



## Clinical trial results:

### Rheumatoid Arthritis: A Phase 2 Study to Investigate the Safety and Efficacy of ABBV-105 Given Alone or in Combination with Upadacitinib (ABBV-599 Combination) with a Background of Conventional Synthetic DMARDs in Subjects with Active Rheumatoid Arthritis with Inadequate Response or Intolerance to Biologic DMARDs

#### Summary

|                          |                |
|--------------------------|----------------|
| EudraCT number           | 2018-000666-10 |
| Trial protocol           | GB HU BE ES    |
| Global end of trial date | 26 March 2020  |

#### Results information

|                                |  |
|--------------------------------|--|
| Result version number          | v2 (current)   |
| This version publication date  | 20 May 2021  |
| First version publication date | 20 March 2021  |
| Version creation reason        | • Correction of full data set<br>Edited endpoint description and the global end of trial date. |

#### Trial information

##### Trial identification

|                       |         |
|-----------------------|---------|
| Sponsor protocol code | M16-063 |
|-----------------------|---------|

##### Additional study identifiers

|                                    |             |
|------------------------------------|-------------|
| ISRCTN number                      | -           |
| ClinicalTrials.gov id (NCT number) | NCT03682705 |
| WHO universal trial number (UTN)   | -           |

Notes:

#### Sponsors

|                              |   |
|------------------------------|---|
| Sponsor organisation name    | AbbVie Deutschland GmbH & Co. KG  |
| Sponsor organisation address | AbbVie House, Vanwall Business Park, Vanwall Road,,<br>Maidenhead, Berkshire, United Kingdom, SL6 4UB |
| Public contact               | Global Medical Services, AbbVie, 001 8006339110,<br>abbvieclinicaltrials@abbvie.com                   |
| Scientific contact           | Global Medical Services, AbbVie, 001 8006339110,<br>abbvieclinicaltrials@abbvie.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                       | 26 March 2020 |
| Is this the analysis of the primary completion data? | No            |
| Global end of trial reached?                         | Yes           |
| Global end of trial date                             | 26 March 2020 |
| Was the trial ended prematurely?                     | No            |

Notes:

## General information about the trial

Main objective of the trial:

This was a 12-week, randomized, double-blind, parallel-group, Phase 2, dose exploratory, multicenter study. to evaluate the safety and efficacy of elsabrutinib (ELS) and ABBV-599 (ELS plus upadacitinib [UPA]) vs placebo on a background of conventional synthetic disease-modifying anti-rheumatic drugs (csDMARDs) for the treatment of signs and symptoms of rheumatoid arthritis (RA) in biological disease-modifying anti-rheumatic drugs (bDMARD)-inadequate response (bDMARD-IR) or bDMARD-intolerant participants with moderately to severely active RA and to define optimal dose for further development. Participants who met eligibility criteria were randomized in a 3:2:2:2:2:1 ratio to 1 of 6 treatment groups: ABBV-599 [UPA 15 mg/ ELS 60 mg]; ELS 60 mg/UPA placebo; ELS 20 mg/UPA placebo; ELS 5 mg/UPA placebo; UPA 15 mg/ELS placebo; and ELS placebo/UPA placebo. The study included a 35-day maximum screening period and a 12-week treatment period with 30-day follow-up.

Protection of trial subjects:

Subjects or their legally authorized representative must have voluntarily signed and dated an informed consent, approved by an independent ethics committee (IEC)/institutional review board (IRB), prior to the initiation of any screening or study-specific procedures.

Background therapy: -

Evidence for comparator: -

|   |                 |
|---|-----------------|
| Actual start date of recruitment                          | 08 October 2018 |
| 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 | Canada: 6          |
| Country: Number of subjects enrolled | Puerto Rico: 6     |
| Country: Number of subjects enrolled | United States: 131 |
| Country: Number of subjects enrolled | Belgium: 2         |
| Country: Number of subjects enrolled | Hungary: 29        |
| Country: Number of subjects enrolled | Poland: 23         |
| Country: Number of subjects enrolled | Spain: 24          |
| Country: Number of subjects enrolled | Czechia: 20        |
| Country: Number of subjects enrolled | United Kingdom: 1  |
| Worldwide total number of subjects   | 242                |
| EEA total number of subjects         | 98                 |

Notes:

| <b>Subjects enrolled per age group</b>    |     |
|---|-----|
| 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)                      | 162 |
| From 65 to 84 years                       | 80  |
| 85 years and over                         | 0   |

## Subject disposition

### Recruitment

Recruitment details: -

### Pre-assignment

Screening details:

Full Analysis Set: all randomized participants who received at least 1 dose of randomized study drug

### 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                | Investigator, Monitor, Assessor, Subject |

### Arms

|                              |                         |
|------------------------------|-------------------------|
| Are arms mutually exclusive? | Yes                     |
| <b>Arm title</b>             | ELS placebo/UPA placebo |

Arm description:

Placebo capsule for elsubrutinib once a day by mouth for 12 weeks; placebo film-coated tablet for upadacitinib once a day by mouth for 12 weeks

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

Dosage and administration details:

Placebo capsule for elsubrutinib will be administered orally.

|  |                          |
|--|--------------------------|
| Investigational medicinal product name | Placebo for upadacitinib |
| Investigational medicinal product code |                          |
| Other name                             |                          |
| Pharmaceutical forms                   | Film-coated tablet       |
| Routes of administration               | Oral use                 |

Dosage and administration details:

Placebo tablet for upadacitinib will be administered orally.

|                  |                     |
|------------------|---------------------|
| <b>Arm title</b> | UPA 15 mg/ELS 60 mg |
|------------------|---------------------|

Arm description:

15 mg film-coated upadacitinib tablet once a day by mouth for 12 weeks; 60 mg elsubrutinib capsule once a day by mouth for 12 weeks

|  |              |
|--|--------------|
| Arm type                               | Experimental |
| Investigational medicinal product name | Elsubrutinib |
| Investigational medicinal product code |              |
| Other name                             | ABBV-105     |
| Pharmaceutical forms                   | Capsule      |
| Routes of administration               | Oral use     |

Dosage and administration details:

Elsubrutinib capsule will be administered orally.

|  |                    |
|--|--------------------|
| Investigational medicinal product name | Upadacitinib       |
| Investigational medicinal product code |                    |
| Other name                             | ABT-494            |
| Pharmaceutical forms                   | Film-coated tablet |
| Routes of administration               | Oral use           |

Dosage and administration details:

Upadacitinib tablet will be administered orally.

|                  |                       |
|------------------|-----------------------|
| <b>Arm title</b> | ELS 60 mg/UPA placebo |
|------------------|-----------------------|

Arm description:

60 mg elsubrutinib capsule once a day by mouth for 12 weeks; placebo film-coated tablet for upadacitinib once a day by mouth for 12 weeks

|  |              |
|--|--------------|
| Arm type                               | Experimental |
| Investigational medicinal product name | Elsubrutinib |
| Investigational medicinal product code |              |
| Other name                             | ABBV-105     |
| Pharmaceutical forms                   | Capsule      |
| Routes of administration               | Oral use     |

Dosage and administration details:

Elsubrutinib capsule will be administered orally.

|  |                          |
|--|--------------------------|
| Investigational medicinal product name | Placebo for upadacitinib |
| Investigational medicinal product code |                          |
| Other name                             |                          |
| Pharmaceutical forms                   | Film-coated tablet       |
| Routes of administration               | Oral use                 |

Dosage and administration details:

Placebo tablet for upadacitinib will be administered orally.

|                  |                       |
|------------------|-----------------------|
| <b>Arm title</b> | ELS 20 mg/UPA placebo |
|------------------|-----------------------|

Arm description:

20 mg elsubrutinib capsule once a day by mouth for 12 weeks; placebo film-coated tablet for upadacitinib once a day by mouth for 12 weeks

|  |              |
|--|--------------|
| Arm type                               | Experimental |
| Investigational medicinal product name | Elsubrutinib |
| Investigational medicinal product code |              |
| Other name                             | ABBV-105     |
| Pharmaceutical forms                   | Capsule      |
| Routes of administration               | Oral use     |

Dosage and administration details:

Elsubrutinib capsule will be administered orally.

|  |                          |
|--|--------------------------|
| Investigational medicinal product name | Placebo for upadacitinib |
| Investigational medicinal product code |                          |
| Other name                             |                          |
| Pharmaceutical forms                   | Film-coated tablet       |
| Routes of administration               | Oral use                 |

Dosage and administration details:

Placebo tablet for upadacitinib will be administered orally.

|                  |                      |
|------------------|----------------------|
| <b>Arm title</b> | ELS 5 mg/UPA placebo |
|------------------|----------------------|

Arm description:

5 mg elsubrutinib capsule once a day by mouth for 12 weeks; placebo film-coated tablet for upadacitinib once a day by mouth for 12 weeks

|  |              |
|--|--------------|
| Arm type                               | Experimental |
| Investigational medicinal product name | Elsubrutinib |
| Investigational medicinal product code |              |
| Other name                             | ABBV-105     |
| Pharmaceutical forms                   | Capsule      |
| Routes of administration               | Oral use     |

Dosage and administration details:

Elsubrutinib capsule will be administered orally.

|  |                          |
|--|--------------------------|
| Investigational medicinal product name | Placebo for upadacitinib |
| Investigational medicinal product code |                          |
| Other name                             |                          |
| Pharmaceutical forms                   | Film-coated tablet       |
| Routes of administration               | Oral use                 |

Dosage and administration details:

Placebo tablet for upadacitinib will be administered orally.

|                  |                       |
|------------------|-----------------------|
| <b>Arm title</b> | UPA 15 mg/ELS placebo |
|------------------|-----------------------|

Arm description:

15 mg film-coated upadacitinib tablet once a day by mouth for 12 weeks; placebo capsule for elsubrutinib once a day by mouth for 12 weeks

|  |                    |
|--|--------------------|
| Arm type                               | Experimental       |
| Investigational medicinal product name | Upadacitinib       |
| Investigational medicinal product code |                    |
| Other name                             | ABT-494            |
| Pharmaceutical forms                   | Film-coated tablet |
| Routes of administration               | Oral use           |

Dosage and administration details:

Upadacitinib tablet will be administered orally.

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

Dosage and administration details:

Placebo capsule for elsubrutinib will be administered orally.

| <b>Number of subjects in period 1</b> | ELS placebo/UPA placebo | UPA 15 mg/ELS 60 mg | ELS 60 mg/UPA placebo |
|---------------------------------------|-------------------------|---------------------|-----------------------|
| Started                               | 19                      | 62                  | 41                    |
| Completed                             | 17                      | 58                  | 38                    |
| Not completed                         | 2                       | 4                   | 3                     |
| Adverse event, non-fatal              | 1                       | 1                   | 1                     |
| Other, not specified                  | -                       | -                   | -                     |

|                       |   |   |   |
|-----------------------|---|---|---|
| Lost to follow-up     | - | - | - |
| Withdrawal by subject | 1 | 3 | 2 |

| <b>Number of subjects in period 1</b> | ELS 20 mg/UPA placebo | ELS 5 mg/UPA placebo | UPA 15 mg/ELS placebo |
|---------------------------------------|-----------------------|----------------------|-----------------------|
| Started                               | 39                    | 41                   | 40                    |
| Completed                             | 34                    | 35                   | 38                    |
| Not completed                         | 5                     | 6                    | 2                     |
| Adverse event, non-fatal              | -                     | 1                    | 1                     |
| Other, not specified                  | 1                     | 2                    | -                     |
| Lost to follow-up                     | -                     | 3                    | -                     |
| Withdrawal by subject                 | 4                     | -                    | 1                     |

## Baseline characteristics

### Reporting groups

|   |                         |
|---|-------------------------|
| Reporting group title   | ELS placebo/UPA placebo |
| Reporting group description:<br>Placebo capsule for elsubrutinib once a day by mouth for 12 weeks; placebo film-coated tablet for upadacitinib once a day by mouth for 12 weeks |                         |
| Reporting group title   | UPA 15 mg/ELS 60 mg     |
| Reporting group description:<br>15 mg film-coated upadacitinib tablet once a day by mouth for 12 weeks; 60 mg elsubrutinib capsule once a day by mouth for 12 weeks             |                         |
| Reporting group title   | ELS 60 mg/UPA placebo   |
| Reporting group description:<br>60 mg elsubrutinib capsule once a day by mouth for 12 weeks; placebo film-coated tablet for upadacitinib once a day by mouth for 12 weeks       |                         |
| Reporting group title   | ELS 20 mg/UPA placebo   |
| Reporting group description:<br>20 mg elsubrutinib capsule once a day by mouth for 12 weeks; placebo film-coated tablet for upadacitinib once a day by mouth for 12 weeks       |                         |
| Reporting group title   | ELS 5 mg/UPA placebo    |
| Reporting group description:<br>5 mg elsubrutinib capsule once a day by mouth for 12 weeks; placebo film-coated tablet for upadacitinib once a day by mouth for 12 weeks        |                         |
| Reporting group title   | UPA 15 mg/ELS placebo   |
| Reporting group description:<br>15 mg film-coated upadacitinib tablet once a day by mouth for 12 weeks; placebo capsule for elsubrutinib once a day by mouth for 12 weeks       |                         |

| Reporting group values             | ELS placebo/UPA placebo | UPA 15 mg/ELS 60 mg | ELS 60 mg/UPA placebo |
|------------------------------------|-------------------------|---------------------|-----------------------|
| Number of subjects                 | 19                      | 62                  | 41                    |
| Age categorical<br>Units: Subjects |                         |                     |                       |

|   |                |                 |                 |
|---|----------------|-----------------|-----------------|
| Age continuous<br>Units: years<br>arithmetic mean<br>standard deviation | 57.6<br>± 9.12 | 56.2<br>± 12.82 | 59.2<br>± 11.11 |
| Gender categorical<br>Units: Subjects                                   |                |                 |                 |
| Female  | 17             | 48              | 36              |
| Male  | 2              | 14              | 5               |

| Reporting group values             | ELS 20 mg/UPA placebo | ELS 5 mg/UPA placebo | UPA 15 mg/ELS placebo |
|------------------------------------|-----------------------|----------------------|-----------------------|
| Number of subjects                 | 39                    | 41                   | 40                    |
| Age categorical<br>Units: Subjects |                       |                      |                       |



|   |                 |                 |                 |
|---|-----------------|-----------------|-----------------|
| Age continuous<br>Units: years<br>arithmetic mean<br>standard deviation | 59.7<br>± 10.95 | 58.1<br>± 11.01 | 57.7<br>± 10.60 |
| Gender categorical<br>Units: Subjects                                   |                 |                 |                 |
| Female  | 35              | 33              | 35              |
| Male  | 4               | 8               | 5               |

|                                    |       |  |  |
|------------------------------------|-------|--|--|
| <b>Reporting group values</b>      | Total |  |  |
| Number of subjects                 | 242   |  |  |
| Age categorical<br>Units: Subjects |       |  |  |

|   |     |  |  |
|---|-----|--|--|
| Age continuous<br>Units: years<br>arithmetic mean<br>standard deviation | -   |  |  |
| Gender categorical<br>Units: Subjects                                   |     |  |  |
| Female  | 204 |  |  |
| Male  | 38  |  |  |

## End points

### End points reporting groups

|   |                         |
|---|-------------------------|
| Reporting group title   | ELS placebo/UPA placebo |
| Reporting group description:<br>Placebo capsule for elsubrutinib once a day by mouth for 12 weeks; placebo film-coated tablet for upadacitinib once a day by mouth for 12 weeks |                         |
| Reporting group title   | UPA 15 mg/ELS 60 mg     |
| Reporting group description:<br>15 mg film-coated upadacitinib tablet once a day by mouth for 12 weeks; 60 mg elsubrutinib capsule once a day by mouth for 12 weeks             |                         |
| Reporting group title   | ELS 60 mg/UPA placebo   |
| Reporting group description:<br>60 mg elsubrutinib capsule once a day by mouth for 12 weeks; placebo film-coated tablet for upadacitinib once a day by mouth for 12 weeks       |                         |
| Reporting group title   | ELS 20 mg/UPA placebo   |
| Reporting group description:<br>20 mg elsubrutinib capsule once a day by mouth for 12 weeks; placebo film-coated tablet for upadacitinib once a day by mouth for 12 weeks       |                         |
| Reporting group title   | ELS 5 mg/UPA placebo    |
| Reporting group description:<br>5 mg elsubrutinib capsule once a day by mouth for 12 weeks; placebo film-coated tablet for upadacitinib once a day by mouth for 12 weeks        |                         |
| Reporting group title   | UPA 15 mg/ELS placebo   |
| Reporting group description:<br>15 mg film-coated upadacitinib tablet once a day by mouth for 12 weeks; placebo capsule for elsubrutinib once a day by mouth for 12 weeks       |                         |

### Primary: Change From Baseline in Disease Activity Score 28 C-reactive Protein [DAS28-CRP]) at Week 12

|   |  |
|---|--|
| End point title   | Change From Baseline in Disease Activity Score 28 C-reactive Protein [DAS28-CRP]) at Week 12 |
| End point description:<br>The DAS28-CRP is a composite index used to assess rheumatoid arthritis disease activity, calculated based on the tender joint count (out of 28 evaluated joints), swollen joint count (out of 28 evaluated joints), Patient's Global Assessment of Disease Activity (0-100 mm), and high-sensitivity C-reactive protein (hsCRP; in mg/L). Scores on the DAS28-CRP range from 0 to approximately 10, where higher scores indicate more disease activity. Baseline is defined as the last non-missing value prior to the first dose of study drug. A negative change from baseline indicates improvement in disease activity. |  |
| End point type  | Primary  |
| End point timeframe:<br>Baseline, Week 12   |  |

| End point values                             | ELS placebo/UPA placebo | UPA 15 mg/ELS 60 mg    | ELS 60 mg/UPA placebo  | ELS 20 mg/UPA placebo  |
|--|-------------------------|------------------------|------------------------|------------------------|
| Subject group type                           | Reporting group         | Reporting group        | Reporting group        | Reporting group        |
| Number of subjects analysed                  | 18 <sup>[1]</sup>       | 54 <sup>[2]</sup>      | 35 <sup>[3]</sup>      | 29 <sup>[4]</sup>      |
| Units: units on a scale                      |                         |                        |                        |                        |
| least squares mean (confidence interval 90%) | -1.12 (-1.64 to -0.60)  | -2.56 (-2.86 to -2.26) | -1.52 (-1.89 to -1.15) | -1.32 (-1.71 to -0.93) |

Notes:

[1] - FAS: randomized, rcvd  $\geq$  1 dose randomized study drug, non-missing baseline,  $\geq$  1 post-baseline values

[2] - FAS: randomized, rcvd  $\geq$  1 dose randomized study drug, non-missing baseline,  $\geq$  1 post-baseline values

[3] - FAS: randomized, rcvd  $\geq$  1 dose randomized study drug, non-missing baseline,  $\geq$  1 post-baseline values

[4] - FAS: randomized, rcvd  $\geq$  1 dose randomized study drug, non-missing baseline,  $\geq$  1 post-baseline values

| End point values                             | ELS 5 mg/UPA placebo   | UPA 15 mg/ELS placebo  |  |  |
|--|------------------------|------------------------|--|--|
| Subject group type                           | Reporting group        | Reporting group        |  |  |
| Number of subjects analysed                  | 34 <sup>[5]</sup>      | 37 <sup>[6]</sup>      |  |  |
| Units: units on a scale                      |                        |                        |  |  |
| least squares mean (confidence interval 90%) | -1.33 (-1.70 to -0.97) | -2.87 (-3.23 to -2.51) |  |  |

Notes:

[5] - FAS: randomized, rcvd  $\geq$  1 dose randomized study drug, non-missing baseline,  $\geq$  1 post-baseline values

[6] - FAS: randomized, rcvd  $\geq$  1 dose randomized study drug, non-missing baseline,  $\geq$  1 post-baseline values

## Statistical analyses

| Statistical analysis title | UPA 15 mg/ELS 60 mg vs ELS Placebo/UPA Placebo |
|----------------------------|--|
|----------------------------|--|

Statistical analysis description:

Mixed-Effect Model Repeated Measure (MMRM) analysis was conducted, testing the superiority of the combination of upadacitinib 15 mg and elsubrutinib 60 mg compared to placebo at Week 12. Data collected after a participant discontinued study drug was considered as missing. The mixed model included the categorical fixed effects of treatment, visit and treatment-by-visit interaction, prior bDMARD use, and baseline DAS28 (CRP) measurement.

|   |   |
|---|---|
| Comparison groups                       | ELS placebo/UPA placebo v UPA 15 mg/ELS 60 mg |
| Number of subjects included in analysis | 72  |
| Analysis specification                  | Pre-specified                                 |
| Analysis type                           | superiority                                   |
| P-value                                 | < 0.001                                       |
| Method                                  | t-test, 2-sided                               |
| Parameter estimate                      | LS Mean Difference                            |
| Point estimate                          | -1.44   |
| Confidence interval                     |   |
| level                                   | 90 %  |
| sides                                   | 2-sided                                       |
| lower limit                             | -2.03   |
| upper limit                             | -0.85   |
| Variability estimate                    | Standard error of the mean                    |
| Dispersion value                        | 0.36  |

---

**Secondary: Change from Baseline in Clinical Disease Activity Index (CDAI)**

---

|                 |  |
|-----------------|--|
| End point title | Change from Baseline in Clinical Disease Activity Index (CDAI) |
|-----------------|--|

End point description:

The CDAI is a composite index for assessing disease activity based on the summation of the total tender joint count (out of 28 evaluated joints), swollen joint count (out of 28 evaluated joints), patient global assessment of disease activity measured on a VAS from 0 to 10 cm, and physician global assessment of disease activity measured on a VAS from 0 to 10 cm. The total CDAI score ranges from 0 to 78 with higher scores indicating higher disease activity. Baseline is defined as the last non-missing value prior to the first dose of study drug. A negative change from baseline indicates improvement in disease activity.

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

End point timeframe:

Baseline, Week 2, Week 4, Week 8, and Week 12

---

| End point values                             | ELS placebo/UPA placebo  | UPA 15 mg/ELS 60 mg       | ELS 60 mg/UPA placebo     | ELS 20 mg/UPA placebo     |
|--|--------------------------|---------------------------|---------------------------|---------------------------|
| Subject group type                           | Reporting group          | Reporting group           | Reporting group           | Reporting group           |
| Number of subjects analysed                  | 18 <sup>[7]</sup>        | 57 <sup>[8]</sup>         | 38 <sup>[9]</sup>         | 35 <sup>[10]</sup>        |
| Units: units on a scale                      |                          |                           |                           |                           |
| least squares mean (confidence interval 90%) |                          |                           |                           |                           |
| Week 2 (n=17, 56, 38, 35, 35, 37)            | -6.08 (-10.48 to -1.67)  | -16.00 (-18.53 to -13.47) | -8.95 (-11.99 to -5.91)   | -7.36 (-10.44 to -4.27)   |
| Week 4 (n=17, 57, 37, 34, 37, 37)            | -11.60 (-16.38 to -6.82) | -20.24 (-22.97 to -17.50) | -11.67 (-15.01 to -8.34)  | -10.10 (-13.50 to -6.70)  |
| Week 8 (n= 17, 56, 35, 31, 35, 37)           | -12.46 (-17.52 to -7.40) | -24.95 (-27.86 to -22.05) | -15.07 (-18.65 to -11.49) | -17.10 (-20.83 to -13.38) |
| Week 12 (n= 18, 52, 35, 29, 33, 36))         | -14.57 (-19.77 to -9.36) | -27.00 (-30.05 to -23.95) | -17.50 (-21.22 to -13.78) | -16.70 (-20.62 to -12.78) |

Notes:

[7] - FAS: randomized, rcvd  $\geq$  1 dose randomized study drug, non-missing baseline,  $\geq$  1 post-baseline values

[8] - FAS: randomized, rcvd  $\geq$  1 dose randomized study drug, non-missing baseline,  $\geq$  1 post-baseline values

[9] - FAS: randomized, rcvd  $\geq$  1 dose randomized study drug, non-missing baseline,  $\geq$  1 post-baseline values

[10] - FAS: randomized, rcvd  $\geq$  1 dose randomized study drug, non-missing baseline,  $\geq$  1 post-baseline values

| End point values                             | ELS 5 mg/UPA placebo     | UPA 15 mg/ELS placebo     |  |  |
|--|--------------------------|---------------------------|--|--|
| Subject group type                           | Reporting group          | Reporting group           |  |  |
| Number of subjects analysed                  | 37 <sup>[11]</sup>       | 37 <sup>[12]</sup>        |  |  |
| Units: units on a scale                      |                          |                           |  |  |
| least squares mean (confidence interval 90%) |                          |                           |  |  |
| Week 2 (n=17, 56, 38, 35, 35, 37)            | -8.38 (-11.48 to -5.28)  | -14.03 (-17.04 to -11.02) |  |  |
| Week 4 (n=17, 57, 37, 34, 37, 37)            | -12.90 (-16.22 to -9.58) | -20.30 (-23.57 to -17.03) |  |  |

|                                      |                           |                           |  |  |
|--------------------------------------|---------------------------|---------------------------|--|--|
| Week 8 (n= 17, 56, 35, 31, 35, 37)   | -14.84 (-18.42 to -11.26) | -23.72 (-27.20 to -20.24) |  |  |
| Week 12 (n= 18, 52, 35, 29, 33, 36)) | -16.51 (-20.27 to -12.75) | -28.85 (-32.48 to -25.21) |  |  |

Notes:

[11] - FAS: randomized, rcvd  $\geq 1$  dose randomized study drug, non-missing baseline,  $\geq 1$  post-baseline values

[12] - FAS: randomized, rcvd  $\geq 1$  dose randomized study drug, non-missing baseline,  $\geq 1$  post-baseline values

## Statistical analyses

No statistical analyses for this end point

## Secondary: Percentage of Participants Achieving Clinical Remission (CR) Based on Disease Activity Score 28 C-reactive Protein [DAS28-CRP]) at Week 12

|                 |  |
|-----------------|--|
| End point title | Percentage of Participants Achieving Clinical Remission (CR) Based on Disease Activity Score 28 C-reactive Protein [DAS28-CRP]) at Week 12 |
|-----------------|--|

End point description:

The DAS28-CRP is a composite index used to assess rheumatoid arthritis disease activity, calculated based on the tender joint count (out of 28 evaluated joints), swollen joint count (out of 28 evaluated joints), Patient's Global Assessment of Disease Activity (0-100 mm), and high-sensitivity C-reactive protein (hsCRP; in mg/L). Scores on the DAS28-CRP range from 0 to approximately 10, where higher scores indicate more disease activity. Clinical remission (CR) based on DAS28 (CRP) is defined as achieving a DAS28 (CRP) of less than 2.6.

|                      |           |
|----------------------|-----------|
| End point type       | Secondary |
| End point timeframe: |           |
| At Week 12           |           |

| End point values                  | ELS placebo/UPA placebo | UPA 15 mg/ELS 60 mg   | ELS 60 mg/UPA placebo | ELS 20 mg/UPA placebo |
|-----------------------------------|-------------------------|-----------------------|-----------------------|-----------------------|
| Subject group type                | Reporting group         | Reporting group       | Reporting group       | Reporting group       |
| Number of subjects analysed       | 19 <sup>[13]</sup>      | 62 <sup>[14]</sup>    | 41 <sup>[15]</sup>    | 39 <sup>[16]</sup>    |
| Units: percentage of participants |                         |                       |                       |                       |
| number (confidence interval 90%)  | 10.5 (3.55 to 27.35)    | 32.3 (23.41 to 42.59) | 19.5 (11.36 to 31.44) | 7.7 (3.12 to 17.76)   |

Notes:

[13] - FAS:randomized subjects rcvd  $\geq 1$  dose randomized study drug, nonresponder imputation for missing data

[14] - FAS:randomized subjects rcvd  $\geq 1$  dose randomized study drug, nonresponder imputation for missing data

[15] - FAS:randomized subjects rcvd  $\geq 1$  dose randomized study drug, nonresponder imputation for missing data

[16] - FAS:randomized subjects rcvd  $\geq 1$  dose randomized study drug, nonresponder imputation for missing data

| End point values                  | ELS 5 mg/UPA placebo | UPA 15 mg/ELS placebo |  |  |
|-----------------------------------|----------------------|-----------------------|--|--|
| Subject group type                | Reporting group      | Reporting group       |  |  |
| Number of subjects analysed       | 41 <sup>[17]</sup>   | 40 <sup>[18]</sup>    |  |  |
| Units: percentage of participants |                      |                       |  |  |
| number (confidence interval 90%)  | 9.8 (4.46 to 20.04)  | 42.5 (30.52 to 55.43) |  |  |

Notes:

[17] - FAS: randomized subjects rcvd  $\geq 1$  dose randomized study drug, nonresponder imputation for missing data

[18] - FAS: randomized subjects rcvd  $\geq 1$  dose randomized study drug, nonresponder imputation for missing data

## Statistical analyses

No statistical analyses for this end point

### Secondary: Change From Baseline in Tender Joint Count 68 (TJC68)

|                 |   |
|-----------------|---|
| End point title | Change From Baseline in Tender Joint Count 68 (TJC68) |
|-----------------|---|

End point description:

Sixty-eight joints were assessed for tenderness by physical examination. Pain or tenderness of each joint was classified as present (1) or absent (0), for a total possible score of 0 (0 joints with tenderness) to 68 (worst possible score/68 joints with tenderness). Baseline is defined as the last non-missing value prior to the first dose of study drug. Negative values indicate improvement from baseline.

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

End point timeframe:

Baseline, Week 2, Week 4, Week 8, and Week 12

| End point values                             | ELS placebo/UPA placebo | UPA 15 mg/ELS 60 mg       | ELS 60 mg/UPA placebo   | ELS 20 mg/UPA placebo    |
|--|-------------------------|---------------------------|-------------------------|--------------------------|
| Subject group type                           | Reporting group         | Reporting group           | Reporting group         | Reporting group          |
| Number of subjects analysed                  | 19 <sup>[19]</sup>      | 61 <sup>[20]</sup>        | 39 <sup>[21]</sup>      | 37 <sup>[22]</sup>       |
| Units: tender joint counts                   |                         |                           |                         |                          |
| least squares mean (confidence interval 90%) |                         |                           |                         |                          |
| Week 2 (n=19, 61, 39, 37, 39, 40)            | -2.47 (-6.10 to 1.16)   | -8.42 (-10.53 to -6.31)   | -3.65 (-6.23 to -1.07)  | -3.86 (-6.46 to -1.26)   |
| Week 4 (n=19, 61, 38, 36, 40, 39)            | -9.21 (-13.08 to -5.34) | -11.86 (-14.10 to -9.62)  | -5.16 (-7.93 to -2.39)  | -5.39 (-8.18 to -2.60)   |
| Week 8 (n=18, 59, 36, 33, 38, 38)            | -8.82 (-12.85 to -4.79) | -15.44 (-17.75 to -13.12) | -8.43 (-11.31 to -5.55) | -10.83 (-13.78 to -7.88) |
| Week 12 (n=18, 56, 36, 31, 35, 37)           | -8.47 (-12.81 to -4.12) | -16.33 (-18.84 to -13.83) | -9.14 (-12.23 to -6.05) | -9.33 (-12.55 to -6.12)  |

Notes:

[19] - FAS: randomized, rcvd  $\geq 1$  dose randomized study drug, non-missing baseline,  $\geq 1$  post-baseline values

[20] - FAS: randomized, rcvd  $\geq 1$  dose randomized study drug, non-missing baseline,  $\geq 1$  post-baseline values

[21] - FAS: randomized, rcvd  $\geq 1$  dose randomized study drug, non-missing baseline,  $\geq 1$  post-baseline values

[22] - FAS: randomized, rcvd  $\geq 1$  dose randomized study drug, non-missing baseline,  $\geq 1$  post-baseline values

| End point values            | ELS 5 mg/UPA placebo | UPA 15 mg/ELS placebo |  |  |
|-----------------------------|----------------------|-----------------------|--|--|
| Subject group type          | Reporting group      | Reporting group       |  |  |
| Number of subjects analysed | 40 <sup>[23]</sup>   | 40 <sup>[24]</sup>    |  |  |
| Units: tender joint counts  |                      |                       |  |  |

|  |                          |                           |  |  |
|--|--------------------------|---------------------------|--|--|
| least squares mean (confidence interval 90%) |                          |                           |  |  |
| Week 2 (n=19, 61, 39, 37, 39, 40)            | -4.88 (-7.43 to -2.33)   | -8.57 (-11.09 to -6.05)   |  |  |
| Week 4 (n=19, 61, 38, 36, 40, 39)            | -8.08 (-10.77 to -5.39)  | -12.76 (-15.46 to -10.06) |  |  |
| Week 8 (n=18, 59, 36, 33, 38, 38)            | -9.08 (-11.88 to -6.27)  | -14.76 (-17.56 to -11.97) |  |  |
| Week 12 (n=18, 56, 36, 31, 35, 37)           | -12.58 (-15.64 to -9.52) | -17.56 (-20.58 to -14.53) |  |  |

Notes:

[23] - FAS: randomized, rcvd  $\geq 1$  dose randomized study drug, non-missing baseline,  $\geq 1$  post-baseline values

[24] - FAS: randomized, rcvd  $\geq 1$  dose randomized study drug, non-missing baseline,  $\geq 1$  post-baseline values

## Statistical analyses

No statistical analyses for this end point

## Secondary: Percentage of Participants With an American College of Rheumatology 20% (ACR20) Response

|                 |  |
|-----------------|--|
| End point title | Percentage of Participants With an American College of Rheumatology 20% (ACR20) Response |
|-----------------|--|

End point description:

Participants who met the following 3 conditions for improvement from baseline were classified as meeting the American College of Rheumatology 20% response (ACR20) criteria:

- $\geq 20\%$  improvement in 68-tender joint count
- $\geq 20\%$  improvement in 66-swollen joint count and
- $\geq 20\%$  improvement in at least 3 of the 5 following parameters:
  - Patient's Assessment of Pain (Visual Analog Scale [VAS])
  - Patient's Global Assessment of Disease Activity (PtGA)
  - Physician's Global Assessment of Disease Activity (PhGA)
  - Health Assessment Questionnaire Disability Index (HAQ-DI)
  - High-sensitivity C-reactive protein (hsCRP)

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

End point timeframe:

Baseline, Week 2, Week 4, Week 8, and Week 12

| End point values                  | ELS placebo/UPA placebo | UPA 15 mg/ELS 60 mg   | ELS 60 mg/UPA placebo | ELS 20 mg/UPA placebo |
|-----------------------------------|-------------------------|-----------------------|-----------------------|-----------------------|
| Subject group type                | Reporting group         | Reporting group       | Reporting group       | Reporting group       |
| Number of subjects analysed       | 19 <sup>[25]</sup>      | 62 <sup>[26]</sup>    | 41 <sup>[27]</sup>    | 39 <sup>[28]</sup>    |
| Units: percentage of participants |                         |                       |                       |                       |
| number (confidence interval 90%)  |                         |                       |                       |                       |
| Week 2                            | 21.1 (9.82 to 39.50)    | 45.2 (35.19 to 55.54) | 24.4 (15.17 to 36.78) | 12.8 (6.38 to 24.08)  |
| Week 4                            | 42.1 (25.63 to 60.55)   | 51.6 (41.33 to 61.76) | 29.3 (19.16 to 41.94) | 23.1 (13.95 to 35.70) |
| Week 8                            | 36.8 (21.37 to 55.59)   | 64.5 (54.11 to 73.71) | 39.0 (27.55 to 51.86) | 30.8 (20.20 to 43.84) |
| Week 12                           | 47.4 (30.07 to 65.33)   | 64.5 (54.11 to 73.71) | 41.5 (29.72 to 54.26) | 30.8 (20.20 to 43.84) |

Notes:

[25] - FAS:randomized subjects rcvd  $\geq 1$  dose randomized study drug, nonresponder imputation for missing data

[26] - FAS:randomized subjects rcvd  $\geq 1$  dose randomized study drug, nonresponder imputation for missing data

[27] - FAS:randomized subjects rcvd  $\geq 1$  dose randomized study drug, nonresponder imputation for missing data

[28] - FAS:randomized subjects rcvd  $\geq 1$  dose randomized study drug, nonresponder imputation for missing data

| End point values                  | ELS 5 mg/UPA placebo  | UPA 15 mg/ELS placebo |  |  |
|-----------------------------------|-----------------------|-----------------------|--|--|
| Subject group type                | Reporting group       | Reporting group       |  |  |
| Number of subjects analysed       | 41                    | 40                    |  |  |
| Units: percentage of participants |                       |                       |  |  |
| number (confidence interval 90%)  |                       |                       |  |  |
| Week 2                            | 14.6 (7.76 to 25.89)  | 52.5 (39.77 to 64.91) |  |  |
| Week 4                            | 22.0 (13.24 to 34.13) | 55.0 (42.16 to 67.21) |  |  |
| Week 8                            | 39.0 (27.55 to 51.86) | 67.5 (54.55 to 78.23) |  |  |
| Week 12                           | 34.1 (23.29 to 46.97) | 72.5 (59.75 to 82.40) |  |  |

## Statistical analyses

No statistical analyses for this end point

## Secondary: Percentage of Participants Achieving Low Disease Activity (LDA) Based on Disease Activity Score 28 C-reactive Protein [DAS28-CRP]) at Week 12

|                 |   |
|-----------------|---|
| End point title | Percentage of Participants Achieving Low Disease Activity (LDA) Based on Disease Activity Score 28 C-reactive Protein [DAS28-CRP]) at Week 12 |
|-----------------|---|

End point description:

The DAS28-CRP is a composite index used to assess rheumatoid arthritis disease activity, calculated based on the tender joint count (out of 28 evaluated joints), swollen joint count (out of 28 evaluated joints), Patient's Global Assessment of Disease Activity (0-100 mm), and high-sensitivity C-reactive protein (hsCRP; in mg/L). Scores on the DAS28-CRP range from 0 to approximately 10, where higher scores indicate more disease activity. Low Disease Activity (LDA) based on DAS28 (CRP) is defined as achieving a DAS28 (CRP) of less than or equal to 3.2.

|                      |           |
|----------------------|-----------|
| End point type       | Secondary |
| End point timeframe: |           |
| At Week 12           |           |



| End point values                             | ELS placebo/UPA placebo | UPA 15 mg/ELS 60 mg   | ELS 60 mg/UPA placebo | ELS 20 mg/UPA placebo |
|--|-------------------------|-----------------------|-----------------------|-----------------------|
| Subject group type                           | Reporting group         | Reporting group       | Reporting group       | Reporting group       |
| Number of subjects analysed                  | 19 <sup>[29]</sup>      | 62 <sup>[30]</sup>    | 41 <sup>[31]</sup>    | 39 <sup>[32]</sup>    |
| Units: percentage of participants            |                         |                       |                       |                       |
| least squares mean (confidence interval 90%) | 21.1 (9.82 to 39.50)    | 41.9 (32.18 to 52.37) | 22.0 (13.24 to 34.13) | 10.3 (4.69 to 20.98)  |

Notes:

[29] - FAS:randomized subjects rcvd ≥1 dose randomized study drug, nonresponder imputation for missing data

[30] - FAS:randomized subjects rcvd ≥1 dose randomized study drug, nonresponder imputation for missing data

[31] - FAS:randomized subjects rcvd ≥1 dose randomized study drug, nonresponder imputation for missing data

[32] - FAS:randomized subjects rcvd ≥1 dose randomized study drug, nonresponder imputation for missing data

| End point values                             | ELS 5 mg/UPA placebo | UPA 15 mg/ELS placebo |  |  |
|--|----------------------|-----------------------|--|--|
| Subject group type                           | Reporting group      | Reporting group       |  |  |
| Number of subjects analysed                  | 41 <sup>[33]</sup>   | 40 <sup>[34]</sup>    |  |  |
| Units: percentage of participants            |                      |                       |  |  |
| least squares mean (confidence interval 90%) | 14.6 (7.76 to 25.89) | 55.0 (42.16 to 67.21) |  |  |

Notes:

[33] - FAS:randomized subjects rcvd ≥1 dose randomized study drug, nonresponder imputation for missing data

[34] - FAS:randomized subjects rcvd ≥1 dose randomized study drug, nonresponder imputation for missing data

## Statistical analyses

No statistical analyses for this end point

## Secondary: Change From Baseline in Morning Stiffness Severity

|                 |  |
|-----------------|--|
| End point title | Change From Baseline in Morning Stiffness Severity |
|-----------------|--|

End point description:

Morning stiffness severity was assessed by a numeric rating-scale (NRS). Participants rated the severity of morning stiffness during the past week from 0 to 10 with 0 representing "not severe" and 10 "very severe". Baseline is defined as the last non-missing value prior to the first dose of study drug. Negative values indicate improvement from baseline.

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

End point timeframe:

Baseline, Week 2, Week 4, Week 8, and Week 12

| End point values                        | ELS placebo/UPA placebo | UPA 15 mg/ELS 60 mg | ELS 60 mg/UPA placebo | ELS 20 mg/UPA placebo |
|---|-------------------------|---------------------|-----------------------|-----------------------|
| Subject group type                      | Reporting group         | Reporting group     | Reporting group       | Reporting group       |
| Number of subjects analysed             | 19 <sup>[35]</sup>      | 59 <sup>[36]</sup>  | 39 <sup>[37]</sup>    | 35 <sup>[38]</sup>    |
| Units: units on a scale                 |                         |                     |                       |                       |
| least squares mean (confidence interval |                         |                     |                       |                       |

|                                    |                        |                        |                        |                        |
|------------------------------------|------------------------|------------------------|------------------------|------------------------|
| 90%)                               |                        |                        |                        |                        |
| Week 2 (n=19, 59, 39, 35, 38, 38)  | -1.76 (-2.54 to -0.98) | -2.02 (-2.48 to -1.56) | -0.91 (-1.47 to -0.35) | -0.68 (-1.26 to -0.11) |
| Week 4 (n=19, 59, 37, 34, 40, 38)  | -1.76 (-2.63 to -0.90) | -2.71 (-3.22 to -2.21) | -0.82 (-1.45 to -0.20) | -0.83 (-1.47 to -0.19) |
| Week 8 (n=18, 57, 35, 31, 38, 37)  | -1.67 (-2.56 to -0.77) | -3.07 (-3.59 to -2.55) | -1.30 (-1.94 to -0.65) | -0.97 (-1.64 to -0.30) |
| Week 12 (n=18, 54, 34, 29, 35, 36) | -1.61 (-2.60 to -0.63) | -3.23 (-3.81 to -2.65) | -1.27 (-1.99 to -0.56) | -1.30 (-2.06 to -0.55) |

Notes:

[35] - FAS: randomized, rcvd  $\geq$  1 dose randomized study drug, non-missing baseline,  $\geq$  1 post-baseline values

[36] - FAS: randomized, rcvd  $\geq$  1 dose randomized study drug, non-missing baseline,  $\geq$  1 post-baseline values

[37] - FAS: randomized, rcvd  $\geq$  1 dose randomized study drug, non-missing baseline,  $\geq$  1 post-baseline values

[38] - FAS: randomized, rcvd  $\geq$  1 dose randomized study drug, non-missing baseline,  $\geq$  1 post-baseline values

| End point values                             | ELS 5 mg/UPA placebo   | UPA 15 mg/ELS placebo  |  |  |
|--|------------------------|------------------------|--|--|
| Subject group type                           | Reporting group        | Reporting group        |  |  |
| Number of subjects analysed                  | 40 <sup>[39]</sup>     | 38 <sup>[40]</sup>     |  |  |
| Units: units on a scale                      |                        |                        |  |  |
| least squares mean (confidence interval 90%) |                        |                        |  |  |
| Week 2 (n=19, 59, 39, 35, 38, 38)            | -0.59 (-1.15 to -0.04) | -1.84 (-2.40 to -1.29) |  |  |
| Week 4 (n=19, 59, 37, 34, 40, 38)            | -1.08 (-1.67 to -0.48) | -2.51 (-3.13 to -1.90) |  |  |
| Week 8 (n=18, 57, 35, 31, 38, 37)            | -1.50 (-2.11 to -0.88) | -3.07 (-3.70 to -2.44) |  |  |
| Week 12 (n=18, 54, 34, 29, 35, 36)           | -1.66 (-2.36 to -0.97) | -3.36 (-4.06 to -2.67) |  |  |

Notes:

[39] - FAS: randomized, rcvd  $\geq$  1 dose randomized study drug, non-missing baseline,  $\geq$  1 post-baseline values

[40] - FAS: randomized, rcvd  $\geq$  1 dose randomized study drug, non-missing baseline,  $\geq$  1 post-baseline values

## Statistical analyses

No statistical analyses for this end point

## Secondary: Change From Baseline in Disease Activity Score 28 C-reactive Protein [DAS28-CRP])

|                 |   |
|-----------------|---|
| End point title | Change From Baseline in Disease Activity Score 28 C-reactive Protein [DAS28-CRP]) |
|-----------------|---|

End point description:

The DAS28-CRP is a composite index used to assess rheumatoid arthritis disease activity, calculated based on the tender joint count (out of 28 evaluated joints), swollen joint count (out of 28 evaluated joints), Patient's Global Assessment of Disease Activity (0-100 mm), and high-sensitivity C-reactive protein (hsCRP; in mg/L). Scores on the DAS28-CRP range from 0 to approximately 10, where higher scores indicate more disease activity. Baseline is defined as the last non-missing value prior to the first dose of study drug. A negative change from baseline indicates improvement in disease activity.

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

End point timeframe:

Baseline, Week 2, Week 4, Week 8, and Week 12

| End point values                             | ELS placebo/UPA placebo | UPA 15 mg/ELS 60 mg    | ELS 60 mg/UPA placebo  | ELS 20 mg/UPA placebo  |
|--|-------------------------|------------------------|------------------------|------------------------|
| Subject group type                           | Reporting group         | Reporting group        | Reporting group        | Reporting group        |
| Number of subjects analysed                  | 19 <sup>[41]</sup>      | 59 <sup>[42]</sup>     | 39 <sup>[43]</sup>     | 35 <sup>[44]</sup>     |
| Units: units on a scale                      |                         |                        |                        |                        |
| least squares mean (confidence interval 90%) |                         |                        |                        |                        |
| Week 2 (n=19, 59, 39, 35, 38, 39)            | -0.46 (-0.83 to -0.10)  | -1.53 (-1.75 to -1.31) | -0.63 (-0.89 to -0.36) | -0.44 (-0.71 to -0.18) |
| Week 4 (n=19, 59, 37, 34, 40, 39)            | -0.90 (-1.33 to -0.47)  | -1.96 (-2.21 to -1.71) | -0.87 (-1.18 to -0.56) | -0.68 (-1.00 to -0.36) |
| Week 8 (n=18, 57, 35, 30, 38, 38)            | -0.78 (-1.27 to -0.29)  | -2.40 (-2.68 to -2.11) | -1.21 (-1.56 to -0.86) | -1.24 (-1.61 to -0.87) |
| Week 12 (n=18, 54, 35, 29, 34, 37)           | -1.12 (-1.64 to -0.60)  | -2.56 (-2.86 to -2.26) | -1.52 (-1.89 to -1.15) | -1.32 (-1.71 to -0.93) |

Notes:

[41] - FAS: randomized, rcvd  $\geq$  1 dose randomized study drug, non-missing baseline,  $\geq$  1 post-baseline values

[42] - FAS: randomized, rcvd  $\geq$  1 dose randomized study drug, non-missing baseline,  $\geq$  1 post-baseline values

[43] - FAS: randomized, rcvd  $\geq$  1 dose randomized study drug, non-missing baseline,  $\geq$  1 post-baseline values

[44] - FAS: randomized, rcvd  $\geq$  1 dose randomized study drug, non-missing baseline,  $\geq$  1 post-baseline values

| End point values                             | ELS 5 mg/UPA placebo   | UPA 15 mg/ELS placebo  |  |  |
|--|------------------------|------------------------|--|--|
| Subject group type                           | Reporting group        | Reporting group        |  |  |
| Number of subjects analysed                  | 40 <sup>[45]</sup>     | 39 <sup>[46]</sup>     |  |  |
| Units: units on a scale                      |                        |                        |  |  |
| least squares mean (confidence interval 90%) |                        |                        |  |  |
| Week 2 (n=19, 59, 39, 35, 38, 39)            | -0.56 (-0.82 to -0.30) | -1.43 (-1.69 to -1.17) |  |  |
| Week 4 (n=19, 59, 37, 34, 40, 39)            | -0.82 (-1.11 to -0.52) | -1.98 (-2.28 to -1.67) |  |  |
| Week 8 (n=18, 57, 35, 30, 38, 38)            | -1.11 (-1.45 to -0.77) | -2.34 (-2.68 to -2.00) |  |  |
| Week 12 (n=18, 54, 35, 29, 34, 37)           | -1.33 (-1.70 to -0.97) | -2.87 (-3.23 to -2.51) |  |  |

Notes:

[45] - FAS: randomized, rcvd  $\geq$  1 dose randomized study drug, non-missing baseline,  $\geq$  1 post-baseline values

[46] - FAS: randomized, rcvd  $\geq$  1 dose randomized study drug, non-missing baseline,  $\geq$  1 post-baseline values

## Statistical analyses

No statistical analyses for this end point

## Secondary: Change From Baseline in Health Assessment Questionnaire Disability Index (HAQ-DI)

|                 |   |
|-----------------|---|
| End point title | Change From Baseline in Health Assessment Questionnaire Disability Index (HAQ-DI) |
|-----------------|---|

# End point description:

The Health Assessment Questionnaire - Disability Index is a patient-reported questionnaire that measures the degree of difficulty a person has in accomplishing tasks in 8 functional areas (dressing, arising, eating, walking, hygiene, reaching, gripping, and errands and chores) over the past week. Participants assessed their ability to do each task on a scale from 0 (without any difficulty) to 3 (unable to do). Scores were averaged to provide an overall score ranging from 0 to 3, where 0 represents no disability and 3 represents very severe, high-dependency disability. Baseline is defined as the last non-missing value prior to the first dose of study drug. A negative change from baseline in the overall score indicates improvement.

|   |           |
|---|-----------|
| End point type                                | Secondary |
| End point timeframe:                          |           |
| Baseline, Week 2, Week 4, Week 8, and Week 12 |           |

| End point values                             | ELS placebo/UPA placebo | UPA 15 mg/ELS 60 mg    | ELS 60 mg/UPA placebo  | ELS 20 mg/UPA placebo  |
|--|-------------------------|------------------------|------------------------|------------------------|
| Subject group type                           | Reporting group         | Reporting group        | Reporting group        | Reporting group        |
| Number of subjects analysed                  | 19 <sup>[47]</sup>      | 59 <sup>[48]</sup>     | 39 <sup>[49]</sup>     | 35 <sup>[50]</sup>     |
| Units: units on a scale                      |                         |                        |                        |                        |
| least squares mean (confidence interval 90%) |                         |                        |                        |                        |
| Week 2 (n=19, 59, 39, 35, 38, 38)            | -0.22 (-0.37 to -0.06)  | -0.34 (-0.43 to -0.25) | -0.13 (-0.24 to -0.02) | -0.06 (-0.17 to 0.05)  |
| Week 4 (n=19, 59, 37, 34, 40, 38)            | -0.36 (-0.53 to -0.18)  | -0.39 (-0.49 to -0.29) | -0.11 (-0.23 to 0.02)  | -0.14 (-0.27 to -0.02) |
| Week 8 (n=18, 57, 35, 31, 38, 37)            | -0.24 (-0.44 to -0.05)  | -0.47 (-0.59 to -0.36) | -0.29 (-0.43 to -0.15) | -0.15 (-0.30 to -0.00) |
| Week 12 (n=18, 54, 35, 29, 35, 36)           | -0.30 (-0.52 to -0.08)  | -0.52 (-0.65 to -0.39) | -0.31 (-0.46 to -0.15) | -0.12 (-0.28 to 0.05)  |

## Notes:

[47] - FAS: randomized, rcvd ≥ 1 dose randomized study drug, non-missing baseline, ≥ 1 post-baseline values

[48] - FAS: randomized, rcvd ≥ 1 dose randomized study drug, non-missing baseline, ≥ 1 post-baseline values

[49] - FAS: randomized, rcvd ≥ 1 dose randomized study drug, non-missing baseline, ≥ 1 post-baseline values

[50] - FAS: randomized, rcvd ≥ 1 dose randomized study drug, non-missing baseline, ≥ 1 post-baseline values

| End point values                             | ELS 5 mg/UPA placebo   | UPA 15 mg/ELS placebo  |  |  |
|--|------------------------|------------------------|--|--|
| Subject group type                           | Reporting group        | Reporting group        |  |  |
| Number of subjects analysed                  | 40 <sup>[51]</sup>     | 38 <sup>[52]</sup>     |  |  |
| Units: units on a scale                      |                        |                        |  |  |
| least squares mean (confidence interval 90%) |                        |                        |  |  |
| Week 2 (n=19, 59, 39, 35, 38, 38)            | -0.16 (-0.27 to -0.05) | -0.22 (-0.33 to -0.11) |  |  |
| Week 4 (n=19, 59, 37, 34, 40, 38)            | -0.21 (-0.33 to -0.09) | -0.33 (-0.45 to -0.20) |  |  |
| Week 8 (n=18, 57, 35, 31, 38, 37)            | -0.15 (-0.29 to -0.02) | -0.47 (-0.61 to -0.33) |  |  |
| Week 12 (n=18, 54, 35, 29, 35, 36)           | -0.18 (-0.33 to -0.03) | -0.54 (-0.70 to -0.39) |  |  |

Notes:

[51] - FAS: randomized, rcvd  $\geq 1$  dose randomized study drug, non-missing baseline,  $\geq 1$  post-baseline values

[52] - FAS: randomized, rcvd  $\geq 1$  dose randomized study drug, non-missing baseline,  $\geq 1$  post-baseline values

## Statistical analyses

No statistical analyses for this end point

### Secondary: Percentage of Participants Achieving American College of Rheumatology/European League Against Rheumatism (EULAR) Boolean Remission

|                 |  |
|-----------------|--|
| End point title | Percentage of Participants Achieving American College of Rheumatology/European League Against Rheumatism (EULAR) Boolean Remission |
|-----------------|--|

End point description:

The EULAR Boolean-based definition of remission is as follows: at any time point, a participant must satisfy all of the following: tender joint count  $\leq 1$ , swollen joint count  $\leq 1$ , C-reactive protein  $\leq 1$  mg/dl and Patient Global Assessment (PGA)  $\leq 1$  (on a 0–10 scale).

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

End point timeframe:

Baseline, Week 2, Week 4, Week 8, and Week 12

| End point values                  | ELS placebo/UPA placebo | UPA 15 mg/ELS 60 mg  | ELS 60 mg/UPA placebo | ELS 20 mg/UPA placebo |
|-----------------------------------|-------------------------|----------------------|-----------------------|-----------------------|
| Subject group type                | Reporting group         | Reporting group      | Reporting group       | Reporting group       |
| Number of subjects analysed       | 19 <sup>[53]</sup>      | 62 <sup>[54]</sup>   | 41 <sup>[55]</sup>    | 39 <sup>[56]</sup>    |
| Units: percentage of participants |                         |                      |                       |                       |
| number (confidence interval 90%)  |                         |                      |                       |                       |
| Week 2                            | 0 (0.00 to 12.46)       | 1.6 (0.36 to 6.91)   | 0 (0.00 to 6.19)      | 0 (0.00 to 6.49)      |
| Week 4                            | 0 (0.00 to 12.46)       | 6.5 (2.93 to 13.62)  | 2.4 (0.55 to 10.22)   | 0 (0.00 to 6.49)      |
| Week 8                            | 0 (0.00 to 12.46)       | 6.5 (2.93 to 13.62)  | 2.4 (0.55 to 10.22)   | 5.1 (1.71 to 14.37)   |
| Week 12                           | 0 (0.00 to 12.46)       | 11.3 (6.24 to 19.58) | 9.8 (4.46 to 20.04)   | 2.6 (0.57 to 10.71)   |

Notes:

[53] - FAS:randomized subjects rcvd  $\geq 1$  dose randomized study drug, nonresponder imputation for missing data

[54] - FAS:randomized subjects rcvd  $\geq 1$  dose randomized study drug, nonresponder imputation for missing data

[55] - FAS:randomized subjects rcvd  $\geq 1$  dose randomized study drug, nonresponder imputation for missing data

[56] - FAS:randomized subjects rcvd  $\geq 1$  dose randomized study drug, nonresponder imputation for missing data

| End point values            | ELS 5 mg/UPA placebo | UPA 15 mg/ELS placebo |  |  |
|-----------------------------|----------------------|-----------------------|--|--|
| Subject group type          | Reporting group      | Reporting group       |  |  |
| Number of subjects analysed | 41 <sup>[57]</sup>   | 40 <sup>[58]</sup>    |  |  |

|                                   |                     |                      |  |  |
|-----------------------------------|---------------------|----------------------|--|--|
| Units: percentage of participants |                     |                      |  |  |
| number (confidence interval 90%)  |                     |                      |  |  |
| Week 2                            | 0 (0.00 to 6.19)    | 0 (0.00 to 6.34)     |  |  |
| Week 4                            | 0 (0.00 to 6.19)    | 2.5 (0.56 to 10.46)  |  |  |
| Week 8                            | 0 (0.00 to 6.19)    | 12.5 (6.22 to 23.53) |  |  |
| Week 12                           | 2.4 (0.55 to 10.22) | 10.0 (4.57 to 20.50) |  |  |

Notes:

[57] - FAS:randomized subjects rcvd  $\geq 1$  dose randomized study drug, nonresponder imputation for missing data

[58] - FAS:randomized subjects rcvd  $\geq 1$  dose randomized study drug, nonresponder imputation for missing data

## Statistical analyses

No statistical analyses for this end point

## Secondary: Percentage of Participants Achieving Minimal Clinically Important Difference (MCID) in Change From Baseline in Health Assessment Questionnaire Disability Index (HAQ-DI)

|                 |  |
|-----------------|--|
| End point title | Percentage of Participants Achieving Minimal Clinically Important Difference (MCID) in Change From Baseline in Health Assessment Questionnaire Disability Index (HAQ-DI) |
|-----------------|--|

End point description:

The Health Assessment Questionnaire - Disability Index is a patient-reported questionnaire that measures the degree of difficulty a person has in accomplishing tasks in 8 functional areas (dressing, arising, eating, walking, hygiene, reaching, gripping, and errands and chores) over the past week. Participants assessed their ability to do each task on a scale from 0 (without any difficulty) to 3 (unable to do). Scores were averaged to provide an overall score ranging from 0 to 3, where 0 represents no disability and 3 represents very severe, high-dependency disability. The minimal clinically important difference (MCID) in HAQ-DI is defined as change from Baseline  $\leq -0.22$  for rheumatoid arthritis.

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

End point timeframe:

Baseline, Week 2, Week 4, Week 8, and Week 12

| End point values                  | ELS placebo/UPA placebo | UPA 15 mg/ELS 60 mg   | ELS 60 mg/UPA placebo | ELS 20 mg/UPA placebo |
|-----------------------------------|-------------------------|-----------------------|-----------------------|-----------------------|
| Subject group type                | Reporting group         | Reporting group       | Reporting group       | Reporting group       |
| Number of subjects analysed       | 19 <sup>[59]</sup>      | 62 <sup>[60]</sup>    | 41 <sup>[61]</sup>    | 39 <sup>[62]</sup>    |
| Units: percentage of participants |                         |                       |                       |                       |
| number (confidence interval 90%)  |                         |                       |                       |                       |
| Week 2                            | 52.6 (34.67 to 69.93)   | 51.6 (41.33 to 61.76) | 36.6 (25.40 to 49.43) | 30.8 (20.20 to 43.84) |
| Week 4                            | 68.4 (49.55 to 82.70)   | 54.8 (44.46 to 64.81) | 34.1 (23.29 to 46.97) | 41.0 (29.07 to 54.15) |
| Week 8                            | 52.6 (34.67 to 69.93)   | 58.1 (47.63 to 67.82) | 51.2 (38.71 to 63.58) | 51.3 (38.47 to 63.93) |
| Week 12                           | 47.4 (30.07 to 65.33)   | 58.1 (47.63 to 67.82) | 53.7 (41.02 to 65.84) | 43.6 (31.37 to 56.64) |

Notes:

[59] - FAS:randomized subjects rcvd  $\geq 1$  dose randomized study drug, nonresponder imputation for missing data

[60] - FAS:randomized subjects rcvd  $\geq 1$  dose randomized study drug, nonresponder imputation for missing data

[61] - FAS:randomized subjects rcvd  $\geq 1$  dose randomized study drug, nonresponder imputation for missing data

[62] - FAS:randomized subjects rcvd  $\geq 1$  dose randomized study drug, nonresponder imputation for missing data

| End point values                  | ELS 5 mg/UPA placebo  | UPA 15 mg/ELS placebo |  |  |
|-----------------------------------|-----------------------|-----------------------|--|--|
| Subject group type                | Reporting group       | Reporting group       |  |  |
| Number of subjects analysed       | 41 <sup>[63]</sup>    | 40 <sup>[64]</sup>    |  |  |
| Units: percentage of participants |                       |                       |  |  |
| number (confidence interval 90%)  |                       |                       |  |  |
| Week 2                            | 36.6 (25.40 to 49.43) | 52.5 (39.77 to 64.91) |  |  |
| Week 4                            | 53.7 (41.02 to 65.84) | 45.0 (32.79 to 57.84) |  |  |
| Week 8                            | 36.6 (25.40 to 49.43) | 65.0 (52.01 to 76.09) |  |  |
| Week 12                           | 43.9 (31.93 to 56.63) | 55.0 (42.16 to 67.21) |  |  |

Notes:

[63] - FAS:randomized subjects rcvd  $\geq 1$  dose randomized study drug, nonresponder imputation for missing data

[64] - FAS:randomized subjects rcvd  $\geq 1$  dose randomized study drug, nonresponder imputation for missing data

## Statistical analyses

No statistical analyses for this end point

## Secondary: Change From Baseline in Simplified Disease Activity Index (SDAI)

|                 |  |
|-----------------|--|
| End point title | Change From Baseline in Simplified Disease Activity Index (SDAI) |
|-----------------|--|

End point description:

The SDAI is a validated measure of rheumatoid arthritis disease activity. Twenty-eight tender joint counts, 28 swollen joint counts, global disease activity assessed by the participant on a visual analogue scale from 0 to 10 (cm), global disease activity assessed by an investigator on a visual analogue scale from 0 to 10 (cm), and serum levels of C-reactive protein (CRP; mg/dL) were included in the SDAI score. Scores on the SDAI range from 0 to 86, with higher scores indicating higher disease activity. Baseline is defined as the last non-missing value prior to the first dose of study drug. A negative change from baseline indicates improvement in disease activity.

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

End point timeframe:

Baseline, Week 2, Week 4, Week 8, and Week 12

| End point values                             | ELS placebo/UPA placebo  | UPA 15 mg/ELS 60 mg       | ELS 60 mg/UPA placebo     | ELS 20 mg/UPA placebo     |
|--|--------------------------|---------------------------|---------------------------|---------------------------|
| Subject group type                           | Reporting group          | Reporting group           | Reporting group           | Reporting group           |
| Number of subjects analysed                  | 18 <sup>[65]</sup>       | 57 <sup>[66]</sup>        | 38 <sup>[67]</sup>        | 35 <sup>[68]</sup>        |
| Units: units on a scale                      |                          |                           |                           |                           |
| least squares mean (confidence interval 90%) |                          |                           |                           |                           |
| Week 2 (n=17, 56, 38, 35, 35, 37)            | -6.17 (-10.67 to -1.67)  | -17.01 (-19.60 to -14.43) | -8.79 (-11.89 to -5.68)   | -7.42 (-10.57 to -4.26)   |
| Week 4 (n=17, 57, 37, 34, 37, 37)            | -11.80 (-16.67 to -6.93) | -21.24 (-24.02 to -18.45) | -11.46 (-14.85 to -8.06)  | -10.15 (-13.61 to -6.68)  |
| Week 8 (n=17, 56, 35, 30, 35, 37)            | -12.15 (-17.35 to -6.95) | -25.96 (-28.95 to -22.98) | -15.26 (-18.94 to -11.57) | -17.32 (-21.17 to -13.46) |
| Week 12 (n=18, 52, 35, 29, 32, 36)           | -14.44 (-19.84 to -9.04) | -28.06 (-31.22 to -24.89) | -18.01 (-21.86 to -14.15) | -17.12 (-21.20 to -13.05) |

Notes:

[65] - FAS: randomized, rcvd  $\geq 1$  dose randomized study drug, non-missing baseline,  $\geq 1$  post-baseline values

[66] - FAS: randomized, rcvd  $\geq 1$  dose randomized study drug, non-missing baseline,  $\geq 1$  post-baseline values

[67] - FAS: randomized, rcvd  $\geq 1$  dose randomized study drug, non-missing baseline,  $\geq 1$  post-baseline values

[68] - FAS: randomized, rcvd  $\geq 1$  dose randomized study drug, non-missing baseline,  $\geq 1$  post-baseline values

| End point values                             | ELS 5 mg/UPA placebo      | UPA 15 mg/ELS placebo     |  |  |
|--|---------------------------|---------------------------|--|--|
| Subject group type                           | Reporting group           | Reporting group           |  |  |
| Number of subjects analysed                  | 37 <sup>[69]</sup>        | 37 <sup>[70]</sup>        |  |  |
| Units: units on a scale                      |                           |                           |  |  |
| least squares mean (confidence interval 90%) |                           |                           |  |  |
| Week 2 (n=17, 56, 38, 35, 35, 37)            | -8.54 (-11.71 to -5.38)   | -15.30 (-18.37 to -12.22) |  |  |
| Week 4 (n=17, 57, 37, 34, 37, 37)            | -12.87 (-16.25 to -9.49)  | -21.59 (-24.92 to -18.26) |  |  |
| Week 8 (n=17, 56, 35, 30, 35, 37)            | -15.21 (-18.89 to -11.53) | -25.07 (-28.65 to -21.49) |  |  |
| Week 12 (n=18, 52, 35, 29, 32, 36)           | -16.73 (-20.65 to -12.81) | -29.65 (-33.42 to -25.88) |  |  |

Notes:

[69] - FAS: randomized, rcvd  $\geq 1$  dose randomized study drug, non-missing baseline,  $\geq 1$  post-baseline values

[70] - FAS: randomized, rcvd  $\geq 1$  dose randomized study drug, non-missing baseline,  $\geq 1$  post-baseline values

## Statistical analyses

No statistical analyses for this end point

## Secondary: Percentage of Participants With an American College of Rheumatology 50% (ACR50) Response

|                 |  |
|-----------------|--|
| End point title | Percentage of Participants With an American College of Rheumatology 50% (ACR50) Response |
|-----------------|--|

End point description:

Participants who met the following 3 conditions for improvement from baseline were classified as meeting the American College of Rheumatology 50% response (ACR50) criteria:

1.  $\geq 50\%$  improvement in 68-tender joint count
2.  $\geq 50\%$  improvement in 66-swollen joint count and



3.  $\geq 50\%$  improvement in at least 3 of the 5 following parameters:

- Patient's Assessment of Pain (Visual Analog Scale [VAS])
- Patient's Global Assessment of Disease Activity (PtGA)
- Physician's Global Assessment of Disease Activity (PhGA)
- Health Assessment Questionnaire Disability Index (HAQ-DI)
- High-sensitivity C-reactive protein (hsCRP)

|   |           |
|---|-----------|
| End point type                                | Secondary |
| End point timeframe:                          |           |
| Baseline, Week 2, Week 4, Week 8, and Week 12 |           |

| End point values                  | ELS placebo/UPA placebo | UPA 15 mg/ELS 60 mg   | ELS 60 mg/UPA placebo | ELS 20 mg/UPA placebo |
|-----------------------------------|-------------------------|-----------------------|-----------------------|-----------------------|
| Subject group type                | Reporting group         | Reporting group       | Reporting group       | Reporting group       |
| Number of subjects analysed       | 19 <sup>[71]</sup>      | 62 <sup>[72]</sup>    | 41 <sup>[73]</sup>    | 39 <sup>[74]</sup>    |
| Units: percentage of participants |                         |                       |                       |                       |
| number (confidence interval 90%)  |                         |                       |                       |                       |
| Week 2                            | 0 (0.00 to 12.46)       | 16.1 (9.89 to 25.20)  | 4.9 (1.63 to 13.71)   | 0 (0.00 to 6.49)      |
| Week 4                            | 10.5 (3.55 to 27.35)    | 19.4 (12.46 to 28.82) | 17.1 (9.53 to 28.69)  | 2.6 (0.57 to 10.71)   |
| Week 8                            | 5.3 (1.18 to 20.50)     | 41.9 (32.18 to 52.37) | 19.5 (11.36 to 31.44) | 12.8 (6.38 to 24.08)  |
| Week 12                           | 21.1 (9.82 to 39.50)    | 45.2 (35.19 to 55.54) | 29.3 (19.16 to 41.94) | 12.8 (6.38 to 24.08)  |

Notes:

[71] - FAS:randomized subjects rcvd  $\geq 1$  dose randomized study drug, nonresponder imputation for missing data

[72] - FAS:randomized subjects rcvd  $\geq 1$  dose randomized study drug, nonresponder imputation for missing data

[73] - FAS:randomized subjects rcvd  $\geq 1$  dose randomized study drug, nonresponder imputation for missing data

[74] - FAS:randomized subjects rcvd  $\geq 1$  dose randomized study drug, nonresponder imputation for missing data

| End point values                  | ELS 5 mg/UPA placebo | UPA 15 mg/ELS placebo |  |  |
|-----------------------------------|----------------------|-----------------------|--|--|
| Subject group type                | Reporting group      | Reporting group       |  |  |
| Number of subjects analysed       | 41 <sup>[75]</sup>   | 40 <sup>[76]</sup>    |  |  |
| Units: percentage of participants |                      |                       |  |  |
| number (confidence interval 90%)  |                      |                       |  |  |
| Week 2                            | 0 (0.00 to 6.19)     | 12.5 (6.22 to 23.53)  |  |  |
| Week 4                            | 4.9 (1.63 to 13.71)  | 30.0 (19.66 to 42.87) |  |  |
| Week 8                            | 7.3 (2.96 to 16.96)  | 40.0 (28.29 to 52.98) |  |  |
| Week 12                           | 17.1 (9.53 to 28.69) | 47.5 (35.09 to 60.23) |  |  |

Notes:

[75] - FAS:randomized subjects rcvd  $\geq 1$  dose randomized study drug, nonresponder imputation for missing data

[76] - FAS:randomized subjects rcvd  $\geq 1$  dose randomized study drug, nonresponder imputation for missing data

## Statistical analyses

No statistical analyses for this end point

### Secondary: Percentage of Participants With an American College of Rheumatology 70% (ACR70) Response

|  |  |
|--|--|
| End point title  | Percentage of Participants With an American College of Rheumatology 70% (ACR70) Response |
| End point description:   |  |
| Participants who met the following 3 conditions for improvement from baseline were classified as meeting the American College of Rheumatology 70% response (ACR70) criteria:   |  |
| 1. $\geq 70\%$ improvement in 68-tender joint count  |  |
| 2. $\geq 70\%$ improvement in 66-swollen joint count and   |  |
| 3. $\geq 70\%$ improvement in at least 3 of the 5 following parameters:  |  |
| <ul style="list-style-type: none"> <li>• Patient's Assessment of Pain (Visual Analog Scale [VAS])</li> <li>• Patient's Global Assessment of Disease Activity (PtGA)</li> <li>• Physician's Global Assessment of Disease Activity (PhGA)</li> <li>• Health Assessment Questionnaire Disability Index (HAQ-DI)</li> <li>• High-sensitivity C-reactive protein (hsCRP)</li> </ul> |  |
| End point type   | Secondary  |
| End point timeframe:   |  |
| Baseline, Week 2, Week 4, Week 8, and Week 12  |  |

| End point values                  | ELS placebo/UPA placebo | UPA 15 mg/ELS 60 mg   | ELS 60 mg/UPA placebo | ELS 20 mg/UPA placebo |
|-----------------------------------|-------------------------|-----------------------|-----------------------|-----------------------|
| Subject group type                | Reporting group         | Reporting group       | Reporting group       | Reporting group       |
| Number of subjects analysed       | 19 <sup>[77]</sup>      | 62 <sup>[78]</sup>    | 41 <sup>[79]</sup>    | 39 <sup>[80]</sup>    |
| Units: percentage of participants |                         |                       |                       |                       |
| number (confidence interval 90%)  |                         |                       |                       |                       |
| Week 2                            | 0 (0.00 to 12.46)       | 8.1 (3.98 to 15.66)   | 2.4 (0.55 to 10.22)   | 0 (0.00 to 6.49)      |
| Week 4                            | 0 (0.00 to 12.46)       | 9.7 (5.09 to 17.64)   | 4.9 (1.63 to 13.71)   | 2.6 (0.57 to 10.71)   |
| Week 8                            | 0 (0.00 to 12.46)       | 17.7 (11.16 to 27.02) | 4.9 (1.63 to 13.71)   | 2.6 (0.57 to 10.71)   |
| Week 12                           | 15.8 (6.49 to 33.62)    | 25.8 (17.81 to 35.82) | 14.6 (7.76 to 25.89)  | 5.1 (1.71 to 14.37)   |

Notes:

[77] - FAS:randomized subjects rcvd  $\geq 1$  dose randomized study drug, nonresponder imputation for missing data

[78] - FAS:randomized subjects rcvd  $\geq 1$  dose randomized study drug, nonresponder imputation for missing data

[79] - FAS:randomized subjects rcvd  $\geq 1$  dose randomized study drug, nonresponder imputation for missing data

[80] - FAS:randomized subjects rcvd  $\geq 1$  dose randomized study drug, nonresponder imputation for missing data

| End point values                  | ELS 5 mg/UPA placebo | UPA 15 mg/ELS placebo |  |  |
|-----------------------------------|----------------------|-----------------------|--|--|
| Subject group type                | Reporting group      | Reporting group       |  |  |
| Number of subjects analysed       | 41 <sup>[81]</sup>   | 40 <sup>[82]</sup>    |  |  |
| Units: percentage of participants |                      |                       |  |  |
| number (confidence interval 90%)  |                      |                       |  |  |

|         |                     |                       |  |  |
|---------|---------------------|-----------------------|--|--|
| Week 2  | 0 (0.00 to 6.19)    | 0 (0.00 to 6.34)      |  |  |
| Week 4  | 0 (0.00 to 6.19)    | 15.0 (7.96 to 26.47)  |  |  |
| Week 8  | 0 (0.00 to 6.19)    | 25.0 (15.57 to 37.60) |  |  |
| Week 12 | 9.8 (4.46 to 20.04) | 27.5 (17.60 to 40.25) |  |  |

Notes:

[81] - FAS: randomized subjects rcvd  $\geq 1$  dose randomized study drug, nonresponder imputation for missing data

[82] - FAS: randomized subjects rcvd  $\geq 1$  dose randomized study drug, nonresponder imputation for missing data

## Statistical analyses

No statistical analyses for this end point

## Secondary: Change From Baseline in High-Sensitivity C-reactive Protein (hsCRP)

|                 |   |
|-----------------|---|
| End point title | Change From Baseline in High-Sensitivity C-reactive Protein (hsCRP) |
|-----------------|---|

End point description:

C-reactive protein is a blood test marker for inflammation in the body, and levels rise in response to inflammation. Baseline is defined as the last non-missing value prior to the first dose of study drug. A negative change from baseline in indicates improvement.

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

End point timeframe:

Baseline, Week 2, Week 4, Week 8, and Week 12

| End point values                             | ELS placebo/UPA placebo | UPA 15 mg/ELS 60 mg      | ELS 60 mg/UPA placebo | ELS 20 mg/UPA placebo   |
|--|-------------------------|--------------------------|-----------------------|-------------------------|
| Subject group type                           | Reporting group         | Reporting group          | Reporting group       | Reporting group         |
| Number of subjects analysed                  | 19 <sup>[83]</sup>      | 61 <sup>[84]</sup>       | 39 <sup>[85]</sup>    | 37 <sup>[86]</sup>      |
| Units: mg/L                                  |                         |                          |                       |                         |
| least squares mean (confidence interval 90%) |                         |                          |                       |                         |
| Week 2 (n=19, 61, 39, 37, 39, 40)            | -0.51 (-4.82 to 3.81)   | -9.29 (-11.79 to -6.80)  | 2.26 (-0.81 to 5.33)  | -0.34 (-3.43 to 2.74)   |
| Week 4 (n=19, 61, 38, 36, 40, 39)            | 1.54 (-3.72 to 6.79)    | -10.08 (-13.08 to -7.08) | 2.71 (-1.05 to 6.46)  | -0.78 (-4.58 to 3.02)   |
| Week 8 (n=18, 59, 36, 32, 38, 38)            | 3.23 (-1.56 to 8.03)    | -9.97 (-12.70 to -7.24)  | -1.39 (-4.83 to 2.05) | -2.58 (-6.15 to 1.00)   |
| Week 12 (n=18, 56, 36, 31, 34, 37)           | 1.45 (-5.10 to 8.00)    | -10.95 (-14.73 to -7.18) | -4.58 (-9.26 to 0.09) | -5.78 (-10.77 to -0.78) |

Notes:

[83] - FAS: randomized, rcvd  $\geq 1$  dose randomized study drug, non-missing baseline,  $\geq 1$  post-baseline values

[84] - FAS: randomized, rcvd  $\geq 1$  dose randomized study drug, non-missing baseline,  $\geq 1$  post-baseline values

[85] - FAS: randomized, rcvd  $\geq 1$  dose randomized study drug, non-missing baseline,  $\geq 1$  post-baseline values

[86] - FAS: randomized, rcvd  $\geq 1$  dose randomized study drug, non-missing baseline,  $\geq 1$  post-baseline values

| End point values                             | ELS 5 mg/UPA placebo  | UPA 15 mg/ELS placebo    |  |  |
|--|-----------------------|--------------------------|--|--|
| Subject group type                           | Reporting group       | Reporting group          |  |  |
| Number of subjects analysed                  | 40 <sup>[87]</sup>    | 40 <sup>[88]</sup>       |  |  |
| Units: mg/L                                  |                       |                          |  |  |
| least squares mean (confidence interval 90%) |                       |                          |  |  |
| Week 2 (n=19, 61, 39, 37, 39, 40)            | -0.72 (-3.74 to 2.30) | -12.27 (-15.26 to -9.27) |  |  |
| Week 4 (n=19, 61, 38, 36, 40, 39)            | 0.72 (-2.91 to 4.35)  | -12.59 (-16.27 to -8.92) |  |  |
| Week 8 (n=18, 59, 36, 32, 38, 38)            | -2.93 (-6.26 to 0.39) | -13.13 (-16.46 to -9.81) |  |  |
| Week 12 (n=18, 56, 36, 31, 34, 37)           | -0.81 (-5.58 to 3.97) | -7.44 (-12.03 to -2.86)  |  |  |

Notes:

[87] - FAS: randomized, rcvd  $\geq 1$  dose randomized study drug, non-missing baseline,  $\geq 1$  post-baseline values

[88] - FAS: randomized, rcvd  $\geq 1$  dose randomized study drug, non-missing baseline,  $\geq 1$  post-baseline values

## Statistical analyses

No statistical analyses for this end point

## Secondary: Change From Baseline in Disease Activity Score 28 Erythrocyte Sedimentation Rate (DAS28- ESR)

|                 |   |
|-----------------|---|
| End point title | Change From Baseline in Disease Activity Score 28 Erythrocyte Sedimentation Rate (DAS28- ESR) |
|-----------------|---|

End point description:

The DAS28-ESR is a validated index of rheumatoid arthritis disease activity. Twenty-eight tender joint counts, 28 swollen joint counts, the erythrocyte sedimentation rate (ESR; mm/hour), and the participant's assessment of global disease activity (on a visual analog scale [VAS] from 0 to 100 mm) are included in the DAS28 -ESR score. Scores on the DAS28-ESR range from 0 to 10; higher scores indicate more disease activity. Baseline is defined as the last non-missing value prior to the first dose of study drug.

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

End point timeframe:

Baseline, Week 2, Week 4, Week 8, and Week 12

| End point values                             | ELS placebo/UPA placebo | UPA 15 mg/ELS 60 mg | ELS 60 mg/UPA placebo | ELS 20 mg/UPA placebo |
|--|-------------------------|---------------------|-----------------------|-----------------------|
| Subject group type                           | Reporting group         | Reporting group     | Reporting group       | Reporting group       |
| Number of subjects analysed                  | 19 <sup>[89]</sup>      | 59 <sup>[90]</sup>  | 39 <sup>[91]</sup>    | 34 <sup>[92]</sup>    |
| Units: units on a scale                      |                         |                     |                       |                       |
| least squares mean (confidence interval 90%) |                         |                     |                       |                       |

|                                    |                        |                        |                        |                        |
|------------------------------------|------------------------|------------------------|------------------------|------------------------|
| Week 2 (n=19, 59, 39, 34, 38, 39)  | -0.46 (-0.82 to -0.09) | -1.48 (-1.69 to -1.26) | -0.52 (-0.79 to -0.26) | -0.46 (-0.74 to -0.19) |
| Week 4 (n=19, 58, 37, 34, 40, 39)  | -0.86 (-1.30 to -0.43) | -1.93 (-2.19 to -1.68) | -0.79 (-1.11 to -0.48) | -0.59 (-0.91 to -0.26) |
| Week 8 (n=18, 57, 35, 30, 37, 38)  | -0.80 (-1.29 to -0.31) | -2.41 (-2.69 to -2.12) | -1.07 (-1.42 to -0.71) | -1.15 (-1.52 to -0.78) |
| Week 12 (n=18, 54, 35, 29, 35, 37) | -1.18 (-1.71 to -0.64) | -2.53 (-2.84 to -2.22) | -1.41 (-1.80 to -1.03) | -1.24 (-1.65 to -0.83) |

Notes:

[89] - FAS: randomized, rcvd  $\geq 1$  dose randomized study drug, non-missing baseline,  $\geq 1$  post-baseline values

[90] - FAS: randomized, rcvd  $\geq 1$  dose randomized study drug, non-missing baseline,  $\geq 1$  post-baseline values

[91] - FAS: randomized, rcvd  $\geq 1$  dose randomized study drug, non-missing baseline,  $\geq 1$  post-baseline values

[92] - FAS: randomized, rcvd  $\geq 1$  dose randomized study drug, non-missing baseline,  $\geq 1$  post-baseline values

| End point values                             | ELS 5 mg/UPA placebo   | UPA 15 mg/ELS placebo  |  |  |
|--|------------------------|------------------------|--|--|
| Subject group type                           | Reporting group        | Reporting group        |  |  |
| Number of subjects analysed                  | 40 <sup>[93]</sup>     | 39 <sup>[94]</sup>     |  |  |
| Units: units on a scale                      |                        |                        |  |  |
| least squares mean (confidence interval 90%) |                        |                        |  |  |
| Week 2 (n=19, 59, 39, 34, 38, 39)            | -0.57 (-0.83 to -0.32) | -1.32 (-1.58 to -1.06) |  |  |
| Week 4 (n=19, 58, 37, 34, 40, 39)            | -0.92 (-1.23 to -0.62) | -1.90 (-2.20 to -1.59) |  |  |
| Week 8 (n=18, 57, 35, 30, 37, 38)            | -1.20 (-1.54 to -0.86) | -2.31 (-2.65 to -1.97) |  |  |
| Week 12 (n=18, 54, 35, 29, 35, 37)           | -1.44 (-1.82 to -1.06) | -2.88 (-3.25 to -2.50) |  |  |

Notes:

[93] - FAS: randomized, rcvd  $\geq 1$  dose randomized study drug, non-missing baseline,  $\geq 1$  post-baseline values

[94] - FAS: randomized, rcvd  $\geq 1$  dose randomized study drug, non-missing baseline,  $\geq 1$  post-baseline values

## Statistical analyses

No statistical analyses for this end point

## Secondary: Percentage of Participants Achieving Low Disease Activity (LDA) Based on Clinical Disease Activity Index (CDAI) Criteria

|                 |  |
|-----------------|--|
| End point title | Percentage of Participants Achieving Low Disease Activity (LDA) Based on Clinical Disease Activity Index (CDAI) Criteria |
|-----------------|--|

End point description:

The CDAI is a composite index for assessing disease activity based on the summation of the total tender joint count (out of 28 evaluated joints), swollen joint count (out of 28 evaluated joints), patient global assessment of disease activity measured on a VAS from 0 to 10 cm, and physician global assessment of disease activity measured on a VAS from 0 to 10 cm. The total CDAI score ranges from 0 to 78 with higher scores indicating higher disease activity. Low Disease Activity (LDA) based on CDAI is defined as achieving a CDAI of less than or equal to 10.

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

End point timeframe:

Week 2, Week 4, Week 8, and Week 12

| End point values                  | ELS placebo/UPA placebo | UPA 15 mg/ELS 60 mg   | ELS 60 mg/UPA placebo | ELS 20 mg/UPA placebo |
|-----------------------------------|-------------------------|-----------------------|-----------------------|-----------------------|
| Subject group type                | Reporting group         | Reporting group       | Reporting group       | Reporting group       |
| Number of subjects analysed       | 19 <sup>[95]</sup>      | 62 <sup>[96]</sup>    | 41 <sup>[97]</sup>    | 39 <sup>[98]</sup>    |
| Units: percentage of participants |                         |                       |                       |                       |
| number (confidence interval 90%)  |                         |                       |                       |                       |
| Week 2                            | 10.5 (3.55 to 27.35)    | 16.1 (9.89 to 25.20)  | 9.8 (4.46 to 20.04)   | 0 (0.00 to 6.49)      |
| Week 4                            | 10.5 (3.55 to 27.35)    | 29.0 (20.59 to 39.23) | 12.2 (6.06 to 23.01)  | 7.7 (3.12 to 17.76)   |
| Week 8                            | 5.3 (1.18 to 20.50)     | 46.8 (36.71 to 57.11) | 17.1 (9.53 to 28.69)  | 20.5 (11.96 to 32.89) |
| Week 12                           | 26.3 (13.44 to 45.09)   | 37.1 (27.74 to 47.53) | 34.1 (23.29 to 46.97) | 17.9 (10.03 to 30.02) |

Notes:

[95] - FAS:randomized subjects rcvd  $\geq 1$  dose randomized study drug, nonresponder imputation for missing data

[96] - FAS:randomized subjects rcvd  $\geq 1$  dose randomized study drug, nonresponder imputation for missing data

[97] - FAS:randomized subjects rcvd  $\geq 1$  dose randomized study drug, nonresponder imputation for missing data

[98] - FAS:randomized subjects rcvd  $\geq 1$  dose randomized study drug, nonresponder imputation for missing data

| End point values                  | ELS 5 mg/UPA placebo  | UPA 15 mg/ELS placebo |  |  |
|-----------------------------------|-----------------------|-----------------------|--|--|
| Subject group type                | Reporting group       | Reporting group       |  |  |
| Number of subjects analysed       | 41 <sup>[99]</sup>    | 40 <sup>[100]</sup>   |  |  |
| Units: percentage of participants |                       |                       |  |  |
| number (confidence interval 90%)  |                       |                       |  |  |
| Week 2                            | 2.4 (0.55 to 10.22)   | 12.5 (6.22 to 23.53)  |  |  |
| Week 4                            | 12.2 (6.06 to 23.01)  | 22.5 (13.59 to 34.90) |  |  |
| Week 8                            | 24.4 (15.17 to 36.78) | 35.0 (23.91 to 47.99) |  |  |
| Week 12                           | 17.1 (9.53 to 28.69)  | 57.5 (44.57 to 69.48) |  |  |

Notes:

[99] - FAS:randomized subjects rcvd  $\geq 1$  dose randomized study drug, nonresponder imputation for missing data

[100] - FAS:randomized subjects rcvd  $\geq 1$  dose randomized study drug, nonresponder imputation for missing data

## Statistical analyses

No statistical analyses for this end point

## Secondary: Percentage of Participants Achieving Complete Remission (CR) Based on Clinical Disease Activity Index (CDAI) Criteria

|                 |   |
|-----------------|---|
| End point title | Percentage of Participants Achieving Complete Remission (CR) Based on Clinical Disease Activity Index (CDAI) Criteria |
|-----------------|---|

# End point description:

The CDAI is a composite index for assessing disease activity based on the summation of the total tender joint count (out of 28 evaluated joints), swollen joint count (out of 28 evaluated joints), patient global assessment of disease activity measured on a VAS from 0 to 10 cm, and physician global assessment of disease activity measured on a VAS from 0 to 10 cm. The total CDAI score ranges from 0 to 78 with higher scores indicating higher disease activity. Complete Remission (CR) based on CDAI is defined as achieving a CDAI of less than or equal to 2.8.

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

# End point timeframe:

Week 2, Week 4, Week 8, and Week 12

| End point values                  | ELS placebo/UPA placebo | UPA 15 mg/ELS 60 mg  | ELS 60 mg/UPA placebo | ELS 20 mg/UPA placebo |
|-----------------------------------|-------------------------|----------------------|-----------------------|-----------------------|
| Subject group type                | Reporting group         | Reporting group      | Reporting group       | Reporting group       |
| Number of subjects analysed       | 19 <sup>[101]</sup>     | 62 <sup>[102]</sup>  | 41 <sup>[103]</sup>   | 39 <sup>[104]</sup>   |
| Units: percentage of participants |                         |                      |                       |                       |
| number (confidence interval 90%)  |                         |                      |                       |                       |
| Week 2                            | 0 (0.00 to 12.46)       | 3.2 (1.07 to 9.29)   | 0 (0.00 to 6.19)      | 0 (0.00 to 6.49)      |
| Week 4                            | 0 (0.00 to 12.46)       | 6.5 (2.93 to 13.62)  | 2.4 (0.55 to 10.22)   | 2.6 (0.57 to 10.71)   |
| Week 8                            | 0 (0.00 to 12.46)       | 12.9 (7.43 to 21.48) | 7.3 (2.96 to 16.96)   | 2.6 (0.57 to 10.71)   |
| Week 12                           | 5.3 (1.18 to 20.50)     | 14.5 (8.65 to 23.35) | 7.3 (2.96 to 16.96)   | 5.1 (1.71 to 14.37)   |

# Notes:

[101] - FAS:randomized subjects rcvd ≥1 dose randomized study drug, nonresponder imputation for missing data

[102] - FAS:randomized subjects rcvd ≥1 dose randomized study drug, nonresponder imputation for missing data

[103] - FAS:randomized subjects rcvd ≥1 dose randomized study drug, nonresponder imputation for missing data

[104] - FAS:randomized subjects rcvd ≥1 dose randomized study drug, nonresponder imputation for missing data

| End point values                  | ELS 5 mg/UPA placebo | UPA 15 mg/ELS placebo |  |  |
|-----------------------------------|----------------------|-----------------------|--|--|
| Subject group type                | Reporting group      | Reporting group       |  |  |
| Number of subjects analysed       | 41 <sup>[105]</sup>  | 40 <sup>[106]</sup>   |  |  |
| Units: percentage of participants |                      |                       |  |  |
| number (confidence interval 90%)  |                      |                       |  |  |
| Week 2                            | 0 (0.00 to 6.19)     | 0 (0.00 to 6.34)      |  |  |
| Week 4                            | 0 (0.00 to 6.19)     | 2.5 (0.56 to 10.46)   |  |  |
| Week 8                            | 2.4 (0.55 to 10.22)  | 12.5 (6.22 to 23.53)  |  |  |
| Week 12                           | 0 (0.00 to 6.19)     | 15.0 (7.96 to 26.47)  |  |  |

# Notes:

[105] - FAS:randomized subjects rcvd ≥1 dose randomized study drug, nonresponder imputation for missing data

## Statistical analyses

No statistical analyses for this end point

### Secondary: Change From Baseline in Swollen Joint Count 66 (SJC66)

|  |  |
|--|--|
| End point title  | Change From Baseline in Swollen Joint Count 66 (SJC66) |
| End point description:   |  |
| Sixty-six joints were assessed for swelling by physical examination. Swelling of each joint was classified as present (1) or absent (0), for a total possible score of 0 (0 joints with swelling) to 66 (worst possible score/66 joints with swelling). Baseline is defined as the last non-missing value prior to the first dose of study drug. Negative values indicate improvement from baseline. |  |
| End point type   | Secondary  |
| End point timeframe:   |  |
| Baseline, Week 2, Week 4, Week 8, and Week 12  |  |

| End point values                             | ELS placebo/UPA placebo | UPA 15 mg/ELS 60 mg      | ELS 60 mg/UPA placebo  | ELS 20 mg/UPA placebo  |
|--|-------------------------|--------------------------|------------------------|------------------------|
| Subject group type                           | Reporting group         | Reporting group          | Reporting group        | Reporting group        |
| Number of subjects analysed                  | 19 <sup>[107]</sup>     | 61 <sup>[108]</sup>      | 39 <sup>[109]</sup>    | 37 <sup>[110]</sup>    |
| Units: swollen joint counts                  |                         |                          |                        |                        |
| least squares mean (confidence interval 90%) |                         |                          |                        |                        |
| Week 2 (n=19, 61, 39, 37, 39, 40)            | -3.12 (-5.20 to -1.05)  | -6.06 (-7.26 to -4.86)   | -3.61 (-5.08 to -2.14) | -3.30 (-4.78 to -1.82) |
| Week 4 (n=19, 61, 38, 36, 40, 39)            | -4.70 (-6.92 to -2.49)  | -7.96 (-9.24 to -6.68)   | -5.11 (-6.69 to -3.53) | -4.67 (-6.27 to -3.07) |
| Week 8 (n=18, 59, 36, 33, 38, 38)            | -4.32 (-6.57 to -2.06)  | -10.28 (-11.57 to -8.99) | -6.15 (-7.77 to -4.54) | -8.08 (-9.74 to -6.42) |
| Week 12 (n=18, 56, 36, 31, 35, 37)           | -5.58 (-8.05 to -3.11)  | -10.86 (-12.29 to -9.44) | -6.68 (-8.44 to -4.92) | -7.85 (-9.70 to -6.01) |

Notes:

[107] - FAS: randomized, rcvd  $\geq 1$  dose randomized study drug, non-missing baseline,  $\geq 1$  post-baseline values

[108] - FAS: randomized, rcvd  $\geq 1$  dose randomized study drug, non-missing baseline,  $\geq 1$  post-baseline values

[109] - FAS: randomized, rcvd  $\geq 1$  dose randomized study drug, non-missing baseline,  $\geq 1$  post-baseline values

[110] - FAS: randomized, rcvd  $\geq 1$  dose randomized study drug, non-missing baseline,  $\geq 1$  post-baseline values

| End point values            | ELS 5 mg/UPA placebo | UPA 15 mg/ELS placebo |  |  |
|-----------------------------|----------------------|-----------------------|--|--|
| Subject group type          | Reporting group      | Reporting group       |  |  |
| Number of subjects analysed | 40 <sup>[111]</sup>  | 40 <sup>[112]</sup>   |  |  |
| Units: swollen joint counts |                      |                       |  |  |



|  |                         |                          |  |  |
|--|-------------------------|--------------------------|--|--|
| least squares mean (confidence interval 90%) |                         |                          |  |  |
| Week 2 (n=19, 61, 39, 37, 39, 40)            | -4.13 (-5.60 to -2.67)  | -6.02 (-7.46 to -4.58)   |  |  |
| Week 4 (n=19, 61, 38, 36, 40, 39)            | -6.05 (-7.60 to -4.51)  | -8.81 (-10.35 to -7.26)  |  |  |
| Week 8 (n=18, 59, 36, 33, 38, 38)            | -7.58 (-9.15 to -6.00)  | -10.11 (-11.68 to -8.55) |  |  |
| Week 12 (n=18, 56, 36, 31, 35, 37)           | -8.59 (-10.35 to -6.83) | -11.14 (-12.86 to -9.42) |  |  |

Notes:

[111] - FAS: randomized, rcvd  $\geq 1$  dose randomized study drug, non-missing baseline,  $\geq 1$  post-baseline values

[112] - FAS: randomized, rcvd  $\geq 1$  dose randomized study drug, non-missing baseline,  $\geq 1$  post-baseline values

## Statistical analyses

No statistical analyses for this end point

## Secondary: Change From Baseline in Participant's Assessment of Pain (Visual Analog Scale [VAS])

|                 |  |
|-----------------|--|
| End point title | Change From Baseline in Participant's Assessment of Pain (Visual Analog Scale [VAS]) |
|-----------------|--|

End point description:

Participants rated their pain on a visual analogue scale (VAS) of 0 to 100 (mm), with 0 representing no pain and 100 representing the worst possible pain. Baseline is defined as the last non-missing value prior to the first dose of study drug. Negative values indicate improvement from baseline.

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

End point timeframe:

Baseline, Week 2, Week 4, Week 8, and Week 12

| End point values                             | ELS placebo/UPA placebo   | UPA 15 mg/ELS 60 mg       | ELS 60 mg/UPA placebo     | ELS 20 mg/UPA placebo    |
|--|---------------------------|---------------------------|---------------------------|--------------------------|
| Subject group type                           | Reporting group           | Reporting group           | Reporting group           | Reporting group          |
| Number of subjects analysed                  | 19 <sup>[113]</sup>       | 59 <sup>[114]</sup>       | 39 <sup>[115]</sup>       | 35 <sup>[116]</sup>      |
| Units: units on a scale                      |                           |                           |                           |                          |
| least squares mean (confidence interval 90%) |                           |                           |                           |                          |
| Week 2 (n=19, 59, 39, 35, 38, 39)            | -14.97 (-22.80 to -7.14)  | -24.02 (-28.63 to -19.41) | -10.22 (-15.81 to -4.63)  | -8.78 (-14.49 to -3.07)  |
| Week 4 (n=19, 59, 37, 34, 40, 39)            | -20.87 (-29.60 to -12.14) | -28.17 (-33.28 to -23.07) | -12.95 (-19.27 to -6.63)  | -8.41 (-14.85 to -1.97)  |
| Week 8 (n=18, 57, 35, 31, 38, 38)            | -16.21 (-25.97 to -6.45)  | -31.86 (-37.50 to -26.22) | -20.92 (-27.96 to -13.88) | -11.12 (-18.46 to -3.79) |
| Week 12 (n=18, 54, 35, 29, 35, 37)           | -23.37 (-33.74 to -13.01) | -32.27 (-38.32 to -26.23) | -19.52 (-26.97 to -12.06) | -10.46 (-18.38 to -2.55) |

Notes:

[113] - FAS: randomized, rcvd  $\geq 1$  dose randomized study drug, non-missing baseline,  $\geq 1$  post-baseline values

[114] - FAS: randomized, rcvd  $\geq 1$  dose randomized study drug, non-missing baseline,  $\geq 1$  post-baseline values

[115] - FAS: randomized, rcvd  $\geq 1$  dose randomized study drug, non-missing baseline,  $\geq 1$  post-

baseline values

[116] - FAS: randomized, rcvd  $\geq 1$  dose randomized study drug, non-missing baseline,  $\geq 1$  post-baseline values

| End point values                             | ELS 5 mg/UPA placebo      | UPA 15 mg/ELS placebo     |  |  |
|--|---------------------------|---------------------------|--|--|
| Subject group type                           | Reporting group           | Reporting group           |  |  |
| Number of subjects analysed                  | 40 <sup>[117]</sup>       | 39 <sup>[118]</sup>       |  |  |
| Units: units on a scale                      |                           |                           |  |  |
| least squares mean (confidence interval 90%) |                           |                           |  |  |
| Week 2 (n=19, 59, 39, 35, 38, 39)            | -7.61 (-13.12 to -2.11)   | -15.99 (-21.49 to -10.48) |  |  |
| Week 4 (n=19, 59, 37, 34, 40, 39)            | -9.91 (-15.93 to -3.88)   | -25.58 (-31.69 to -19.48) |  |  |
| Week 8 (n=18, 57, 35, 31, 38, 38)            | -13.90 (-20.64 to -7.16)  | -30.70 (-37.47 to -23.92) |  |  |
| Week 12 (n=18, 54, 35, 29, 35, 37)           | -17.84 (-25.13 to -10.55) | -38.34 (-45.57 to -31.12) |  |  |

Notes:

[117] - FAS: randomized, rcvd  $\geq 1$  dose randomized study drug, non-missing baseline,  $\geq 1$  post-baseline values

[118] - FAS: randomized, rcvd  $\geq 1$  dose randomized study drug, non-missing baseline,  $\geq 1$  post-baseline values

## Statistical analyses

No statistical analyses for this end point

## Secondary: Change From Baseline in Patient's Global Assessment of Disease Activity (PGA)

|                 |   |
|-----------------|---|
| End point title | Change From Baseline in Patient's Global Assessment of Disease Activity (PGA) |
|-----------------|---|

End point description:

Participants rated their disease activity for the past 24 hours using a Patient's Global Assessment of Disease Activity Global visual analogue scale (VAS). The range is 0 to 100 mm, with 0 representing no disease activity and 100 representing severe disease activity. Negative values indicate improvement from baseline.

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

End point timeframe:

Baseline, Week 2, Week 4, Week 8, and Week 12

| End point values                             | ELS placebo/UPA placebo  | UPA 15 mg/ELS 60 mg       | ELS 60 mg/UPA placebo    | ELS 20 mg/UPA placebo   |
|--|--------------------------|---------------------------|--------------------------|-------------------------|
| Subject group type                           | Reporting group          | Reporting group           | Reporting group          | Reporting group         |
| Number of subjects analysed                  | 19 <sup>[119]</sup>      | 59 <sup>[120]</sup>       | 39 <sup>[121]</sup>      | 35 <sup>[122]</sup>     |
| Units: units on a scale                      |                          |                           |                          |                         |
| least squares mean (confidence interval 90%) |                          |                           |                          |                         |
| Week 2 (n=19, 59, 39, 35, 38, 39)            | -11.87 (-20.12 to -3.63) | -23.44 (-28.31 to -18.57) | -11.16 (-17.07 to -5.25) | -6.47 (-12.51 to -0.44) |

|                                    |                           |                           |                           |                         |
|------------------------------------|---------------------------|---------------------------|---------------------------|-------------------------|
| Week 4 (n=19, 59, 37, 34, 40, 39)  | -20.93 (-29.91 to -11.94) | -25.97 (-31.24 to -20.70) | -12.79 (-19.32 to -6.26)  | -7.15 (-13.79 to -0.50) |
| Week 8 (n=18, 57, 35, 31, 38, 38)  | -15.14 (-25.37 to -4.91)  | -28.05 (-33.97 to -22.13) | -17.25 (-24.65 to -9.84)  | -6.27 (-14.00 to 1.45)  |
| Week 12 (n=18, 54, 35, 29, 35, 37) | -19.55 (-30.15 to -8.95)  | -30.52 (-36.72 to -24.32) | -19.47 (-27.13 to -11.81) | -8.45 (-16.58 to -0.33) |

Notes:

[119] - FAS: randomized, rcvd  $\geq$  1 dose randomized study drug, non-missing baseline,  $\geq$  1 post-baseline values

[120] - FAS: randomized, rcvd  $\geq$  1 dose randomized study drug, non-missing baseline,  $\geq$  1 post-baseline values

[121] - FAS: randomized, rcvd  $\geq$  1 dose randomized study drug, non-missing baseline,  $\geq$  1 post-baseline values

[122] - FAS: randomized, rcvd  $\geq$  1 dose randomized study drug, non-missing baseline,  $\geq$  1 post-baseline values

| End point values                             | ELS 5 mg/UPA placebo     | UPA 15 mg/ELS placebo     |  |  |
|--|--------------------------|---------------------------|--|--|
| Subject group type                           | Reporting group          | Reporting group           |  |  |
| Number of subjects analysed                  | 40 <sup>[123]</sup>      | 39 <sup>[124]</sup>       |  |  |
| Units: units on a scale                      |                          |                           |  |  |
| least squares mean (confidence interval 90%) |                          |                           |  |  |
| Week 2 (n=19, 59, 39, 35, 38, 39)            | -5.95 (-11.76 to -0.14)  | -14.76 (-20.56 to -8.95)  |  |  |
| Week 4 (n=19, 59, 37, 34, 40, 39)            | -8.73 (-14.94 to -2.51)  | -23.02 (-29.31 to -16.73) |  |  |
| Week 8 (n=18, 57, 35, 31, 38, 38)            | -14.25 (-21.34 to -7.17) | -26.79 (-33.90 to -19.69) |  |  |
| Week 12 (n=18, 54, 35, 29, 35, 37)           | -16.40 (-23.89 to -8.92) | -33.53 (-40.94 to -26.13) |  |  |

Notes:

[123] - FAS: randomized, rcvd  $\geq$  1 dose randomized study drug, non-missing baseline,  $\geq$  1 post-baseline values

[124] - FAS: randomized, rcvd  $\geq$  1 dose randomized study drug, non-missing baseline,  $\geq$  1 post-baseline values

## Statistical analyses

No statistical analyses for this end point

## Secondary: Change From Baseline in Physician's Global Assessment of Disease Activity (PhGA)

|                 |  |
|-----------------|--|
| End point title | Change From Baseline in Physician's Global Assessment of Disease Activity (PhGA) |
|-----------------|--|

End point description:

The physician assessed a participant's disease activity at the time of the visit using a Physician's Global Assessment of Disease visual analogue scale (VAS). The range is 0 to 100 mm, with 0 representing no disease activity and 100 representing severe disease activity. Negative values indicate improvement from baseline.

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

End point timeframe:

Baseline, Week 2, Week 4, Week 8, and Week 12

| End point values                             | ELS placebo/UPA placebo   | UPA 15 mg/ELS 60 mg       | ELS 60 mg/UPA placebo     | ELS 20 mg/UPA placebo     |
|--|---------------------------|---------------------------|---------------------------|---------------------------|
| Subject group type                           | Reporting group           | Reporting group           | Reporting group           | Reporting group           |
| Number of subjects analysed                  | 18 <sup>[125]</sup>       | 58 <sup>[126]</sup>       | 38 <sup>[127]</sup>       | 35 <sup>[128]</sup>       |
| Units: units on a scale                      |                           |                           |                           |                           |
| least squares mean (confidence interval 90%) |                           |                           |                           |                           |
| Week 2 (n=17, 57, 38, 35, 36, 38)            | -16.31 (-24.67 to -7.96)  | -22.35 (-27.10 to -17.60) | -19.01 (-24.74 to -13.27) | -16.12 (-21.97 to -10.26) |
| Week 4 (n=17, 58, 37, 34, 37, 37)            | -25.20 (-33.52 to -16.89) | -33.54 (-38.26 to -28.82) | -25.33 (-31.11 to -19.55) | -19.59 (-25.49 to -13.69) |
| Week 8 (n=17, 57, 35, 31, 35, 37)            | -24.47 (-32.71 to -16.22) | -40.00 (-44.71 to -35.29) | -30.06 (-35.91 to -24.22) | -33.93 (-39.99 to -27.87) |
| Week 12 (n=18, 53, 35, 29, 33, 36)           | -23.19 (-31.69 to -14.69) | -46.98 (-52.00 to -41.96) | -30.15 (-36.28 to -24.03) | -31.68 (-38.19 to -25.18) |

Notes:

[125] - FAS: randomized, rcvd  $\geq$  1 dose randomized study drug, non-missing baseline,  $\geq$  1 post-baseline values

[126] - FAS: randomized, rcvd  $\geq$  1 dose randomized study drug, non-missing baseline,  $\geq$  1 post-baseline values

[127] - FAS: randomized, rcvd  $\geq$  1 dose randomized study drug, non-missing baseline,  $\geq$  1 post-baseline values

[128] - FAS: randomized, rcvd  $\geq$  1 dose randomized study drug, non-missing baseline,  $\geq$  1 post-baseline values

| End point values                             | ELS 5 mg/UPA placebo      | UPA 15 mg/ELS placebo     |  |  |
|--|---------------------------|---------------------------|--|--|
| Subject group type                           | Reporting group           | Reporting group           |  |  |
| Number of subjects analysed                  | 37 <sup>[129]</sup>       | 38 <sup>[130]</sup>       |  |  |
| Units: units on a scale                      |                           |                           |  |  |
| least squares mean (confidence interval 90%) |                           |                           |  |  |
| Week 2 (n=17, 57, 38, 35, 36, 38)            | -11.64 (-17.44 to -5.84)  | -24.71 (-30.37 to -19.05) |  |  |
| Week 4 (n=17, 58, 37, 34, 37, 37)            | -18.31 (-24.05 to -12.56) | -34.17 (-39.86 to -28.49) |  |  |
| Week 8 (n=17, 57, 35, 31, 35, 37)            | -25.21 (-31.03 to -19.40) | -41.02 (-46.69 to -35.36) |  |  |
| Week 12 (n=18, 53, 35, 29, 33, 36)           | -24.55 (-30.75 to -18.36) | -50.89 (-56.87 to -44.91) |  |  |

Notes:

[129] - FAS: randomized, rcvd  $\geq$  1 dose randomized study drug, non-missing baseline,  $\geq$  1 post-baseline values

[130] - FAS: randomized, rcvd  $\geq$  1 dose randomized study drug, non-missing baseline,  $\geq$  1 post-baseline values

## Statistical analyses

No statistical analyses for this end point

## Adverse events

### Adverse events information

Timeframe for reporting adverse events:

Treatment-emergent adverse events (TEAEs) and serious adverse events (TESAEs) collected from 1st dose of study drug until 30 d after last dose, up to 16 wks. SAEs and protocol-related nonserious AEs were collected from the time the subject signed consent.

Adverse event reporting additional description:

TEAEs and SAEs are defined as any AE or SAE with onset or worsening reported by a participant from the time that the first dose of study drug is administered until 30 days have elapsed following discontinuation of study drug. TEAEs were collected whether elicited or spontaneously reported by the participant.

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

### Dictionary used

|                    |        |
|--------------------|--------|
| Dictionary name    | MedDRA |
| Dictionary version | 22.1   |

### Reporting groups

|                       |                         |
|-----------------------|-------------------------|
| Reporting group title | ELS placebo/UPA placebo |
|-----------------------|-------------------------|

Reporting group description:

Placebo capsule for elsubrutinib once a day by mouth for 12 weeks; placebo film-coated tablet for upadacitinib once a day by mouth for 12 weeks

|                       |                     |
|-----------------------|---------------------|
| Reporting group title | UPA 15 mg/ELS 60 mg |
|-----------------------|---------------------|

Reporting group description:

15 mg film-coated upadacitinib tablet once a day by mouth for 12 weeks; 60 mg elsubrutinib capsule once a day by mouth for 12 weeks

|                       |                       |
|-----------------------|-----------------------|
| Reporting group title | ELS 60 mg/UPA placebo |
|-----------------------|-----------------------|

Reporting group description:

60 mg elsubrutinib capsule once a day by mouth for 12 weeks; placebo film-coated tablet for upadacitinib once a day by mouth for 12 weeks

|                       |                       |
|-----------------------|-----------------------|
| Reporting group title | ELS 20 mg/UPA placebo |
|-----------------------|-----------------------|

Reporting group description:

20 mg elsubrutinib capsule once a day by mouth for 12 weeks; placebo film-coated tablet for upadacitinib once a day by mouth for 12 weeks

|                       |                      |
|-----------------------|----------------------|
| Reporting group title | ELS 5 mg/UPA placebo |
|-----------------------|----------------------|

Reporting group description:

5 mg elsubrutinib capsule once a day by mouth for 12 weeks; placebo film-coated tablet for upadacitinib once a day by mouth for 12 weeks

|                       |                       |
|-----------------------|-----------------------|
| Reporting group title | UPA 15 mg/ELS placebo |
|-----------------------|-----------------------|

Reporting group description:

15 mg film-coated upadacitinib tablet once a day by mouth for 12 weeks; placebo capsule for elsubrutinib once a day by mouth for 12 weeks

| Serious adverse events                            | ELS placebo/UPA placebo | UPA 15 mg/ELS 60 mg | ELS 60 mg/UPA placebo |
|---|-------------------------|---------------------|-----------------------|
| Total subjects affected by serious adverse events |                         |                     |                       |
| subjects affected / exposed                       | 1 / 19 (5.26%)          | 0 / 62 (0.00%)      | 0 / 41 (0.00%)        |
| number of deaths (all causes)                     | 0                       | 0                   | 0                     |
| number of deaths resulting from adverse events    | 0                       | 0                   | 0                     |
| Investigations                                    |                         |                     |                       |

|   |                |                |                |
|---|----------------|----------------|----------------|
| PROSTATIC SPECIFIC ANTIGEN INCREASED            |                |                |                |
| subjects affected / exposed                     | 1 / 19 (5.26%) | 0 / 62 (0.00%) | 0 / 41 (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          |
| Injury, poisoning and procedural complications  |                |                |                |
| CLAVICLE FRACTURE                               |                |                |                |
| subjects affected / exposed                     | 0 / 19 (0.00%) | 0 / 62 (0.00%) | 0 / 41 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0          | 0 / 0          | 0 / 0          |
| deaths causally related to treatment / all      | 0 / 0          | 0 / 0          | 0 / 0          |
| RIB FRACTURE                                    |                |                |                |
| subjects affected / exposed                     | 0 / 19 (0.00%) | 0 / 62 (0.00%) | 0 / 41 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0          | 0 / 0          | 0 / 0          |
| deaths causally related to treatment / all      | 0 / 0          | 0 / 0          | 0 / 0          |
| ROAD TRAFFIC ACCIDENT                           |                |                |                |
| subjects affected / exposed                     | 0 / 19 (0.00%) | 0 / 62 (0.00%) | 0 / 41 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0          | 0 / 0          | 0 / 0          |
| deaths causally related to treatment / all      | 0 / 0          | 0 / 0          | 0 / 0          |
| Cardiac disorders                               |                |                |                |
| CARDIAC ARREST                                  |                |                |                |
| subjects affected / exposed                     | 0 / 19 (0.00%) | 0 / 62 (0.00%) | 0 / 41 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0          | 0 / 0          | 0 / 0          |
| deaths causally related to treatment / all      | 0 / 0          | 0 / 0          | 0 / 0          |
| CORONARY ARTERY DISEASE                         |                |                |                |
| subjects affected / exposed                     | 0 / 19 (0.00%) | 0 / 62 (0.00%) | 0 / 41 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0          | 0 / 0          | 0 / 0          |
| deaths causally related to treatment / all      | 0 / 0          | 0 / 0          | 0 / 0          |
| Nervous system disorders                        |                |                |                |
| LUMBAR RADICULOPATHY                            |                |                |                |
| subjects affected / exposed                     | 0 / 19 (0.00%) | 0 / 62 (0.00%) | 0 / 41 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0          | 0 / 0          | 0 / 0          |
| deaths causally related to treatment / all      | 0 / 0          | 0 / 0          | 0 / 0          |
| Infections and infestations                     |                |                |                |
| PYELONEPHRITIS                                  |                |                |                |

|   |                |                |                |
|---|----------------|----------------|----------------|
| subjects affected / exposed                     | 0 / 19 (0.00%) | 0 / 62 (0.00%) | 0 / 41 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0          | 0 / 0          | 0 / 0          |
| deaths causally related to treatment / all      | 0 / 0          | 0 / 0          | 0 / 0          |

| <b>Serious adverse events</b>                     | ELS 20 mg/UPA placebo | ELS 5 mg/UPA placebo | UPA 15 mg/ELS placebo |
|---|-----------------------|----------------------|-----------------------|
| Total subjects affected by serious adverse events |                       |                      |                       |
| subjects affected / exposed                       | 2 / 39 (5.13%)        | 3 / 41 (7.32%)       | 0 / 40 (0.00%)        |
| number of deaths (all causes)                     | 0                     | 1                    | 0                     |
| number of deaths resulting from adverse events    | 0                     | 1                    | 0                     |
| Investigations                                    |                       |                      |                       |
| PROSTATIC SPECIFIC ANTIGEN INCREASED              |                       |                      |                       |
| subjects affected / exposed                       | 0 / 39 (0.00%)        | 0 / 41 (0.00%)       | 0 / 40 (0.00%)        |
| occurrences causally related to treatment / all   | 0 / 0                 | 0 / 0                | 0 / 0                 |
| deaths causally related to treatment / all        | 0 / 0                 | 0 / 0                | 0 / 0                 |
| Injury, poisoning and procedural complications    |                       |                      |                       |
| CLAVICLE FRACTURE                                 |                       |                      |                       |
| subjects affected / exposed                       | 0 / 39 (0.00%)        | 1 / 41 (2.44%)       | 0 / 40 (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                 |
| RIB FRACTURE                                      |                       |                      |                       |
| subjects affected / exposed                       | 0 / 39 (0.00%)        | 1 / 41 (2.44%)       | 0 / 40 (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                 |
| ROAD TRAFFIC ACCIDENT                             |                       |                      |                       |
| subjects affected / exposed                       | 0 / 39 (0.00%)        | 1 / 41 (2.44%)       | 0 / 40 (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 disorders                                 |                       |                      |                       |
| CARDIAC ARREST                                    |                       |                      |                       |
| subjects affected / exposed                       | 0 / 39 (0.00%)        | 1 / 41 (2.44%)       | 0 / 40 (0.00%)        |
| occurrences causally related to treatment / all   | 0 / 0                 | 0 / 1                | 0 / 0                 |
| deaths causally related to treatment / all        | 0 / 0                 | 0 / 1                | 0 / 0                 |
| CORONARY ARTERY DISEASE                           |                       |                      |                       |

|   |                |                |                |
|---|----------------|----------------|----------------|
| subjects affected / exposed                     | 1 / 39 (2.56%) | 0 / 41 (0.00%) | 0 / 40 (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          |
| <b>Nervous system disorders</b>                 |                |                |                |
| <b>LUMBAR RADICULOPATHY</b>                     |                |                |                |
| subjects affected / exposed                     | 1 / 39 (2.56%) | 0 / 41 (0.00%) | 0 / 40 (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          |
| <b>Infections and infestations</b>              |                |                |                |
| <b>PYELONEPHRITIS</b>                           |                |                |                |
| subjects affected / exposed                     | 0 / 39 (0.00%) | 1 / 41 (2.44%) | 0 / 40 (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 %

| <b>Non-serious adverse events</b>  | ELS placebo/UPA placebo | UPA 15 mg/ELS 60 mg | ELS 60 mg/UPA placebo |
|--|-------------------------|---------------------|-----------------------|
| Total subjects affected by non-serious adverse events                      |                         |                     |                       |
| subjects affected / exposed  | 10 / 19 (52.63%)        | 7 / 62 (11.29%)     | 17 / 41 (41.46%)      |
| <b>Investigations</b>  |                         |                     |                       |
| <b>ALANINE AMINOTRANSFERASE INCREASED</b>                                  |                         |                     |                       |
| subjects affected / exposed  | 0 / 19 (0.00%)          | 0 / 62 (0.00%)      | 0 / 41 (0.00%)        |
| occurrences (all)  | 0                       | 0                   | 0                     |
| <b>BLOOD GLUCOSE INCREASED</b>   |                         |                     |                       |
| subjects affected / exposed  | 1 / 19 (5.26%)          | 0 / 62 (0.00%)      | 0 / 41 (0.00%)        |
| occurrences (all)  | 1                       | 0                   | 0                     |
| <b>Neoplasms benign, malignant and unspecified (incl cysts and polyps)</b> |                         |                     |                       |
| <b>ENDOMETRIAL ADENOCARCINOMA</b>  |                         |                     |                       |
| subjects affected / exposed  | 1 / 19 (5.26%)          | 0 / 62 (0.00%)      | 0 / 41 (0.00%)        |
| occurrences (all)  | 1                       | 0                   | 0                     |
| <b>Injury, poisoning and procedural complications</b>                      |                         |                     |                       |
| <b>ANIMAL BITE</b>   |                         |                     |                       |
| subjects affected / exposed  | 1 / 19 (5.26%)          | 0 / 62 (0.00%)      | 0 / 41 (0.00%)        |
| occurrences (all)  | 1                       | 0                   | 0                     |
| <b>General disorders and administration</b>                                |                         |                     |                       |



|   |  |   |   |
|---|--|---|---|
| site conditions<br>PERIPHERAL SWELLING<br>subjects affected / exposed<br>occurrences (all)  | 1 / 19 (5.26%)<br>1  | 0 / 62 (0.00%)<br>0   | 1 / 41 (2.44%)<br>1   |
| Gastrointestinal disorders<br>DIARRHOEA<br>subjects affected / exposed<br>occurrences (all)   | 0 / 19 (0.00%)<br>0  | 0 / 62 (0.00%)<br>0   | 3 / 41 (7.32%)<br>3   |
| Respiratory, thoracic and mediastinal disorders<br>COUGH<br>subjects affected / exposed<br>occurrences (all)  | 0 / 19 (0.00%)<br>0  | 1 / 62 (1.61%)<br>1   | 2 / 41 (4.88%)<br>2   |
| Skin and subcutaneous tissue disorders<br>ALOPECIA<br>subjects affected / exposed<br>occurrences (all)<br><br>ERYTHEMA<br>subjects affected / exposed<br>occurrences (all)  | 0 / 19 (0.00%)<br>0<br><br>1 / 19 (5.26%)<br>1   | 0 / 62 (0.00%)<br>0<br><br>1 / 62 (1.61%)<br>1  | 0 / 41 (0.00%)<br>0<br><br>0 / 41 (0.00%)<br>0  |
| Musculoskeletal and connective tissue disorders<br>ARTHRALGIA<br>subjects affected / exposed<br>occurrences (all)<br><br>ARTHRITIS<br>subjects affected / exposed<br>occurrences (all)<br><br>BONE DEFORMITY<br>subjects affected / exposed<br>occurrences (all)<br><br>PAIN IN EXTREMITY<br>subjects affected / exposed<br>occurrences (all)<br><br>RHEUMATOID ARTHRITIS<br>subjects affected / exposed<br>occurrences (all) | 1 / 19 (5.26%)<br>1<br><br>1 / 19 (5.26%)<br>1<br><br>1 / 19 (5.26%)<br>1<br><br>1 / 19 (5.26%)<br>1<br><br>2 / 19 (10.53%)<br>2 | 1 / 62 (1.61%)<br>1<br><br>0 / 62 (0.00%)<br>0<br><br>0 / 62 (0.00%)<br>0<br><br>0 / 62 (0.00%)<br>0<br><br>0 / 62 (0.00%)<br>0 | 0 / 41 (0.00%)<br>0<br><br>1 / 41 (2.44%)<br>1<br><br>0 / 41 (0.00%)<br>0<br><br>0 / 41 (0.00%)<br>0<br><br>3 / 41 (7.32%)<br>3 |
| Infections and infestations   |  |   |   |

|                                    |                |                |                |
|------------------------------------|----------------|----------------|----------------|
| BRONCHITIS                         |                |                |                |
| subjects affected / exposed        | 1 / 19 (5.26%) | 0 / 62 (0.00%) | 1 / 41 (2.44%) |
| occurrences (all)                  | 1              | 0              | 1              |
| SINUSITIS                          |                |                |                |
| subjects affected / exposed        | 1 / 19 (5.26%) | 0 / 62 (0.00%) | 1 / 41 (2.44%) |
| occurrences (all)                  | 1              | 0              | 1              |
| TOOTH INFECTION                    |                |                |                |
| subjects affected / exposed        | 1 / 19 (5.26%) | 0 / 62 (0.00%) | 0 / 41 (0.00%) |
| occurrences (all)                  | 1              | 0              | 0              |
| UPPER RESPIRATORY TRACT INFECTION  |                |                |                |
| subjects affected / exposed        | 1 / 19 (5.26%) | 4 / 62 (6.45%) | 2 / 41 (4.88%) |
| occurrences (all)                  | 1              | 4              | 2              |
| URINARY TRACT INFECTION            |                |                |                |
| subjects affected / exposed        | 0 / 19 (0.00%) | 0 / 62 (0.00%) | 4 / 41 (9.76%) |
| occurrences (all)                  | 0              | 0              | 5              |
| Metabolism and nutrition disorders |                |                |                |
| VITAMIN D DEFICIENCY               |                |                |                |
| subjects affected / exposed        | 1 / 19 (5.26%) | 0 / 62 (0.00%) | 0 / 41 (0.00%) |
| occurrences (all)                  | 1              | 0              | 0              |

| Non-serious adverse events  | ELS 20 mg/UPA placebo | ELS 5 mg/UPA placebo | UPA 15 mg/ELS placebo |
|---|-----------------------|----------------------|-----------------------|
| Total subjects affected by non-serious adverse events               |                       |                      |                       |
| subjects affected / exposed   | 10 / 39 (25.64%)      | 8 / 41 (19.51%)      | 9 / 40 (22.50%)       |
| Investigations  |                       |                      |                       |
| ALANINE AMINOTRANSFERASE INCREASED                                  |                       |                      |                       |
| subjects affected / exposed   | 0 / 39 (0.00%)        | 0 / 41 (0.00%)       | 2 / 40 (5.00%)        |
| occurrences (all)   | 0                     | 0                    | 2                     |
| BLOOD GLUCOSE INCREASED   |                       |                      |                       |
| subjects affected / exposed   | 0 / 39 (0.00%)        | 0 / 41 (0.00%)       | 0 / 40 (0.00%)        |
| occurrences (all)   | 0                     | 0                    | 0                     |
| Neoplasms benign, malignant and unspecified (incl cysts and polyps) |                       |                      |                       |
| ENDOMETRIAL ADENOCARCINOMA  |                       |                      |                       |
| subjects affected / exposed   | 0 / 39 (0.00%)        | 0 / 41 (0.00%)       | 0 / 40 (0.00%)        |
| occurrences (all)   | 0                     | 0                    | 0                     |
| Injury, poisoning and procedural complications                      |                       |                      |                       |

|  |   |  |  |
|--|---|--|--|
| ANIMAL BITE<br>subjects affected / exposed<br>occurrences (all)  | 0 / 39 (0.00%)<br>0   | 0 / 41 (0.00%)<br>0  | 0 / 40 (0.00%)<br>0  |
| General disorders and administration<br>site conditions<br>PERIPHERAL SWELLING<br>subjects affected / exposed<br>occurrences (all)   | 0 / 39 (0.00%)<br>0   | 0 / 41 (0.00%)<br>0  | 0 / 40 (0.00%)<br>0  |
| Gastrointestinal disorders<br>DIARRHOEA<br>subjects affected / exposed<br>occurrences (all)  | 0 / 39 (0.00%)<br>0   | 0 / 41 (0.00%)<br>0  | 0 / 40 (0.00%)<br>0  |
| Respiratory, thoracic and mediastinal<br>disorders<br>COUGH<br>subjects affected / exposed<br>occurrences (all)  | 0 / 39 (0.00%)<br>0   | 0 / 41 (0.00%)<br>0  | 2 / 40 (5.00%)<br>2  |
| Skin and subcutaneous tissue disorders<br>ALOPECIA<br>subjects affected / exposed<br>occurrences (all)<br><br>ERYTHEMA<br>subjects affected / exposed<br>occurrences (all)   | 2 / 39 (5.13%)<br>2<br><br>0 / 39 (0.00%)<br>0  | 0 / 41 (0.00%)<br>0<br><br>0 / 41 (0.00%)<br>0   | 0 / 40 (0.00%)<br>0<br><br>0 / 40 (0.00%)<br>0   |
| Musculoskeletal and connective tissue<br>disorders<br>ARTHRALGIA<br>subjects affected / exposed<br>occurrences (all)<br><br>ARTHRITIS<br>subjects affected / exposed<br>occurrences (all)<br><br>BONE DEFORMITY<br>subjects affected / exposed<br>occurrences (all)<br><br>PAIN IN EXTREMITY<br>subjects affected / exposed<br>occurrences (all)<br><br>RHEUMATOID ARTHRITIS | 0 / 39 (0.00%)<br>0<br><br>0 / 39 (0.00%)<br>0<br><br>0 / 39 (0.00%)<br>0<br><br>0 / 39 (0.00%)<br>0<br><br>0 / 39 (0.00%)<br>0 | 0 / 41 (0.00%)<br>0<br><br>0 / 41 (0.00%)<br>0<br><br>0 / 41 (0.00%)<br>0<br><br>0 / 41 (0.00%)<br>0 | 0 / 40 (0.00%)<br>0<br><br>0 / 40 (0.00%)<br>0<br><br>0 / 40 (0.00%)<br>0<br><br>0 / 40 (0.00%)<br>0 |

|  |                     |                     |                     |
|--|---------------------|---------------------|---------------------|
| subjects affected / exposed<br>occurrences (all) | 3 / 39 (7.69%)<br>3 | 3 / 41 (7.32%)<br>3 | 0 / 40 (0.00%)<br>0 |
| Infections and infestations                      |                     |                     |                     |
| BRONCHITIS                                       |                     |                     |                     |
| subjects affected / exposed<br>occurrences (all) | 0 / 39 (0.00%)<br>0 | 1 / 41 (2.44%)<br>1 | 0 / 40 (0.00%)<br>0 |
| SINUSITIS  |                     |                     |                     |
| subjects affected / exposed<br>occurrences (all) | 0 / 39 (0.00%)<br>0 | 0 / 41 (0.00%)<br>0 | 0 / 40 (0.00%)<br>0 |
| TOOTH INFECTION                                  |                     |                     |                     |
| subjects affected / exposed<br>occurrences (all) | 1 / 39 (2.56%)<br>1 | 0 / 41 (0.00%)<br>0 | 1 / 40 (2.50%)<br>1 |
| UPPER RESPIRATORY TRACT<br>INFECTION             |                     |                     |                     |
| subjects affected / exposed<br>occurrences (all) | 3 / 39 (7.69%)<br>3 | 2 / 41 (4.88%)<br>2 | 2 / 40 (5.00%)<br>2 |
| URINARY TRACT INFECTION                          |                     |                     |                     |
| subjects affected / exposed<br>occurrences (all) | 2 / 39 (5.13%)<br>2 | 2 / 41 (4.88%)<br>2 | 3 / 40 (7.50%)<br>4 |
| Metabolism and nutrition disorders               |                     |                     |                     |
| VITAMIN D DEFICIENCY                             |                     |                     |                     |
| subjects affected / exposed<br>occurrences (all) | 0 / 39 (0.00%)<br>0 | 0 / 41 (0.00%)<br>0 | 0 / 40 (0.00%)<br>0 |

## More information

### Substantial protocol amendments (globally)

Were there any global substantial amendments to the protocol? Yes

| Date            | Amendment   |
|-----------------|---|
| 11 July 2018    | <p>Version 2.0</p> <ul style="list-style-type: none"><li>• Modified categorization of PhGA assessment (from patient-reported outcome to exam)</li><li>• Clarified PK sample collection and creatine phosphokinase (CPK) laboratory test requirements</li><li>• Updated biomarker collection requirements</li><li>• Added respiratory rate to vital signs collected and abnormal labs to the list of potential reasons for study drug discontinuation</li></ul>  |
| 05 October 2018 | <p>Version 3.0</p> <ul style="list-style-type: none"><li>• Added a 12-lead ECG to Weeks 2, 4, and 8</li><li>• Added information on subject at-home weekly temperature monitoring for assessment of serious infections</li></ul>   |
| 11 March 2019   | <p>Version 4.0</p> <ul style="list-style-type: none"><li>• Reduced the washout period from <math>\geq 10</math> weeks to <math>\geq 4</math> weeks for adalimumab, infliximab, certolizumab, golimumab, tocilizumab, and abatacept</li><li>• Prior exposure to JAK inhibitors changed from not allowed to not greater than 2 weeks with the addition of a washout period <math>\geq 30</math> days required prior to first dose of study drug</li><li>• Added clarification that nonsteroidal anti-inflammatory drugs, acetaminophen/paracetamol, oral corticosteroids (equivalent to prednisone <math>\leq 10</math> mg/day), or inhaled corticosteroids, if not taken at Baseline, should not be initiated.</li><li>• Added TBNK cell testing may be completed at Screening (rather than Baseline) if indicated</li><li>• Added footnote regarding pre-dose collection for biomarker samples at Baseline to the Activity Schedule</li><li>• Added information on dispensing the subject dosing diary and at-home temperature monitoring log at Baseline and a reminder to review the at-home temperature monitoring log during weekly at-home temperature monitoring</li><li>• Added T or T SPOT®.TB test language from the Canada-specific amendment</li><li>• Added an unblinded administrative interim assessment of efficacy when 80% of subjects have completed the Week 12 visit (to be performed in addition to the previously planned unblinded safety assessments)</li></ul> |
| 15 October 2019 | <p>Version 5.0</p> <ul style="list-style-type: none"><li>• Updated Sponsor/Emergency Medical Contact info</li></ul>   |

Notes:

### Interruptions (globally)

Were there any global interruptions to the trial? No

### Limitations and caveats

None reported