



Clinical trial results:

A Phase IIb, Multicenter, Randomized, Double-blind, Placebo-controlled, Multidose, 24-week Study to Evaluate the Efficacy and Safety of Atacicept in Subjects with Systemic Lupus Erythematosus (SLE)

Summary

| | |
|--------------------------|-------------------|
| EudraCT number | 2013-002773-21 |
| Trial protocol | CZ DE BG GB ES IT |
| Global end of trial date | 08 December 2016 |

Results information

| | |
|--------------------------------|------------------|
| Result version number | v1 (current) |
| This version publication date | 22 November 2017 |
| First version publication date | 22 November 2017 |

Trial information

Trial identification

| | |
|-----------------------|---------------|
| Sponsor protocol code | EMR700461-023 |
|-----------------------|---------------|

Additional study identifiers

| | |
|------------------------------------|-------------|
| ISRCTN number | - |
| ClinicalTrials.gov id (NCT number) | NCT01972568 |
| WHO universal trial number (UTN) | - |

Notes:

Sponsors

| | |
|------------------------------|---|
| Sponsor organisation name | Merck KGaA |
| Sponsor organisation address | Frankfurter Strasse 250, Darmstadt, Germany, 64293 |
| Public contact | Communication Center Merck KGaA, Merck KGaA, +49 6151725200, service@merckgroup.com |
| Scientific contact | Communication Center Merck KGaA, Merck KGaA, +49 6151725200, service@merckgroup.com |

Notes:

Paediatric regulatory details

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

Notes:

Results analysis stage

| | |
|--|-------------------|
| Analysis stage | Final |
| Date of interim/final analysis | 30 September 2016 |
| Is this the analysis of the primary completion data? | No |
| Global end of trial reached? | Yes |
| Global end of trial date | 08 December 2016 |
| Was the trial ended prematurely? | No |

Notes:

General information about the trial

Main objective of the trial:

To evaluate the efficacy of atacicept compared to placebo in reducing SLE disease activity in subjects treated with standard of care (SoC) therapy and to investigate the dose-response relationship

Protection of trial subjects:

Subject protection was ensured by following high medical and ethical standards in accordance with the principles laid down in the Declaration of Helsinki, and that are consistent with Good Clinical Practice and applicable regulations.

Background therapy: -

Evidence for comparator: -

| | |
|---|------------------|
| Actual start date of recruitment | 11 December 2013 |
| Long term follow-up planned | Yes |
| Long term follow-up rationale | Safety |
| Long term follow-up duration | 6 Months |
| Independent data monitoring committee (IDMC) involvement? | Yes |

Notes:

Population of trial subjects

Subjects enrolled per country

| | |
|--------------------------------------|------------------------|
| Country: Number of subjects enrolled | Korea, Republic of: 6 |
| Country: Number of subjects enrolled | Philippines: 21 |
| Country: Number of subjects enrolled | Bulgaria: 27 |
| Country: Number of subjects enrolled | Czech Republic: 7 |
| Country: Number of subjects enrolled | Germany: 4 |
| Country: Number of subjects enrolled | Italy: 2 |
| Country: Number of subjects enrolled | Poland: 1 |
| Country: Number of subjects enrolled | Russian Federation: 16 |
| Country: Number of subjects enrolled | South Africa: 12 |
| Country: Number of subjects enrolled | Spain: 3 |
| Country: Number of subjects enrolled | United Kingdom: 7 |
| Country: Number of subjects enrolled | Argentina: 52 |
| Country: Number of subjects enrolled | Brazil: 4 |
| Country: Number of subjects enrolled | Chile: 19 |
| Country: Number of subjects enrolled | Mexico: 55 |
| Country: Number of subjects enrolled | Peru: 7 |
| Country: Number of subjects enrolled | United States: 63 |

| | |
|------------------------------------|-----|
| Worldwide total number of subjects | 306 |
| EEA total number of subjects | 51 |

Notes:

| Subjects enrolled per age group | |
|---|-----|
| In utero | 0 |
| Preterm newborn - gestational age < 37 wk | 0 |
| Newborns (0-27 days) | 0 |
| Infants and toddlers (28 days-23 months) | 0 |
| Children (2-11 years) | 0 |
| Adolescents (12-17 years) | 0 |
| Adults (18-64 years) | 301 |
| From 65 to 84 years | 5 |
| 85 years and over | 0 |

Subject disposition

Recruitment

Recruitment details: -

Pre-assignment

Screening details:

The study was conducted at 136 sites in 18 countries in Asia, Europe, North America, Central America, and South America.

Period 1

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

Arms

| | |
|------------------------------|-----------------|
| Are arms mutually exclusive? | Yes |
| Arm title | Atacicept 75 mg |

Arm description:

Subjects received atacicept 75 milligram (mg) as once-weekly subcutaneous injection for 24 weeks.

| | |
|--|------------------|
| Arm type | Experimental |
| Investigational medicinal product name | Atacicept |
| Investigational medicinal product code | |
| Other name | |
| Pharmaceutical forms | Injection |
| Routes of administration | Subcutaneous use |

Dosage and administration details:

Subjects received atacicept 75 mg as once-weekly subcutaneous injection for 24 weeks.

| | |
|------------------|------------------|
| Arm title | Atacicept 150 mg |
|------------------|------------------|

Arm description:

Subjects received atacicept 150 mg as once-weekly subcutaneous injection for 24 weeks.

| | |
|--|------------------|
| Arm type | Experimental |
| Investigational medicinal product name | Atacicept |
| Investigational medicinal product code | |
| Other name | |
| Pharmaceutical forms | Injection |
| Routes of administration | Subcutaneous use |

Dosage and administration details:

Subjects received atacicept 150 mg as once-weekly subcutaneous injection for 24 weeks.

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

Arm description:

Subjects received placebo matched to atacicept as once-weekly subcutaneous injection for 24 weeks.

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

Dosage and administration details:

Subjects received placebo matched to atacicept as once-weekly subcutaneous injection for 24 weeks.

| Number of subjects in period 1 | Atacicept 75 mg | Atacicept 150 mg | Placebo |
|---------------------------------------|-----------------|------------------|---------|
| Started | 102 | 104 | 100 |
| Completed | 86 | 92 | 84 |
| Not completed | 16 | 12 | 16 |
| Consent withdrawn by subject | 6 | 3 | 7 |
| Adverse event, non-fatal | 5 | 6 | 5 |
| Lost to follow-up | 1 | - | - |
| Other events | 3 | - | - |
| Protocol deviation | 1 | 2 | 2 |
| Lack of efficacy | - | 1 | 2 |

Baseline characteristics

Reporting groups

| | |
|--|------------------|
| Reporting group title | Atacicept 75 mg |
| Reporting group description: | |
| Subjects received atacicept 75 milligram (mg) as once-weekly subcutaneous injection for 24 weeks. | |
| Reporting group title | Atacicept 150 mg |
| Reporting group description: | |
| Subjects received atacicept 150 mg as once-weekly subcutaneous injection for 24 weeks. | |
| Reporting group title | Placebo |
| Reporting group description: | |
| Subjects received placebo matched to atacicept as once-weekly subcutaneous injection for 24 weeks. | |

| Reporting group values | Atacicept 75 mg | Atacicept 150 mg | Placebo |
|------------------------|-----------------|------------------|---------|
| Number of subjects | 102 | 104 | 100 |
| Age categorical | | | |
| Units: Subjects | | | |

| | | | |
|---------------------|--------|--------|--------|
| Age Continuous | | | |
| Units: years | | | |
| arithmetic mean | 37 | 39 | 40 |
| standard deviation | ± 11.2 | ± 11.6 | ± 13.0 |
| Gender, Male/Female | | | |
| Units: Subjects | | | |
| Female | 93 | 97 | 90 |
| Male | 9 | 7 | 10 |

| Reporting group values | Total | | |
|------------------------|-------|--|--|
| Number of subjects | 306 | | |
| Age categorical | | | |
| Units: Subjects | | | |

| | | | |
|---------------------|-----|--|--|
| Age Continuous | | | |
| Units: years | | | |
| arithmetic mean | | | |
| standard deviation | - | | |
| Gender, Male/Female | | | |
| Units: Subjects | | | |
| Female | 280 | | |
| Male | 26 | | |

End points

End points reporting groups

| | |
|--|------------------|
| Reporting group title | Atacicept 75 mg |
| Reporting group description: Subjects received atacicept 75 milligram (mg) as once-weekly subcutaneous injection for 24 weeks. | |
| Reporting group title | Atacicept 150 mg |
| Reporting group description: Subjects received atacicept 150 mg as once-weekly subcutaneous injection for 24 weeks. | |
| Reporting group title | Placebo |
| Reporting group description: Subjects received placebo matched to atacicept as once-weekly subcutaneous injection for 24 weeks. | |

Primary: Percentage of Subjects With Systemic Lupus Erythematosus Responder Index (SRI) Response at Week 24 Using Screening Visit as Baseline

| | |
|---|--|
| End point title | Percentage of Subjects With Systemic Lupus Erythematosus Responder Index (SRI) Response at Week 24 Using Screening Visit as Baseline |
| End point description: SRI response, a composite measure of reduced SLE disease activity, was defined as a reduction in Systemic Lupus Erythematosus Disease Activity Index 2000 (SLEDAI-2K) disease activity score of greater than or equal to (\geq) 4 points; no significant worsening in Physician's Global Assessment (PGA) score (<10 % increase, defined as <0.3 point increase for statistical analyses); no new British Isles Lupus Assessment Group (BILAG) A organ domain scores and ≤ 1 (defined as no more than one) new BILAG B organ domain score. Modified intent-to-treat (mITT) analysis set included all randomised subjects who had received at least 1 dose of IMP. | |
| End point type | Primary |
| End point timeframe: Week 24 | |

| End point values | Atacicept 75 mg | Atacicept 150 mg | Placebo | |
|-------------------------------|-----------------|------------------|-----------------|--|
| Subject group type | Reporting group | Reporting group | Reporting group | |
| Number of subjects analysed | 102 | 104 | 100 | |
| Units: percentage of subjects | | | | |
| number (not applicable) | 57.8 | 53.8 | 44.0 | |

Statistical analyses

| | |
|----------------------------|----------------------------|
| Statistical analysis title | Statistical Analysis 1 |
| Comparison groups | Atacicept 150 mg v Placebo |

| | |
|---|---------------------------|
| Number of subjects included in analysis | 204 |
| Analysis specification | Pre-specified |
| Analysis type | other |
| P-value | = 0.1208 |
| Method | Logistic regression model |
| Parameter estimate | Odds ratio (OR) |
| Point estimate | 1.56 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | 0.89 |
| upper limit | 2.72 |

Primary: Percentage of Subjects With Systemic Lupus Erythematosus (SLE) Responder Index (SRI) Response at Week 24 Using Day 1 as Baseline

| | |
|-----------------|--|
| End point title | Percentage of Subjects With Systemic Lupus Erythematosus (SLE) Responder Index (SRI) Response at Week 24 Using Day 1 as Baseline |
|-----------------|--|

End point description:

SRI response, a composite measure of reduced SLE disease activity, was defined as a reduction in Systemic Lupus Erythematosus Disease Activity Index 2000 (SLEDAI-2K) disease activity score of greater than or equal to (\geq) 4 points; no significant worsening in Physician's Global Assessment (PGA) score (<10 % increase, defined as <0.3 point increase for statistical analyses); no new British Isles Lupus Assessment Group (BILAG) A organ domain scores and ≤ 1 (defined as no more than one) new BILAG B organ domain score. mITT analysis set included all randomized subjects who had received at least 1 dose of IMP.

| | |
|----------------------|---------|
| End point type | Primary |
| End point timeframe: | |
| Week 24 | |

| End point values | Atacicept 75 mg | Atacicept 150 mg | Placebo | |
|-------------------------------|-----------------|------------------|-----------------|--|
| Subject group type | Reporting group | Reporting group | Reporting group | |
| Number of subjects analysed | 102 | 104 | 100 | |
| Units: percentage of subjects | | | | |
| number (not applicable) | 55.9 | 55.8 | 41.0 | |

Statistical analyses

| | |
|-----------------------------------|----------------------------|
| Statistical analysis title | Statistical Analysis 1 |
| Comparison groups | Atacicept 150 mg v Placebo |

| | |
|---|---------------------------|
| Number of subjects included in analysis | 204 |
| Analysis specification | Pre-specified |
| Analysis type | other |
| P-value | = 0.0202 |
| Method | Logistic regression model |
| Parameter estimate | Odds ratio (OR) |
| Point estimate | 1.96 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | 1.11 |
| upper limit | 3.46 |

Secondary: Percentage of Subjects at Week 24 Whose Prednisone-Equivalent Corticosteroid (CS) Dose Reduced From Screening by $\geq 25\%$ and to a dose of $\leq 7.5\text{mg/day}$, and no British Isles Lupus Assessment Group (BILAG) A or 2B Flare in Disease Activity

| | |
|-----------------|---|
| End point title | Percentage of Subjects at Week 24 Whose Prednisone-Equivalent Corticosteroid (CS) Dose Reduced From Screening by $\geq 25\%$ and to a dose of $\leq 7.5\text{mg/day}$, and no British Isles Lupus Assessment Group (BILAG) A or 2B Flare in Disease Activity |
|-----------------|---|

End point description:

BILAG A or 2B flare defined by 1 new BILAG A organ domain score and/or 2 new BILAG B organ domain scores compared to the Screening Visit. The BILAG disease activity index evaluates systemic lupus erythematosus (SLE) activity in 8 organ systems, using a separate alphabetic score (A to E) assigned to each organ system defined as follows. BILAG A: Disease sufficiently active requiring disease-modifying treatment (prednisone $> 20\text{ mg}$ daily or immunosuppressants); BILAG B: moderate disease activity requiring treatment with systemic low-dose oral glucocorticoids, intramuscular or soft tissue CS injection, topical CS or immunosuppressants, or symptomatic therapy such as antimalarials or NSAIDs. BILAG C: mild disease; BILAG D: system previously affected but now inactive and BILAG E: system never involved. mITT analysis set included all randomised subjects who had received at least 1 dose of IMP. Here "Number of Subjects Analysed" signifies those subjects whose CS dose $\geq 10\text{mg}$ at Screening.

| | |
|----------------------|-----------|
| End point type | Secondary |
| End point timeframe: | |
| Week 24 | |

| End point values | Atacicept 75 mg | Atacicept 150 mg | Placebo | |
|-------------------------------|-----------------|------------------|-----------------|--|
| Subject group type | Reporting group | Reporting group | Reporting group | |
| Number of subjects analysed | 56 | 53 | 53 | |
| Units: percentage of subjects | | | | |
| number (not applicable) | 17.9 | 11.3 | 18.9 | |

Statistical analyses

No statistical analyses for this end point

Secondary: Percentage of Subjects With Patient Global Impression of Change (PGIC) Categories at Week 24

| | |
|---|--|
| End point title | Percentage of Subjects With Patient Global Impression of Change (PGIC) Categories at Week 24 |
| End point description: The PGIC is self-rated scale that asks the subject to describe the change in activity limitations, symptoms, emotions, and overall Quality of life (QoL) related to the subject's painful condition on the following scale: 1 (very much improved), 2 (much improved), 3 (minimally improved), 4 (no change), 5 (minimally worse), 6 (much worse) and 7 (very much worse). Percentage of subjects in the PGIC categories of very much or much improved (1 or 2), minimally improved or no change or minimally worse (3 or 4 or 5) and much or very much worse (6 or 7) at Week 24 were presented. mITT analysis set included all randomised subjects who had received at least 1 dose of IMP. | |
| End point type | Secondary |
| End point timeframe: Week 24 | |

| End point values | Atacicept 75 mg | Atacicept 150 mg | Placebo | |
|--|-----------------|------------------|-----------------|--|
| Subject group type | Reporting group | Reporting group | Reporting group | |
| Number of subjects analysed | 102 | 104 | 100 | |
| Units: percentage of subjects | | | | |
| number (not applicable) | | | | |
| Very much or much improved | 57.8 | 53.8 | 46.0 | |
| Minimally improved or no change or minimally worse | 39.2 | 44.2 | 46.0 | |
| Much or very much worse | 2.0 | 1.0 | 6.0 | |
| Missing | 1.0 | 1.0 | 2.0 | |

Statistical analyses

No statistical analyses for this end point

Secondary: Change From Screening in Prednisolone-Equivalent Corticosteroid (CS) Daily Dose at Week 24

| | |
|--|--|
| End point title | Change From Screening in Prednisolone-Equivalent Corticosteroid (CS) Daily Dose at Week 24 |
| End point description: Change From screening visit to Week 24 of prednisolone-equivalent CS daily dose was presented. mITT analysis set included all randomised subjects who had received at least 1 dose of IMP. | |
| End point type | Secondary |
| End point timeframe: Screening and Week 24 | |

| End point values | Atacicept 75 mg | Atacicept 150 mg | Placebo | |
|--------------------------------------|-----------------|------------------|-----------------|--|
| Subject group type | Reporting group | Reporting group | Reporting group | |
| Number of subjects analysed | 102 | 104 | 100 | |
| Units: mg per day | | | | |
| arithmetic mean (standard deviation) | -2.64 (± 6.106) | -1.87 (± 4.653) | -1.89 (± 5.588) | |

Statistical analyses

No statistical analyses for this end point

Secondary: Time From Randomization to First SRI Response During Treatment Period

| | |
|-----------------|---|
| End point title | Time From Randomization to First SRI Response During Treatment Period |
|-----------------|---|

End point description:

SRI response, a composite measure of reduced SLE disease activity, was defined as a reduction in Systemic Lupus Erythematosus Disease Activity Index 2000 (SLEDAI-2K) disease activity score of greater than or equal to (\geq) 4 points; no significant worsening in Physician's Global Assessment (PGA) score (<10 % increase, defined as <0.3 point increase for statistical analyses); no new British Isles Lupus Assessment Group (BILAG) A organ domain scores and ≤ 1 (defined as no more than one) new BILAG B organ domain score. Time to randomization to first SRI response during treatment period was presented. mITT analysis set included all randomised subjects who had received at least 1 dose of IMP.

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

End point timeframe:

Baseline up to 24 Weeks

| End point values | Atacicept 75 mg | Atacicept 150 mg | Placebo | |
|----------------------------------|---------------------|---------------------|---------------------|--|
| Subject group type | Reporting group | Reporting group | Reporting group | |
| Number of subjects analysed | 102 | 104 | 100 | |
| Units: weeks | | | | |
| median (confidence interval 95%) | 12.4 (12.1 to 16.7) | 16.1 (12.0 to 16.4) | 16.1 (12.1 to 20.1) | |

Statistical analyses

No statistical analyses for this end point

Secondary: Percentage of Subjects With British Isles Lupus Assessment Group (BILAG)-Based Combined Lupus Assessment (BICLA) Response at Week 24

| | |
|-----------------|--|
| End point title | Percentage of Subjects With British Isles Lupus Assessment Group (BILAG)-Based Combined Lupus Assessment (BICLA) Response at Week 24 |
|-----------------|--|

End point description:

The BICLA response is defined as BILAG-2004 improvement (all screening visit BILAG A improving to B/C/D, all screening visit BILAG B to C/D, and ≤ 1 new BILAG B and no new BILAG A); no deterioration in SLEDAI total score; PGA increase by $<10\%$ (defined as <0.3 point increase for the statistical

analyses) and no nonpermitted medication/treatment. mITT analysis set included all randomised subjects who had received at least 1 dose of IMP.

| | |
|----------------------|-----------|
| End point type | Secondary |
| End point timeframe: | |
| Week 24 | |

| End point values | Atacicept 75 mg | Atacicept 150 mg | Placebo | |
|-------------------------------|-----------------|------------------|-----------------|--|
| Subject group type | Reporting group | Reporting group | Reporting group | |
| Number of subjects analysed | 88 | 100 | 93 | |
| Units: percentage of subjects | | | | |
| number (not applicable) | 53.4 | 49.0 | 45.2 | |

Statistical analyses

No statistical analyses for this end point

Secondary: Percentage of Subjects with Treatment-Emergent Adverse Events (TEAEs) and Serious TEAEs

| | |
|-----------------|---|
| End point title | Percentage of Subjects with Treatment-Emergent Adverse Events (TEAEs) and Serious TEAEs |
|-----------------|---|

End point description:

An AE was defined as any unfavourable and unintended sign (including an abnormal laboratory finding), symptom, or disease temporally associated with the use of study drug, whether or not considered related to the study drug. A serious AE was an AE that resulted in any of the following outcomes: death; life threatening; persistent/significant disability/incapacity; initial or prolonged inpatient hospitalization; congenital anomaly/birth defect or was otherwise considered medically important. Treatment-emergent are events between first dose of study drug and up to 48 weeks. TEAEs include both Serious TEAEs and non-serious TEAEs. Safety analysis set included all randomised subjects who received at least 1 dose of IMP.

| | |
|--|-----------|
| End point type | Secondary |
| End point timeframe: | |
| Baseline up to 24 weeks after last dose of study drug (assessed up to maximum of 48 weeks) | |

| End point values | Atacicept 75 mg | Atacicept 150 mg | Placebo | |
|-------------------------------|-----------------|------------------|-----------------|--|
| Subject group type | Reporting group | Reporting group | Reporting group | |
| Number of subjects analysed | 102 | 104 | 100 | |
| Units: percentage of subjects | | | | |
| number (not applicable) | | | | |
| TEAEs | 81.4 | 80.8 | 72.0 | |
| Serious TEAEs | 8.8 | 5.8 | 12.0 | |

Statistical analyses

Secondary: Change From Week 0 Day 1 in SF-36 Components at Week 24

| | |
|---|---|
| End point title | Change From Week 0 Day 1 in SF-36 Components at Week 24 |
| End point description: | |
| The 36-Item Short-Form Health Survey (SF-36) is a standardized survey evaluating 8 aspects of functional health and well being: physical and social functioning, physical and emotional role limitations, bodily pain, general health, vitality, mental health. These 8 aspects can also be summarized as physical and mental component summary scores. Total of 10 variables were analyzed (8 aspects, 2 component summary scores). The score for each of the 8 aspects and 2 component summary scores was scaled from 0 to 100, where 0 = lowest level of functioning and 100 = highest level of functioning. | |
| End point type | Secondary |
| End point timeframe: | |
| Week 0 Day 1 and Week 24 | |

| End point values | Atacicept 75 mg | Atacicept 150 mg | Placebo | |
|--|-----------------|------------------|-----------------|--|
| Subject group type | Reporting group | Reporting group | Reporting group | |
| Number of subjects analysed | 102 | 104 | 100 | |
| Units: units on a scale | | | | |
| arithmetic mean (standard deviation) | | | | |
| Physical Component Summary (n=101,100, 97) | 4.7 (± 7.95) | 3.4 (± 7.57) | 3.5 (± 10.33) | |
| Mental Component Summary (n=101,100, 97) | 1.9 (± 12.01) | 1.8 (± 9.08) | 0.7 (± 11.44) | |
| Physical Functioning (n=85, 89, 82) | 3.5 (± 9.30) | 3.8 (± 8.42) | 3.3 (± 8.62) | |
| Role-Physical (n=85, 89, 82) | 4.3 (± 10.26) | 2.3 (± 8.64) | 3.9 (± 9.51) | |
| Bodily Pain (n=85, 89, 82) | 6.0 (± 10.22) | 4.4 (± 9.30) | 5.6 (± 10.72) | |
| General Health (n=84, 89, 82) | 2.9 (± 8.43) | 3.0 (± 7.72) | 4.4 (± 8.00) | |
| Vitality (n=84, 89, 82) | 3.9 (± 9.86) | 3.7 (± 9.76) | 3.5 (± 9.57) | |
| Social Functioning (n=85, 89, 82) | 3.8 (± 11.45) | 2.2 (± 10.06) | 4.3 (± 11.08) | |

Statistical analyses

No statistical analyses for this end point

Post-hoc: High Disease Activity Subpopulation (SLEDAI-2K ≥10 at Screening): Logistic Regression of Percentage of Subjects With SRI-6 Response at Week 24

| | |
|---|--|
| End point title | High Disease Activity Subpopulation (SLEDAI-2K ≥10 at Screening): Logistic Regression of Percentage of Subjects With SRI-6 Response at Week 24 |
| End point description: | |
| SRI-6 response, a composite measure of reduced SLE disease activity, was defined as a reduction in Systemic Lupus Erythematosus Disease Activity Index 2000 (SLEDAI-2K) disease activity score of greater than or equal to (≥) 6 points; no significant worsening in Physician's Global Assessment (PGA) score (<10 % increase, defined as <0.3 point increase for statistical analyses); no new British Isles Lupus Assessment Group (BILAG) A organ domain scores and ≤1 (defined as no more than one) new BILAG B organ domain score. Logistic regression of number of subjects with SRI-6 response was analyzed by using Logistic regression model. mITT_HDA analysis set included mITT population with high disease activity (HDA) defined as screening SLE Disease Activity Index (SLEDAI) ≥10. | |
| End point type | Post-hoc |

End point timeframe:

Week 24

| End point values | Atacicept 75 mg | Atacicept 150 mg | Placebo | |
|-------------------------------|-----------------|------------------|-----------------|--|
| Subject group type | Reporting group | Reporting group | Reporting group | |
| Number of subjects analysed | 55 | 51 | 52 | |
| Units: percentage of subjects | | | | |
| number (not applicable) | 43.6 | 54.9 | 28.8 | |

Statistical analyses

| | |
|---|----------------------------|
| Statistical analysis title | Statistical Analysis 1 |
| Comparison groups | Atacicept 150 mg v Placebo |
| Number of subjects included in analysis | 103 |
| Analysis specification | Post-hoc |
| Analysis type | other |
| P-value | = 0.0048 |
| Method | Logistic regression model |
| Parameter estimate | Odds ratio (OR) |
| Point estimate | 3.31 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | 1.44 |
| upper limit | 7.61 |

Adverse events

Adverse events information

Timeframe for reporting adverse events:

Baseline up to 24 weeks after last dose of study drug (assessed up to maximum of 48 weeks)

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

Dictionary used

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

| | |
|--------------------|------|
| Dictionary version | 19.1 |
|--------------------|------|

Reporting groups

| | |
|-----------------------|---------------|
| Reporting group title | Atacept 75 mg |
|-----------------------|---------------|

Reporting group description:

Subjects received atacept 75 milligram (mg) as once-weekly subcutaneous injection for 24 weeks.

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

Reporting group description:

Subjects received placebo matched to atacept as once-weekly subcutaneous injection for 24 weeks.

| | |
|-----------------------|----------------|
| Reporting group title | Atacept 150 mg |
|-----------------------|----------------|

Reporting group description:

Subjects received atacept 150 mg as once-weekly subcutaneous injection for 24 weeks.

| Serious adverse events | Atacept 75 mg | Placebo | Atacept 150 mg |
|---|-----------------|-------------------|-----------------|
| Total subjects affected by serious adverse events | | | |
| subjects affected / exposed | 9 / 102 (8.82%) | 12 / 100 (12.00%) | 6 / 104 (5.77%) |
| number of deaths (all causes) | 0 | 0 | 0 |
| number of deaths resulting from adverse events | | | |
| Neoplasms benign, malignant and unspecified (incl cysts and polyps) | | | |
| Lipoma | | | |
| subjects affected / exposed | 0 / 102 (0.00%) | 1 / 100 (1.00%) | 0 / 104 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Vascular disorders | | | |
| Hypertension | | | |
| subjects affected / exposed | 0 / 102 (0.00%) | 0 / 100 (0.00%) | 1 / 104 (0.96%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 1 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Peripheral artery occlusion | | | |
| subjects affected / exposed | 0 / 102 (0.00%) | 0 / 100 (0.00%) | 1 / 104 (0.96%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 1 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |

| | | | |
|---|-----------------|-----------------|-----------------|
| Reproductive system and breast disorders | | | |
| Metrorrhagia | | | |
| subjects affected / exposed | 0 / 102 (0.00%) | 1 / 100 (1.00%) | 0 / 104 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Uterine haemorrhage | | | |
| subjects affected / exposed | 0 / 102 (0.00%) | 1 / 100 (1.00%) | 0 / 104 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Respiratory, thoracic and mediastinal disorders | | | |
| Acute respiratory distress syndrome | | | |
| subjects affected / exposed | 0 / 102 (0.00%) | 1 / 100 (1.00%) | 0 / 104 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Aspiration | | | |
| subjects affected / exposed | 0 / 102 (0.00%) | 1 / 100 (1.00%) | 0 / 104 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Interstitial lung disease | | | |
| subjects affected / exposed | 0 / 102 (0.00%) | 0 / 100 (0.00%) | 1 / 104 (0.96%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 1 / 1 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Pulmonary hypertension | | | |
| subjects affected / exposed | 0 / 102 (0.00%) | 1 / 100 (1.00%) | 0 / 104 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Pulmonary oedema | | | |
| subjects affected / exposed | 0 / 102 (0.00%) | 1 / 100 (1.00%) | 0 / 104 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Respiratory failure | | | |

| | | | |
|---|-----------------|-----------------|-----------------|
| subjects affected / exposed | 0 / 102 (0.00%) | 1 / 100 (1.00%) | 0 / 104 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Injury, poisoning and procedural complications | | | |
| Ligament injury | | | |
| subjects affected / exposed | 0 / 102 (0.00%) | 1 / 100 (1.00%) | 0 / 104 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Congenital, familial and genetic disorders | | | |
| Atrial septal defect | | | |
| subjects affected / exposed | 0 / 102 (0.00%) | 0 / 100 (0.00%) | 1 / 104 (0.96%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 1 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Cardiac disorders | | | |
| Angina pectoris | | | |
| subjects affected / exposed | 0 / 102 (0.00%) | 1 / 100 (1.00%) | 0 / 104 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Cardiac failure congestive | | | |
| subjects affected / exposed | 0 / 102 (0.00%) | 1 / 100 (1.00%) | 0 / 104 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Mitral valve prolapse | | | |
| subjects affected / exposed | 0 / 102 (0.00%) | 1 / 100 (1.00%) | 0 / 104 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Right ventricular dilatation | | | |
| subjects affected / exposed | 0 / 102 (0.00%) | 1 / 100 (1.00%) | 0 / 104 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Nervous system disorders | | | |
| Headache | | | |

| | | | |
|---|-----------------|-----------------|-----------------|
| subjects affected / exposed | 1 / 102 (0.98%) | 0 / 100 (0.00%) | 0 / 104 (0.00%) |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Sciatica | | | |
| subjects affected / exposed | 0 / 102 (0.00%) | 0 / 100 (0.00%) | 1 / 104 (0.96%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 1 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Temporal lobe epilepsy | | | |
| subjects affected / exposed | 0 / 102 (0.00%) | 1 / 100 (1.00%) | 0 / 104 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 1 / 1 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Blood and lymphatic system disorders | | | |
| Iron deficiency anaemia | | | |
| subjects affected / exposed | 0 / 102 (0.00%) | 0 / 100 (0.00%) | 1 / 104 (0.96%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 1 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Thrombocytopenia | | | |
| subjects affected / exposed | 0 / 102 (0.00%) | 1 / 100 (1.00%) | 0 / 104 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Gastrointestinal disorders | | | |
| Dyspepsia | | | |
| subjects affected / exposed | 0 / 102 (0.00%) | 1 / 100 (1.00%) | 0 / 104 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Hepatobiliary disorders | | | |
| Cholecystitis acute | | | |
| subjects affected / exposed | 0 / 102 (0.00%) | 0 / 100 (0.00%) | 1 / 104 (0.96%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 1 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Skin and subcutaneous tissue disorders | | | |
| Angioedema | | | |

| | | | |
|---|-----------------|-----------------|-----------------|
| subjects affected / exposed | 0 / 102 (0.00%) | 0 / 100 (0.00%) | 1 / 104 (0.96%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 1 / 1 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Renal and urinary disorders | | | |
| Acute kidney injury | | | |
| subjects affected / exposed | 0 / 102 (0.00%) | 2 / 100 (2.00%) | 0 / 104 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 2 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Musculoskeletal and connective tissue disorders | | | |
| Osteoarthritis | | | |
| subjects affected / exposed | 0 / 102 (0.00%) | 1 / 100 (1.00%) | 0 / 104 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Osteonecrosis | | | |
| subjects affected / exposed | 1 / 102 (0.98%) | 0 / 100 (0.00%) | 0 / 104 (0.00%) |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Systemic lupus erythematosus | | | |
| subjects affected / exposed | 1 / 102 (0.98%) | 2 / 100 (2.00%) | 0 / 104 (0.00%) |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 2 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Infections and infestations | | | |
| Abscess neck | | | |
| subjects affected / exposed | 1 / 102 (0.98%) | 0 / 100 (0.00%) | 0 / 104 (0.00%) |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Appendicitis | | | |
| subjects affected / exposed | 0 / 102 (0.00%) | 1 / 100 (1.00%) | 0 / 104 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 1 / 1 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Arthritis bacterial | | | |
| subjects affected / exposed | 1 / 102 (0.98%) | 0 / 100 (0.00%) | 0 / 104 (0.00%) |
| occurrences causally related to treatment / all | 1 / 1 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |

| | | | |
|---|-----------------|-----------------|-----------------|
| Bronchitis | | | |
| subjects affected / exposed | 1 / 102 (0.98%) | 1 / 100 (1.00%) | 0 / 104 (0.00%) |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 1 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Cardiac valve vegetation | | | |
| subjects affected / exposed | 0 / 102 (0.00%) | 0 / 100 (0.00%) | 1 / 104 (0.96%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 1 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Cellulitis | | | |
| subjects affected / exposed | 1 / 102 (0.98%) | 0 / 100 (0.00%) | 0 / 104 (0.00%) |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Endocarditis bacterial | | | |
| subjects affected / exposed | 0 / 102 (0.00%) | 0 / 100 (0.00%) | 1 / 104 (0.96%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 1 / 1 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Gastroenteritis | | | |
| subjects affected / exposed | 1 / 102 (0.98%) | 0 / 100 (0.00%) | 0 / 104 (0.00%) |
| occurrences causally related to treatment / all | 1 / 1 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Gastroenteritis viral | | | |
| subjects affected / exposed | 0 / 102 (0.00%) | 1 / 100 (1.00%) | 0 / 104 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Infective aortitis | | | |
| subjects affected / exposed | 0 / 102 (0.00%) | 0 / 100 (0.00%) | 1 / 104 (0.96%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 1 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Lymph node abscess | | | |
| subjects affected / exposed | 1 / 102 (0.98%) | 0 / 100 (0.00%) | 0 / 104 (0.00%) |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Nasopharyngitis | | | |

| | | | |
|---|-----------------|-----------------|-----------------|
| subjects affected / exposed | 0 / 102 (0.00%) | 1 / 100 (1.00%) | 0 / 104 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Ophthalmic herpes zoster | | | |
| subjects affected / exposed | 0 / 102 (0.00%) | 1 / 100 (1.00%) | 0 / 104 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 1 / 1 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Parotitis | | | |
| subjects affected / exposed | 1 / 102 (0.98%) | 0 / 100 (0.00%) | 0 / 104 (0.00%) |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Peritonitis | | | |
| subjects affected / exposed | 0 / 102 (0.00%) | 1 / 100 (1.00%) | 0 / 104 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Pharyngitis | | | |
| subjects affected / exposed | 0 / 102 (0.00%) | 1 / 100 (1.00%) | 0 / 104 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Pneumonia | | | |
| subjects affected / exposed | 1 / 102 (0.98%) | 1 / 100 (1.00%) | 0 / 104 (0.00%) |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 1 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Pyelonephritis | | | |
| subjects affected / exposed | 0 / 102 (0.00%) | 1 / 100 (1.00%) | 0 / 104 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 1 / 1 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Sinusitis | | | |
| subjects affected / exposed | 0 / 102 (0.00%) | 1 / 100 (1.00%) | 0 / 104 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Sinusitis bacterial | | | |

| | | | |
|---|-----------------|-----------------|-----------------|
| subjects affected / exposed | 1 / 102 (0.98%) | 0 / 100 (0.00%) | 0 / 104 (0.00%) |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Streptococcal bacteraemia | | | |
| subjects affected / exposed | 0 / 102 (0.00%) | 1 / 100 (1.00%) | 0 / 104 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Streptococcal sepsis | | | |
| subjects affected / exposed | 0 / 102 (0.00%) | 1 / 100 (1.00%) | 1 / 104 (0.96%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | 1 / 1 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Urinary tract infection | | | |
| subjects affected / exposed | 1 / 102 (0.98%) | 0 / 100 (0.00%) | 0 / 104 (0.00%) |
| occurrences causally related to treatment / all | 1 / 1 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Metabolism and nutrition disorders | | | |
| Acidosis | | | |
| subjects affected / exposed | 0 / 102 (0.00%) | 1 / 100 (1.00%) | 0 / 104 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |

Frequency threshold for reporting non-serious adverse events: 5 %

| Non-serious adverse events | Atacicept 75 mg | Placebo | Atacicept 150 mg |
|---|-------------------|-------------------|-------------------|
| Total subjects affected by non-serious adverse events | | | |
| subjects affected / exposed | 83 / 102 (81.37%) | 72 / 100 (72.00%) | 84 / 104 (80.77%) |
| Nervous system disorders | | | |
| Headache | | | |
| subjects affected / exposed | 11 / 102 (10.78%) | 8 / 100 (8.00%) | 15 / 104 (14.42%) |
| occurrences (all) | 11 | 8 | 15 |
| General disorders and administration site conditions | | | |
| Fatigue | | | |
| subjects affected / exposed | 6 / 102 (5.88%) | 2 / 100 (2.00%) | 3 / 104 (2.88%) |
| occurrences (all) | 6 | 2 | 3 |
| Injection site pain | | | |

| | | | |
|---|-------------------------|-------------------------|-------------------------|
| subjects affected / exposed occurrences (all) | 12 / 102 (11.76%) 12 | 7 / 100 (7.00%) 7 | 14 / 104 (13.46%) 14 |
| Injection site reaction subjects affected / exposed occurrences (all) | 42 / 102 (41.18%) 42 | 19 / 100 (19.00%) 19 | 43 / 104 (41.35%) 43 |
| Gastrointestinal disorders | | | |
| Diarrhoea subjects affected / exposed occurrences (all) | 8 / 102 (7.84%) 8 | 5 / 100 (5.00%) 5 | 12 / 104 (11.54%) 12 |
| Nausea subjects affected / exposed occurrences (all) | 9 / 102 (8.82%) 9 | 1 / 100 (1.00%) 1 | 5 / 104 (4.81%) 5 |
| Musculoskeletal and connective tissue disorders | | | |
| Back pain subjects affected / exposed occurrences (all) | 4 / 102 (3.92%) 4 | 7 / 100 (7.00%) 7 | 3 / 104 (2.88%) 3 |
| Infections and infestations | | | |
| Nasopharyngitis subjects affected / exposed occurrences (all) | 6 / 102 (5.88%) 6 | 5 / 100 (5.00%) 5 | 7 / 104 (6.73%) 7 |
| Upper respiratory tract infection subjects affected / exposed occurrences (all) | 10 / 102 (9.80%) 10 | 3 / 100 (3.00%) 3 | 13 / 104 (12.50%) 13 |
| Urinary tract infection subjects affected / exposed occurrences (all) | 12 / 102 (11.76%) 12 | 17 / 100 (17.00%) 17 | 12 / 104 (11.54%) 12 |

More information

Substantial protocol amendments (globally)

Were there any global substantial amendments to the protocol? Yes

| Date | Amendment |
|---------------|---|
| 12 June 2014 | <ul style="list-style-type: none">- Included additional detail and clarity in the secondary endpoints- Included additional detail and clarity in the study entry criteria- Included additional detail and clarity in the efficacy and safety assessments |
| 25 March 2015 | <ul style="list-style-type: none">- Clarified hepatitis B and hepatitis C screening requirements- Clarified language regarding nonpermitted medications and provided further instruction regarding which will require IMP discontinuation and which will constitute a protocol violation- Clarified language regarding continuing with the trial visits if withdrawal of IMP- Clarified that other than TB testing, the Screening laboratory results could be re-assessed one time with the permission of the Medical Monitor- Clarified language regarding for flow cytometry of PD markers and deleted exploratory monocyte and neutrophils PD endpoints due to challenges encountered with developing a validated assay. Of note, the monocyte and neutrophil absolute numbers were continued to be measured by the cell blood count as the standard laboratory measurements- Clarified language regarding the vaccine recommendation for subjects with prior severe hypersensitivity reactions to the vaccines |

Notes:

Interruptions (globally)

Were there any global interruptions to the trial? No

Limitations and caveats

None reported