



Clinical trial results:

A double-blind, randomized, placebo-controlled, study to demonstrate the efficacy and safety of 250 mg or 1 g A3384 administered orally twice daily for two weeks to patients with Bile Acid Malabsorption (BAM)/Bile Acid Diarrhoea (BAD)

Summary

| | |
|--------------------------|------------------|
| EudraCT number | 2013-002924-17 |
| Trial protocol | SE GB |
| Global end of trial date | 18 December 2014 |

Results information

| | |
|-----------------------------------|--|
| Result version number | v1 (current) |
| This version publication date | 18 May 2016 |
| First version publication date | 18 May 2016 |
| Summary attachment (see zip file) | Study report summary (Summary of report A3384-001.pdf) |

Trial information

Trial identification

| | |
|-----------------------|-----------|
| Sponsor protocol code | A3384-001 |
|-----------------------|-----------|

Additional study identifiers

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

Notes:

Sponsors

| | |
|------------------------------|--|
| Sponsor organisation name | Albireo AB |
| Sponsor organisation address | Arvid Wallgrens Backe 20, Gothenburg, Sweden, |
| Public contact | VP Clinical & Regulatory Affairs, Albireo AB, 0046 31 74 114 81, kristina.torfgard@albireopharma.com |
| Scientific contact | Responsible Medical Officer, Albireo AB, 0046 31 741 1480, |

Notes:

Paediatric regulatory details

| | |
|--|----|
| Is trial part of an agreed paediatric investigation plan (PIP) | No |
| Does article 45 of REGULATION (EC) No 1901/2006 apply to this trial? | No |
| Does article 46 of REGULATION (EC) No 1901/2006 apply to this trial? | No |

Notes:

Results analysis stage

| | |
|--|------------------|
| Analysis stage | Final |
| Date of interim/final analysis | 16 February 2015 |
| Is this the analysis of the primary completion data? | Yes |
| Primary completion date | 18 December 2014 |
| Global end of trial reached? | Yes |
| Global end of trial date | 18 December 2014 |
| Was the trial ended prematurely? | Yes |

Notes:

General information about the trial

Main objective of the trial:

The primary efficacy objective of this study is to demonstrate the efficacy of twice daily oral doses of 250 mg or 1 g A3384 during a two week treatment period in patients with BAM, as determined by the # of bowel movements (BMs).

The primary safety objective of this study is to assess the safety and tolerability of twice daily oral doses of 250 mg or 1 g A3384 during a two week treatment period in patients with BAM, as determined by the occurrence of treatment-emergent SAEs.

Protection of trial subjects:

Vital signs, physical examinations, patient diary, laboratory test (such as haematology, clinical chemistry and urinalysis), concomitant medication review and adverse event data collection were performed throughout the study.

Background therapy: -

Evidence for comparator: -

| | |
|---|-----------------|
| Actual start date of recruitment | 13 January 2014 |
| 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 | Sweden: 8 |
| Country: Number of subjects enrolled | United Kingdom: 11 |
| Worldwide total number of subjects | 19 |
| EEA total number of subjects | 19 |

Notes:

Subjects enrolled per age group

| | |
|---|---|
| In utero | 0 |
| Preterm newborn - gestational age < 37 wk | 0 |
| Newborns (0-27 days) | 0 |
| Infants and toddlers (28 days-23 months) | 0 |
| Children (2-11 years) | 0 |
| Adolescents (12-17 years) | 0 |

| | |
|----------------------|----|
| Adults (18-64 years) | 14 |
| From 65 to 84 years | 5 |
| 85 years and over | 0 |

Subject disposition

Recruitment

Recruitment details:

There were three sites included in this study. Two sites from Sweden, site 001 in Göteborg and site 002 in Skövde and one site, site 003 in London from UK.

Pre-assignment

Screening details:

Thirty-four patients were screened for participation in the study: 19 patients (8 women and 11 men) entered the study and 15 patients were screening failures. All randomized patients completed the study and were included in both the FAS (mITT population) and the safety population.

Period 1

| | |
|------------------------------|---|
| Period 1 title | Randomisation |
| Is this the baseline period? | Yes |
| Allocation method | Randomised - controlled |
| Blinding used | Double blind |
| Roles blinded | Subject, Investigator, Monitor, Data analyst, Carer, Assessor |

Arms

| | |
|------------------------------|--------------|
| Are arms mutually exclusive? | Yes |
| Arm title | 250 mg A3384 |

Arm description:

Randomized patients received a treatment pack containing 136 capsules (for treatment of 17 days). Four capsules (i.e. one dosage unit = 1 capsule of 250 mg A3384 + 3 placebo capsules) were taken twice daily orally with water, 30 minutes before breakfast and 30 minutes before supper at approximately 5 to 8 pm.

| | |
|--|--------------|
| Arm type | Experimental |
| Investigational medicinal product name | A3384 |
| Investigational medicinal product code | |
| Other name | |
| Pharmaceutical forms | Capsule |
| Routes of administration | Oral use |

Dosage and administration details:

Randomized patients received a treatment pack containing 136 capsules (for treatment of 17 days). Four capsules (1 capsule of 250 mg A3384 + 3 placebo capsules, i.e. one dosage unit) were taken twice daily orally with water, 30 minutes before breakfast and 30 minutes before supper at approximately 5 to 8 pm.

| | |
|------------------|-----------|
| Arm title | 1 g A3384 |
|------------------|-----------|

Arm description:

Randomized patients received a treatment pack containing 136 capsules (for treatment of 17 days). Four capsules (i.e. one dosage unit = 4 capsules of 250 mg A3384) were taken twice daily orally with water, 30 minutes before breakfast and 30 minutes before supper at approximately 5 to 8 pm.

| | |
|--|--------------------|
| Arm type | Experimental |
| Investigational medicinal product name | A3384 |
| Investigational medicinal product code | |
| Other name | |
| Pharmaceutical forms | Capsule, Capsule |
| Routes of administration | Oral use, Oral use |

Dosage and administration details:

Randomized patients received a treatment pack containing 136 capsules (for treatment of 17 days). Four capsules (4 capsules of 250 mg A3384, i.e. one dosage unit) were taken twice daily orally with

water, 30 minutes before breakfast and 30 minutes before supper at approximately 5 to 8 pm.

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

Arm description:

Randomized patients received a treatment pack containing 136 capsules (for treatment of 17 days). Four capsules (4 placebo capsules, i.e. one dosage unit) were taken twice daily orally with water, 30 minutes before breakfast and 30 minutes before supper at approximately 5 to 8 pm.

| | |
|--|----------|
| Arm type | Placebo |
| Investigational medicinal product name | Placebo |
| Investigational medicinal product code | |
| Other name | |
| Pharmaceutical forms | Capsule |
| Routes of administration | Oral use |

Dosage and administration details:

Randomized patients received a treatment pack containing 136 capsules (for treatment of 17 days). Four capsules (4 placebo capsules, i.e. one dosage unit) were taken twice daily orally with water, 30 minutes before breakfast and 30 minutes before supper at approximately 5 to 8 pm.

| Number of subjects in period 1 | 250 mg A3384 | 1 g A3384 | Placebo |
|---------------------------------------|--------------|-----------|---------|
| Started | 6 | 7 | 6 |
| Completed | 6 | 7 | 6 |

Period 2

| | |
|------------------------------|---|
| Period 2 title | Treatment |
| Is this the baseline period? | No |
| Allocation method | Randomised - controlled |
| Blinding used | Double blind |
| Roles blinded | Subject, Investigator, Monitor, Data analyst, Carer, Assessor |

Arms

| | |
|------------------------------|--------------|
| Are arms mutually exclusive? | Yes |
| Arm title | 250 mg A3384 |

Arm description:

Randomized patients received a treatment pack containing 136 capsules (for treatment of 17 days). Four capsules (i.e. one dosage unit = 1 capsule of 250 mg A3384 + 3 placebo capsules) were taken twice daily orally with water, 30 minutes before breakfast and 30 minutes before supper at approximately 5 to 8 pm.

| | |
|----------|--------------|
| Arm type | Experimental |
|----------|--------------|

| | |
|--|----------|
| Investigational medicinal product name | A3384 |
| Investigational medicinal product code | |
| Other name | |
| Pharmaceutical forms | Capsule |
| Routes of administration | Oral use |

Dosage and administration details:

Randomized patients received a treatment pack containing 136 capsules (for treatment of 17 days). Four capsules (1 capsule of 250 mg A3384 + 3 placebo capsules, i.e. one dosage unit) were taken twice daily orally with water, 30 minutes before breakfast and 30 minutes before supper at approximately 5 to 8 pm.

| | |
|------------------|-----------|
| Arm title | 1 g A3384 |
|------------------|-----------|

Arm description:

Randomized patients received a treatment pack containing 136 capsules (for treatment of 17 days). Four capsules (i.e. one dosage unit = 4 capsules of 250 mg A3384) were taken twice daily orally with water, 30 minutes before breakfast and 30 minutes before supper at approximately 5 to 8 pm.

| | |
|--|--------------------|
| Arm type | Experimental |
| Investigational medicinal product name | A3384 |
| Investigational medicinal product code | |
| Other name | |
| Pharmaceutical forms | Capsule, Capsule |
| Routes of administration | Oral use, Oral use |

Dosage and administration details:

Randomized patients received a treatment pack containing 136 capsules (for treatment of 17 days). Four capsules (4 capsules of 250 mg A3384, i.e. one dosage unit) were taken twice daily orally with water, 30 minutes before breakfast and 30 minutes before supper at approximately 5 to 8 pm.

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

Arm description:

Randomized patients received a treatment pack containing 136 capsules (for treatment of 17 days). Four capsules (4 placebo capsules, i.e. one dosage unit) were taken twice daily orally with water, 30 minutes before breakfast and 30 minutes before supper at approximately 5 to 8 pm.

| | |
|--|----------|
| Arm type | Placebo |
| Investigational medicinal product name | Placebo |
| Investigational medicinal product code | |
| Other name | |
| Pharmaceutical forms | Capsule |
| Routes of administration | Oral use |

Dosage and administration details:

Randomized patients received a treatment pack containing 136 capsules (for treatment of 17 days). Four capsules (4 placebo capsules, i.e. one dosage unit) were taken twice daily orally with water, 30 minutes before breakfast and 30 minutes before supper at approximately 5 to 8 pm.

| Number of subjects in period 2 | 250 mg A3384 | 1 g A3384 | Placebo |
|---------------------------------------|--------------|-----------|---------|
| Started | 6 | 7 | 6 |
| Completed | 6 | 7 | 6 |

Period 3

| | |
|------------------------------|---|
| Period 3 title | Follow-up |
| Is this the baseline period? | No |
| Allocation method | Randomised - controlled |
| Blinding used | Double blind |
| Roles blinded | Subject, Investigator, Monitor, Data analyst, Carer, Assessor |

Arms

| | |
|------------------------------|--------------|
| Are arms mutually exclusive? | Yes |
| Arm title | 250 mg A3384 |

Arm description:

Randomized patients received a treatment pack containing 136 capsules (for treatment of 17 days). Four capsules (i.e. one dosage unit = 1 capsule of 250 mg A3384 + 3 placebo capsules) were taken twice daily orally with water, 30 minutes before breakfast and 30 minutes before supper at approximately 5 to 8 pm.

| | |
|--|--------------|
| Arm type | Experimental |
| Investigational medicinal product name | A3384 |
| Investigational medicinal product code | |
| Other name | |
| Pharmaceutical forms | Capsule |
| Routes of administration | Oral use |

Dosage and administration details:

Randomized patients received a treatment pack containing 136 capsules (for treatment of 17 days). Four capsules (1 capsule of 250 mg A3384 + 3 placebo capsules, i.e. one dosage unit) were taken twice daily orally with water, 30 minutes before breakfast and 30 minutes before supper at approximately 5 to 8 pm.

| | |
|------------------|-----------|
| Arm title | 1 g A3384 |
|------------------|-----------|

Arm description:

Randomized patients received a treatment pack containing 136 capsules (for treatment of 17 days). Four capsules (i.e. one dosage unit = 4 capsules of 250 mg A3384) were taken twice daily orally with water, 30 minutes before breakfast and 30 minutes before supper at approximately 5 to 8 pm.

| | |
|--|--------------------|
| Arm type | Experimental |
| Investigational medicinal product name | A3384 |
| Investigational medicinal product code | |
| Other name | |
| Pharmaceutical forms | Capsule, Capsule |
| Routes of administration | Oral use, Oral use |

Dosage and administration details:

Randomized patients received a treatment pack containing 136 capsules (for treatment of 17 days). Four capsules (4 capsules of 250 mg A3384, i.e. one dosage unit) were taken twice daily orally with water, 30 minutes before breakfast and 30 minutes before supper at approximately 5 to 8 pm.

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

Arm description:

Randomized patients received a treatment pack containing 136 capsules (for treatment of 17 days). Four capsules (4 placebo capsules, i.e. one dosage unit) were taken twice daily orally with water, 30 minutes before breakfast and 30 minutes before supper at approximately 5 to 8 pm.

| | |
|----------|---------|
| Arm type | Placebo |
|----------|---------|

| | |
|--|----------|
| Investigational medicinal product name | Placebo |
| Investigational medicinal product code | |
| Other name | |
| Pharmaceutical forms | Capsule |
| Routes of administration | Oral use |

Dosage and administration details:

Randomized patients received a treatment pack containing 136 capsules (for treatment of 17 days). Four capsules (4 placebo capsules, i.e. one dosage unit) were taken twice daily orally with water, 30 minutes before breakfast and 30 minutes before supper at approximately 5 to 8 pm.

| Number of subjects in period 3 | 250 mg A3384 | 1 g A3384 | Placebo |
|---------------------------------------|--------------|-----------|---------|
| Started | 6 | 7 | 6 |
| Completed | 6 | 7 | 6 |

Baseline characteristics

Reporting groups

| | |
|-----------------------|--------------|
| Reporting group title | 250 mg A3384 |
|-----------------------|--------------|

Reporting group description:

Randomized patients received a treatment pack containing 136 capsules (for treatment of 17 days). Four capsules (i.e. one dosage unit = 1 capsule of 250 mg A3384 + 3 placebo capsules) were taken twice daily orally with water, 30 minutes before breakfast and 30 minutes before supper at approximately 5 to 8 pm.

| | |
|-----------------------|-----------|
| Reporting group title | 1 g A3384 |
|-----------------------|-----------|

Reporting group description:

Randomized patients received a treatment pack containing 136 capsules (for treatment of 17 days). Four capsules (i.e. one dosage unit = 4 capsules of 250 mg A3384) were taken twice daily orally with water, 30 minutes before breakfast and 30 minutes before supper at approximately 5 to 8 pm.

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

Reporting group description:

Randomized patients received a treatment pack containing 136 capsules (for treatment of 17 days). Four capsules (4 placebo capsules, i.e. one dosage unit) were taken twice daily orally with water, 30 minutes before breakfast and 30 minutes before supper at approximately 5 to 8 pm.

| Reporting group values | 250 mg A3384 | 1 g A3384 | Placebo |
|--|--------------|-----------|---------|
| Number of subjects | 6 | 7 | 6 |
| Age categorical | | | |
| Units: Subjects | | | |
| In utero | 0 | 0 | 0 |
| Preterm newborn infants (gestational age < 37 wks) | 0 | 0 | 0 |
| Newborns (0-27 days) | 0 | 0 | 0 |
| Infants and toddlers (28 days-23 months) | 0 | 0 | 0 |
| Children (2-11 years) | 0 | 0 | 0 |
| Adolescents (12-17 years) | 0 | 0 | 0 |
| Adults (18-64 years) | 4 | 5 | 5 |
| From 65-84 years | 2 | 2 | 1 |
| 85 years and over | 0 | 0 | 0 |
| Age continuous | | | |
| Units: years | | | |
| arithmetic mean | 50 | 46.4 | 38.7 |
| standard deviation | ± 21.28 | ± 20.4 | ± 17.57 |
| Gender categorical | | | |
| Units: Subjects | | | |
| Female | 2 | 3 | 3 |
| Male | 4 | 4 | 3 |
| Ethnic background | | | |
| Units: Subjects | | | |
| Asian | 0 | 2 | 1 |
| Caucasian | 5 | 5 | 4 |
| Other | 1 | 0 | 1 |

| | | | |
|---|-------|--|--|
| Reporting group values | Total | | |
| Number of subjects | 19 | | |
| Age categorical | | | |
| Units: Subjects | | | |
| In utero | 0 | | |
| Preterm newborn infants (gestational age < 37 wks) | 0 | | |
| Newborns (0-27 days) | 0 | | |
| Infants and toddlers (28 days-23 months) | 0 | | |
| Children (2-11 years) | 0 | | |
| Adolescents (12-17 years) | 0 | | |
| Adults (18-64 years) | 14 | | |
| From 65-84 years | 5 | | |
| 85 years and over | 0 | | |
| Age continuous | | | |
| Units: years | | | |
| arithmetic mean | | | |
| standard deviation | - | | |
| Gender categorical | | | |
| Units: Subjects | | | |
| Female | 8 | | |
| Male | 11 | | |
| Ethnic background | | | |
| Units: Subjects | | | |
| Asian | 3 | | |
| Caucasian | 14 | | |
| Other | 2 | | |

End points

End points reporting groups

| | |
|-----------------------|--------------|
| Reporting group title | 250 mg A3384 |
|-----------------------|--------------|

Reporting group description:

Randomized patients received a treatment pack containing 136 capsules (for treatment of 17 days). Four capsules (i.e. one dosage unit = 1 capsule of 250 mg A3384 + 3 placebo capsules) were taken twice daily orally with water, 30 minutes before breakfast and 30 minutes before supper at approximately 5 to 8 pm.

| | |
|-----------------------|-----------|
| Reporting group title | 1 g A3384 |
|-----------------------|-----------|

Reporting group description:

Randomized patients received a treatment pack containing 136 capsules (for treatment of 17 days). Four capsules (i.e. one dosage unit = 4 capsules of 250 mg A3384) were taken twice daily orally with water, 30 minutes before breakfast and 30 minutes before supper at approximately 5 to 8 pm.

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

Reporting group description:

Randomized patients received a treatment pack containing 136 capsules (for treatment of 17 days). Four capsules (4 placebo capsules, i.e. one dosage unit) were taken twice daily orally with water, 30 minutes before breakfast and 30 minutes before supper at approximately 5 to 8 pm.

| | |
|-----------------------|--------------|
| Reporting group title | 250 mg A3384 |
|-----------------------|--------------|

Reporting group description:

Randomized patients received a treatment pack containing 136 capsules (for treatment of 17 days). Four capsules (i.e. one dosage unit = 1 capsule of 250 mg A3384 + 3 placebo capsules) were taken twice daily orally with water, 30 minutes before breakfast and 30 minutes before supper at approximately 5 to 8 pm.

| | |
|-----------------------|-----------|
| Reporting group title | 1 g A3384 |
|-----------------------|-----------|

Reporting group description:

Randomized patients received a treatment pack containing 136 capsules (for treatment of 17 days). Four capsules (i.e. one dosage unit = 4 capsules of 250 mg A3384) were taken twice daily orally with water, 30 minutes before breakfast and 30 minutes before supper at approximately 5 to 8 pm.

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

Reporting group description:

Randomized patients received a treatment pack containing 136 capsules (for treatment of 17 days). Four capsules (4 placebo capsules, i.e. one dosage unit) were taken twice daily orally with water, 30 minutes before breakfast and 30 minutes before supper at approximately 5 to 8 pm.

| | |
|-----------------------|--------------|
| Reporting group title | 250 mg A3384 |
|-----------------------|--------------|

Reporting group description:

Randomized patients received a treatment pack containing 136 capsules (for treatment of 17 days). Four capsules (i.e. one dosage unit = 1 capsule of 250 mg A3384 + 3 placebo capsules) were taken twice daily orally with water, 30 minutes before breakfast and 30 minutes before supper at approximately 5 to 8 pm.

| | |
|-----------------------|-----------|
| Reporting group title | 1 g A3384 |
|-----------------------|-----------|

Reporting group description:

Randomized patients received a treatment pack containing 136 capsules (for treatment of 17 days). Four capsules (i.e. one dosage unit = 4 capsules of 250 mg A3384) were taken twice daily orally with water, 30 minutes before breakfast and 30 minutes before supper at approximately 5 to 8 pm.

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

Reporting group description:

Randomized patients received a treatment pack containing 136 capsules (for treatment of 17 days). Four capsules (4 placebo capsules, i.e. one dosage unit) were taken twice daily orally with water, 30 minutes before breakfast and 30 minutes before supper at approximately 5 to 8 pm.

Primary: Change from baseline period 2 of bowel movements during second treatment week

| | |
|-----------------|---|
| End point title | Change from baseline period 2 of bowel movements during second treatment week |
|-----------------|---|

End point description:

The primary efficacy endpoint was the change in mean (daily) number of BMs from the baseline period 2 diary recordings to the second treatment week diary recordings.

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

End point timeframe:

From the baseline period 2 to the second treatment week.

| End point values | 250 mg A3384 | 1 g A3384 | Placebo | 250 mg A3384 |
|--------------------------------------|-----------------|-----------------|-----------------|-----------------|
| Subject group type | Reporting group | Reporting group | Reporting group | Reporting group |
| Number of subjects analysed | 6 | 7 | 5 | 6 |
| Units: Number of BM | | | | |
| arithmetic mean (standard deviation) | 5.4 (± 2.8) | 4.9 (± 1.5) | 4.5 (± 0.9) | 3.6 (± 1.6) |

| End point values | 1 g A3384 | Placebo | | |
|--------------------------------------|-----------------|------------------|--|--|
| Subject group type | Reporting group | Reporting group | | |
| Number of subjects analysed | 7 | 5 ^[1] | | |
| Units: Number of BM | | | | |
| arithmetic mean (standard deviation) | 3.7 (± 1.9) | 4.1 (± 1.3) | | |

Notes:

[1] - One patient had too few observations, only two Days of assessments for treatment period 2.

Statistical analyses

| | |
|-----------------------------------|--|
| Statistical analysis title | Change in mean (daily) number of BMs, 250 mg A3384 |
|-----------------------------------|--|

Statistical analysis description:

Change from baseline

| | |
|---|-------------------------|
| Comparison groups | 250 mg A3384 v Placebo |
| Number of subjects included in analysis | 11 |
| Analysis specification | Pre-specified |
| Analysis type | superiority |
| P-value | = 0.697 |
| Method | Wilcoxon (Mann-Whitney) |
| Parameter estimate | Hodges-Lehmann estimate |
| Point estimate | -0.3 |

| | |
|---------------------|---------|
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | -5.143 |
| upper limit | 1.143 |

| | |
|---|--|
| Statistical analysis title | Change in mean (daily) number of BMs, 1g A3384 |
| Statistical analysis description: | |
| Change from baseline | |
| Comparison groups | Placebo v 1 g A3384 |
| Number of subjects included in analysis | 12 |
| Analysis specification | Pre-specified |
| Analysis type | superiority |
| P-value | = 0.3258 |
| Method | Wilcoxon (Mann-Whitney) |
| Parameter estimate | Hodges-Lehmann estimate |
| Point estimate | -0.571 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | -2 |
| upper limit | 0.857 |

| | |
|---|--|
| Statistical analysis title | Change in mean (daily) number of BMs, (1g+250mg) |
| Statistical analysis description: | |
| Combined A3384 group (1 g + 250 mg) compared to placebo from baseline period 2 to second treatment week | |
| Comparison groups | 250 mg A3384 v 1 g A3384 v Placebo |
| Number of subjects included in analysis | 18 |
| Analysis specification | Pre-specified |
| Analysis type | superiority |
| P-value | = 0.3985 |
| Method | Wilcoxon (Mann-Whitney) |
| Parameter estimate | Hodges-Lehmann estimate |
| Point estimate | -0.429 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | -2 |
| upper limit | 0.857 |

| | |
|-----------------------------------|--|
| Statistical analysis title | Change in mean (daily) number of BMs, 250 mg A3384 |
| Comparison groups | 250 mg A3384 v Placebo |

| | |
|---|-----------------|
| Number of subjects included in analysis | 11 |
| Analysis specification | Pre-specified |
| Analysis type | superiority |
| P-value | = 0.3299 |
| Method | ANCOVA |
| Parameter estimate | LSmean estimate |
| Point estimate | -0.976 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | -3.068 |
| upper limit | 1.117 |

| | |
|---|--|
| Statistical analysis title | Change in mean (daily) number of BMs, 1g A3384 |
| Comparison groups | 1 g A3384 v Placebo |
| Number of subjects included in analysis | 12 |
| Analysis specification | Pre-specified |
| Analysis type | superiority |
| P-value | = 0.4855 |
| Method | ANCOVA |
| Parameter estimate | LSmean estimate |
| Point estimate | -0.66 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | -2.658 |
| upper limit | 1.338 |

| | |
|---|--|
| Statistical analysis title | Change in mean (daily) number of BMs, (1g+250mg) |
| Comparison groups | Placebo v 1 g A3384 v 250 mg A3384 |
| Number of subjects included in analysis | 18 |
| Analysis specification | Pre-specified |
| Analysis type | superiority |
| P-value | = 0.3383 |
| Method | ANCOVA |
| Parameter estimate | LSmean estimate |
| Point estimate | -0.8 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | -2.54 |
| upper limit | 0.939 |

Secondary: Severity of diarrhoea

| | |
|--|-----------------------|
| End point title | Severity of diarrhoea |
| End point description: | |
| Change from Baseline in average severity of diarrhoea (daily) during the second treatment week or the last 7 Days of reporting. Patient reporting scale 0-10 | |
| End point type | Secondary |
| End point timeframe: | |
| From baseline to second treatment week. | |

| End point values | 250 mg A3384 | 1 g A3384 | Placebo | 250 mg A3384 |
|--------------------------------------|-----------------|-----------------|-----------------|-----------------|
| Subject group type | Reporting group | Reporting group | Reporting group | Reporting group |
| Number of subjects analysed | 6 | 7 | 6 | 6 |
| Units: severity of diarrhoea | | | | |
| arithmetic mean (standard deviation) | 6 (± 3) | 5.8 (± 1.8) | 4.9 (± 2.8) | 3.7 (± 2.4) |

| End point values | 1 g A3384 | Placebo | | |
|--------------------------------------|-----------------|-----------------|--|--|
| Subject group type | Reporting group | Reporting group | | |
| Number of subjects analysed | 7 | 5 | | |
| Units: severity of diarrhoea | | | | |
| arithmetic mean (standard deviation) | 4.1 (± 2.9) | 5.5 (± 2.7) | | |

Statistical analyses

| Statistical analysis title | Change in mean (daily) symptoms diar, 250 mg A3384 |
|---|--|
| Statistical analysis description: | |
| Change from baseline | |
| Comparison groups | 250 mg A3384 v Placebo |
| Number of subjects included in analysis | 11 |
| Analysis specification | Pre-specified |
| Analysis type | superiority |
| P-value | = 0.0823 |
| Method | Wilcoxon (Mann-Whitney) |
| Parameter estimate | Hodges-Lehmann estimate |
| Point estimate | -3.429 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | -7.571 |
| upper limit | 1.286 |

| Statistical analysis title | Change in mean (daily) symptoms diar, 1 g A3384 |
|----------------------------|---|
|----------------------------|---|

| | |
|---|-------------------------|
| Statistical analysis description: | |
| Change from baseline | |
| Comparison groups | Placebo v 1 g A3384 |
| Number of subjects included in analysis | 12 |
| Analysis specification | Pre-specified |
| Analysis type | superiority |
| P-value | = 0.0732 |
| Method | Wilcoxon (Mann-Whitney) |
| Parameter estimate | Hodges-Lehmann estimate |
| Point estimate | -3.286 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | -5.286 |
| upper limit | 0.429 |

| | |
|---|--|
| Statistical analysis title | Change in mean (daily) symptoms diarrh, 1g + 250mg |
| Statistical analysis description: | |
| Change from baseline | |
| Comparison groups | 1 g A3384 v Placebo v 250 mg A3384 |
| Number of subjects included in analysis | 18 |
| Analysis specification | Pre-specified |
| Analysis type | superiority |
| P-value | = 0.035 |
| Method | Wilcoxon (Mann-Whitney) |
| Parameter estimate | Hodges-Lehmann estimate |
| Point estimate | -3.286 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | -5.554 |
| upper limit | -0.286 |

| | |
|---|--|
| Statistical analysis title | Change in mean (daily) symptoms diarrh, 250 mg |
| Statistical analysis description: | |
| Change from baseline | |
| Comparison groups | Placebo v 250 mg A3384 |
| Number of subjects included in analysis | 11 |
| Analysis specification | Pre-specified |
| Analysis type | superiority |
| P-value | = 0.029 |
| Method | ANCOVA |
| Parameter estimate | LSmeanestimate |
| Point estimate | -3.138 |

| | |
|---------------------|---------|
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | -5.894 |
| upper limit | -0.381 |

| | |
|---|---|
| Statistical analysis title | Change in mean (daily) symptoms diarrh, 1 g |
| Statistical analysis description: | |
| Change from baseline | |
| Comparison groups | Placebo v 1 g A3384 |
| Number of subjects included in analysis | 12 |
| Analysis specification | Pre-specified |
| Analysis type | superiority |
| P-value | = 0.0476 |
| Method | ANCOVA |
| Parameter estimate | LSmeanestimate |
| Point estimate | -2.685 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | -5.336 |
| upper limit | -0.034 |

| | |
|---|--|
| Statistical analysis title | Change in mean (daily) symptoms diarrh, 1g+250mg |
| Statistical analysis description: | |
| Change from baseline | |
| Comparison groups | Placebo v 1 g A3384 v 250 mg A3384 |
| Number of subjects included in analysis | 18 |
| Analysis specification | Pre-specified |
| Analysis type | superiority |
| P-value | = 0.0183 |
| Method | ANCOVA |
| Parameter estimate | LSmeanestimate |
| Point estimate | -2.889 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | -5.204 |
| upper limit | -0.574 |

Secondary: Severity of abdominal discomfort

| | |
|-----------------|----------------------------------|
| End point title | Severity of abdominal discomfort |
|-----------------|----------------------------------|

End point description:

Change in mean (daily) severity of abdominal discomfort from baseline period 2 (last 7 Days prior to

Clinical visit number 3) to the second treatment week (last 7 Days of reporting)

| | |
|---|-----------|
| End point type | Secondary |
| End point timeframe: | |
| From baseline to second treatment week. | |

| End point values | 250 mg A3384 | 1 g A3384 | Placebo | 250 mg A3384 |
|---|-----------------|-----------------|-----------------|-----------------|
| Subject group type | Reporting group | Reporting group | Reporting group | Reporting group |
| Number of subjects analysed | 6 | 7 | 6 | 6 |
| Units: severity of abdominal discomfort | | | | |
| arithmetic mean (standard deviation) | 5 (± 3.5) | 5 (± 2.7) | 5.8 (± 1.3) | 3.2 (± 1.8) |

| End point values | 1 g A3384 | Placebo | | |
|---|-----------------|-----------------|--|--|
| Subject group type | Reporting group | Reporting group | | |
| Number of subjects analysed | 7 | 5 | | |
| Units: severity of abdominal discomfort | | | | |
| arithmetic mean (standard deviation) | 3.3 (± 3.4) | 4.5 (± 2.4) | | |

Statistical analyses

| Statistical analysis title | Change in mean (daily) symptoms abd discom (250mg) |
|---|--|
| Statistical analysis description: | |
| Change from baseline | |
| Comparison groups | Placebo v 250 mg A3384 |
| Number of subjects included in analysis | 11 |
| Analysis specification | Pre-specified |
| Analysis type | superiority |
| P-value | = 0.7922 |
| Method | Wilcoxon (Mann-Whitney) |
| Parameter estimate | Hodges-Lehmann estimate |
| Point estimate | -0.857 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | -5.143 |
| upper limit | 3.238 |

| Statistical analysis title | Change in mean (daily) symptoms abd discomfor (1g) |
|-----------------------------------|--|
| Statistical analysis description: | |
| Change from baseline | |
| Comparison groups | Placebo v 1 g A3384 |

| | |
|---|-------------------------|
| Number of subjects included in analysis | 12 |
| Analysis specification | Pre-specified |
| Analysis type | superiority |
| P-value | = 0.6061 |
| Method | Wilcoxon (Mann-Whitney) |
| Parameter estimate | Hodges-Lehmann estimate |
| Point estimate | -0.571 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | -3.19 |
| upper limit | 2.286 |

| | |
|---|--|
| Statistical analysis title | Change in mean (daily) symptoms abd dis (1g+250mg) |
| Statistical analysis description: | |
| Change from baseline | |
| Comparison groups | Placebo v 250 mg A3384 v 1 g A3384 |
| Number of subjects included in analysis | 18 |
| Analysis specification | Pre-specified |
| Analysis type | superiority |
| P-value | = 0.6162 |
| Method | Wilcoxon (Mann-Whitney) |
| Parameter estimate | Hodges-Lehmann estimate |
| Point estimate | -0.714 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | -3.19 |
| upper limit | 2.238 |

| | |
|---|--|
| Statistical analysis title | Change in mean (daily) symptoms abd discom (250mg) |
| Statistical analysis description: | |
| Change from baseline | |
| Comparison groups | Placebo v 250 mg A3384 |
| Number of subjects included in analysis | 11 |
| Analysis specification | Pre-specified |
| Analysis type | superiority |
| P-value | = 0.5246 |
| Method | ANCOVA |
| Parameter estimate | LSmean estimate |
| Point estimate | -0.931 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | -4.028 |
| upper limit | 2.165 |

| | |
|---|---|
| Statistical analysis title | Change in mean (daily) symptoms abd discomfort (1g) |
| Statistical analysis description: | |
| Change from baseline | |
| Comparison groups | Placebo v 1 g A3384 |
| Number of subjects included in analysis | 12 |
| Analysis specification | Pre-specified |
| Analysis type | superiority |
| P-value | = 0.5186 |
| Method | ANCOVA |
| Parameter estimate | LSmean estimate |
| Point estimate | -0.909 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | -3.887 |
| upper limit | 2.069 |

| | |
|---|--|
| Statistical analysis title | Change in mean (daily) symptoms abd dis (1g+250mg) |
| Statistical analysis description: | |
| Change from baseline | |
| Comparison groups | Placebo v 1 g A3384 v 250 mg A3384 |
| Number of subjects included in analysis | 18 |
| Analysis specification | Pre-specified |
| Analysis type | superiority |
| P-value | = 0.4545 |
| Method | ANCOVA |
| Parameter estimate | LSmean estimate |
| Point estimate | -0.919 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | -3.495 |
| upper limit | 1.656 |

Secondary: Severity of abdominal bloating

| | |
|--|--------------------------------|
| End point title | Severity of abdominal bloating |
| End point description: | |
| Change in mean (daily) severity of abdominal bloating from baseline period 2 (last 7 Days prior to clinica visit number 3) to the second treatment week (last 7 Days of reporting) | |
| End point type | Secondary |
| End point timeframe: | |
| From baseline to second treatment week. | |

| End point values | 250 mg A3384 | 1 g A3384 | Placebo | 250 mg A3384 |
|---------------------------------------|-----------------|-----------------|-----------------|-----------------|
| Subject group type | Reporting group | Reporting group | Reporting group | Reporting group |
| Number of subjects analysed | 6 | 7 | 6 | 6 |
| Units: severity in abdominal bloating | | | | |
| arithmetic mean (standard deviation) | 4.1 (± 3.9) | 4.7 (± 1.8) | 6 (± 1.5) | 3.2 (± 2.4) |

| End point values | 1 g A3384 | Placebo | | |
|---------------------------------------|-----------------|-----------------|--|--|
| Subject group type | Reporting group | Reporting group | | |
| Number of subjects analysed | 7 | 5 | | |
| Units: severity in abdominal bloating | | | | |
| arithmetic mean (standard deviation) | 3.4 (± 2.9) | 5.1 (± 2.9) | | |

Statistical analyses

| Statistical analysis title | Change in mean (daily) symptoms abd bloati (250mg) |
|---|--|
| Statistical analysis description: | |
| Change from baseline | |
| Comparison groups | Placebo v 250 mg A3384 |
| Number of subjects included in analysis | 11 |
| Analysis specification | Pre-specified |
| Analysis type | superiority |
| P-value | = 0.9307 |
| Method | Wilcoxon (Mann-Whitney) |
| Parameter estimate | Hodges-Lehmann estimate |
| Point estimate | 0.357 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | -3.881 |
| upper limit | 4.143 |

| Statistical analysis title | Change in mean (daily) symptoms abd bloating (1g) |
|-----------------------------------|---|
| Statistical analysis description: | |
| Change from baseline | |
| Comparison groups | Placebo v 1 g A3384 |

| | |
|---|-------------------------|
| Number of subjects included in analysis | 12 |
| Analysis specification | Pre-specified |
| Analysis type | superiority |
| P-value | = 1 |
| Method | Wilcoxon (Mann-Whitney) |
| Parameter estimate | Hodges-Lehmann estimate |
| Point estimate | -0.143 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | -3.714 |
| upper limit | 2.143 |

| | |
|---|--|
| Statistical analysis title | Change in mean (daily) symptoms abd blo (250mg+1g) |
| Statistical analysis description: | |
| Change from baseline | |
| Comparison groups | Placebo v 1 g A3384 v 250 mg A3384 |
| Number of subjects included in analysis | 18 |
| Analysis specification | Pre-specified |
| Analysis type | superiority |
| P-value | = 0.9799 |
| Method | Wilcoxon (Mann-Whitney) |
| Parameter estimate | Hodges-Lehmann estimate |
| Point estimate | 0.143 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | -3.229 |
| upper limit | 2 |

| | |
|---|--|
| Statistical analysis title | Change in mean (daily) symptoms abd bloati (250mg) |
| Statistical analysis description: | |
| Change from baseline | |
| Comparison groups | Placebo v 250 mg A3384 |
| Number of subjects included in analysis | 11 |
| Analysis specification | Pre-specified |
| Analysis type | superiority |
| P-value | = 0.6572 |
| Method | ANCOVA |
| Parameter estimate | LSmeanestimate |
| Point estimate | -0.696 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | -4.028 |
| upper limit | 2.636 |

| | |
|---|---|
| Statistical analysis title | Change in mean (daily) symptoms abd bloating (1g) |
| Statistical analysis description: | |
| Change from baseline | |
| Comparison groups | Placebo v 1 g A3384 |
| Number of subjects included in analysis | 12 |
| Analysis specification | Pre-specified |
| Analysis type | superiority |
| P-value | = 0.573 |
| Method | ANCOVA |
| Parameter estimate | LSmeanestimate |
| Point estimate | -0.841 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | -4.004 |
| upper limit | 2.322 |

| | |
|---|--|
| Statistical analysis title | Change in mean (daily) symptoms abd blo (250mg+1g) |
| Statistical analysis description: | |
| Change from baseline | |
| Comparison groups | Placebo v 1 g A3384 v 250 mg A3384 |
| Number of subjects included in analysis | 18 |
| Analysis specification | Pre-specified |
| Analysis type | superiority |
| P-value | = 0.5522 |
| Method | ANCOVA |
| Parameter estimate | LSmeanestimate |
| Point estimate | -0.778 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | -3.531 |
| upper limit | 1.975 |

Secondary: Stool consistency

| | |
|---|-------------------|
| End point title | Stool consistency |
| End point description: | |
| Change in mean (daily) stool consistency (as determined by the Bristol Stool Form Scale (BSFS)) from baseline period 2 (last 7 Days prior to clinic visit number 3) to the second treatment week (last 7 Days of reporting) | |
| End point type | Secondary |
| End point timeframe: | |
| From baseline to second treatment week. | |

| End point values | 250 mg A3384 | 1 g A3384 | Placebo | 250 mg A3384 |
|--------------------------------------|-----------------|-----------------|-----------------|-----------------|
| Subject group type | Reporting group | Reporting group | Reporting group | Reporting group |
| Number of subjects analysed | 6 | 7 | 6 | 6 |
| Units: daily stool consistency | | | | |
| arithmetic mean (standard deviation) | 5.9 (± 0.7) | 6.1 (± 0.6) | 5.5 (± 1) | 4.9 (± 1.3) |

| End point values | 1 g A3384 | Placebo | | |
|--------------------------------------|-----------------|-----------------|--|--|
| Subject group type | Reporting group | Reporting group | | |
| Number of subjects analysed | 7 | 5 | | |
| Units: daily stool consistency | | | | |
| arithmetic mean (standard deviation) | 5.4 (± 1.1) | 5.3 (± 1.2) | | |

Statistical analyses

| Statistical analysis title | Change in mean stool consistency (250mg) |
|---|--|
| Statistical analysis description: | |
| Change from baseline | |
| Comparison groups | 250 mg A3384 v Placebo |
| Number of subjects included in analysis | 11 |
| Analysis specification | Pre-specified |
| Analysis type | superiority |
| P-value | = 0.0823 |
| Method | Wilcoxon (Mann-Whitney) |
| Parameter estimate | Hodges-Lehmann estimate |
| Point estimate | -1.185 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | -2.065 |
| upper limit | 0.327 |

| Statistical analysis title | Change in mean stool consistency (1g) |
|-----------------------------------|---------------------------------------|
| Statistical analysis description: | |
| Change from baseline | |
| Comparison groups | Placebo v 1 g A3384 |

| | |
|---|-------------------------|
| Number of subjects included in analysis | 12 |
| Analysis specification | Pre-specified |
| Analysis type | superiority |
| P-value | = 0.149 |
| Method | Wilcoxon (Mann-Whitney) |
| Parameter estimate | Hodges-Lehmann estimate |
| Point estimate | -0.515 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | -1.784 |
| upper limit | 0.294 |

| | |
|---|---|
| Statistical analysis title | Change in mean stool consistency (250mg+1g) |
| Statistical analysis description: | |
| Change from baseline | |
| Comparison groups | Placebo v 1 g A3384 v 250 mg A3384 |
| Number of subjects included in analysis | 18 |
| Analysis specification | Pre-specified |
| Analysis type | superiority |
| P-value | = 0.0593 |
| Method | Wilcoxon (Mann-Whitney) |
| Parameter estimate | Hodges-Lehmann estimate |
| Point estimate | -0.951 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | -1.784 |
| upper limit | 0.044 |

| | |
|---|--|
| Statistical analysis title | Change in mean stool consistency (250mg) |
| Statistical analysis description: | |
| Change from baseline | |
| Comparison groups | Placebo v 250 mg A3384 |
| Number of subjects included in analysis | 11 |
| Analysis specification | Pre-specified |
| Analysis type | superiority |
| P-value | = 0.0289 |
| Method | ANCOVA |
| Parameter estimate | LSmeanestimate |
| Point estimate | -1.194 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | -2.242 |
| upper limit | -0.145 |

| | |
|---|---------------------------------------|
| Statistical analysis title | Change in mean stool consistency (1g) |
| Statistical analysis description: | |
| Change from baseline | |
| Comparison groups | Placebo v 1 g A3384 |
| Number of subjects included in analysis | 12 |
| Analysis specification | Pre-specified |
| Analysis type | superiority |
| P-value | = 0.0908 |
| Method | ANCOVA |
| Parameter estimate | LSmeanestimate |
| Point estimate | -0.882 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | -1.927 |
| upper limit | 0.163 |

| | |
|---|---|
| Statistical analysis title | Change in mean stool consistency (250mg+1g) |
| Statistical analysis description: | |
| Change from baseline | |
| Comparison groups | Placebo v 1 g A3384 v 250 mg A3384 |
| Number of subjects included in analysis | 18 |
| Analysis specification | Pre-specified |
| Analysis type | superiority |
| P-value | = 0.0298 |
| Method | ANCOVA |
| Parameter estimate | LSmeanestimate |
| Point estimate | -1.037 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | -1.955 |
| upper limit | -0.118 |

Secondary: self-reported global symptom relief

| | |
|--|-------------------------------------|
| End point title | self-reported global symptom relief |
| End point description: | |
| Difference in patients'self-reported global symptom relief rating 1-7. | |
| End point type | Secondary |
| End point timeframe: | |
| visit 4 | |

| End point values | 250 mg A3384 | 1 g A3384 | Placebo | |
|--------------------------------------|-------------------|-------------------|-----------------|--|
| Subject group type | Reporting group | Reporting group | Reporting group | |
| Number of subjects analysed | 6 | 7 | 6 | |
| Units: global symptom | | | | |
| arithmetic mean (standard deviation) | 3.5 (\pm 1.38) | 3.4 (\pm 1.62) | 4 (\pm 1.9) | |

Statistical analyses

| Statistical analysis title | Global symptom relief (250mg) |
|--|-------------------------------|
| Statistical analysis description: | |
| Change from global symptoms patient usually have when taking their regular medicine. | |
| Comparison groups | 250 mg A3384 v Placebo |
| Number of subjects included in analysis | 12 |
| Analysis specification | Pre-specified |
| Analysis type | superiority |
| P-value | = 0.6234 |
| Method | Wilcoxon (Mann-Whitney) |
| Parameter estimate | Hodges-Lehmann estimate |
| Point estimate | -0.5 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | -3 |
| upper limit | 2 |

| Statistical analysis title | Global symptom relief (1g) |
|--|----------------------------|
| Statistical analysis description: | |
| Change from global symptoms patient usually have when taking their regular medicine. | |
| Comparison groups | Placebo v 1 g A3384 |
| Number of subjects included in analysis | 13 |
| Analysis specification | Pre-specified |
| Analysis type | superiority |
| P-value | = 0.6393 |
| Method | Wilcoxon (Mann-Whitney) |
| Parameter estimate | Hodges-Lehmann estimate |
| Point estimate | -1 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | -3 |
| upper limit | 2 |

| | |
|---|------------------------------------|
| Statistical analysis title | Global symptom relief (250mg+1g) |
| Statistical analysis description: Change from global symptoms patient usually have when taking their regular medicine. | |
| Comparison groups | Placebo v 1 g A3384 v 250 mg A3384 |
| Number of subjects included in analysis | 19 |
| Analysis specification | Pre-specified |
| Analysis type | superiority |
| P-value | = 0.5606 |
| Method | Wilcoxon (Mann-Whitney) |
| Parameter estimate | Hodges-Lehmann estimate |
| Point estimate | -1 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | -2 |
| upper limit | 1 |

| | |
|---|-------------------------------|
| Statistical analysis title | Global symptom relief (250mg) |
| Statistical analysis description: Change from global symptoms patient usually have when taking their regular medicine. | |
| Comparison groups | Placebo v 250 mg A3384 |
| Number of subjects included in analysis | 12 |
| Analysis specification | Pre-specified |
| Analysis type | superiority |
| P-value | = 0.62 |
| Method | ANCOVA |
| Parameter estimate | LSmeanestimate |
| Point estimate | -0.525 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | -2.748 |
| upper limit | 1.697 |

| | |
|---|----------------------------|
| Statistical analysis title | Global symptom relief (1g) |
| Statistical analysis description: Change from global symptoms patient usually have when taking their regular medicine. | |
| Comparison groups | Placebo v 1 g A3384 |

| | |
|---|----------------|
| Number of subjects included in analysis | 13 |
| Analysis specification | Pre-specified |
| Analysis type | superiority |
| P-value | = 0.5689 |
| Method | ANCOVA |
| Parameter estimate | LSmeanestimate |
| Point estimate | -0.579 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | -2.707 |
| upper limit | 1.549 |

| | |
|--|------------------------------------|
| Statistical analysis title | Global symptom relief (250mg+1g) |
| Statistical analysis description: | |
| Change from global symptoms patient usually have when taking their regular medicine. | |
| Comparison groups | Placebo v 1 g A3384 v 250 mg A3384 |
| Number of subjects included in analysis | 19 |
| Analysis specification | Pre-specified |
| Analysis type | superiority |
| P-value | = 0.5279 |
| Method | ANCOVA |
| Parameter estimate | LSmeanestimate |
| Point estimate | -0.555 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | -2.384 |
| upper limit | 1.275 |

Adverse events

Adverse events information

Timeframe for reporting adverse events:

All AEs, whether reported by the patient or observed by the Investigator/Investigative Staff, were recorded throughout the study, starting after the patient had signed the ICF and until the post-treatment follow-up (visit 5) 7 days after the final dose.

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

Dictionary used

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

| | |
|--------------------|------|
| Dictionary version | 17.0 |
|--------------------|------|

Reporting groups

| | |
|-----------------------|--------------|
| Reporting group title | 250 mg A3384 |
|-----------------------|--------------|

Reporting group description:

Randomized patients received a treatment pack containing 136 capsules (for treatment of 17 days). Four capsules (i.e. one dosage unit = 1 capsule of 250 mg A3384 + 3 placebo capsules) were taken twice daily orally with water, 30 minutes before breakfast and 30 minutes before supper at approximately 5 to 8 pm.

| | |
|-----------------------|-----------|
| Reporting group title | 1 g A3384 |
|-----------------------|-----------|

Reporting group description:

Randomized patients received a treatment pack containing 136 capsules (for treatment of 17 days). Four capsules (i.e. one dosage unit = 4 capsules of 250 mg A3384) were taken twice daily orally with water, 30 minutes before breakfast and 30 minutes before supper at approximately 5 to 8 pm.

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

Reporting group description:

Randomized patients received a treatment pack containing 136 capsules (for treatment of 17 days). Four capsules (4 placebo capsules, i.e. one dosage unit) were taken twice daily orally with water, 30 minutes before breakfast and 30 minutes before supper at approximately 5 to 8 pm.

| Serious adverse events | 250 mg A3384 | 1 g A3384 | Placebo |
|---|--|----------------|---------------|
| Total subjects affected by serious adverse events | | | |
| subjects affected / exposed | 0 / 6 (0.00%) | 1 / 7 (14.29%) | 0 / 6 (0.00%) |
| number of deaths (all causes) | 0 | 0 | 0 |
| number of deaths resulting from adverse events | | | |
| Neoplasms benign, malignant and unspecified (incl cysts and polyps) | | | |
| skeletal metastases | Additional description: Skeletal metastases in spine, unknown primary tumor. Was judged to be not related to the study drug and was classified as post study event | | |
| subjects affected / exposed | 0 / 6 (0.00%) | 1 / 7 (14.29%) | 0 / 6 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |

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

| Non-serious adverse events | 250 mg A3384 | 1 g A3384 | Placebo |
|---|----------------|----------------|-----------------|
| Total subjects affected by non-serious adverse events | | | |
| subjects affected / exposed | 3 / 6 (50.00%) | 5 / 7 (71.43%) | 6 / 6 (100.00%) |
| Investigations | | | |
| Increased value pf P-Calcium | | | |
| subjects affected / exposed | 1 / 6 (16.67%) | 0 / 7 (0.00%) | 0 / 6 (0.00%) |
| occurrences (all) | 1 | 0 | 0 |
| Cardiac disorders | | | |
| Heart palpitations | | | |
| subjects affected / exposed | 0 / 6 (0.00%) | 1 / 7 (14.29%) | 0 / 6 (0.00%) |
| occurrences (all) | 0 | 1 | 0 |
| Nervous system disorders | | | |
| Headache | | | |
| subjects affected / exposed | 0 / 6 (0.00%) | 0 / 7 (0.00%) | 1 / 6 (16.67%) |
| occurrences (all) | 0 | 0 | 1 |
| Rhizophathia right arm | | | |
| subjects affected / exposed | 0 / 6 (0.00%) | 1 / 7 (14.29%) | 0 / 6 (0.00%) |
| occurrences (all) | 0 | 1 | 0 |
| General disorders and administration site conditions | | | |
| Non-cardiac chest pain | | | |
| subjects affected / exposed | 0 / 6 (0.00%) | 0 / 7 (0.00%) | 1 / 6 (16.67%) |
| occurrences (all) | 0 | 0 | 2 |
| Gastrointestinal disorders | | | |
| Stomach pain | | | |
| subjects affected / exposed | 0 / 6 (0.00%) | 1 / 7 (14.29%) | 0 / 6 (0.00%) |
| occurrences (all) | 0 | 1 | 0 |
| Abdominal pain | | | |
| subjects affected / exposed | 0 / 6 (0.00%) | 0 / 7 (0.00%) | 1 / 6 (16.67%) |
| occurrences (all) | 0 | 0 | 1 |
| Vomiting | | | |
| subjects affected / exposed | 0 / 6 (0.00%) | 0 / 7 (0.00%) | 1 / 6 (16.67%) |
| occurrences (all) | 0 | 0 | 1 |
| Skin and subcutaneous tissue disorders | | | |
| Sweating | | | |
| subjects affected / exposed | 0 / 6 (0.00%) | 1 / 7 (14.29%) | 0 / 6 (0.00%) |
| occurrences (all) | 0 | 1 | 0 |
| Musculoskeletal and connective tissue disorders | | | |

| | | | |
|---|---------------------|---------------------|---------------------|
| Shoulder pain subjects affected / exposed occurrences (all) | 0 / 6 (0.00%) 0 | 1 / 7 (14.29%) 1 | 0 / 6 (0.00%) 0 |
| Infections and infestations | | | |
| Rhinitis subjects affected / exposed occurrences (all) | 1 / 6 (16.67%) 1 | 0 / 7 (0.00%) 0 | 0 / 6 (0.00%) 0 |
| Urinary tract infection subjects affected / exposed occurrences (all) | 1 / 6 (16.67%) 1 | 0 / 7 (0.00%) 0 | 0 / 6 (0.00%) 0 |
| Chest infection subjects affected / exposed occurrences (all) | 1 / 6 (16.67%) 1 | 0 / 7 (0.00%) 0 | 0 / 6 (0.00%) 0 |
| Common cold subjects affected / exposed occurrences (all) | 1 / 6 (16.67%) 1 | 0 / 7 (0.00%) 0 | 2 / 6 (33.33%) 2 |

More information

Substantial protocol amendments (globally)

Were there any global substantial amendments to the protocol? Yes

| Date | Amendment |
|---------------|--|
| 17 March 2014 | Amendment No. 2 Sweden Substantial Amendment to the Investigational Medicinal Product Dossier, Change in widen of specification for assay from 90-100% to 80-120% to enable the recently manufactured capsules to be used in the study |
| 15 July 2014 | Amendment No. 2 UK Substantial Amendment to the Investigational Medicinal Product Dossier, Change in widen of specification for assay from 90-100% to 80-120% to enable the recently manufactured capsules to be used in the study |

Notes:

Interruptions (globally)

Were there any global interruptions to the trial? No

Limitations and caveats

None reported