



Clinical trial results:

Randomized, Double-Blind Trial of MP29-02 Nasal Spray Compared to Placebo, Azelastine Hydrochloride Nasal Spray, and Fluticasone Propionate Nasal Spray in the Treatment of Patients with Seasonal Allergic Rhinitis

Summary

| | |
|--------------------------|------------------|
| EudraCT number | 2011-001370-26 |
| Trial protocol | Outside EU/EEA |
| Global end of trial date | 03 November 2008 |

Results information

| | |
|--------------------------------|--------------|
| Result version number | v1 (current) |
| This version publication date | 29 July 2016 |
| First version publication date | 29 July 2016 |

Trial information

Trial identification

| | |
|-----------------------|--------|
| Sponsor protocol code | MP4004 |
|-----------------------|--------|

Additional study identifiers

| | |
|------------------------------------|-------------|
| ISRCTN number | - |
| ClinicalTrials.gov id (NCT number) | NCT00740792 |
| WHO universal trial number (UTN) | - |

Notes:

Sponsors

| | |
|------------------------------|--|
| Sponsor organisation name | Meda Pharmaceuticals Inc. |
| Sponsor organisation address | 265 Davidson Avenue Suite 300, Somerset, United States, NJ 08873-4120 |
| Public contact | Group leader study manager, Meda Pharma GmbH & Co. KG, DE 0049 617288801, 42b@medapharma.de |
| Scientific contact | Head Corporate Clinical Affairs, Meda Pharma GmbH & Co. KG, DE 0049 617288801, 42b@medapharma.de |

Notes:

Paediatric regulatory details

| | |
|--|---------------------|
| Is trial part of an agreed paediatric investigation plan (PIP) | Yes |
| EMA paediatric investigation plan number(s) | EMA-000990-PIP02-10 |
| 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? | Yes |

Notes:

Results analysis stage

| | |
|--|------------------|
| Analysis stage | Final |
| Date of interim/final analysis | 04 May 2010 |
| Is this the analysis of the primary completion data? | Yes |
| Primary completion date | 03 November 2008 |
| Global end of trial reached? | Yes |
| Global end of trial date | 03 November 2008 |
| Was the trial ended prematurely? | No |

Notes:

General information about the trial

Main objective of the trial:

To compare efficacy and safety of azelastine hydrochloride and fluticasone propionate combination nasal spray to placebo and to each product alone

Protection of trial subjects:

No specific additional measures to minimise pain and distress were required. The patients could withdraw from treatment at any time and for any reason.

Background therapy: -

Evidence for comparator: -

| | |
|---|----------------|
| Actual start date of recruitment | 14 August 2008 |
| 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: 779 |
| Worldwide total number of subjects | 779 |
| EEA total number of subjects | 0 |

Notes:

Subjects enrolled per age group

| | |
|---|-----|
| In utero | 0 |
| Preterm newborn - gestational age < 37 wk | 0 |
| Newborns (0-27 days) | 0 |
| Infants and toddlers (28 days-23 months) | 0 |
| Children (2-11 years) | 0 |
| Adolescents (12-17 years) | 55 |
| Adults (18-64 years) | 710 |
| From 65 to 84 years | 14 |
| 85 years and over | 0 |

Subject disposition

Recruitment

Recruitment details: -

Pre-assignment

Screening details:

The study began with a 7-day single-blind Placebo Lead-in Period during which subjects recorded symptom scores in order to qualify for randomization to the double-blind treatment period. On Visit 2 subjects who satisfied the symptom severity requirements and continued to meet all of the study inclusion/exclusion criteria were randomized.

Period 1

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

Arms

| | |
|------------------------------|---------|
| Are arms mutually exclusive? | Yes |
| Arm title | MP29-02 |

Arm description: -

| | |
|--|---|
| Arm type | Experimental |
| Investigational medicinal product name | Azelastine hydrochloride and fluticasone propionate |
| Investigational medicinal product code | |
| Other name | |
| Pharmaceutical forms | Nasal spray |
| Routes of administration | Nasal use |

Dosage and administration details:

Total daily dose: 548 mcg azelastine/ 200 mcg fluticasone;
1 spray per nostril twice daily;
14-day double-blind Treatment Period

| | |
|------------------|----------------|
| Arm title | Azelastine HCL |
|------------------|----------------|

Arm description: -

| | |
|--|--------------------------|
| Arm type | Active comparator |
| Investigational medicinal product name | Azelastine hydrochloride |
| Investigational medicinal product code | |
| Other name | |
| Pharmaceutical forms | Nasal spray |
| Routes of administration | Nasal use |

Dosage and administration details:

1 spray per nostril twice daily;
total daily dose: 548 mcg azelastine
14-day double-blind Treatment Period

| | |
|------------------|-------------|
| Arm title | Fluticasone |
|------------------|-------------|

Arm description: -

| | |
|----------|-------------------|
| Arm type | Active comparator |
|----------|-------------------|

| | |
|--|------------------------|
| Investigational medicinal product name | Fluticasone propionate |
| Investigational medicinal product code | |
| Other name | |
| Pharmaceutical forms | Nasal spray |
| Routes of administration | Nasal use |

Dosage and administration details:

1 spray per nostril twice daily;
Total daily dose: 200 mcg fluticasone;
14-day double-blind Treatment Period

| | |
|------------------|---------|
| Arm title | Placebo |
|------------------|---------|

Arm description: -

| | |
|--|---------------------|
| Arm type | Placebo |
| Investigational medicinal product name | Placebo nasal spray |
| Investigational medicinal product code | |
| Other name | |
| Pharmaceutical forms | Nasal spray |
| Routes of administration | Nasal use |

Dosage and administration details:

Placebo nasal spray;
Same formulation as MP29-02 with the exception of the active ingredients;
1 spray per nostril twice daily;
14-day double-blind Treatment Period

| Number of subjects in period 1 | MP29-02 | Azelastine HCL | Fluticasone |
|---------------------------------------|---------|----------------|-------------|
| Started | 195 | 194 | 189 |
| Completed | 183 | 186 | 180 |
| Not completed | 12 | 8 | 9 |
| Consent withdrawn by subject | 1 | 1 | - |
| Abnormal test procedure results | - | 1 | - |
| Treatment failure | 1 | 1 | - |
| Adverse event, non-fatal | 3 | 1 | 1 |
| Protocol violation | - | - | - |
| Other | 5 | 2 | 3 |
| Non-compliance | - | - | 5 |
| Lost to follow-up | 2 | 1 | - |
| Protocol deviation | - | 1 | - |

| Number of subjects in period 1 | Placebo |
|---------------------------------------|---------|
| Started | 201 |
| Completed | 190 |
| Not completed | 11 |
| Consent withdrawn by subject | - |
| Abnormal test procedure results | - |
| Treatment failure | 3 |

| | |
|--------------------------|---|
| Adverse event, non-fatal | 3 |
| Protocol violation | 2 |
| Other | 3 |
| Non-compliance | - |
| Lost to follow-up | - |
| Protocol deviation | - |

Baseline characteristics

Reporting groups

| | |
|--------------------------------|----------------|
| Reporting group title | MP29-02 |
| Reporting group description: - | |
| Reporting group title | Azelastine HCL |
| Reporting group description: - | |
| Reporting group title | Fluticasone |
| Reporting group description: - | |
| Reporting group title | Placebo |
| Reporting group description: - | |

| Reporting group values | MP29-02 | Azelastine HCL | Fluticasone |
|---------------------------------------|---------|----------------|-------------|
| Number of subjects | 195 | 194 | 189 |
| Age categorical Units: Subjects | | | |
| Adolescents (12-17 years) | 12 | 12 | 14 |
| Adults (18-64 years) | 176 | 178 | 172 |
| 65 or older | 5 | 4 | 3 |
| Not reported / not in ITT | 2 | 0 | 0 |
| Gender categorical Units: Subjects | | | |
| Female | 126 | 128 | 121 |
| Male | 67 | 66 | 68 |
| Not reported / not in ITT | 2 | 0 | 0 |

| Reporting group values | Placebo | Total | |
|---------------------------------------|---------|-------|--|
| Number of subjects | 201 | 779 | |
| Age categorical Units: Subjects | | | |
| Adolescents (12-17 years) | 17 | 55 | |
| Adults (18-64 years) | 181 | 707 | |
| 65 or older | 2 | 14 | |
| Not reported / not in ITT | 1 | 3 | |
| Gender categorical Units: Subjects | | | |
| Female | 119 | 494 | |
| Male | 81 | 282 | |
| Not reported / not in ITT | 1 | 3 | |

End points

End points reporting groups

| | |
|------------------------------|----------------|
| Reporting group title | MP29-02 |
| Reporting group description: | - |
| Reporting group title | Azelastine HCL |
| Reporting group description: | - |
| Reporting group title | Fluticasone |
| Reporting group description: | - |
| Reporting group title | Placebo |
| Reporting group description: | - |

Primary: Change From Baseline in 12 Hour Reflective Total Nasal Symptom Score over the 14-Day Treatment Period: AM and PM Combined

| | |
|------------------------|---|
| End point title | Change From Baseline in 12 Hour Reflective Total Nasal Symptom Score over the 14-Day Treatment Period: AM and PM Combined |
| End point description: | |
| End point type | Primary |
| End point timeframe: | Day 1 PM to Day 14 AM. |

| End point values | MP29-02 | Azelastine HCL | Fluticasone | Placebo |
|---|--------------------|--------------------|--------------------|--------------------|
| Subject group type | Reporting group | Reporting group | Reporting group | Reporting group |
| Number of subjects analysed | 193 ^[1] | 193 ^[2] | 188 ^[3] | 199 ^[4] |
| Units: difference in scores | | | | |
| least squares mean (standard deviation) | -5.54 (± 5.183) | -4.54 (± 4.621) | -4.55 (± 5.146) | -3.03 (± 3.932) |

Notes:

[1] - Total number of intent-to-treat subjects with available data.

[2] - Total number of intent-to-treat subjects with available data.

[3] - Total number of intent-to-treat subjects with available data.

[4] - Total number of intent-to-treat subjects with available data.

Statistical analyses

| | |
|---|-------------------------------|
| Statistical analysis title | Comparison MP29-02 vs Placebo |
| Comparison groups | MP29-02 v Placebo |
| Number of subjects included in analysis | 392 |
| Analysis specification | Pre-specified |
| Analysis type | other |
| P-value | < 0.001 ^[5] |
| Method | ANCOVA |

Notes:

[5] - Pre-specified with multiplicity adjustment (gatekeeping).

| | |
|---|----------------------------------|
| Statistical analysis title | Comparison MP29-02 vs Azelastine |
| Comparison groups | MP29-02 v Azelastine HCL |
| Number of subjects included in analysis | 386 |
| Analysis specification | Pre-specified |
| Analysis type | other |
| P-value | = 0.032 ^[6] |
| Method | ANCOVA |

Notes:

[6] - Pre-specified with multiplicity adjustment (gatekeeping).

| | |
|---|-----------------------------------|
| Statistical analysis title | Comparison MP29-02 vs Fluticasone |
| Comparison groups | MP29-02 v Fluticasone |
| Number of subjects included in analysis | 381 |
| Analysis specification | Pre-specified |
| Analysis type | other |
| P-value | = 0.038 ^[7] |
| Method | ANCOVA |

Notes:

[7] - Pre-specified with multiplicity adjustment (gatekeeping).

Adverse events

Adverse events information

Timeframe for reporting adverse events:

At each visit, the study investigators and/or coordinators questioned subjects as to how they had been feeling since their last visit. If the AE was still present at the time the database was locked, a follow-up report was provided at a later date.

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

Dictionary used

| | |
|--------------------|--------|
| Dictionary name | MedDRA |
| Dictionary version | 11.0 |

Reporting groups

| | |
|-----------------------|---------|
| Reporting group title | MP29-02 |
|-----------------------|---------|

Reporting group description:

548 mcg azelastine/200 mcg fluticasone - 1 spray per nostril twice daily

| | |
|-----------------------|----------------|
| Reporting group title | Azelastine HCL |
|-----------------------|----------------|

Reporting group description:

548 mcg - 1 spray per nostril twice daily

| | |
|-----------------------|-------------|
| Reporting group title | Fluticasone |
|-----------------------|-------------|

Reporting group description:

200 mcg - 1 spray per nostril twice daily

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

Reporting group description:

Safety population. 0 mcg - 1 spray per nostril twice daily

| Serious adverse events | MP29-02 | Azelastine HCL | Fluticasone |
|---|---|-----------------|-----------------|
| Total subjects affected by serious adverse events | | | |
| subjects affected / exposed | 1 / 195 (0.51%) | 0 / 194 (0.00%) | 0 / 189 (0.00%) |
| number of deaths (all causes) | 0 | 0 | 0 |
| number of deaths resulting from adverse events | 0 | 0 | 0 |
| Infections and infestations | | | |
| Hepatitis C virus test positive | Additional description: onset 3 weeks after double-blinded period | | |
| subjects affected / exposed | 1 / 195 (0.51%) | 0 / 194 (0.00%) | 0 / 189 (0.00%) |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |

| Serious adverse events | Placebo | | |
|---|-----------------|--|--|
| Total subjects affected by serious adverse events | | | |
| subjects affected / exposed | 0 / 200 (0.00%) | | |
| number of deaths (all causes) | 0 | | |
| number of deaths resulting from adverse events | 0 | | |

| | | | |
|---|---|--|--|
| Infections and infestations | | | |
| Hepatitis C virus test positive | Additional description: onset 3 weeks after double-blinded period | | |
| subjects affected / exposed | 0 / 200 (0.00%) | | |
| occurrences causally related to treatment / all | 0 / 0 | | |
| deaths causally related to treatment / all | 0 / 0 | | |

Frequency threshold for reporting non-serious adverse events: 3 %

| Non-serious adverse events | MP29-02 | Azelastine HCL | Fluticasone |
|---|-------------------|-------------------|-------------------|
| Total subjects affected by non-serious adverse events | | | |
| subjects affected / exposed | 31 / 195 (15.90%) | 35 / 194 (18.04%) | 24 / 189 (12.70%) |
| Nervous system disorders | | | |
| Dysgeusia | | | |
| subjects affected / exposed | 4 / 195 (2.05%) | 14 / 194 (7.22%) | 1 / 189 (0.53%) |
| occurrences (all) | 4 | 14 | 1 |
| Headache | | | |
| subjects affected / exposed | 6 / 195 (3.08%) | 4 / 194 (2.06%) | 5 / 189 (2.65%) |
| occurrences (all) | 6 | 4 | 5 |

| Non-serious adverse events | Placebo | | |
|---|-------------------|--|--|
| Total subjects affected by non-serious adverse events | | | |
| subjects affected / exposed | 20 / 200 (10.00%) | | |
| Nervous system disorders | | | |
| Dysgeusia | | | |
| subjects affected / exposed | 1 / 200 (0.50%) | | |
| occurrences (all) | 1 | | |
| Headache | | | |
| subjects affected / exposed | 2 / 200 (1.00%) | | |
| occurrences (all) | 2 | | |

More information

Substantial protocol amendments (globally)

Were there any global substantial amendments to the protocol? No

Interruptions (globally)

Were there any global interruptions to the trial? No

Limitations and caveats

None reported