------------------|
| Number of subjects included in analysis | 39 |
| Analysis specification | Pre-specified |
| Analysis type | other |
| Parameter estimate | Difference of treatment ratios |
| Point estimate | 2.2 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | -1.3 |
| upper limit | 5.7 |
| Variability estimate | Standard error of the mean |
| Dispersion value | 1.71 |

| | |
|---|-------------------------------------|
| Statistical analysis title | Statistical analysis 3 |
| Comparison groups | Advair HFA with Spacer v Advair HFA |
| Number of subjects included in analysis | 37 |
| Analysis specification | Pre-specified |
| Analysis type | other |
| Parameter estimate | Difference of treatment ratios |
| Point estimate | 0.4 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | -3.3 |
| upper limit | 4 |
| Variability estimate | Standard error of the mean |
| Dispersion value | 1.79 |

Secondary: Minimum change from Baseline of the supine diastolic BP (DBP) at 9 hours post-dose

| | |
|-----------------|--|
| End point title | Minimum change from Baseline of the supine diastolic BP (DBP) at 9 hours post-dose |
|-----------------|--|

End point description:

Blood pressure (BP) measurement included supine SBP and DBP. DBP were recorded at screening, prior to dosing, and at 15 min, 45 min, 1.5, 2, 4, 6 and 9 h post-dose on Day 21 of the each treatment period. Baseline was defined as the derived parameter from the Baseline assessment. The minimum observed values from the time of the morning dose on Day 21 to 9 hours post dose were measured and the data are presented as adjusted mean of minimum DBP. Only participants data available at the analysis time point were analyzed (represented as n=X, X, X in category title).

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

End point timeframe:

At Baseline, and pre-dose, 15 min, 45 min, 1.5 h, 3 h, 6 h, and 9 h on Day 21 of each treatment period

| End point values | Advair HFA | Advair HFA with Spacer | Advair DISKUS | |
|----------------------------------|----------------------|------------------------|----------------------|--|
| Subject group type | Subject analysis set | Subject analysis set | Subject analysis set | |
| Number of subjects analysed | 18 ^[34] | 19 ^[35] | 20 ^[36] | |
| Units: mmHg | | | | |
| arithmetic mean (standard error) | -3.3 (± 1.03) | 1 (± 1.01) | -1.3 (± 0.98) | |

Notes:

[34] - PD Parameter Population

[35] - PD Parameter Population

[36] - PD Parameter Population

Statistical analyses

| Statistical analysis title | Statistical analysis 1 |
|---|--------------------------------|
| Comparison groups | Advair DISKUS v Advair HFA |
| Number of subjects included in analysis | 38 |
| Analysis specification | Pre-specified |
| Analysis type | other |
| Parameter estimate | Difference of treatment ratios |
| Point estimate | -2 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | -4.7 |
| upper limit | 0.7 |
| Variability estimate | Standard error of the mean |
| Dispersion value | 1.33 |

| Statistical analysis title | Statistical analysis 2 |
|---|--|
| Comparison groups | Advair DISKUS v Advair HFA with Spacer |
| Number of subjects included in analysis | 39 |
| Analysis specification | Pre-specified |
| Analysis type | other |
| Parameter estimate | Difference of treatment ratios |
| Point estimate | 2.2 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | -0.4 |
| upper limit | 4.9 |
| Variability estimate | Standard error of the mean |
| Dispersion value | 1.31 |

| Statistical analysis title | Statistical analysis 3 |
|----------------------------|-------------------------------------|
| Comparison groups | Advair HFA v Advair HFA with Spacer |

| | |
|---|--------------------------------|
| Number of subjects included in analysis | 37 |
| Analysis specification | Pre-specified |
| Analysis type | other |
| Parameter estimate | Difference of treatment ratios |
| Point estimate | 4.2 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | 1.4 |
| upper limit | 7 |
| Variability estimate | Standard error of the mean |
| Dispersion value | 1.37 |

Secondary: Weighted mean change from Baseline for supine SBP at 9 hours post-dose

| | |
|-----------------|--|
| End point title | Weighted mean change from Baseline for supine SBP at 9 hours post-dose |
|-----------------|--|

End point description:

Blood pressure (BP) measurement included supine SBP and DBP. SBP was recorded at screening, prior to dosing, and at 15 min, 45 min, 1.5, 2, 4, 6 and 9 h post-dose on Day 21 of the each treatment period. Weighted mean (WM) was derived by calculating the AUC, and then dividing by the relevant time interval. Baseline was defined as the derived parameter from the Baseline assessment. The data are presented as adjusted mean of WM SBP. Only participants data available at the analysis time point were analyzed (represented as n=X, X, X in category title).

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

End point timeframe:

At Baseline, and pre-dose, 15 min, 45 min, 1.5 h, 3 h, 6 h, and 9 h on Day 21 of each treatment period

| End point values | Advair HFA | Advair HFA with Spacer | Advair DISKUS | |
|----------------------------------|----------------------|------------------------|----------------------|--|
| Subject group type | Subject analysis set | Subject analysis set | Subject analysis set | |
| Number of subjects analysed | 18 ^[37] | 19 ^[38] | 20 ^[39] | |
| Units: mmHg | | | | |
| arithmetic mean (standard error) | 0.6 (± 1.37) | 1.1 (± 1.34) | -2.2 (± 1.3) | |

Notes:

[37] - PD Parameter Population

[38] - PD Parameter Population

[39] - PD Parameter Population

Statistical analyses

| | |
|----------------------------|----------------------------|
| Statistical analysis title | Statistical analysis 1 |
| Comparison groups | Advair HFA v Advair DISKUS |

| | |
|---|--------------------------------|
| Number of subjects included in analysis | 38 |
| Analysis specification | Pre-specified |
| Analysis type | other |
| Parameter estimate | Difference of treatment ratios |
| Point estimate | 2.8 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | -0.7 |
| upper limit | 6.2 |
| Variability estimate | Standard error of the mean |
| Dispersion value | 1.7 |

| | |
|---|--|
| Statistical analysis title | Statistical analysis 2 |
| Comparison groups | Advair DISKUS v Advair HFA with Spacer |
| Number of subjects included in analysis | 39 |
| Analysis specification | Pre-specified |
| Analysis type | other |
| Parameter estimate | Difference of treatment ratios |
| Point estimate | 3.3 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | -0.1 |
| upper limit | 6.8 |
| Variability estimate | Standard error of the mean |
| Dispersion value | 1.68 |

| | |
|---|-------------------------------------|
| Statistical analysis title | Statistical analysis 3 |
| Comparison groups | Advair HFA with Spacer v Advair HFA |
| Number of subjects included in analysis | 37 |
| Analysis specification | Pre-specified |
| Analysis type | other |
| Parameter estimate | Difference of treatment ratios |
| Point estimate | 0.6 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | -3 |
| upper limit | 4.1 |
| Variability estimate | Standard error of the mean |
| Dispersion value | 1.76 |

Secondary: Weighted mean change from Baseline for supine DBP at 9 hours post-

dose

| | |
|-----------------|--|
| End point title | Weighted mean change from Baseline for supine DBP at 9 hours post-dose |
|-----------------|--|

End point description:

Blood pressure (BP) measurement included SBP and DBP. DBP was recorded at screening, prior to dosing, and at 15 min, 45 min, 1.5, 2, 4, 6 and 9 h post-dose on Day 21 of the each treatment period. Weighted mean (WM) was derived by calculating the AUC, and then dividing by the relevant time interval. Baseline was defined as the derived parameter from the Baseline assessment. The data are presented as adjusted mean of WM DBP. Only participants data available at the analysis time point were analyzed (represented as n=X, X, X in category title).

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

End point timeframe:

At Baseline, and pre-dose, 15 min, 45 min, 1.5 h, 3 h, 6 h, and 9 h on Day 21 of each treatment period

| End point values | Advair HFA | Advair HFA with Spacer | Advair DISKUS | |
|----------------------------------|----------------------|------------------------|----------------------|--|
| Subject group type | Subject analysis set | Subject analysis set | Subject analysis set | |
| Number of subjects analysed | 18 ^[40] | 19 ^[41] | 20 ^[42] | |
| Units: mmHg | | | | |
| arithmetic mean (standard error) | -1.7 (± 0.89) | -0.9 (± 0.87) | -1.7 (± 0.85) | |

Notes:

[40] - PD Parameter Population

[41] - PD Parameter Population

[42] - PD Parameter Population

Statistical analyses

| Statistical analysis title | Statistical analysis 1 |
|---|--------------------------------|
| Comparison groups | Advair HFA v Advair DISKUS |
| Number of subjects included in analysis | 38 |
| Analysis specification | Pre-specified |
| Analysis type | other |
| Parameter estimate | Difference of treatment ratios |
| Point estimate | 0 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | -2.3 |
| upper limit | 2.2 |
| Variability estimate | Standard error of the mean |
| Dispersion value | 1.09 |

| Statistical analysis title | Statistical analysis 2 |
|----------------------------|--|
| Comparison groups | Advair DISKUS v Advair HFA with Spacer |

| | |
|---|--------------------------------|
| Number of subjects included in analysis | 39 |
| Analysis specification | Pre-specified |
| Analysis type | other |
| Parameter estimate | Difference of treatment ratios |
| Point estimate | 0.8 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | -1.4 |
| upper limit | 3.1 |
| Variability estimate | Standard error of the mean |
| Dispersion value | 1.09 |

| | |
|---|-------------------------------------|
| Statistical analysis title | Statistical analysis 3 |
| Comparison groups | Advair HFA with Spacer v Advair HFA |
| Number of subjects included in analysis | 37 |
| Analysis specification | Pre-specified |
| Analysis type | other |
| Parameter estimate | Difference of treatment ratios |
| Point estimate | 0.9 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | -1.4 |
| upper limit | 3.2 |
| Variability estimate | Standard error of the mean |
| Dispersion value | 1.14 |

Secondary: Area under the concentration-time curve from time 0 to the last quantifiable concentration (AUC[last]) for FP

| | |
|-----------------|---|
| End point title | Area under the concentration-time curve from time 0 to the last quantifiable concentration (AUC[last]) for FP |
|-----------------|---|

End point description:

Blood samples were collected to determine the plasma concentrations of FP from pre-dose up to 12 hour post-dose of each treatment period to derive the AUC(0-t). Blood samples for PK analysis of FP were obtained on Day 21 at pre-dose and 30 minutes (min), 1 hour (h), 2,4,8, and 12 h post FP dose administration. For 8 and 12 h post dose, two 4 mL blood samples were collected. Pharmacokinetic (PK) Parameter Population was defined as all participants who received treatment during both treatment periods and for whom PK parameters were derived for both periods.

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

End point timeframe:

At pre-morning dose, 30 min, 1, 2, 4, 8, and 12 h post-dose on Day 21 of Treatments periods 1 and 2

| End point values | Advair HFA | Advair HFA with Spacer | Advair DISKUS | |
|--|--------------------------|-----------------------------|-----------------------------|--|
| Subject group type | Subject analysis set | Subject analysis set | Subject analysis set | |
| Number of subjects analysed | 18 ^[43] | 19 ^[44] | 20 ^[45] | |
| Units: Picograms hrs per milliliter (pg.hr/mL) | | | | |
| geometric mean (confidence interval 95%) | 24.063 (9.624 to 60.165) | 107.381 (45.714 to 252.236) | 137.592 (69.258 to 273.245) | |

Notes:

[43] - PK Parameter Population

[44] - PK Parameter Population

[45] - PK Parameter Population

Statistical analyses

| Statistical analysis title | Statistical analysis 1 |
|---|-----------------------------------|
| Comparison groups | Advair HFA v Advair DISKUS |
| Number of subjects included in analysis | 38 |
| Analysis specification | Pre-specified |
| Analysis type | other |
| Parameter estimate | Ratio of adjusted geometric means |
| Point estimate | 0.16 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | 0.07 |
| upper limit | 0.37 |
| Variability estimate | Standard error of the mean |
| Dispersion value | 0.512 |

| Statistical analysis title | Statistical analysis 2 |
|---|-------------------------------------|
| Comparison groups | Advair HFA v Advair HFA with Spacer |
| Number of subjects included in analysis | 37 |
| Analysis specification | Pre-specified |
| Analysis type | other |
| Parameter estimate | Ratio of adjusted geometric means |
| Point estimate | 4.17 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | 1.7 |
| upper limit | 10.2 |
| Variability estimate | Standard error of the mean |
| Dispersion value | 0.529 |

| Statistical analysis title | Statistical analysis 3 |
|----------------------------|--|
| Comparison groups | Advair HFA with Spacer v Advair DISKUS |

| | |
|---|-----------------------------------|
| Number of subjects included in analysis | 39 |
| Analysis specification | Pre-specified |
| Analysis type | other |
| Parameter estimate | Ratio of adjusted geometric means |
| Point estimate | 0.65 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | 0.28 |
| upper limit | 1.54 |
| Variability estimate | Standard error of the mean |
| Dispersion value | 0.507 |

Secondary: AUC(last) for Salmeterol

| | |
|------------------------|---|
| End point title | AUC(last) for Salmeterol |
| End point description: | Blood samples were collected to determine the plasma concentrations of Salmeterol from pre-dose up to 4 hour post-dose of each treatment period to derive the AUC(0-t). Blood samples for PK analysis of salmeterol were obtained on Day 21 at pre-dose and 30 minutes (min), 1 hour (h), 2 h, and 4 h post salmeterol dose administration. One 4 mL sample was also collected at 10 min post dose on Day 21. |
| End point type | Secondary |
| End point timeframe: | At pre-morning dose, 10 minutes (min), 30 min, 1, 2, and 4 h post-dose on Day 21 of Treatments periods 1 and 2 |

| End point values | Advair HFA | Advair HFA with Spacer | Advair DISKUS | |
|--|--------------------------------|--------------------------------|-------------------------------|--|
| Subject group type | Subject analysis set | Subject analysis set | Subject analysis set | |
| Number of subjects analysed | 18 ^[46] | 19 ^[47] | 20 ^[48] | |
| Units: pg.hr/mL | | | | |
| geometric mean (confidence interval 95%) | 125.702 (70.339 to 224.639) | 103.417 (53.576 to 199.623) | 110.139 (55.383 to 219.03) | |

Notes:

[46] - PK Parameter Population

[47] - PK Parameter Population

[48] - PK Parameter Population

Statistical analyses

| | |
|---|-----------------------------------|
| Statistical analysis title | Statistical analysis 1 |
| Comparison groups | Advair HFA v Advair DISKUS |
| Number of subjects included in analysis | 38 |
| Analysis specification | Pre-specified |
| Analysis type | other |
| Parameter estimate | Ratio of adjusted geometric means |
| Point estimate | 1.11 |

| | |
|----------------------|----------------------------|
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | 0.53 |
| upper limit | 2.32 |
| Variability estimate | Standard error of the mean |
| Dispersion value | 0.437 |

| | |
|---|-------------------------------------|
| Statistical analysis title | Statistical analysis 2 |
| Comparison groups | Advair HFA v Advair HFA with Spacer |
| Number of subjects included in analysis | 37 |
| Analysis specification | Pre-specified |
| Analysis type | other |
| Parameter estimate | Ratio of adjusted geometric means |
| Point estimate | 0.83 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | 0.39 |
| upper limit | 1.75 |
| Variability estimate | Standard error of the mean |
| Dispersion value | 0.448 |

| | |
|---|--|
| Statistical analysis title | Statistical analysis 3 |
| Comparison groups | Advair HFA with Spacer v Advair DISKUS |
| Number of subjects included in analysis | 39 |
| Analysis specification | Pre-specified |
| Analysis type | other |
| Parameter estimate | Ratio of adjusted geometric means |
| Point estimate | 0.92 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | 0.44 |
| upper limit | 1.9 |
| Variability estimate | Standard error of the mean |
| Dispersion value | 0.431 |

Secondary: Maximum observed plasma concentration (Cmax) at steady state for FP

| | |
|-----------------|---|
| End point title | Maximum observed plasma concentration (Cmax) at steady state for FP |
|-----------------|---|

End point description:

Blood samples were collected to determine the plasma concentrations of FP from pre-dose up to 12 hour post-dose of each treatment period to derive the Cmax. Blood samples for PK analysis of FP were obtained on Day 21 at pre-dose and 30 minutes (min), 1 hour (h), 2 h, 4 h, 8 h, 12 h post FP dose

administration. For 8 and 12 h post dose, two 4 mL blood samples were collected.

| | |
|---|-----------|
| End point type | Secondary |
| End point timeframe: | |
| At pre-morning dose, 30 min, 1, 2, 4, 8, and 12 h post-dose on Day 21 of Treatments periods 1 and 2 | |

| End point values | Advair HFA | Advair HFA with Spacer | Advair DISKUS | |
|--|--------------------------|---------------------------|---------------------------|--|
| Subject group type | Subject analysis set | Subject analysis set | Subject analysis set | |
| Number of subjects analysed | 18 ^[49] | 19 ^[50] | 20 ^[51] | |
| Units: Picogram per millimeter (pg/mL) | | | | |
| geometric mean (confidence interval 95%) | 15.705 (8.493 to 29.043) | 35.048 (20.359 to 60.335) | 54.369 (33.078 to 89.362) | |

Notes:

[49] - PK Parameter Population

[50] - PK Parameter Population

[51] - PK Parameter Population

Statistical analyses

| Statistical analysis title | Statistical analysis 1 |
|---|-----------------------------------|
| Comparison groups | Advair HFA v Advair DISKUS |
| Number of subjects included in analysis | 38 |
| Analysis specification | Pre-specified |
| Analysis type | other |
| Parameter estimate | Ratio of adjusted geometric means |
| Point estimate | 0.27 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | 0.15 |
| upper limit | 0.47 |
| Variability estimate | Standard error of the mean |
| Dispersion value | 0.33 |

| Statistical analysis title | Statistical analysis 2 |
|---|-------------------------------------|
| Comparison groups | Advair HFA v Advair HFA with Spacer |
| Number of subjects included in analysis | 37 |
| Analysis specification | Pre-specified |
| Analysis type | other |
| Parameter estimate | Ratio of adjusted geometric means |
| Point estimate | 2.1 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | 1.18 |
| upper limit | 3.74 |

| | |
|----------------------|----------------------------|
| Variability estimate | Standard error of the mean |
| Dispersion value | 0.342 |

| | |
|---|--|
| Statistical analysis title | Statistical analysis 3 |
| Comparison groups | Advair HFA with Spacer v Advair DISKUS |
| Number of subjects included in analysis | 39 |
| Analysis specification | Pre-specified |
| Analysis type | other |
| Parameter estimate | Ratio of adjusted geometric means |
| Point estimate | 0.56 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | 0.32 |
| upper limit | 0.98 |
| Variability estimate | Standard error of the mean |
| Dispersion value | 0.327 |

Secondary: Cmax at steady state for salmeterol

| | |
|---|-------------------------------------|
| End point title | Cmax at steady state for salmeterol |
| End point description: | |
| Blood samples were collected to determine the plasma concentrations of Salmeterol from pre-dose up to 4 hour post-dose of each treatment period to derive the Cmax. Blood samples for PK analysis of salmeterol were obtained on Day 21 at pre-dose and 30 minutes (min), 1 hour (h), 2 h, and 4 h post salmeterol dose administration. One 4 mL sample was also collected at 10 min post dose on Day 21. | |
| End point type | Secondary |
| End point timeframe: | |
| At pre-morning dose, 10 minutes (min), 30 min, 1, 2, and 4 h post-dose on Day 21 of Treatments periods 1 and 2 | |

| End point values | Advair HFA | Advair HFA with Spacer | Advair DISKUS | |
|--|---------------------------|----------------------------|---------------------------|--|
| Subject group type | Subject analysis set | Subject analysis set | Subject analysis set | |
| Number of subjects analysed | 18 ^[52] | 19 ^[53] | 20 ^[54] | |
| Units: pg/mL | | | | |
| geometric mean (confidence interval 95%) | 73.932 (51.987 to 105.14) | 121.196 (77.467 to 189.61) | 96.53 (60.422 to 154.215) | |

Notes:

[52] - PK Parameter Population

[53] - PK Parameter Population

[54] - PK Parameter Population

Statistical analyses

| | |
|---|-----------------------------------|
| Statistical analysis title | Statistical analysis 1 |
| Comparison groups | Advair HFA v Advair DISKUS |
| Number of subjects included in analysis | 38 |
| Analysis specification | Pre-specified |
| Analysis type | other |
| Parameter estimate | Ratio of adjusted geometric means |
| Point estimate | 0.77 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | 0.47 |
| upper limit | 1.25 |
| Variability estimate | Standard error of the mean |
| Dispersion value | 0.291 |

| | |
|---|-------------------------------------|
| Statistical analysis title | Statistical analysis 2 |
| Comparison groups | Advair HFA v Advair HFA with Spacer |
| Number of subjects included in analysis | 37 |
| Analysis specification | Pre-specified |
| Analysis type | other |
| Parameter estimate | Ratio of adjusted geometric means |
| Point estimate | 1.62 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | 0.98 |
| upper limit | 2.67 |
| Variability estimate | Standard error of the mean |
| Dispersion value | 0.298 |

| | |
|---|--|
| Statistical analysis title | Statistical analysis 3 |
| Comparison groups | Advair HFA with Spacer v Advair DISKUS |
| Number of subjects included in analysis | 39 |
| Analysis specification | Pre-specified |
| Analysis type | other |
| Parameter estimate | Ratio of adjusted geometric means |
| Point estimate | 1.24 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | 0.76 |
| upper limit | 2.01 |
| Variability estimate | Standard error of the mean |
| Dispersion value | 0.287 |

Secondary: Time to occurrence of Cmax (Tmax) at steady state for FP and salmeterol

| | |
|-----------------|---|
| End point title | Time to occurrence of Cmax (Tmax) at steady state for FP and salmeterol |
|-----------------|---|

End point description:

Blood samples were collected to determine the plasma concentrations of FP and salmeterol from pre-dose up to 12 h post-dose of each treatment period to derive tmax. Blood samples of participants were collected for evaluating Tmax. Tmax is a measure of the time required to reach the maximum concentration of the drug. Blood samples for PK analysis were obtained on Day 21 at pre-dose and 30 minutes (min), 1 hour (h), 2 h, 4 h, 8 h, 12 h post FP dose administration. One 4 mL sample was also collected at 10 min post dose on Day 21. For 8 and 12 h post dose, two 4 mL blood samples were collected.

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

End point timeframe:

At pre-morning dose, 10 minutes (min), 30 min, 1, 2, 4, 8, and 12 h post-dose on Day 21 of Treatments periods 1 and 2

| End point values | Advair HFA | Advair HFA with Spacer | Advair DISKUS | |
|-------------------------------|----------------------|------------------------|----------------------|--|
| Subject group type | Subject analysis set | Subject analysis set | Subject analysis set | |
| Number of subjects analysed | 18 ^[55] | 19 ^[56] | 20 ^[57] | |
| Units: Hour (hr) | | | | |
| median (full range (min-max)) | | | | |
| Fluticasone propionate | 0.74 (0.47 to 2.02) | 0.98 (0 to 8.17) | 0.5 (0 to 1) | |
| Salmeterol | 0.2 (0.03 to 2.02) | 0.17 (0.08 to 0.22) | 0.175 (0.13 to 1.97) | |

Notes:

[55] - PK Parameter Population

[56] - PK Parameter Population

[57] - PK Parameter Population

Statistical analyses

No statistical analyses for this end point

Secondary: Number of participants with any adverse event (AE) or serious adverse event (SAE)

| | |
|-----------------|---|
| End point title | Number of participants with any adverse event (AE) or serious adverse event (SAE) |
|-----------------|---|

End point description:

An AE is defined as any untoward medical occurrence in a patient or clinical investigation participant, temporally associated with the use of a medicinal product, whether or not considered related to the medicinal product. Any AE with onset after the start dose of the study medication and on or before the follow-up phone call were collected. All Subjects Population was defined as all participants who received at least one study treatment.

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

End point timeframe:

From the first dose of the study medication until follow-up period (Up to 7 weeks)

| End point values | Advair HFA | Advair HFA with Spacer | Advair DISKUS | |
|-----------------------------|----------------------|---------------------------|----------------------|--|
| Subject group type | Subject analysis set | Subject analysis set | Subject analysis set | |
| Number of subjects analysed | 21 ^[58] | 19 ^[59] | 20 ^[60] | |
| Units: Participants | | | | |
| Adverse event | 13 | 9 | 14 | |
| Serious adverse event | 0 | 0 | 0 | |

Notes:

[58] - All Subjects Population

[59] - All Subjects Population

[60] - All Subjects Population

Statistical analyses

No statistical analyses for this end point

Adverse events

Adverse events information

Timeframe for reporting adverse events:

On-treatment serious adverse events (SAEs) and non-serious adverse events (AEs) were collected from start of IP (Session 1) until Week 7 including the follow-up period.

Adverse event reporting additional description:

On-treatment SAEs and non-serious AEs are reported for all Subjects Population, comprised of all participants who received at least one dose of study treatment.

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

Dictionary used

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

| | |
|--------------------|------|
| Dictionary version | 18.0 |
|--------------------|------|

Reporting groups

| | |
|-----------------------|------------|
| Reporting group title | Advair HFA |
|-----------------------|------------|

Reporting group description:

Participants were randomized to one of the 6 possible treatment arms (AB, BA, AC, CA, BC, or CB): two inhalations of ADVAIR HFA 45/21 µg, which was supplied as a HFA-propelled 120-actuation metered dose inhaler (MDI) designed to deliver 45 µg of fluticasone propionate (FP) and 21 µg of salmeterol twice daily (BID) for 21 days (on outpatient basis except on Day 21) along with either Advair HFA with Aerochamber Plus Spacer or Advair DISKUS. After this treatment period 1, participants received a repeat dosing of the same sequence for 21 days without any washout period.

| | |
|-----------------------|------------------------|
| Reporting group title | Advair HFA with Spacer |
|-----------------------|------------------------|

Reporting group description:

Participants were randomized to one of the 6 possible treatment arms (AB, BA, AC, CA, BC, or CB): two inhalations of ADVAIR HFA 45/21 µg with Aerochamber Plus Spacer, which was supplied as a metered dose inhaler (MDI) designed to deliver 45 µg of FP and 21 µg of salmeterol twice daily (BID) for 21 days (on outpatient basis except on Day 21) along with either Advair HFA or Advair DISKUS. After this treatment period 1, participants received a repeat dosing of the same sequence for 21 days without any washout period.

| | |
|-----------------------|---------------|
| Reporting group title | Advair DISKUS |
|-----------------------|---------------|

Reporting group description:

Participants were randomized to one of the 6 possible treatment arms (AB, BA, AC, CA, BC or CB): one inhalation of ADVAIR DISKUS 100/50 µg, which was supplied as a 60-dose multi-dose powder inhaler (MPDI) designed to deliver 100 µg of FP and 50 µg of salmeterol twice daily (BID) for 21 days (on outpatient basis except on Day 21) along with either Advair HFA with Aerochamber Plus Spacer or Advair HFA. After this treatment period 1, participants received a repeat dosing of the same sequence for 21 days without any washout period.

| Serious adverse events | Advair HFA | Advair HFA with Spacer | Advair DISKUS |
|---|----------------|------------------------|----------------|
| Total subjects affected by serious adverse events | | | |
| subjects affected / exposed | 0 / 21 (0.00%) | 0 / 19 (0.00%) | 0 / 20 (0.00%) |
| number of deaths (all causes) | 0 | 0 | 0 |
| number of deaths resulting from adverse events | | | |

Frequency threshold for reporting non-serious adverse events: 1 %

| Non-serious adverse events | Advair HFA | Advair HFA with Spacer | Advair DISKUS |
|---|------------------|------------------------|------------------|
| Total subjects affected by non-serious adverse events | | | |
| subjects affected / exposed | 13 / 21 (61.90%) | 9 / 19 (47.37%) | 14 / 20 (70.00%) |
| Injury, poisoning and procedural complications | | | |
| Wound | | | |
| subjects affected / exposed | 0 / 21 (0.00%) | 0 / 19 (0.00%) | 1 / 20 (5.00%) |
| occurrences (all) | 0 | 0 | 1 |
| Nervous system disorders | | | |
| Migraine | | | |
| subjects affected / exposed | 0 / 21 (0.00%) | 1 / 19 (5.26%) | 0 / 20 (0.00%) |
| occurrences (all) | 0 | 1 | 0 |
| General disorders and administration site conditions | | | |
| Pyrexia | | | |
| subjects affected / exposed | 2 / 21 (9.52%) | 0 / 19 (0.00%) | 2 / 20 (10.00%) |
| occurrences (all) | 2 | 0 | 2 |
| Chest pain | | | |
| subjects affected / exposed | 0 / 21 (0.00%) | 1 / 19 (5.26%) | 0 / 20 (0.00%) |
| occurrences (all) | 0 | 1 | 0 |
| Eye disorders | | | |
| Lacrimation increased | | | |
| subjects affected / exposed | 0 / 21 (0.00%) | 1 / 19 (5.26%) | 0 / 20 (0.00%) |
| occurrences (all) | 0 | 1 | 0 |
| Gastrointestinal disorders | | | |
| Abdominal pain upper | | | |
| subjects affected / exposed | 0 / 21 (0.00%) | 1 / 19 (5.26%) | 0 / 20 (0.00%) |
| occurrences (all) | 0 | 1 | 0 |
| Diarrhoea | | | |
| subjects affected / exposed | 0 / 21 (0.00%) | 1 / 19 (5.26%) | 0 / 20 (0.00%) |
| occurrences (all) | 0 | 1 | 0 |
| Vomiting | | | |
| subjects affected / exposed | 0 / 21 (0.00%) | 1 / 19 (5.26%) | 0 / 20 (0.00%) |
| occurrences (all) | 0 | 1 | 0 |
| Respiratory, thoracic and mediastinal disorders | | | |
| Cough | | | |
| subjects affected / exposed | 9 / 21 (42.86%) | 3 / 19 (15.79%) | 5 / 20 (25.00%) |
| occurrences (all) | 23 | 4 | 9 |

| | | | |
|---|----------------------|----------------------|----------------------|
| Rhinorrhoea subjects affected / exposed occurrences (all) | 4 / 21 (19.05%) 7 | 3 / 19 (15.79%) 3 | 5 / 20 (25.00%) 9 |
| Nasal congestion subjects affected / exposed occurrences (all) | 5 / 21 (23.81%) 9 | 1 / 19 (5.26%) 1 | 2 / 20 (10.00%) 5 |
| Wheezing subjects affected / exposed occurrences (all) | 2 / 21 (9.52%) 2 | 1 / 19 (5.26%) 1 | 2 / 20 (10.00%) 3 |
| Dyspnoea subjects affected / exposed occurrences (all) | 1 / 21 (4.76%) 1 | 0 / 19 (0.00%) 0 | 1 / 20 (5.00%) 1 |
| Asthma subjects affected / exposed occurrences (all) | 1 / 21 (4.76%) 1 | 0 / 19 (0.00%) 0 | 0 / 20 (0.00%) 0 |
| Pharyngolaryngeal pain subjects affected / exposed occurrences (all) | 1 / 21 (4.76%) 1 | 0 / 19 (0.00%) 0 | 0 / 20 (0.00%) 0 |
| Skin and subcutaneous tissue disorders Dry skin subjects affected / exposed occurrences (all) | 1 / 21 (4.76%) 1 | 0 / 19 (0.00%) 0 | 0 / 20 (0.00%) 0 |
| Musculoskeletal and connective tissue disorders Musculoskeletal pain subjects affected / exposed occurrences (all) | 0 / 21 (0.00%) 0 | 0 / 19 (0.00%) 0 | 1 / 20 (5.00%) 1 |
| Infections and infestations Upper respiratory tract infection subjects affected / exposed occurrences (all) | 1 / 21 (4.76%) 1 | 0 / 19 (0.00%) 0 | 4 / 20 (20.00%) 4 |
| Gastroenteritis viral subjects affected / exposed occurrences (all) | 2 / 21 (9.52%) 2 | 0 / 19 (0.00%) 0 | 2 / 20 (10.00%) 2 |
| Viral infection subjects affected / exposed occurrences (all) | 1 / 21 (4.76%) 1 | 0 / 19 (0.00%) 0 | 1 / 20 (5.00%) 1 |

| | | | |
|-----------------------------|----------------|----------------|----------------|
| Ear Infection | | | |
| subjects affected / exposed | 1 / 21 (4.76%) | 0 / 19 (0.00%) | 0 / 20 (0.00%) |
| occurrences (all) | 1 | 0 | 0 |
| Otitis media | | | |
| subjects affected / exposed | 1 / 21 (4.76%) | 0 / 19 (0.00%) | 0 / 20 (0.00%) |
| occurrences (all) | 1 | 0 | 0 |

More information

Substantial protocol amendments (globally)

Were there any global substantial amendments to the protocol? Yes

| Date | Amendment |
|-------------------|--|
| 12 September 2006 | The purpose of this amendment was to change the study design to include a third arm to evaluate the systemic exposure and pharmacodynamics of ADVAIR HFA following administration using the Aerochamber plus Spacer. GlaxoSmithKline plans to use the Aerochamber Plus Spacer in a 12-week safety study (SFA 106484). Since systemic exposure of an inhaled drug product can vary gently depending on the mechanism of administration, the FDA recommended an assessment of the difference of systemic exposure with and without a spacer to be included in this clinical pharmacology protocol. This protocol has also been modified to remove inconsistencies in study procedures and to make clarification to the inclusion/exclusion criteria. |
| 09 November 2006 | Based on feedback at a recent investigators meeting, the inclusion criteria regarding minimum weight for eligibility in this study will be amended to facilitate in the 4 to 7 years age range. The protocol states that 1/3 of the subjects must be ≤7 years of age. However, the current weight restriction would make it difficult to reach this enrollment target. Furthermore, this amendment will clarify exclusion criteria regarding inhaled corticosteroid use. |

Notes:

Interruptions (globally)

Were there any global interruptions to the trial? No

Limitations and caveats

None reported