



Clinical trial results:

Therapeutic effectiveness, safety and tolerability of Tonsilotren tablets in patients (6 to 60 years old) with chronic tonsillitis.

A randomized, international, multicenter, controlled clinical trial.

Summary

| | |
|--------------------------|----------------|
| EudraCT number | 2012-001430-34 |
| Trial protocol | DE ES |
| Global end of trial date | 14 August 2015 |

Results information

| | |
|--------------------------------|--|
| Result version number | v2 (current) |
| This version publication date | 24 September 2016 |
| First version publication date | 28 July 2016 |
| Version creation reason | <ul style="list-style-type: none">• Correction of full data set Due to a lately discovered mistake in the statistical analysis, some results have slightly changed compared to the results entered into the EudraCT until now. These results need to be updated. |

Trial information

Trial identification

| | |
|-----------------------|--------------|
| Sponsor protocol code | 10-TT-EP-003 |
|-----------------------|--------------|

Additional study identifiers

| | |
|------------------------------------|----------------|
| ISRCTN number | ISRCTN19016626 |
| ClinicalTrials.gov id (NCT number) | - |
| WHO universal trial number (UTN) | - |

Notes:

Sponsors

| | |
|------------------------------|--|
| Sponsor organisation name | Deutsche Homöopathie-Union, DHU-Arzneimittel GmbH & Co. KG |
| Sponsor organisation address | Ottostraße 24, Karlsruhe, Germany, 76227 |
| Public contact | Deutsche Homöopathie-Union, DHU-Arzneimittel GmbH & Co. KG, Ottostrasse 24, D-76227 Karlsruhe, + 49(0)721 409301, info@dhu.com |
| Scientific contact | Deutsche Homöopathie-Union, DHU-Arzneimittel GmbH & Co. KG, Ottostrasse 24, D-76227 Karlsruhe, + 49(0)721 409301, info@dhu.com |

Notes:

Paediatric regulatory details

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

Notes:

Results analysis stage

| | |
|--|----------------|
| Analysis stage | Final |
| Date of interim/final analysis | 14 August 2015 |
| Is this the analysis of the primary completion data? | No |
| Global end of trial reached? | Yes |
| Global end of trial date | 14 August 2015 |
| Was the trial ended prematurely? | No |

Notes:

General information about the trial

Main objective of the trial:

The primary objective of the study is to assess the therapeutic effectiveness of Tonsilotren in the treatment of chronic tonsillitis when used in addition to conventional symptomatic treatment (test group) in comparison to conventional symptomatic treatment alone (control group).

Protection of trial subjects:

All patients were allowed to receive conventional symptomatic treatment, which were local antiseptics and/or anesthetics. Half of the patients received additionally Tonsilotren. Examinations performed consisted mainly of a physical examination, which included evaluation of chronic tonsillitis-specific symptoms at each visit and evaluation of acute complaints in the upper respiratory tract during additional visits in case the patients felt sick with acute complaints in the upper respiratory tract. The physical examination did not differ significantly from a routine physical examination and did not involve any particular risk for the patient.

At the discretion of the investigator a throat swab (for a group A beta-hemolytic streptococci rapid test) could be performed. Patients were informed about the slight discomfort this test might cause via the patient informed consent.

Background therapy:

As conventional symptomatic treatment all patients were allowed to receive either local antiseptics and/or local anesthetics for the throat.

Evidence for comparator: -

| | |
|---|-----------------|
| Actual start date of recruitment | 25 January 2013 |
| 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 | Spain: 31 |
| Country: Number of subjects enrolled | Germany: 54 |
| Country: Number of subjects enrolled | Ukraine: 171 |
| Worldwide total number of subjects | 256 |
| EEA total number of subjects | 85 |

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) | 86 |
| Adolescents (12-17 years) | 51 |
| Adults (18-64 years) | 119 |
| From 65 to 84 years | 0 |
| 85 years and over | 0 |

Subject disposition

Recruitment

Recruitment details:

Patients were recruited during a period of 13 months going from January 2013 until February 2014 inclusively. In Germany, patients were recruited at 5 ENT practices. In Spain, patients were recruited at 2 pediatrician and 4 general practitioners sites. In Ukraine, patients were recruited at 2 pediatrician, 1 general practitioner and 5 ENT sites.

Pre-assignment

Screening details:

A total of 494 patients were screened for participation in the study. From these 494 patients, 238 did not participate: 143 violated the inclusion/exclusion criteria, 86 declined to participate and 9 patients did not participate for other reasons.

A total of 256 patients were randomized.

Period 1

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

Arms

| | |
|------------------------------|------------|
| Are arms mutually exclusive? | Yes |
| Arm title | Test group |

Arm description:

The test group received Tonsilotren tablets during Treatment Period I to III each for 8 weeks spread over 14 months and - if needed - conventional symptomatic treatment for chronic tonsillitis.

| | |
|--|---|
| Arm type | Experimental |
| Investigational medicinal product name | Atropinum sulfuricum D5, Hepar sulfuris D3, Kalium bichromicum D4, Silicea D2 and Mercurius bijodatus D8. |
| Investigational medicinal product code | PR1 |
| Other name | Tonsilotren ® |
| Pharmaceutical forms | Tablet |
| Routes of administration | Oral use |

Dosage and administration details:

Tonsilotren was provided to the patients of the test group only. Separate blisters for children (<12 years) and adolescents / adults (≥12 years) were provided. All patients received Tonsilotren tablets during 3 treatment periods (TP I to III) each for 8 weeks: TP I and II were followed each by a 8 weeks follow-up period without Tonsilotren (FU I and II). TP III was followed by a 12 weeks FU III without Tonsilotren.

During the 3 TPs, children took 3 times a day 1 tablet of Tonsilotren whereas adolescents/adults took 3 times a day 2 tablets Tonsilotren.

| | |
|------------------|---------------|
| Arm title | Control group |
|------------------|---------------|

Arm description:

The control group was treated only with conventional symptomatic treatment if needed.

| | |
|---|------------------------------------|
| Arm type | Conventional symptomatic treatment |
| No investigational medicinal product assigned in this arm | |

| Number of subjects in period 1 | Test group | Control group |
|--|------------|---------------|
| Started | 132 | 124 |
| Visit 2 completed (Day 11±3) | 130 | 121 |
| Visit 3 completed (Week 8±1) | 128 | 120 |
| Visit 4 completed (Week 16±1) | 125 | 120 |
| Visit 5 completed (Week 24±1) | 119 | 117 |
| Visit 6 completed (Week 32±1) | 105 | 103 |
| Visit 7 completed (Week 40±1) | 104 | 101 |
| Visit 8 completed (Week 48±1) | 98 | 94 |
| Visit 9 completed (Week 60±1) | 98 | 94 |
| Completed | 98 | 94 |
| Not completed | 34 | 30 |
| Consent withdrawn by subject | 7 | 4 |
| Physician decision | 1 | - |
| Pregnancy | - | 1 |
| Military operations in Eastern part of Ukraine | 13 | 14 |
| Lost to follow-up | 1 | 2 |
| Tonsillectomy or any other surgery in the throat | 1 | 1 |
| Protocol deviation | 11 | 8 |

Baseline characteristics

Reporting groups

| | |
|---|---------------|
| Reporting group title | Test group |
| Reporting group description: The test group received Tonsilotren tablets during Treatment Period I to III each for 8 weeks spread over 14 months and - if needed - conventional symptomatic treatment for chronic tonsillitis. | |
| Reporting group title | Control group |
| Reporting group description: The control group was treated only with conventional symptomatic treatment if needed. | |

| Reporting group values | Test group | Control group | Total |
|--|------------|---------------|-------|
| Number of subjects | 132 | 124 | 256 |
| Age categorical | | | |
| Units: Subjects | | | |
| Children (2-11 years) | 45 | 41 | 86 |
| Adolescents (12-17 years) | 25 | 26 | 51 |
| Adults (18-64 years) | 62 | 57 | 119 |
| Age continuous | | | |
| Age has been recorded as integer number value. | | | |
| Units: years | | | |
| median | 15.5 | 16 | |
| inter-quartile range (Q1-Q3) | 9.5 to 32 | 9 to 31 | - |
| Gender categorical | | | |
| Units: Subjects | | | |
| Female | 86 | 70 | 156 |
| Male | 46 | 54 | 100 |
| ATI baseline frequency | | | |
| Acute throat infections [ATIs] that occurred from 12 months prior to enrolment up to end of Treatment Period I are counted as baseline ATIs. | | | |
| Units: Subjects | | | |
| N=0 | 1 | 0 | 1 |
| N=1 | 1 | 2 | 3 |
| N=2 | 25 | 18 | 43 |
| N=3 | 70 | 57 | 127 |
| N=4 | 26 | 28 | 54 |
| N=5 | 6 | 15 | 21 |
| N=6 | 3 | 2 | 5 |
| N=7 | 0 | 1 | 1 |
| N=8 | 0 | 1 | 1 |

End points

End points reporting groups

| | |
|--|-----------------------------|
| Reporting group title | Test group |
| Reporting group description: The test group received Tonsilotren tablets during Treatment Period I to III each for 8 weeks spread over 14 months and - if needed - conventional symptomatic treatment for chronic tonsillitis. | |
| Reporting group title | Control group |
| Reporting group description: The control group was treated only with conventional symptomatic treatment if needed. | |
| Subject analysis set title | Test group - PP |
| Subject analysis set type | Per protocol |
| Subject analysis set description: Test group patients without major protocol violations are included in the 'Test group - PP' Analysis subset. | |
| Subject analysis set title | Control group - PP |
| Subject analysis set type | Per protocol |
| Subject analysis set description: Control group patients without major protocol violations are included in the 'Control group - PP' Analysis subset. | |
| Subject analysis set title | ATI events - Test group |
| Subject analysis set type | Modified intention-to-treat |
| Subject analysis set description: This analysis set consists of 'ATI events' rather than individual patients. All ATI Events documented between Visit 1 and Termination Visit within test group ITT patients are included in this group. [Note: There were 92 ATI events recorded for 50 test group patients.] | |
| Subject analysis set title | ATI events - Control group |
| Subject analysis set type | Modified intention-to-treat |
| Subject analysis set description: This analysis set consists of 'ATI events' rather than individual patients. All ATI Events documented between Visit 1 and Termination Visit within control group ITT patients are included in this group. [Note: There were 189 ATI events recorded for 87 control group patients.] | |

Primary: Number of documented ATIs

| | |
|---|---------------------------|
| End point title | Number of documented ATIs |
| End point description: | |
| End point type | Primary |
| End point timeframe: Basis are event occurrences observed beyond Visit 3 until the end of study. (Note that any ATI event occurrences prior to Visit 3 have been added to baseline ATI frequencies.) | |

| End point values | Test group | Control group | Test group - PP | Control group - PP |
|-----------------------------|--------------------|--------------------|----------------------|----------------------|
| Subject group type | Reporting group | Reporting group | Subject analysis set | Subject analysis set |
| Number of subjects analysed | 128 ^[1] | 120 ^[2] | 103 | 70 |
| Units: ATI events | | | | |
| No event | 86 | 45 | 67 | 26 |
| One event | 28 | 39 | 25 | 22 |

| | | | | |
|--------------|----|----|---|----|
| Two events | 10 | 16 | 8 | 9 |
| Three events | 0 | 12 | 0 | 10 |
| Four events | 2 | 3 | 1 | 1 |
| Five events | 0 | 2 | 0 | 1 |
| Six events | 2 | 2 | 2 | 1 |
| Seven events | 0 | 1 | 0 | 0 |

Notes:

[1] - Only patients continued beyond Visit 3.

[2] - Only patients continued beyond Visit 3.

| | |
|-----------------------------------|---|
| Attachments (see zip file) | Estimated Overall Survival Curves/Figure_1__C.png |
|-----------------------------------|---|

Statistical analyses

| | |
|-----------------------------------|--|
| Statistical analysis title | Modeling the time between consecutive ATIs |
|-----------------------------------|--|

Statistical analysis description:

An extension of a survival model based on the Cox proportional hazards approach was applied. Multiple ATI events per patient within observational period (if there were any) contributed to proportional means model, which included baseline ATI frequency as further covariable [which was not shown to be statistically significant].

Presented results refer to the treatment arm related effect.

| | |
|---|----------------------------|
| Comparison groups | Test group v Control group |
| Number of subjects included in analysis | 248 |
| Analysis specification | Pre-specified |
| Analysis type | other ^[3] |
| P-value | = 0.0002 |
| Method | Proportional means model |
| Parameter estimate | Hazard ratio (HR) |
| Point estimate | 0.4496 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | 0.297 |
| upper limit | 0.6806 |

Notes:

[3] - Analysis followed an exploratory rather than confirmatory approach.

Presented Hazard ratio [HR] refers to 'Hazard for test group compared to control group'.

| | |
|-----------------------------------|---|
| Statistical analysis title | Modeling the time between consecutive ATIs - PP |
|-----------------------------------|---|

Statistical analysis description:

Basis: Per-protocol patients

An extension of a survival model based on the Cox proportional hazards approach was applied. Multiple ATI events per patient within observational period (if there were any) contributed to proportional means model, which included baseline ATI frequency as further covariable [which was not shown to be statistically significant].

Presented results refer to the treatment arm related effect.

| | |
|---|--------------------------------------|
| Comparison groups | Test group - PP v Control group - PP |
| Number of subjects included in analysis | 173 |
| Analysis specification | Pre-specified |
| Analysis type | other ^[4] |
| P-value | = 0.001 |
| Method | Proportional means model |
| Parameter estimate | Hazard ratio (HR) |
| Point estimate | 0.4559 |

| | |
|---------------------|---------|
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | 0.2846 |
| upper limit | 0.7306 |

Notes:

[4] - Analysis followed an exploratory rather than confirmatory approach.
Presented Hazard ratio [HR] refers to 'Hazard for test group compared to control group'.

| | |
|-----------------------------------|---|
| Statistical analysis title | Proportions of patients with at least 1 ATI |
|-----------------------------------|---|

Statistical analysis description:

Analysis is based on comparison of treatment arms regarding binary categorization of patients with either 'No ATI event' or 'At least one ATI event' observed within considered timeframe.

| | |
|---|----------------------------|
| Comparison groups | Test group v Control group |
| Number of subjects included in analysis | 248 |
| Analysis specification | Pre-specified |
| Analysis type | other ^[5] |
| P-value | < 0.0001 ^[6] |
| Method | Chi-squared |
| Parameter estimate | Risk difference (RD) |
| Point estimate | -29.7 |

Confidence interval

| | |
|-------------|---------|
| level | 95 % |
| sides | 2-sided |
| lower limit | -41.57 |
| upper limit | -17.81 |

Notes:

[5] - Analysis followed an exploratory rather than confirmatory approach.

[6] - The presented risk difference refers to the difference of proportions [%] of patients with at least one ATI event considering 'Test - Control'. I.e. a negative value indicates less patients with ATI in test group compared to control group.

| | |
|-----------------------------------|--|
| Statistical analysis title | Proportions of patients with at least 1 ATI - PP |
|-----------------------------------|--|

Statistical analysis description:

Basis: Per-protocol patients

Analysis is based on comparison of treatment arms regarding binary categorization of patients with either 'No ATI event' or 'At least one ATI event' observed within considered timeframe.

| | |
|---|--------------------------------------|
| Comparison groups | Test group - PP v Control group - PP |
| Number of subjects included in analysis | 173 |
| Analysis specification | Pre-specified |
| Analysis type | other ^[7] |
| P-value | = 0.0003 ^[8] |
| Method | Chi-squared |
| Parameter estimate | Risk difference (RD) |
| Point estimate | -27.9 |

Confidence interval

| | |
|-------------|---------|
| level | 95 % |
| sides | 2-sided |
| lower limit | -42.5 |
| upper limit | -13.31 |

Notes:

[7] - Analysis followed an exploratory rather than confirmatory approach.

[8] - The presented risk difference refers to the difference of proportions [%] of patients with at least one ATI event considering 'Test - Control'. I.e. a negative value indicates less patients with ATI in test group compared to control group.

| | |
|---|---------------------------------------|
| Statistical analysis title | Sensitivity model: Poisson regression |
| Statistical analysis description: | |
| Analysis of ATI event occurrences in terms of count-data has been additionally assessed via Poisson regression modelling. As a result event rates (Test=0.5946 [events/year] Control=1.3401[events/year]) and 'estimated time to event' (Test=613.8 [days] Control=272.4[days]), respectively, have been calculated from estimated treatment specific least | |
| Comparison groups | Control group v Test group |
| Number of subjects included in analysis | 248 |
| Analysis specification | Pre-specified |
| Analysis type | other ^[9] |
| P-value | = 0.0003 ^[10] |
| Method | Poisson Regression [GEE] |
| Parameter estimate | Risk ratio (RR) |
| Point estimate | 0.4437 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | 0.2867 |
| upper limit | 0.6868 |

Notes:

[9] - Analysis followed an exploratory rather than confirmatory approach. Poisson regression model was intended as a sensitivity analysis.

[10] - Relative risk [RR] refers to 'Test/Control'. I.e. the statistically significant finding and referring RR value below '1' indicates less ATI in test group compared to control group. Thus, sensitivity analysis confirms primary analysis findings.

Secondary: Standardized number of days with any chronic tonsillitis symptom - per diary period

| | |
|--|---|
| End point title | Standardized number of days with any chronic tonsillitis symptom - per diary period |
| End point description: | |
| Patients were asked to report their suffering of chronic tonsillitis symptoms on a weekly basis retrospectively for each day in a diary. The standardized number of days, which is the ratio of days with presence of any symptom divided by the total number of days recorded in a diary period, was evaluated. | |
| End point type | Secondary |
| End point timeframe: | |
| Following diary periods are considered (the number of patients differs between periods - depending on individual drop out [see subject disposition]): | |
| T I: V1 to V3 | |
| FU I: V3 to V4 | |
| T II: V4 to V5 | |
| FU II: V5 to V6 | |
| T III: V6 to V7 | |
| FU III: V7 to V9 | |

| End point values | Test group | Control group | | |
|---------------------------------------|------------------------|------------------------|--|--|
| Subject group type | Reporting group | Reporting group | | |
| Number of subjects analysed | 131 ^[11] | 123 ^[12] | | |
| Units: proportion of total diary days | | | | |
| median (inter-quartile range (Q1-Q3)) | | | | |
| Diary period T I | 0.214 (0.107 to 0.436) | 0.393 (0.224 to 0.615) | | |
| Diary period FU I | 0.179 (0.092 to 0.276) | 0.328 (0.179 to 0.589) | | |
| Diary period T II | 0.143 (0.081 to 0.229) | 0.298 (0.148 to 0.576) | | |
| Diary period FU II | 0.113 (0.054 to 0.246) | 0.268 (0.107 to 0.582) | | |
| Diary period T III | 0.107 (0.052 to 0.2) | 0.21 (0.1 to 0.5) | | |
| Diary period FU III | 0.113 (0.057 to 0.2) | 0.227 (0.1 to 0.529) | | |

Notes:

[11] - 1 Patient excluded due to no post-baseline data.

Number of patients varies between diary periods.

[12] - 1 Patient excluded due to no post-baseline data.

Number of patients varies between diary periods.

Statistical analyses

| Statistical analysis title | Diary period 'T I' - days with any symptom |
|--|--|
| Statistical analysis description: | |
| Analysis is based on comparison of treatment arms regarding the fraction of days with documented suffering from any chronic tonsillitis symptoms as obtained from patients' diaries. | |
| Basis: Diary period T I (Visit 1 to Visit 3) | |
| Number of patients with data in this period: 254 (Test group:131 Control group: 123). | |
| Comparison groups | Test group v Control group |
| Number of subjects included in analysis | 254 |
| Analysis specification | Pre-specified |
| Analysis type | other ^[13] |
| P-value | < 0.0001 ^[14] |
| Method | Wilcoxon (Mann-Whitney) |
| Parameter estimate | Hodges Lehman estimate of location shift |
| Point estimate | -0.143 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | -0.202 |
| upper limit | -0.079 |

Notes:

[13] - Analysis followed an exploratory rather than confirmatory approach.

[14] - The presented location shift refers to the difference 'Test -Control'. I.e. the statistically significant finding and referring negative value indicate patients in test group less frequently suffering from any chronic tonsillitis symptoms.

| Statistical analysis title | Diary period 'FU I' - days with any symptom |
|--|---|
| Statistical analysis description: | |
| Analysis is based on comparison of treatment arms regarding the fraction of days with documented suffering from any chronic tonsillitis symptoms as obtained from patients' diaries. | |
| Basis: Diary period FU I (Visit 3 to Visit 4) | |
| Number of patients with data in this period: 248 (Test group:128 Control group: 120). | |

| | |
|---|--|
| Comparison groups | Test group v Control group |
| Number of subjects included in analysis | 254 |
| Analysis specification | Pre-specified |
| Analysis type | other ^[15] |
| P-value | < 0.0001 ^[16] |
| Method | Wilcoxon (Mann-Whitney) |
| Parameter estimate | Hodges Lehman estimate of location shift |
| Point estimate | -0.15 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | -0.212 |
| upper limit | -0.095 |

Notes:

[15] - Analysis followed an exploratory rather than confirmatory approach.

[16] - The presented location shift refers to the difference 'Test -Control'. I.e. the statistically significant finding and referring negative value indicate patients in test group less frequently suffering from any chronic tonsillitis symptoms.

| | |
|-----------------------------------|---|
| Statistical analysis title | Diary period 'T II' - days with any symptom |
|-----------------------------------|---|

Statistical analysis description:

Analysis is based on comparison of treatment arms regarding the fraction of days with documented suffering from any chronic tonsillitis symptoms as obtained from patients' diaries.

Basis: Diary period T II (Visit 4 to Visit 5)

Number of patients with data in this period: 241 (Test group:124 | Control group: 117).

| | |
|---|--|
| Comparison groups | Test group v Control group |
| Number of subjects included in analysis | 254 |
| Analysis specification | Pre-specified |
| Analysis type | other ^[17] |
| P-value | < 0.0001 ^[18] |
| Method | Wilcoxon (Mann-Whitney) |
| Parameter estimate | Hodges Lehman estimate of location shift |
| Point estimate | -0.143 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | -0.2 |
| upper limit | -0.089 |

Notes:

[17] - Analysis followed an exploratory rather than confirmatory approach.

[18] - The presented location shift refers to the difference 'Test -Control'. I.e. the statistically significant finding and referring negative value indicate patients in test group less frequently suffering from any chronic tonsillitis symptoms.

| | |
|-----------------------------------|--|
| Statistical analysis title | Diary period 'FU II' - days with any symptom |
|-----------------------------------|--|

Statistical analysis description:

Analysis is based on comparison of treatment arms regarding the fraction of days with documented suffering from any chronic tonsillitis symptoms as obtained from patients' diaries.

Basis: Diary period FU II (Visit 5 to Visit 6)

Number of patients with data in this period: 230 (Test group:115| Control group: 115).

| | |
|-------------------|----------------------------|
| Comparison groups | Test group v Control group |
|-------------------|----------------------------|

| | |
|---|--|
| Number of subjects included in analysis | 254 |
| Analysis specification | Pre-specified |
| Analysis type | other ^[19] |
| P-value | < 0.0001 ^[20] |
| Method | Wilcoxon (Mann-Whitney) |
| Parameter estimate | Hodges Lehman estimate of location shift |
| Point estimate | -0.119 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | -0.19 |
| upper limit | -0.069 |

Notes:

[19] - Analysis followed an exploratory rather than confirmatory approach.

[20] - The presented location shift refers to the difference 'Test -Control'. I.e. the statistically significant finding and referring negative value indicate patients in test group less frequently suffering from any chronic tonsillitis symptoms.

| | |
|-----------------------------------|--|
| Statistical analysis title | Diary period 'T III' - days with any symptom |
|-----------------------------------|--|

Statistical analysis description:

Analysis is based on comparison of treatment arms regarding the fraction of days with documented suffering from any chronic tonsillitis symptoms as obtained from patients' diaries.

Basis: Diary period T III (Visit 6 to Visit 7)

Number of patients with data in this period: 226 (Test group:114 | Control group: 112).

| | |
|---|--|
| Comparison groups | Test group v Control group |
| Number of subjects included in analysis | 254 |
| Analysis specification | Pre-specified |
| Analysis type | other ^[21] |
| P-value | < 0.0001 ^[22] |
| Method | Wilcoxon (Mann-Whitney) |
| Parameter estimate | Hodges Lehman estimate of location shift |
| Point estimate | -0.102 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | -0.164 |
| upper limit | -0.054 |

Notes:

[21] - Analysis followed an exploratory rather than confirmatory approach.

[22] - The presented location shift refers to the difference 'Test -Control'. I.e. the statistically significant finding and referring negative value indicate patients in test group less frequently suffering from any chronic tonsillitis symptoms.

| | |
|-----------------------------------|---|
| Statistical analysis title | Diary period 'FU III' - days with any symptom |
|-----------------------------------|---|

Statistical analysis description:

Analysis is based on comparison of treatment arms regarding the fraction of days with documented suffering from any chronic tonsillitis symptoms as obtained from patients' diaries.

Basis: Diary period FU III (Visit 7 to Visit 9)

Number of patients with data in this period: 211 (Test group:107 | Control group: 104).

| | |
|-------------------|----------------------------|
| Comparison groups | Test group v Control group |
|-------------------|----------------------------|

| | |
|---|--|
| Number of subjects included in analysis | 254 |
| Analysis specification | Pre-specified |
| Analysis type | other ^[23] |
| P-value | < 0.0001 ^[24] |
| Method | Wilcoxon (Mann-Whitney) |
| Parameter estimate | Hodges Lehman estimate of location shift |
| Point estimate | -0.111 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | -0.181 |
| upper limit | -0.062 |

Notes:

[23] - Analysis followed an exploratory rather than confirmatory approach.

[24] - The presented location shift refers to the difference 'Test -Control'. I.e. the statistically significant finding and referring negative value indicate patients in test group less frequently suffering from any chronic tonsillitis symptoms.

Secondary: Number of documented upper respiratory tract infections [URTIs]

| | |
|-----------------|---|
| End point title | Number of documented upper respiratory tract infections [URTIs] |
|-----------------|---|

End point description:

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

End point timeframe:

Basis are event occurrences observed beyond Visit 3 until the end of study. (Note that any URTI event occurrences prior to Visit 3 have been added to baseline URTI frequencies.)

| End point values | Test group | Control group | | |
|-----------------------------|---------------------|---------------------|--|--|
| Subject group type | Reporting group | Reporting group | | |
| Number of subjects analysed | 128 ^[25] | 120 ^[26] | | |
| Units: URTI events | | | | |
| No event | 101 | 71 | | |
| One event | 21 | 34 | | |
| Two events | 3 | 12 | | |
| Three events | 3 | 2 | | |
| Four events | 0 | 1 | | |

Notes:

[25] - Only patients continued beyond Visit 3.

[26] - Only patients continued beyond Visit 3.

Statistical analyses

| | |
|----------------------------|--|
| Statistical analysis title | Proportions of patients with at least 1 URTI |
|----------------------------|--|

Statistical analysis description:

Analysis is based on comparison of treatment arms regarding binary categorization of patients with either 'No URTI event' or 'At least one URTI event' observed within considered timeframe.

| | |
|-------------------|----------------------------|
| Comparison groups | Test group v Control group |
|-------------------|----------------------------|

| | |
|---|--------------------------|
| Number of subjects included in analysis | 248 |
| Analysis specification | Pre-specified |
| Analysis type | other ^[27] |
| P-value | = 0.0008 ^[28] |
| Method | Chi-squared |
| Parameter estimate | Risk difference (RD) |
| Point estimate | -19.7 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | -31.02 |
| upper limit | -8.46 |

Notes:

[27] - Analysis followed an exploratory rather than confirmatory approach.

[28] - The presented risk difference refers to the difference of proportions [%] of patients with at least one URTI event considering 'Test -Control'. I.e. a negative value indicates less patients with URTI in test group compared to control group.

Secondary: Presence / Absence of chronic tonsillitis symptoms per visit (investigators assessment)

| | |
|-----------------|---|
| End point title | Presence / Absence of chronic tonsillitis symptoms per visit (investigators assessment) |
|-----------------|---|

End point description:

During the study, the following 7 chronic tonsillitis-specific symptoms were evaluated by the investigator by checking the presence and intensity (3-items scale: absent, mild, severe) at each regular study visit (Visit 1 [Baseline Visit] to Visit 9):

- Difficulties in swallowing / sore throat;
- Bad breath and / or taste in mouth (halitosis);
- Hyperemia of the anterior palatine arches;
- Edema of angle where the anterior and posterior palatine arches join each other;
- Caseous purulent plug and / or purulent exudates in the tonsillar crypts;
- Friable tonsils or indurated tonsils or scarred adhesions between the tonsils and the palatine arches;
- Enlarged submandibular lymph nodes.

Presented "number of present symptoms at visit" does not refer to the symptom intensities but sums up the number of symptoms recorded to be present within a patient.

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

End point timeframe:

All regular study visits.

Note: Data presented for "Visit 9" refers to either regular Visit 9 (Week 60±1) or early Termination Visit.

| End point values | Test group | Control group | | |
|--|---------------------|---------------------|--|--|
| Subject group type | Reporting group | Reporting group | | |
| Number of subjects analysed | 131 ^[29] | 123 ^[30] | | |
| Units: Number of present symptoms at visit | | | | |
| Visit 1: No symptoms | 0 | 0 | | |
| Visit 1: 1 symptom | 0 | 0 | | |
| Visit 1: 2 symptoms | 0 | 0 | | |
| Visit 1: 3 symptoms | 3 | 2 | | |
| Visit 1: 4 symptoms | 12 | 12 | | |
| Visit 1: 5 symptoms | 22 | 29 | | |

| | | | | |
|----------------------|----|----|--|--|
| Visit 1: 6 symptoms | 36 | 30 | | |
| Visit 1: 7 symptoms | 57 | 50 | | |
| Visit 2: No symptoms | 1 | 0 | | |
| Visit 2: 1 symptom | 3 | 1 | | |
| Visit 2: 2 symptoms | 7 | 3 | | |
| Visit 2: 3 symptoms | 11 | 12 | | |
| Visit 2: 4 symptoms | 13 | 13 | | |
| Visit 2: 5 symptoms | 43 | 26 | | |
| Visit 2: 6 symptoms | 25 | 23 | | |
| Visit 2: 7 symptoms | 27 | 43 | | |
| Visit 3: No symptoms | 2 | 1 | | |
| Visit 3: 1 symptom | 9 | 6 | | |
| Visit 3: 2 symptoms | 13 | 5 | | |
| Visit 3: 3 symptoms | 32 | 14 | | |
| Visit 3: 4 symptoms | 23 | 10 | | |
| Visit 3: 5 symptoms | 16 | 19 | | |
| Visit 3: 6 symptoms | 14 | 17 | | |
| Visit 3: 7 symptoms | 19 | 48 | | |
| Visit 4: No symptoms | 2 | 1 | | |
| Visit 4: 1 symptom | 11 | 4 | | |
| Visit 4: 2 symptoms | 16 | 2 | | |
| Visit 4: 3 symptoms | 27 | 19 | | |
| Visit 4: 4 symptoms | 21 | 15 | | |
| Visit 4: 5 symptoms | 16 | 16 | | |
| Visit 4: 6 symptoms | 13 | 10 | | |
| Visit 4: 7 symptoms | 19 | 53 | | |
| Visit 5: No symptoms | 3 | 0 | | |
| Visit 5: 1 symptom | 11 | 4 | | |
| Visit 5: 2 symptoms | 43 | 13 | | |
| Visit 5: 3 symptoms | 26 | 10 | | |
| Visit 5: 4 symptoms | 16 | 18 | | |
| Visit 5: 5 symptoms | 10 | 14 | | |
| Visit 5: 6 symptoms | 5 | 14 | | |
| Visit 5: 7 symptoms | 5 | 44 | | |
| Visit 6: No symptoms | 4 | 0 | | |
| Visit 6: 1 symptom | 7 | 0 | | |
| Visit 6: 2 symptoms | 29 | 10 | | |
| Visit 6: 3 symptoms | 23 | 12 | | |
| Visit 6: 4 symptoms | 14 | 13 | | |
| Visit 6: 5 symptoms | 7 | 22 | | |
| Visit 6: 6 symptoms | 7 | 12 | | |
| Visit 6: 7 symptoms | 14 | 34 | | |
| Visit 7: No symptoms | 25 | 3 | | |
| Visit 7: 1 symptom | 8 | 3 | | |
| Visit 7: 2 symptoms | 29 | 10 | | |
| Visit 7: 3 symptoms | 13 | 12 | | |
| Visit 7: 4 symptoms | 9 | 14 | | |
| Visit 7: 5 symptoms | 14 | 15 | | |
| Visit 7: 6 symptoms | 3 | 18 | | |
| Visit 7: 7 symptoms | 3 | 26 | | |
| Visit 8: No symptoms | 23 | 1 | | |
| Visit 8: 1 symptom | 8 | 1 | | |

| | | | | |
|----------------------|----|----|--|--|
| Visit 8: 2 symptoms | 22 | 6 | | |
| Visit 8: 3 symptoms | 14 | 9 | | |
| Visit 8: 4 symptoms | 10 | 9 | | |
| Visit 8: 5 symptoms | 12 | 17 | | |
| Visit 8: 6 symptoms | 7 | 21 | | |
| Visit 8: 7 symptoms | 2 | 30 | | |
| Visit 9: No symptoms | 21 | 3 | | |
| Visit 9: 1 symptom | 23 | 4 | | |
| Visit 9: 2 symptoms | 32 | 13 | | |
| Visit 9: 3 symptoms | 20 | 10 | | |
| Visit 9: 4 symptoms | 15 | 28 | | |
| Visit 9: 5 symptoms | 10 | 7 | | |
| Visit 9: 6 symptoms | 5 | 15 | | |
| Visit 9: 7 symptoms | 5 | 43 | | |

Notes:

[29] - 1 Patient excluded due to no post-baseline data.

Number of patients varies between visits.

[30] - 1 Patient excluded due to no post-baseline data.

Number of patients varies between visits.

Statistical analyses

| Statistical analysis title | Visit 1: Number of present symptoms |
|----------------------------|-------------------------------------|
|----------------------------|-------------------------------------|

Statistical analysis description:

Analysis is based on comparison of treatment arms regarding the number of present symptoms at visit as determined by the treating physician.

Basis: Visit 1 records

Number considered patients with symptom assessment data at this visit: 253 (Test group: 130 | Control group: 123).

| | |
|---|--|
| Comparison groups | Test group v Control group |
| Number of subjects included in analysis | 254 |
| Analysis specification | Pre-specified |
| Analysis type | other ^[31] |
| P-value | = 0.463 ^[32] |
| Method | Wilcoxon (Mann-Whitney) |
| Parameter estimate | Hodges Lehman estimate of Location Shift |
| Point estimate | 0 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | 0 |
| upper limit | 0 |

Notes:

[31] - Analysis followed an exploratory rather than confirmatory approach.

[32] - The presented location shift refers to the difference in number of present symptoms 'Test - Control'. No statistically significant could be detected at current visit.

| Statistical analysis title | Visit 2: Number of present symptoms |
|----------------------------|-------------------------------------|
|----------------------------|-------------------------------------|

Statistical analysis description:

Analysis is based on comparison of treatment arms regarding the number of present symptoms at visit as determined by the treating physician.

Basis: Visit 2 records

Number considered patients with symptom assessment data at this visit: 251 (Test group: 130 | Control group: 121).

| | |
|---|--|
| Comparison groups | Test group v Control group |
| Number of subjects included in analysis | 254 |
| Analysis specification | Pre-specified |
| Analysis type | other ^[33] |
| P-value | = 0.0214 ^[34] |
| Method | Wilcoxon (Mann-Whitney) |
| Parameter estimate | Hodges Lehman estimate of Location Shift |
| Point estimate | 0 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | -1 |
| upper limit | 0 |

Notes:

[33] - Analysis followed an exploratory rather than confirmatory approach.

[34] - The presented location shift refers to the difference in number of present symptoms 'Test - Control'. A p-value <0.05 indicates statistically significant differences. There is a lower number of present symptoms in test group compared to control group.

| | |
|-----------------------------------|-------------------------------------|
| Statistical analysis title | Visit 3: Number of present symptoms |
|-----------------------------------|-------------------------------------|

Statistical analysis description:

Analysis is based on comparison of treatment arms regarding the number of present symptoms at visit as determined by the treating physician.

Basis: Visit 3 records

Number considered patients with symptom assessment data at this visit: 248 (Test group: 128 | Control group: 120).

| | |
|---|--|
| Comparison groups | Test group v Control group |
| Number of subjects included in analysis | 254 |
| Analysis specification | Pre-specified |
| Analysis type | other ^[35] |
| P-value | < 0.0001 ^[36] |
| Method | Wilcoxon (Mann-Whitney) |
| Parameter estimate | Hodges Lehman estimate of Location Shift |
| Point estimate | -1 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | -2 |
| upper limit | -1 |

Notes:

[35] - Analysis followed an exploratory rather than confirmatory approach.

[36] - The presented location shift refers to the difference in number of present symptoms 'Test - Control'. A p-value <0.05 indicates statistically significant differences. There is a lower number of present symptoms in test group compared to control group.

| | |
|-----------------------------------|-------------------------------------|
| Statistical analysis title | Visit 4: Number of present symptoms |
|-----------------------------------|-------------------------------------|

Statistical analysis description:

Analysis is based on comparison of treatment arms regarding the number of present symptoms at visit as determined by the treating physician.

Basis: Visit 4 records

Number considered patients with symptom assessment data at this visit: 245 (Test group: 125 | Control group: 120).

| | |
|-------------------|----------------------------|
| Comparison groups | Test group v Control group |
|-------------------|----------------------------|

| | |
|---|--|
| Number of subjects included in analysis | 254 |
| Analysis specification | Pre-specified |
| Analysis type | other ^[37] |
| P-value | < 0.0001 ^[38] |
| Method | Wilcoxon (Mann-Whitney) |
| Parameter estimate | Hodges Lehman estimate of Location Shift |
| Point estimate | -1 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | -2 |
| upper limit | -1 |

Notes:

[37] - Analysis followed an exploratory rather than confirmatory approach.

[38] - The presented location shift refers to the difference in number of present symptoms 'Test - Control'. A p-value <0.05 indicates statistically significant differences. There is a lower number of present symptoms in test group compared to control group.

| | |
|-----------------------------------|-------------------------------------|
| Statistical analysis title | Visit 5: Number of present symptoms |
|-----------------------------------|-------------------------------------|

Statistical analysis description:

Analysis is based on comparison of treatment arms regarding the number of present symptoms at visit as determined by the treating physician.

Basis: Visit 5 records

Number considered patients with symptom assessment data at this visit: 236 (Test group: 119 | Control group: 117).

| | |
|---|--|
| Comparison groups | Test group v Control group |
| Number of subjects included in analysis | 254 |
| Analysis specification | Pre-specified |
| Analysis type | other ^[39] |
| P-value | < 0.0001 ^[40] |
| Method | Wilcoxon (Mann-Whitney) |
| Parameter estimate | Hodges Lehman estimate of Location Shift |
| Point estimate | -2 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | -3 |
| upper limit | -2 |

Notes:

[39] - Analysis followed an exploratory rather than confirmatory approach.

[40] - The presented location shift refers to the difference in number of present symptoms 'Test - Control'. A p-value <0.05 indicates statistically significant differences. There is a lower number of present symptoms in test group compared to control group.

| | |
|-----------------------------------|-------------------------------------|
| Statistical analysis title | Visit 6: Number of present symptoms |
|-----------------------------------|-------------------------------------|

Statistical analysis description:

Analysis is based on comparison of treatment arms regarding the number of present symptoms at visit as determined by the treating physician.

Basis: Visit 6 records

Number considered patients with symptom assessment data at this visit: 208 (Test group: 105 | Control group: 103).

| | |
|-------------------|----------------------------|
| Comparison groups | Test group v Control group |
|-------------------|----------------------------|

| | |
|---|--|
| Number of subjects included in analysis | 254 |
| Analysis specification | Pre-specified |
| Analysis type | other ^[41] |
| P-value | < 0.0001 ^[42] |
| Method | Wilcoxon (Mann-Whitney) |
| Parameter estimate | Hodges Lehman estimate of Location Shift |
| Point estimate | -2 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | -2 |
| upper limit | -1 |

Notes:

[41] - Analysis followed an exploratory rather than confirmatory approach.

[42] - The presented location shift refers to the difference in number of present symptoms 'Test - Control'. A p-value <0.05 indicates statistically significant differences. There is a lower number of present symptoms in test group compared to control group.

| | |
|-----------------------------------|-------------------------------------|
| Statistical analysis title | Visit 7: Number of present symptoms |
|-----------------------------------|-------------------------------------|

Statistical analysis description:

Analysis is based on comparison of treatment arms regarding the number of present symptoms at visit as determined by the treating physician.

Basis: Visit 7 records

Number considered patients with symptom assessment data at this visit: 205 (Test group: 104 | Control group: 101).

| | |
|---|--|
| Comparison groups | Test group v Control group |
| Number of subjects included in analysis | 254 |
| Analysis specification | Pre-specified |
| Analysis type | other ^[43] |
| P-value | < 0.0001 ^[44] |
| Method | Wilcoxon (Mann-Whitney) |
| Parameter estimate | Hodges Lehman estimate of Location Shift |
| Point estimate | -2 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | -3 |
| upper limit | -2 |

Notes:

[43] - Analysis followed an exploratory rather than confirmatory approach.

[44] - The presented location shift refers to the difference in number of present symptoms 'Test - Control'. A p-value <0.05 indicates statistically significant differences. There is a lower number of present symptoms in test group compared to control group.

| | |
|-----------------------------------|-------------------------------------|
| Statistical analysis title | Visit 8: Number of present symptoms |
|-----------------------------------|-------------------------------------|

Statistical analysis description:

Analysis is based on comparison of treatment arms regarding the number of present symptoms at visit as determined by the treating physician.

Basis: Visit 8 records

Number considered patients with symptom assessment data at this visit: 192 (Test group: 98| Control group: 94).

| | |
|-------------------|----------------------------|
| Comparison groups | Test group v Control group |
|-------------------|----------------------------|

| | |
|---|--|
| Number of subjects included in analysis | 254 |
| Analysis specification | Pre-specified |
| Analysis type | other ^[45] |
| P-value | < 0.0001 ^[46] |
| Method | Wilcoxon (Mann-Whitney) |
| Parameter estimate | Hodges Lehman estimate of Location Shift |
| Point estimate | -3 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | -3 |
| upper limit | -2 |

Notes:

[45] - Analysis followed an exploratory rather than confirmatory approach.

[46] - The presented location shift refers to the difference in number of present symptoms 'Test - Control'. A p-value <0.05 indicates statistically significant differences. There is a lower number of present symptoms in test group compared to control group.

| | |
|-----------------------------------|-------------------------------------|
| Statistical analysis title | Visit 9: Number of present symptoms |
|-----------------------------------|-------------------------------------|

Statistical analysis description:

Analysis is based on comparison of treatment arms regarding the number of present symptoms at visit as determined by the treating physician.

Basis: Visit 9 records [Regular visit (Week 60±1) or early Termination Visit]

Number considered patients with symptom assessment data at this visit: 254 (Test group: 131| Control group: 123).

| | |
|---|--|
| Comparison groups | Test group v Control group |
| Number of subjects included in analysis | 254 |
| Analysis specification | Pre-specified |
| Analysis type | other ^[47] |
| P-value | < 0.0001 ^[48] |
| Method | Wilcoxon (Mann-Whitney) |
| Parameter estimate | Hodges Lehman estimate of Location Shift |
| Point estimate | -3 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | -3 |
| upper limit | -2 |

Notes:

[47] - Analysis followed an exploratory rather than confirmatory approach.

[48] - The presented location shift refers to the difference in number of present symptoms 'Test - Control'. A p-value <0.05 indicates statistically significant differences. There is a lower number of present symptoms in test group compared to control group.

Secondary: ATI treated with antibiotics

| | |
|-----------------|------------------------------|
| End point title | ATI treated with antibiotics |
|-----------------|------------------------------|

End point description:

Within observed ATI events, distinction has been made with respect to 'treatment with antibiotics'. Basis for this analysis are (i) recorded ATI events as well as (ii) patients with at least one ATI event.
[Note: In case of multiple ATI Events per patient, a patient has been counted as 'treated with antibiotics' (due to ATI), if there was at least one of his/her ATIs treated with antibiotics.]

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

End point timeframe:

Whole study period (i.e. from Day 0 until Termination Visit).

| End point values | Test group | Control group | ATI events - Test group | ATI events - Control group |
|---------------------------------|--------------------|--------------------|-------------------------|----------------------------|
| Subject group type | Reporting group | Reporting group | Subject analysis set | Subject analysis set |
| Number of subjects analysed | 50 ^[49] | 87 ^[50] | 92 | 189 |
| Units: Patients Events | | | | |
| Treated with antibiotics | 26 | 59 | 34 | 110 |
| No antibiotic treatment applied | 24 | 28 | 58 | 79 |

Notes:

[49] - Only patients with at least one ATI event are considered.

[50] - Only patients with at least one ATI event are considered.

Statistical analyses

| Statistical analysis title | ATI events treated with antibiotics |
|--|--|
| Statistical analysis description: | |
| Analysis is based on comparison of treatment arms' ATI events regarding binary categorization of events with either 'No antibiotic treatment applied' or 'Antibiotic treatment'. | |
| Comparison groups | ATI events - Test group v ATI events - Control group |
| Number of subjects included in analysis | 281 |
| Analysis specification | Pre-specified |
| Analysis type | other ^[51] |
| P-value | = 0.0008 ^[52] |
| Method | Chi-squared |
| Parameter estimate | Risk difference (RD) |
| Point estimate | -21.2 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | -33.36 |
| upper limit | -9.13 |

Notes:

[51] - Analysis followed an exploratory rather than confirmatory approach.

[52] - Risk difference refers to the difference of proportions [%] of ATI events "treated with antibiotics" considering the direction 'Test -Control'. I.e. a negative value indicates less events treated with antibiotics in test compared to control group.

| Statistical analysis title | Patients with ATI treated with antibiotics |
|---|--|
| Statistical analysis description: | |
| Analysis is based on comparison of patients with at least one ATI event. The proportions of patients with 'at least one ATI with antibiotic treatment' and 'All ATI events not treated with antibiotics' are compared between treatment arms. | |
| Comparison groups | Test group v Control group |
| Number of subjects included in analysis | 137 |
| Analysis specification | Pre-specified |
| Analysis type | other ^[53] |
| P-value | = 0.0663 ^[54] |
| Method | Chi-squared |
| Parameter estimate | Risk difference (RD) |
| Point estimate | -15.8 |

| | |
|---------------------|---------|
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | -32.79 |
| upper limit | 1.16 |

Notes:

[53] - Analysis followed an exploratory rather than confirmatory approach.

[54] - Presented risk difference refers to the difference of proportions [%] of "patient with at least 1 ATI treated with antibiotics" 'Test -Control'. The difference is not statistically significant at alpha=0.05 level.

Secondary: ATI treated with analgesics

| | |
|-----------------|-----------------------------|
| End point title | ATI treated with analgesics |
|-----------------|-----------------------------|

End point description:

Within observed ATI events, distinction has been made with respect to 'treatment with analgesics'. Basis for this analysis are (i) recorded ATI events as well as (ii) patients with at least one ATI event. [Note: In case of multiple ATI events per patient, a patient has been counted as 'treated with analgesics' (due to ATI), if there was at least one of his/her ATIs treated with analgesics.]

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

End point timeframe:

Whole study period (i.e. from Day 0 until Termination Visit).

| End point values | Test group | Control group | ATI events - Test group | ATI events - Control group |
|--------------------------------|--------------------|--------------------|-------------------------|----------------------------|
| Subject group type | Reporting group | Reporting group | Subject analysis set | Subject analysis set |
| Number of subjects analysed | 50 ^[55] | 87 ^[56] | 92 | 189 |
| Units: Patients Events | | | | |
| Treated with analgesics | 34 | 67 | 57 | 125 |
| No analgesic treatment applied | 16 | 20 | 35 | 64 |

Notes:

[55] - Only patients with at least one ATI event are considered.

[56] - Only patients with at least one ATI event are considered.

Statistical analyses

| | |
|----------------------------|------------------------------------|
| Statistical analysis title | ATI events treated with analgesics |
|----------------------------|------------------------------------|

Statistical analysis description:

Analysis is based on comparison of treatment arms' ATI events regarding binary categorization of events with either 'No analgesic treatment applied' or 'Analgesic treatment'.

| | |
|---|--|
| Comparison groups | ATI events - Test group v ATI events - Control group |
| Number of subjects included in analysis | 281 |
| Analysis specification | Pre-specified |
| Analysis type | other ^[57] |
| P-value | = 0.4911 ^[58] |
| Method | Chi-squared |
| Parameter estimate | Risk difference (RD) |
| Point estimate | -4.2 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | -16.18 |
| upper limit | 7.82 |

Notes:

[57] - Analysis followed an exploratory rather than confirmatory approach.

[58] - Presented risk difference refers to the difference of proportions [%] of ATI events "treated with analgesics" considering the direction 'Test -Control'. No statistically significant difference was detected.

| | |
|---|---|
| Statistical analysis title | Patients with ATI treated with analgesics |
| Statistical analysis description: | |
| Analysis is based on comparison of patients with at least one ATI event. The proportions of patients with 'at least one ATI with analgesic treatment' and 'All ATI events not treated with analgesics' are compared between treatment arms. | |
| Comparison groups | Test group v Control group |
| Number of subjects included in analysis | 137 |
| Analysis specification | Pre-specified |
| Analysis type | other ^[59] |
| P-value | = 0.2486 ^[60] |
| Method | Chi-squared |
| Parameter estimate | Risk difference (RD) |
| Point estimate | -9 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | -24.68 |
| upper limit | 6.65 |

Notes:

[59] - Analysis followed an exploratory rather than confirmatory approach.

[60] - Presented risk difference refers to the difference of proportions [%] of "patient with at least 1 ATI treated with analgesics" 'Test -Control'. The difference is not statistically significant at alpha=0.05 level.

Secondary: Number of days with consumption of analgesics due to ATI

| | |
|---|--|
| End point title | Number of days with consumption of analgesics due to ATI |
| End point description: | |
| Within observed ATI events, distinction has been made with respect to 'treatment with analgesics' (see secondary endpoint "ATI treated with analgesics"). The number of days with consumption of analgesics has been evaluated, based on the documented start and end dates of documented analgesics consumption within ATI event occurrence. | |
| End point type | Secondary |
| End point timeframe: | |
| Whole study period (i.e. from Day 0 until Termination Visit). | |

| | | | | |
|---------------------------------------|----------------------------|-------------------------------|--|--|
| End point values | ATI events - Test group | ATI events - Control group | | |
| Subject group type | Subject analysis set | Subject analysis set | | |
| Number of subjects analysed | 57 ^[61] | 125 ^[62] | | |
| Units: Days | | | | |
| median (inter-quartile range (Q1-Q3)) | 5 (3 to 6) | 5 (4 to 7) | | |

Notes:

[61] - Only "treated" events are considered.

[62] - Only "treated" events are considered.

Statistical analyses

| | |
|---|--|
| Statistical analysis title | Days with consumption of analgesics due to ATI |
| Statistical analysis description: | |
| The number of days treated with analgesics due to ATI has been compared between test and control group ATI event occurrences, where only ATI events treated with analgesics have been considered (Test group: 57 Control group: 125). | |
| Comparison groups | ATI events - Control group v ATI events - Test group |
| Number of subjects included in analysis | 182 |
| Analysis specification | Pre-specified |
| Analysis type | other ^[63] |
| P-value | = 0.4802 ^[64] |
| Method | Wilcoxon (Mann-Whitney) |
| Parameter estimate | Hodges Lehman estimate of location shift |
| Point estimate | 0 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | -1 |
| upper limit | 0 |

Notes:

[63] - Analysis followed an exploratory rather than confirmatory approach.

[64] - The presented location shift refers to the difference 'Test -Control'. No statistically significant differences between treatment arms could be detected.

Secondary: Standardized number of days with impact on performance of normal daily activity

| | |
|-----------------|---|
| End point title | Standardized number of days with impact on performance of normal daily activity |
|-----------------|---|

End point description:

Patients were asked to report impact on performance of normal daily activities by chronic tonsillitis symptoms on a weekly basis retrospectively for each day in a diary. The standardized number of days, which is the ratio of days with impact on normal daily activity divided by the total number of days recorded in a diary period, was evaluated.

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

End point timeframe:

Following diary periods are considered (the number of patients differs between periods - depending on individual drop out [see subject disposition]):

T I: V1 to V3

FU I: V3 to V4

T II: V4 to V5

FU II: V5 to V6

T III: V6 to V7

FU III: V7 to V9

| End point values | Test group | Control group | | |
|---------------------------------------|---------------------|------------------------|--|--|
| Subject group type | Reporting group | Reporting group | | |
| Number of subjects analysed | 131 ^[65] | 123 ^[66] | | |
| Units: proportion of total diary days | | | | |
| median (inter-quartile range (Q1-Q3)) | | | | |
| Diary period T I | 0.018 (0 to 0.054) | 0.082 (0.018 to 0.179) | | |
| Diary period FU I | 0 (0 to 0.036) | 0.055 (0 to 0.135) | | |
| Diary period T II | 0 (0 to 0.018) | 0.018 (0 to 0.143) | | |

| | | | | |
|---------------------|----------------|------------------|--|--|
| Diary period FU II | 0 (0 to 0.018) | 0 (0 to 0.096) | | |
| Diary period T III | 0 (0 to 0) | 0 (0 to 0.088) | | |
| Diary period FU III | 0 (0 to 0.021) | 0.022 (0 to 0.1) | | |

Notes:

[65] - 1 Patient excluded due to no post-baseline data.

Number of patients varies between diary periods.

[66] - 1 Patient excluded due to no post-baseline data.

Number of patients varies between diary periods.

Statistical analyses

| Statistical analysis title | Period 'T I' - days with impact on daily activity |
|----------------------------|---|
|----------------------------|---|

Statistical analysis description:

Analysis is based on comparison of treatment arms regarding the fraction of days with documented impact on daily activity due to chronic tonsillitis symptoms as obtained from patients' diaries.

Basis: Diary period T I (Visit 1 to Visit 3) Number of patients with data in this period: 254 (Test group: 131 | Control group: 123).

| | |
|---|--|
| Comparison groups | Test group v Control group |
| Number of subjects included in analysis | 254 |
| Analysis specification | Pre-specified |
| Analysis type | other ^[67] |
| P-value | < 0.0001 ^[68] |
| Method | Wilcoxon (Mann-Whitney) |
| Parameter estimate | Hodges Lehman estimate of Location Shift |
| Point estimate | -0.052 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | -0.071 |
| upper limit | -0.021 |

Notes:

[67] - Analysis followed an exploratory rather than confirmatory approach.

[68] - The presented location shift refers to the difference 'Test -Control'. I.e. the statistically significant finding and referring negative value indicate patients in test group less frequently suffering from impact on daily activities due to symptoms.

| Statistical analysis title | Period 'FU I' - days with impact on daily activity |
|----------------------------|--|
|----------------------------|--|

Statistical analysis description:

Analysis is based on comparison of treatment arms regarding the fraction of days with documented impact on daily activity due to chronic tonsillitis symptoms as obtained from patients' diaries.

Basis: Diary period FU I (Visit 3 to Visit 4) Number of patients with data in this period: 248 (Test group: 128 | Control group: 120).

| | |
|---|--|
| Comparison groups | Test group v Control group |
| Number of subjects included in analysis | 254 |
| Analysis specification | Pre-specified |
| Analysis type | other ^[69] |
| P-value | < 0.0001 ^[70] |
| Method | Wilcoxon (Mann-Whitney) |
| Parameter estimate | Hodges Lehman estimate of Location Shift |
| Point estimate | -0.036 |

| | |
|---------------------|---------|
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | -0.054 |
| upper limit | -0.017 |

Notes:

[69] - Analysis followed an exploratory rather than confirmatory approach.

[70] - The presented location shift refers to the difference 'Test -Control'. I.e. the statistically significant finding and referring negative value indicate patients in test group less frequently suffering from impact on daily activities due to symptoms.

| | |
|-----------------------------------|--|
| Statistical analysis title | Period 'T II' - days with impact on daily activity |
|-----------------------------------|--|

Statistical analysis description:

Analysis is based on comparison of treatment arms regarding the fraction of days with documented impact on daily activity due to chronic tonsillitis symptoms as obtained from patients' diaries.

Basis: Diary period T II (Visit 4 to Visit 5) Number of patients with data in this period: 241 (Test group: 124 | Control group: 117).

| | |
|---|--|
| Comparison groups | Test group v Control group |
| Number of subjects included in analysis | 254 |
| Analysis specification | Pre-specified |
| Analysis type | other ^[71] |
| P-value | < 0.0001 ^[72] |
| Method | Wilcoxon (Mann-Whitney) |
| Parameter estimate | Hodges Lehman estimate of Location Shift |
| Point estimate | -0.016 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | -0.033 |
| upper limit | 0 |

Notes:

[71] - Analysis followed an exploratory rather than confirmatory approach.

[72] - The presented location shift refers to the difference 'Test -Control'. I.e. the statistically significant finding and referring negative value indicate patients in test group less frequently suffering from impact on daily activities due to symptoms.

| | |
|-----------------------------------|--|
| Statistical analysis title | Period 'FU II'- days with impact on daily activity |
|-----------------------------------|--|

Statistical analysis description:

Analysis is based on comparison of treatment arms regarding the fraction of days with documented impact on daily activity due to chronic tonsillitis symptoms as obtained from patients' diaries.

Basis: Diary period FU II (Visit 5 to Visit 6) Number of patients with data in this period: 230 (Test group: 115 | Control group: 115).

| | |
|---|--|
| Comparison groups | Test group v Control group |
| Number of subjects included in analysis | 254 |
| Analysis specification | Pre-specified |
| Analysis type | other ^[73] |
| P-value | = 0.0007 ^[74] |
| Method | Wilcoxon (Mann-Whitney) |
| Parameter estimate | Hodges Lehman estimate of Location Shift |
| Point estimate | 0 |

| | |
|---------------------|---------|
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | -0.0003 |
| upper limit | 0 |

Notes:

[73] - Analysis followed an exploratory rather than confirmatory approach.

[74] - The statistically significant finding and referring Wilcoxon mean scores (Test=102.4 | Control=128.6) values indicate patients in test group less frequently suffering from impact on daily activities due to symptoms, although location shift is "0".

| | |
|-----------------------------------|--|
| Statistical analysis title | Period 'T III'- days with impact on daily activity |
|-----------------------------------|--|

Statistical analysis description:

Analysis is based on comparison of treatment arms regarding the fraction of days with documented impact on daily activity due to chronic tonsillitis symptoms as obtained from patients' diaries.

Basis: Diary period T III (Visit 6 to Visit 7) Number of patients with data in this period: 226 (Test group: 114 | Control group: 112).

| | |
|---|--|
| Comparison groups | Test group v Control group |
| Number of subjects included in analysis | 254 |
| Analysis specification | Pre-specified |
| Analysis type | other ^[75] |
| P-value | < 0.0001 ^[76] |
| Method | Wilcoxon (Mann-Whitney) |
| Parameter estimate | Hodges Lehman estimate of Location Shift |
| Point estimate | 0 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | 0 |
| upper limit | 0 |

Notes:

[75] - Analysis followed an exploratory rather than confirmatory approach.

[76] - The statistically significant finding and referring Wilcoxon mean scores (Test=97.2 | Control=130.1) values indicate patients in test group less frequently suffering from impact on daily activities due to symptoms, although location shift is "0".

| | |
|-----------------------------------|--|
| Statistical analysis title | Period 'FU III'-days with impact on daily activity |
|-----------------------------------|--|

Statistical analysis description:

Analysis is based on comparison of treatment arms regarding the fraction of days with documented impact on daily activity due to chronic tonsillitis symptoms as obtained from patients' diaries.

Basis: Diary period FU III (Visit 7 to Visit 9) Number of patients with data in this period: 211 (Test group: 107 | Control group: 104).

| | |
|---|--|
| Comparison groups | Test group v Control group |
| Number of subjects included in analysis | 254 |
| Analysis specification | Pre-specified |
| Analysis type | other ^[77] |
| P-value | < 0.0001 ^[78] |
| Method | Wilcoxon (Mann-Whitney) |
| Parameter estimate | Hodges Lehman estimate of Location Shift |
| Point estimate | -0.007 |

| | |
|---------------------|---------|
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | -0.027 |
| upper limit | 0 |

Notes:

[77] - Analysis followed an exploratory rather than confirmatory approach.

[78] - The presented location shift refers to the difference 'Test -Control'. I.e. the statistically significant finding and referring negative value indicate patients in test group less frequently suffering from impact on daily activities due to symptoms.

Secondary: Patient's quality of life

| | |
|-----------------|---------------------------|
| End point title | Patient's quality of life |
|-----------------|---------------------------|

End point description:

Quality of life was assessed by the patient at each regular visit except Visit 2 using a 5-point rating scale (items: "Very good", "Good", "Moderate", "Poor" and "Very poor").

Presented evaluation is related to binary categorization of patients' assessments into categories "At least good" (i.e. summarizing answers: "very good" and "good") and "Moderate or worse" (i.e. summarizing answers: "moderate", "poor" and "very poor").

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

End point timeframe:

All regular study visits (except Visit 2).

Note: Data presented for "Visit 9" refers to either regular Visit 9 (Week 60±1) or early Termination Visit

| End point values | Test group | Control group | | |
|--|---------------------|---------------------|--|--|
| Subject group type | Reporting group | Reporting group | | |
| Number of subjects analysed | 131 ^[79] | 123 ^[80] | | |
| Units: Patients | | | | |
| Visit 1: Very good or good | 20 | 18 | | |
| Visit 1: Moderate or poor or very poor | 110 | 105 | | |
| Visit 3: Very good or good | 103 | 36 | | |
| Visit 3: Moderate or poor or very poor | 25 | 84 | | |
| Visit 4: Very good or good | 108 | 36 | | |
| Visit 4: Moderate or poor or very poor | 17 | 84 | | |
| Visit 5: Very good or good | 109 | 35 | | |
| Visit 5: Moderate or poor or very poor | 10 | 82 | | |
| Visit 6: Very good or good | 99 | 51 | | |
| Visit 6: Moderate or poor or very poor | 6 | 52 | | |
| Visit 7: Very good or good | 98 | 48 | | |
| Visit 7: Moderate or poor or very poor | 6 | 53 | | |
| Visit 8: Very good or good | 95 | 40 | | |
| Visit 8: Moderate or poor or very poor | 3 | 54 | | |
| Visit 9: Very good or good | 123 | 46 | | |
| Visit 9: Moderate or poor or very poor | 8 | 77 | | |

Notes:

[79] - 1 Patient excluded due to no post-baseline data.
Number of patients varies between visits.

[80] - 1 Patient excluded due to no post-baseline data.
Number of patients varies between visits.

Statistical analyses

| | |
|--|----------------------------|
| Statistical analysis title | Visit 1: quality of life |
| Statistical analysis description: | |
| Analysis is based on comparison of treatment arms regarding the number of patients rating their quality of life [QoL] being "At least good". | |
| Basis: Visit 1 records Number considered patients with symptom assessment data at this visit: 253 (Test group: 130 Control group: 123). | |
| Comparison groups | Test group v Control group |
| Number of subjects included in analysis | 254 |
| Analysis specification | Pre-specified |
| Analysis type | other ^[81] |
| P-value | = 0.8674 ^[82] |
| Method | Chi-squared |
| Parameter estimate | Risk difference (RD) |
| Point estimate | 0.8 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | -8.05 |
| upper limit | 9.55 |

Notes:

[81] - Analysis followed an exploratory rather than confirmatory approach.

[82] - The presented risk difference refers to the difference of proportions [%] of patients with "At least good" self-rating of QoL. No statistically significant difference was detected for current visit.

| | |
|--|----------------------------|
| Statistical analysis title | Visit 3: quality of life |
| Statistical analysis description: | |
| Analysis is based on comparison of treatment arms regarding the number of patients rating their quality of life [QoL] being "At least good". | |
| Basis: Visit 3 records Number considered patients with symptom assessment data at this visit: 248 (Test group: 128 Control group: 120). | |
| Comparison groups | Test group v Control group |
| Number of subjects included in analysis | 254 |
| Analysis specification | Pre-specified |
| Analysis type | other ^[83] |
| P-value | < 0.0001 ^[84] |
| Method | Chi-squared |
| Parameter estimate | Risk difference (RD) |
| Point estimate | 50.5 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | 39.77 |
| upper limit | 61.16 |

Notes:

[83] - Analysis followed an exploratory rather than confirmatory approach.

[84] - The presented risk difference refers to the difference of proportions [%] of patients with "At least good" self-rating of QoL. I.e. a positive value indicates more patients with "very good" or "good" QoL in test group compared to control group.

| | |
|-----------------------------------|--------------------------|
| Statistical analysis title | Visit 4: quality of life |
|-----------------------------------|--------------------------|

Statistical analysis description:

Analysis is based on comparison of treatment arms regarding the number of patients rating their quality of life [QoL] being "At least good".

Basis: Visit 4 records

Number considered patients with symptom assessment data at this visit: 245 (Test group: 125 | Control group: 120).

| | |
|---|----------------------------|
| Comparison groups | Test group v Control group |
| Number of subjects included in analysis | 254 |
| Analysis specification | Pre-specified |
| Analysis type | other ^[85] |
| P-value | < 0.0001 ^[86] |
| Method | Chi-squared |
| Parameter estimate | Risk difference (RD) |
| Point estimate | 56.4 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | 46.23 |
| upper limit | 66.57 |

Notes:

[85] - Analysis followed an exploratory rather than confirmatory approach.

[86] - The presented risk difference refers to the difference of proportions [%] of patients with "At least good" self-rating of QoL. I.e. a positive value indicates more patients with "very good" or "good" QoL in test group compared to control group.

| | |
|-----------------------------------|--------------------------|
| Statistical analysis title | Visit 5: quality of life |
|-----------------------------------|--------------------------|

Statistical analysis description:

Analysis is based on comparison of treatment arms regarding the number of patients rating their quality of life [QoL] being "At least good".

Basis: Visit 5 records

Number considered patients with symptom assessment data at this visit: 236 (Test group: 119 | Control group: 117).

| | |
|---|----------------------------|
| Comparison groups | Test group v Control group |
| Number of subjects included in analysis | 254 |
| Analysis specification | Pre-specified |
| Analysis type | other ^[87] |
| P-value | < 0.0001 ^[88] |
| Method | Chi-squared |
| Parameter estimate | Risk difference (RD) |
| Point estimate | 61.7 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | 52 |
| upper limit | 71.36 |

Notes:

[87] - Analysis followed an exploratory rather than confirmatory approach.

[88] - The presented risk difference refers to the difference of proportions [%] of patients with "At least good" self-rating of QoL. I.e. a positive value indicates more patients with "very good" or "good" QoL in test group compared to control group.

| | |
|-----------------------------------|--------------------------|
| Statistical analysis title | Visit 6: quality of life |
|-----------------------------------|--------------------------|

Statistical analysis description:

Analysis is based on comparison of treatment arms regarding the number of patients rating their quality

of life [QoL] being "At least good".

Basis: Visit 6 records

Number considered patients with symptom assessment data at this visit: 208 (Test group: 105 | Control group: 103).

| | |
|---|----------------------------|
| Comparison groups | Test group v Control group |
| Number of subjects included in analysis | 254 |
| Analysis specification | Pre-specified |
| Analysis type | other ^[89] |
| P-value | < 0.0001 ^[90] |
| Method | Chi-squared |
| Parameter estimate | Risk difference (RD) |
| Point estimate | 44.8 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | 34.14 |
| upper limit | 55.4 |

Notes:

[89] - Analysis followed an exploratory rather than confirmatory approach.

[90] - The presented risk difference refers to the difference of proportions [%] of patients with "At least good" self-rating of QoL. I.e. a positive value indicates more patients with "very good" or "good" QoL in test group compared to control group.

| | |
|-----------------------------------|--------------------------|
| Statistical analysis title | Visit 7: quality of life |
|-----------------------------------|--------------------------|

Statistical analysis description:

Analysis is based on comparison of treatment arms regarding the number of patients rating their quality of life [QoL] being "At least good".

Basis: Visit 7 records

Number considered patients with symptom assessment data at this visit: 205 (Test group: 104 | Control group: 101).

| | |
|---|----------------------------|
| Comparison groups | Test group v Control group |
| Number of subjects included in analysis | 254 |
| Analysis specification | Pre-specified |
| Analysis type | other ^[91] |
| P-value | < 0.0001 ^[92] |
| Method | Chi-squared |
| Parameter estimate | Risk difference (RD) |
| Point estimate | 46.7 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | 35.99 |
| upper limit | 57.43 |

Notes:

[91] - Analysis followed an exploratory rather than confirmatory approach.

[92] - The presented risk difference refers to the difference of proportions [%] of patients with "At least good" self-rating of QoL. I.e. a positive value indicates more patients with "very good" or "good" QoL in test group compared to control group.

| | |
|-----------------------------------|--------------------------|
| Statistical analysis title | Visit 8: quality of life |
|-----------------------------------|--------------------------|

Statistical analysis description:

Analysis is based on comparison of treatment arms regarding the number of patients rating their quality of life [QoL] being "At least good".

Basis: Visit 8 records

Number considered patients with symptom assessment data at this visit: 192 (Test Group: 98 | Control Group: 94).

| | |
|---|----------------------------|
| Comparison groups | Test group v Control group |
| Number of subjects included in analysis | 254 |
| Analysis specification | Pre-specified |
| Analysis type | other ^[93] |
| P-value | < 0.0001 ^[94] |
| Method | Chi-squared |
| Parameter estimate | Risk difference (RD) |
| Point estimate | 54.4 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | 43.82 |
| upper limit | 64.95 |

Notes:

[93] - Analysis followed an exploratory rather than confirmatory approach.

[94] - The presented risk difference refers to the difference of proportions [%] of patients with "At least good" self-rating of QoL. I.e. a positive value indicates more patients with "very good" or "good" QoL in test group compared to control group.

| | |
|-----------------------------------|--------------------------|
| Statistical analysis title | Visit 9: quality of life |
|-----------------------------------|--------------------------|

Statistical analysis description:

Analysis is based on comparison of treatment arms regarding the number of patients rating their quality of life [QoL] being "At least good".

Basis: Visit 9 records [Regular visit (Week 60±1) or early Termination Visit]

Number considered patients with symptom assessment data at this visit: 254 (Test group: 131 | Control group: 123).

| | |
|---|----------------------------|
| Comparison groups | Test group v Control group |
| Number of subjects included in analysis | 254 |
| Analysis specification | Pre-specified |
| Analysis type | other ^[95] |
| P-value | < 0.0001 ^[96] |
| Method | Chi-squared |
| Parameter estimate | Risk difference (RD) |
| Point estimate | 56.5 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | 47.01 |
| upper limit | 65.98 |

Notes:

[95] - Analysis followed an exploratory rather than confirmatory approach.

[96] - The presented risk difference refers to the difference of proportions [%] of patients with "At least good" self-rating of QoL. I.e. a positive value indicates more patients with "very good" or "good" QoL in test group compared to control group.

Secondary: Treatment Outcome according to integrative medicine outcome scale [IMOS]

| | |
|-----------------|--|
| End point title | Treatment Outcome according to integrative medicine outcome scale [IMOS] |
|-----------------|--|

End point description:

Global judgement of the treatment outcome by IMOS (5-point rating scale) was done by both the investigator and the patient each separately in comparison to Visit 1 at each regular post-baseline visit except for Visit 2.

IMOS items are "Complete recovery", "Major improvement", "Slight to moderate improvement", "No change" and "Deterioration".

Presented evaluation is related to binary categorization of patients' assessments into categories "At least major improvement" (i.e. summarizing answers: "Complete recovery" and "Major improvement") and "Less than major improvement" (i.e. summarizing the remaining three categories). Distinction is made between patients' and investigators' IMOS ratings.

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

End point timeframe:

All regular post-baseline study visits (except Visit 2).

Note: Data presented for "Visit 9" refers to either regular Visit 9 (Week 60±1) or early Termination Visit.

| End point values | Test group | Control group | | |
|---|---------------------|---------------------|--|--|
| Subject group type | Reporting group | Reporting group | | |
| Number of subjects analysed | 131 ^[97] | 123 ^[98] | | |
| Units: Patients | | | | |
| Visit 3: At least major improvement [Patient] | 88 | 9 | | |
| Visit 3: Less than major improvement [Patient] | 40 | 109 | | |
| Visit 4: At least major improvement [Patient] | 82 | 7 | | |
| Visit 4: Less than major improvement [Patient] | 43 | 113 | | |
| Visit 5: At least major improvement [Patient] | 95 | 18 | | |
| Visit 5: Less than major improvement [Patient] | 24 | 99 | | |
| Visit 6: At least major improvement [Patient] | 82 | 15 | | |
| Visit 6: Less than major improvement [Patient] | 23 | 88 | | |
| Visit 7: At least major improvement [Patient] | 89 | 14 | | |
| Visit 7: Less than major improvement [Patient] | 15 | 87 | | |
| Visit 8: At least major improvement [Patient] | 82 | 15 | | |
| Visit 8: Less than major improvement [Patient] | 16 | 79 | | |
| Visit 9: At least major improvement [Patient] | 110 | 14 | | |
| Visit 9: Less than major improvement [Patient] | 18 | 108 | | |
| Visit 3: At least major improvement [Investigator] | 80 | 8 | | |
| Visit 3: Less than major improvement [Investigator] | 48 | 110 | | |
| Visit 4: At least major improvement [Investigator] | 81 | 6 | | |
| Visit 4: Less than major improvement [Investigator] | 44 | 114 | | |
| Visit 5: At least major improvement [Investigator] | 95 | 18 | | |
| Visit 5: Less than major improvement [Investigator] | 24 | 99 | | |

| | | | | |
|---|-----|-----|--|--|
| Visit 6: At least major improvement [Investigator] | 82 | 11 | | |
| Visit 6: Less than major improvement [Investigator] | 23 | 92 | | |
| Visit 7: At least major improvement [Investigator] | 91 | 11 | | |
| Visit 7: Less than major improvement [Investigator] | 13 | 90 | | |
| Visit 8: At least major improvement [Investigator] | 84 | 11 | | |
| Visit 8: Less than major improvement [Investigator] | 14 | 83 | | |
| Visit 9: At least major improvement [Investigator] | 110 | 8 | | |
| Visit 9: Less than major improvement [Investigator] | 18 | 114 | | |

Notes:

[97] - 1 Patient excluded due to no post-baseline data.

Number of patients varies between visits.

[98] - 1 Patient excluded due to no post-baseline data.

Number of patients varies between visits.

Statistical analyses

| Statistical analysis title | Visit 3: IMOS [Patients' assessments] |
|---|---------------------------------------|
| Statistical analysis description: | |
| Analysis is based on comparison of treatment arms regarding the proportion of patients with IMOS "At least major improvement" rating. | |
| Basis: Visit 3 records | |
| Number considered patients with IMOS assessment data at this visit: 246 (Test group: 128 Control group: 118) | |
| Comparison groups | Control group v Test group |
| Number of subjects included in analysis | 254 |
| Analysis specification | Pre-specified |
| Analysis type | other ^[99] |
| P-value | < 0.0001 ^[100] |
| Method | Chi-squared |
| Parameter estimate | Risk difference (RD) |
| Point estimate | 61.1 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | 51.77 |
| upper limit | 70.47 |

Notes:

[99] - Analysis followed an exploratory rather than confirmatory approach.

[100] - The presented risk difference refers to the difference of proportions [%] of patients with "At least least major improvement" IMOS rating. I.e. a positive value indicates more patients with better outcome category in test group compared to control.

| Statistical analysis title | Visit 4: IMOS [Patients' assessments] |
|---|---------------------------------------|
| Statistical analysis description: | |
| Analysis is based on comparison of treatment arms regarding the proportion of patients with IMOS "At least major improvement" rating. | |
| Basis: Visit 4 records | |
| Number considered patients with IMOS assessment data at this visit: 245 (Test group: 125 Control group: 120) | |

| | |
|---|----------------------------|
| Comparison groups | Control group v Test group |
| Number of subjects included in analysis | 254 |
| Analysis specification | Pre-specified |
| Analysis type | other ^[101] |
| P-value | < 0.0001 ^[102] |
| Method | Chi-squared |
| Parameter estimate | Risk difference (RD) |
| Point estimate | 59.8 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | 50.44 |
| upper limit | 69.09 |

Notes:

[101] - Analysis followed an exploratory rather than confirmatory approach.

[102] - The presented risk difference refers to the difference of proportions [%] of patients with "At least least major improvement" IMOS rating. I.e. a positive value indicates more patients with better outcome category in test group compared to control.

| | |
|-----------------------------------|---------------------------------------|
| Statistical analysis title | Visit 5: IMOS [Patients' assessments] |
|-----------------------------------|---------------------------------------|

Statistical analysis description:

Analysis is based on comparison of treatment arms regarding the proportion of patients with IMOS "At least major improvement" rating.

Basis: Visit 5 records

Number considered patients with IMOS assessment data at this visit: 236 (Test group: 119 | Control group: 117)

| | |
|---|----------------------------|
| Comparison groups | Control group v Test group |
| Number of subjects included in analysis | 254 |
| Analysis specification | Pre-specified |
| Analysis type | other ^[103] |
| P-value | < 0.0001 ^[104] |
| Method | Chi-squared |
| Parameter estimate | Risk difference (RD) |
| Point estimate | 64.4 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | 54.72 |
| upper limit | 74.18 |

Notes:

[103] - Analysis followed an exploratory rather than confirmatory approach.

[104] - The presented risk difference refers to the difference of proportions [%] of patients with "At least least major improvement" IMOS rating. I.e. a positive value indicates more patients with better outcome category in test group compared to control.

| | |
|-----------------------------------|---------------------------------------|
| Statistical analysis title | Visit 6: IMOS [Patients' assessments] |
|-----------------------------------|---------------------------------------|

Statistical analysis description:

Analysis is based on comparison of treatment arms regarding the proportion of patients with IMOS "At least major improvement" rating.

Basis: Visit 6 records

Number considered patients with IMOS assessment data at this visit: 208 (Test group: 105 | Control group: 103)

| | |
|-------------------|----------------------------|
| Comparison groups | Control group v Test group |
|-------------------|----------------------------|

| | |
|---|---------------------------|
| Number of subjects included in analysis | 254 |
| Analysis specification | Pre-specified |
| Analysis type | other ^[105] |
| P-value | < 0.0001 ^[106] |
| Method | Chi-squared |
| Parameter estimate | Risk difference (RD) |
| Point estimate | 63.5 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | 53.09 |
| upper limit | 73.97 |

Notes:

[105] - Analysis followed an exploratory rather than confirmatory approach.

[106] - The presented risk difference refers to the difference of proportions [%] of patients with "At least least major improvement" IMOS rating. I.e. a positive value indicates more patients with better outcome category in test group compared to control.

| | |
|-----------------------------------|---------------------------------------|
| Statistical analysis title | Visit 7: IMOS [Patients' assessments] |
|-----------------------------------|---------------------------------------|

Statistical analysis description:

Analysis is based on comparison of treatment arms regarding the proportion of patients with IMOS "At least major improvement" rating.

Basis: Visit 7 records

Number considered patients with IMOS assessment data at this visit: 205 (Test group: 104 | Control group: 101)

| | |
|---|----------------------------|
| Comparison groups | Control group v Test group |
| Number of subjects included in analysis | 254 |
| Analysis specification | Pre-specified |
| Analysis type | other ^[107] |
| P-value | < 0.0001 ^[108] |
| Method | Chi-squared |
| Parameter estimate | Risk difference (RD) |
| Point estimate | 71.7 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | 62.18 |
| upper limit | 81.26 |

Notes:

[107] - Analysis followed an exploratory rather than confirmatory approach.

[108] - The presented risk difference refers to the difference of proportions [%] of patients with "At least least major improvement" IMOS rating. I.e. a positive value indicates more patients with better outcome category in test group compared to control.

| | |
|-----------------------------------|---------------------------------------|
| Statistical analysis title | Visit 8: IMOS [Patients' assessments] |
|-----------------------------------|---------------------------------------|

Statistical analysis description:

Analysis is based on comparison of treatment arms regarding the proportion of patients with IMOS "At least major improvement" rating.

Basis: Visit 8 records

Number considered patients with IMOS assessment data at this visit: 192 (Test group: 98 | Control group: 94)

| | |
|-------------------|----------------------------|
| Comparison groups | Control group v Test group |
|-------------------|----------------------------|

| | |
|---|---------------------------|
| Number of subjects included in analysis | 254 |
| Analysis specification | Pre-specified |
| Analysis type | other ^[109] |
| P-value | < 0.0001 ^[110] |
| Method | Chi-squared |
| Parameter estimate | Risk difference (RD) |
| Point estimate | 67.7 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | 57.31 |
| upper limit | 78.13 |

Notes:

[109] - Analysis followed an exploratory rather than confirmatory approach.

[110] - The presented risk difference refers to the difference of proportions [%] of patients with "At least least major improvement" IMOS rating. I.e. a positive value indicates more patients with better outcome category in test group compared to control.

| | |
|-----------------------------------|---------------------------------------|
| Statistical analysis title | Visit 9: IMOS [Patients' assessments] |
|-----------------------------------|---------------------------------------|

Statistical analysis description:

Analysis is based on comparison of treatment arms regarding the proportion of patients with IMOS "At least major improvement" rating.

Basis: Visit 9 records (either regular Visit 9 (Week 60±1) or early Termination Visit)

Number considered patients with IMOS assessment data at this visit: 250 (Test group: 128 | Control group: 122)

| | |
|---|----------------------------|
| Comparison groups | Control group v Test group |
| Number of subjects included in analysis | 254 |
| Analysis specification | Pre-specified |
| Analysis type | other ^[111] |
| P-value | < 0.0001 ^[112] |
| Method | Chi-squared |
| Parameter estimate | Risk difference (RD) |
| Point estimate | 74.5 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | 66.2 |
| upper limit | 82.72 |

Notes:

[111] - Analysis followed an exploratory rather than confirmatory approach.

[112] - The presented risk difference refers to the difference of proportions [%] of patients with "At least least major improvement" IMOS rating. I.e. a positive value indicates more patients with better outcome category in test group compared to control.

| | |
|-----------------------------------|--|
| Statistical analysis title | Visit 3: IMOS [Investigators' assessments] |
|-----------------------------------|--|

Statistical analysis description:

Analysis is based on comparison of treatment arms regarding the proportion of patients with IMOS "At least major improvement" rating.

Basis: Visit 3 records

Number considered patients with IMOS assessment data at this visit: 246 (Test group: 128 | Control group: 118)

| | |
|-------------------|----------------------------|
| Comparison groups | Control group v Test group |
|-------------------|----------------------------|

| | |
|---|---------------------------|
| Number of subjects included in analysis | 254 |
| Analysis specification | Pre-specified |
| Analysis type | other ^[113] |
| P-value | < 0.0001 ^[114] |
| Method | Chi-squared |
| Parameter estimate | Risk difference (RD) |
| Point estimate | 55.7 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | 46.19 |
| upper limit | 65.26 |

Notes:

[113] - Analysis followed an exploratory rather than confirmatory approach.

[114] - The presented risk difference refers to the difference of proportions [%] of patients with "At least least major improvement" IMOS rating. I.e. a positive value indicates more patients with better outcome category in test group compared to control.

| | |
|-----------------------------------|--|
| Statistical analysis title | Visit 4: IMOS [Investigators' assessments] |
|-----------------------------------|--|

Statistical analysis description:

Analysis is based on comparison of treatment arms regarding the proportion of patients with IMOS "At least major improvement" rating.

Basis: Visit 4 records

Number considered patients with IMOS assessment data at this visit: 245 (Test group: 125 | Control group: 120)

| | |
|---|----------------------------|
| Comparison groups | Control group v Test group |
| Number of subjects included in analysis | 254 |
| Analysis specification | Pre-specified |
| Analysis type | other ^[115] |
| P-value | < 0.0001 ^[116] |
| Method | Chi-squared |
| Parameter estimate | Risk difference (RD) |
| Point estimate | 59.8 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | 50.56 |
| upper limit | 69.04 |

Notes:

[115] - Analysis followed an exploratory rather than confirmatory approach.

[116] - The presented risk difference refers to the difference of proportions [%] of patients with "At least least major improvement" IMOS rating. I.e. a positive value indicates more patients with better outcome category in test group compared to control.

| | |
|-----------------------------------|--|
| Statistical analysis title | Visit 5: IMOS [Investigators' assessments] |
|-----------------------------------|--|

Statistical analysis description:

Analysis is based on comparison of treatment arms regarding the proportion of patients with IMOS "At least major improvement" rating.

Basis: Visit 5 records

Number considered patients with IMOS assessment data at this visit: 236 (Test group: 119 | Control group: 117)

| | |
|-------------------|----------------------------|
| Comparison groups | Control group v Test group |
|-------------------|----------------------------|

| | |
|---|---------------------------|
| Number of subjects included in analysis | 254 |
| Analysis specification | Pre-specified |
| Analysis type | other ^[117] |
| P-value | < 0.0001 ^[118] |
| Method | Chi-squared |
| Parameter estimate | Risk difference (RD) |
| Point estimate | 64.4 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | 54.72 |
| upper limit | 74.18 |

Notes:

[117] - Analysis followed an exploratory rather than confirmatory approach.

[118] - The presented risk difference refers to the difference of proportions [%] of patients with "At least least major improvement" IMOS rating. I.e. a positive value indicates more patients with better outcome category in test group compared to control.

| | |
|-----------------------------------|--|
| Statistical analysis title | Visit 6: IMOS [Investigators' assessments] |
|-----------------------------------|--|

Statistical analysis description:

Analysis is based on comparison of treatment arms regarding the proportion of patients with IMOS "At least major improvement" rating.

Basis: Visit 6 records

Number considered patients with IMOS assessment data at this visit: 208 (Test group: 105 | Control group: 103)

| | |
|---|----------------------------|
| Comparison groups | Control group v Test group |
| Number of subjects included in analysis | 254 |
| Analysis specification | Pre-specified |
| Analysis type | other ^[119] |
| P-value | < 0.0001 ^[120] |
| Method | Chi-squared |
| Parameter estimate | Risk difference (RD) |
| Point estimate | 67.4 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | 57.51 |
| upper limit | 77.32 |

Notes:

[119] - Analysis followed an exploratory rather than confirmatory approach.

[120] - The presented risk difference refers to the difference of proportions [%] of patients with "At least least major improvement" IMOS rating. I.e. a positive value indicates more patients with better outcome category in test group compared to control.

| | |
|-----------------------------------|--|
| Statistical analysis title | Visit 7: IMOS [Investigators' assessments] |
|-----------------------------------|--|

Statistical analysis description:

Analysis is based on comparison of treatment arms regarding the proportion of patients with IMOS "At least major improvement" rating.

Basis: Visit 7 records

Number considered patients with IMOS assessment data at this visit: 205 (Test group: 104 | Control group: 101)

| | |
|-------------------|----------------------------|
| Comparison groups | Control group v Test group |
|-------------------|----------------------------|

| | |
|---|---------------------------|
| Number of subjects included in analysis | 254 |
| Analysis specification | Pre-specified |
| Analysis type | other ^[121] |
| P-value | < 0.0001 ^[122] |
| Method | Chi-squared |
| Parameter estimate | Risk difference (RD) |
| Point estimate | 76.6 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | 67.82 |
| upper limit | 85.4 |

Notes:

[121] - Analysis followed an exploratory rather than confirmatory approach.

[122] - The presented risk difference refers to the difference of proportions [%] of patients with "At least least major improvement" IMOS rating. I.e. a positive value indicates more patients with better outcome category in test group compared to control.

| | |
|-----------------------------------|--|
| Statistical analysis title | Visit 8: IMOS [Investigators' assessments] |
|-----------------------------------|--|

Statistical analysis description:

Analysis is based on comparison of treatment arms regarding the proportion of patients with IMOS "At least major improvement" rating.

Basis: Visit 8 records

Number considered patients with IMOS assessment data at this visit: 192 (Test group: 98 | Control group: 94)

| | |
|---|----------------------------|
| Comparison groups | Control group v Test group |
| Number of subjects included in analysis | 254 |
| Analysis specification | Pre-specified |
| Analysis type | other ^[123] |
| P-value | < 0.0001 ^[124] |
| Method | Chi-squared |
| Parameter estimate | Risk difference (RD) |
| Point estimate | 74 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | 64.51 |
| upper limit | 83.51 |

Notes:

[123] - Analysis followed an exploratory rather than confirmatory approach.

[124] - The presented risk difference refers to the difference of proportions [%] of patients with "At least least major improvement" IMOS rating. I.e. a positive value indicates more patients with better outcome category in test group compared to control.

| | |
|-----------------------------------|--|
| Statistical analysis title | Visit 9: IMOS [Investigators' assessments] |
|-----------------------------------|--|

Statistical analysis description:

Analysis is based on comparison of treatment arms regarding the proportion of patients with IMOS "At least major improvement" rating.

Basis: Visit 9 records (either regular Visit 9 (Week 60±1) or early Termination Visit)

Number considered patients with IMOS assessment data at this visit: 250 (Test group: 128 | Control group: 122)

| | |
|-------------------|----------------------------|
| Comparison groups | Control group v Test group |
|-------------------|----------------------------|

| | |
|---|---------------------------|
| Number of subjects included in analysis | 254 |
| Analysis specification | Pre-specified |
| Analysis type | other ^[125] |
| P-value | < 0.0001 ^[126] |
| Method | Chi-squared |
| Parameter estimate | Risk difference (RD) |
| Point estimate | 79.4 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | 71.93 |
| upper limit | 86.83 |

Notes:

[125] - Analysis followed an exploratory rather than confirmatory approach.

[126] - The presented risk difference refers to the difference of proportions [%] of patients with "At least least major improvement" IMOS rating. I.e. a positive value indicates more patients with better outcome category in test group compared to control.

Secondary: Global Assessment of Tolerability by Investigator and Patient

| | |
|-----------------|---|
| End point title | Global Assessment of Tolerability by Investigator and |
|-----------------|---|

End point description:

Assessment of tolerability of treatment has been done for test group patients after each of the three active treatment periods. Assessment has been done separately by patients and physicians on a 5-point verbal rating scale (items: "Very good", "Good", "Moderate", "Poor" and "Very poor").

Presented evaluation is related to binary categorization of assessments into categories "At least good" (i.e. summarizing "Very good" and "Good") and "Moderate or worse" (i.e. summarizing answers: "Moderate", "Poor" and "Very poor").

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

End point timeframe:

Visit 3 (Week 8 [+/- 1 week])

Visit 5 (Week 24 [+/- 1 week])

Visit 7 (Week 40 [+/- 1 week])

Early Termination Visit (if applicable)

Notes:

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

Justification: Endpoint was only evaluated for test group and therefore only descriptive statistics for test group is presented for this endpoint.

| End point values | Test group | | | |
|---|----------------------|--|--|--|
| Subject group type | Reporting group | | | |
| Number of subjects analysed | 132 ^[128] | | | |
| Units: Patients | | | | |
| Visit 3: At least good [Patient] | 126 | | | |
| Visit 3: Moderate or worse [Patient] | 2 | | | |
| Visit 5: At least good [Patient] | 118 | | | |
| Visit 5: Moderate or worse [Patient] | 0 | | | |
| Visit 7: At least good [Patient] | 100 | | | |
| Visit 7: Moderate or worse [Patient] | 0 | | | |
| Early Term.Visit: At least good [Patient] | 3 | | | |
| Early Term.Visit: Moderate or worse [Patient] | 1 | | | |
| Visit 3: At least good [Investigator] | 126 | | | |

| | | | | |
|---|-----|--|--|--|
| Visit 3: Moderate or worse [Investigator] | 2 | | | |
| Visit 5: At least good [Investigator] | 118 | | | |
| Visit 5: Moderate or worse [Investigator] | 0 | | | |
| Visit 7: At least good [Investigator] | 100 | | | |
| Visit 7: Moderate or worse [Investigator] | 0 | | | |
| Early Term.Visit: At least good [Investigator] | 2 | | | |
| Early Term.Visit: Moderate or worse [Investigator] | 2 | | | |

Notes:

[128] - Number of patients varies between visits.

Statistical analyses

No statistical analyses for this end point

Adverse events

Adverse events information

Timeframe for reporting adverse events:

Whole study period.

Adverse event reporting additional description:

As ATI and URTI occurrences were expected in the evaluated population and were part of efficacy analysis they were not regarded in the AE / SAE evaluation. Therefore events coded as J02, J03, J00, J06, J09, J10 and J11 (according to ICD-10) are not presented within the adverse event evaluation.

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

Dictionary used

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

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

Reporting groups

| | |
|-----------------------|------------|
| Reporting group title | Test Group |
|-----------------------|------------|

Reporting group description:

The test group received Tonsilotren tablets during Treatment Period I to III each for 8 weeks and - if needed - conventional symptomatic treatment for chronic tonsillitis.

| | |
|-----------------------|---------------|
| Reporting group title | Control group |
|-----------------------|---------------|

Reporting group description:

The control group was treated only with conventional symptomatic treatment if needed.

| Serious adverse events | Test Group | Control group | |
|---|-----------------|-----------------|--|
| Total subjects affected by serious adverse events | | | |
| subjects affected / exposed | 4 / 132 (3.03%) | 3 / 124 (2.42%) | |
| number of deaths (all causes) | 0 | 0 | |
| number of deaths resulting from adverse events | 0 | 0 | |
| Injury, poisoning and procedural complications | | | |
| Lower limb fracture | | | |
| subjects affected / exposed | 1 / 132 (0.76%) | 0 / 124 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Eye disorders | | | |
| Uveitis | | | |
| subjects affected / exposed | 1 / 132 (0.76%) | 0 / 124 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Reproductive system and breast disorders | | | |
| Endometriosis | | | |

| | | | |
|---|-----------------|-----------------|--|
| subjects affected / exposed | 0 / 132 (0.00%) | 1 / 124 (0.81%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Renal and urinary disorders | | | |
| Calculus ureteric | | | |
| subjects affected / exposed | 1 / 132 (0.76%) | 0 / 124 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Infections and infestations | | | |
| Appendicitis | | | |
| subjects affected / exposed | 1 / 132 (0.76%) | 1 / 124 (0.81%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Sinusitis | | | |
| subjects affected / exposed | 0 / 132 (0.00%) | 1 / 124 (0.81%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |

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

| Non-serious adverse events | Test Group | Control group | |
|---|-------------------|-------------------|--|
| Total subjects affected by non-serious adverse events | | | |
| subjects affected / exposed | 54 / 132 (40.91%) | 59 / 124 (47.58%) | |
| Nervous system disorders | | | |
| Headache | | | |
| subjects affected / exposed | 15 / 132 (11.36%) | 13 / 124 (10.48%) | |
| occurrences (all) | 55 | 22 | |
| Reproductive system and breast disorders | | | |
| Dysmenorrhoea | | | |
| subjects affected / exposed | 6 / 132 (4.55%) | 2 / 124 (1.61%) | |
| occurrences (all) | 8 | 2 | |
| Respiratory, thoracic and mediastinal disorders | | | |
| Rhinitis allergic | | | |
| subjects affected / exposed | 1 / 132 (0.76%) | 5 / 124 (4.03%) | |
| occurrences (all) | 1 | 8 | |

| | | | |
|---|---|--|--|
| Cough subjects affected / exposed occurrences (all) | 3 / 132 (2.27%) 5 | 4 / 124 (3.23%) 4 | |
| Musculoskeletal and connective tissue disorders Back pain subjects affected / exposed occurrences (all) | 5 / 132 (3.79%) 9 | 1 / 124 (0.81%) 2 | |
| Infections and infestations Acute sinusitis subjects affected / exposed occurrences (all) Bronchitis subjects affected / exposed occurrences (all) Otitis externa subjects affected / exposed occurrences (all) Sinusitis subjects affected / exposed occurrences (all) Laryngitis subjects affected / exposed occurrences (all) | 8 / 132 (6.06%) 9 3 / 132 (2.27%) 3 5 / 132 (3.79%) 12 0 / 132 (0.00%) 0 0 / 132 (0.00%) 0 | 12 / 124 (9.68%) 14 9 / 124 (7.26%) 9 1 / 124 (0.81%) 1 5 / 124 (4.03%) 7 4 / 124 (3.23%) 4 | |

More information

Substantial protocol amendments (globally)

Were there any global substantial amendments to the protocol? Yes

| Date | Amendment |
|----------------|--|
| 17 August 2012 | This amendment was implemented in Germany because of following German's ethics committee's (EC) request: 1. Sequential recruitment of patients: first 80 adult patients had to be recruited. Minors could only be recruited after the data of 80 adults who had passed the first 2 treatment cycles were presented to the German EC. This step was not required though as only 54 patients (adults) were recruited in total in Germany. 2. Specification of the study centers qualification: restriction to ear-nose-throat specialists. |

Notes:

Interruptions (globally)

Were there any global interruptions to the trial? No

Limitations and caveats

None reported