



## Clinical trial results:

### A National, Open-Label, Single-Arm, Phase IIIb Study to Evaluate the Efficacy of Weekly Tocilizumab Subcutaneous, Administered as Monotherapy or in Combination With Methotrexate and/or Other DMARDs in Rheumatoid Arthritis (RA) Patients

#### Summary

|                          |                |
|--------------------------|----------------|
| EudraCT number           | 2013-001569-17 |
| Trial protocol           | IT             |
| Global end of trial date | 05 July 2016   |

#### Results information

|                                |                  |
|--------------------------------|------------------|
| Result version number          | v1               |
| This version publication date  | 06 November 2016 |
| First version publication date | 06 November 2016 |

#### Trial information

##### Trial identification

|                       |         |
|-----------------------|---------|
| Sponsor protocol code | ML28699 |
|-----------------------|---------|

##### Additional study identifiers

|                                    |             |
|------------------------------------|-------------|
| ISRCTN number                      | -           |
| ClinicalTrials.gov id (NCT number) | NCT01941940 |
| WHO universal trial number (UTN)   | -           |

Notes:

#### Sponsors

|                              |                                                                                                                                                                     |
|------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Sponsor organisation name    | F. Hoffmann-La Roche AG                                                                                                                                             |
| Sponsor organisation address | Grenzacherstrasse 124, Basel, Switzerland, CH-4070                                                                                                                  |
| Public contact               | Roche Trial Information Hotline, F. Hoffmann-La Roche AG, 41 61 6878333, <a href="mailto:global.trial_information@roche.com">global.trial_information@roche.com</a> |
| Scientific contact           | Roche Trial Information Hotline, F. Hoffmann-La Roche AG, 41 61 6878333, <a href="mailto:global.trial_information@roche.com">global.trial_information@roche.com</a> |

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                                       | Interim           |
| Date of interim/final analysis                       | 09 September 2015 |
| Is this the analysis of the primary completion data? | Yes               |
| Primary completion date                              | 09 September 2015 |
| Global end of trial reached?                         | Yes               |
| Global end of trial date                             | 05 July 2016      |
| Was the trial ended prematurely?                     | No                |

Notes:

## General information about the trial

Main objective of the trial:

To assess the efficacy of subcutaneous (SC) tocilizumab administered in monotherapy or in combination with methotrexate (MTX) and/or other non-biological disease modifying antirheumatic drugs (DMARDs) using Clinical Disease Activity Index (CDAI) over time up to Week 24, including onset of action at Week 2.

Protection of trial subjects:

The study was conducted in accordance with the principles of the "Declaration of Helsinki" and Good Clinical Practice (GCP). Approval from the Independent Ethics Committee/Institutional Review Board (IEC/IRB) was obtained before study start and was documented in a letter to the Investigator specifying the date on which the committee met and granted the approval. The Sponsor also obtained approval from the relevant Competent Authority prior to starting the study.

Background therapy: -

Evidence for comparator: -

|                                                           |                   |
|-----------------------------------------------------------|-------------------|
| Actual start date of recruitment                          | 05 September 2013 |
| Long term follow-up planned                               | No                |
| Independent data monitoring committee (IDMC) involvement? | No                |

Notes:

## Population of trial subjects

### Subjects enrolled per country

|                                      |            |
|--------------------------------------|------------|
| Country: Number of subjects enrolled | Italy: 227 |
| Worldwide total number of subjects   | 227        |
| EEA total number of subjects         | 227        |

Notes:

### Subjects enrolled per age group

|                                           |     |
|-------------------------------------------|-----|
| In utero                                  | 0   |
| Preterm newborn - gestational age < 37 wk | 0   |
| Newborns (0-27 days)                      | 0   |
| Infants and toddlers (28 days-23 months)  | 0   |
| Children (2-11 years)                     | 0   |
| Adolescents (12-17 years)                 | 0   |
| Adults (18-64 years)                      | 177 |
| From 65 to 84 years                       | 49  |

|                   |   |
|-------------------|---|
| 85 years and over | 1 |
|-------------------|---|

## Subject disposition

### Recruitment

Recruitment details: -

### Pre-assignment

Screening details:

Out of a total of 288 participants screened, 60 participants were excluded due to screening failure and 1 participant did not receive study treatment based on investigator's decision. Thus, total 227 participants were included in the study.

### Period 1

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

### Arms

|           |             |
|-----------|-------------|
| Arm title | Tocilizumab |
|-----------|-------------|

Arm description:

Tocilizumab at a fixed dose of 162 milligrams (mg) was administered as SC injection alone or along with methotrexate and/or other non-biological DMARDs irrespective of body weight, once every week for a total of 52 weeks. After 52-weeks of treatment, at the discretion of the treating physician, participants could continue the study treatment with SC tocilizumab until it became commercially available in Italy (maximum up to 2 years and 10 months).

|                                        |                        |
|----------------------------------------|------------------------|
| Arm type                               | Experimental           |
| Investigational medicinal product name | Tocilizumab            |
| Investigational medicinal product code |                        |
| Other name                             | RoActemra              |
| Pharmaceutical forms                   | Solution for injection |
| Routes of administration               | Subcutaneous use       |

Dosage and administration details:

Tocilizumab at a fixed dose of 162 mg as SC injection was administered once every week.

| Number of subjects in period 1 | Tocilizumab |
|--------------------------------|-------------|
| Started                        | 227         |
| Completed                      | 177         |
| Not completed                  | 50          |
| Physician decision             | 8           |
| Consent withdrawn by subject   | 15          |
| Adverse Event                  | 19          |
| Protocol Violation             | 1           |
| Unspecified                    | 6           |
| Lost to follow-up              | 1           |



## Baseline characteristics

### Reporting groups

|                       |               |
|-----------------------|---------------|
| Reporting group title | Overall Study |
|-----------------------|---------------|

Reporting group description: -

| Reporting group values                                                  | Overall Study   | Total |  |
|-------------------------------------------------------------------------|-----------------|-------|--|
| Number of subjects                                                      | 227             | 227   |  |
| Age categorical<br>Units: Subjects                                      |                 |       |  |
| Age continuous<br>Units: years<br>arithmetic mean<br>standard deviation | 54.7<br>± 12.12 | -     |  |
| Gender categorical<br>Units: Subjects                                   |                 |       |  |
| Female                                                                  | 197             | 197   |  |
| Male                                                                    | 30              | 30    |  |

## End points

### End points reporting groups

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |             |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| Reporting group title                                                                                                                                                                                                                                                                                                                                                                                                                                              | Tocilizumab |
| Reporting group description:                                                                                                                                                                                                                                                                                                                                                                                                                                       |             |
| Tocilizumab at a fixed dose of 162 milligrams (mg) was administered as SC injection alone or along with methotrexate and/or other non-biological DMARDs irrespective of body weight, once every week for a total of 52 weeks. After 52-weeks of treatment, at the discretion of the treating physician, participants could continue the study treatment with SC tocilizumab until it became commercially available in Italy (maximum up to 2 years and 10 months). |             |

### Primary: Change From Baseline in Clinical Disease Activity Index (CDAI) at Week 24

|                 |                                                                                          |
|-----------------|------------------------------------------------------------------------------------------|
| End point title | Change From Baseline in Clinical Disease Activity Index (CDAI) at Week 24 <sup>[1]</sup> |
|-----------------|------------------------------------------------------------------------------------------|

End point description:

The CDAI is the numerical sum of 4 outcome parameters: tender joint count (TJC) and swollen joint count (SJC) based on a 28-joint assessment, patient's global assessment of disease activity (PtGDA) and physician global assessment of disease activity (PGDA) assessed on 0-10 centimeter (cm) visual analogue scale (VAS). Higher scores represent greater affection due to disease activity. CDAI total score = 0-76. CDAI score less than or equal to ( $\leq$ ) 2.8 indicates disease remission, greater than ( $>$ ) 2.8 to 10 indicates low disease activity,  $>10$  to 22 indicates moderate disease activity, and  $>22$  indicates high disease activity. Full Analysis Set (FAS) included all recruited participants who received at least one dose of SC tocilizumab. Here, number of subjects analysed indicates participants who were evaluable for this outcome.

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

End point timeframe:

Baseline, Week 24

Notes:

[1] - No statistical analyses have been specified for this primary end point. It is expected there is at least one statistical analysis for each primary end point.

Justification: Due to EudraCT limitations it is not possible to add statistical analysis in a single arm study.

|                                      |                      |  |  |  |
|--------------------------------------|----------------------|--|--|--|
| <b>End point values</b>              | Tocilizumab          |  |  |  |
| Subject group type                   | Reporting group      |  |  |  |
| Number of subjects analysed          | 183                  |  |  |  |
| Units: units on a scale              |                      |  |  |  |
| arithmetic mean (standard deviation) | -21.6 ( $\pm$ 13.25) |  |  |  |

### Statistical analyses

No statistical analyses for this end point

### Primary: Change From Baseline in CDAI at Week 20

|                 |                                                        |
|-----------------|--------------------------------------------------------|
| End point title | Change From Baseline in CDAI at Week 20 <sup>[2]</sup> |
|-----------------|--------------------------------------------------------|

End point description:

The CDAI is the numerical sum of 4 outcome parameters: TJC and SJC based on a 28-joint assessment, PtGDA and PGDA assessed on 0-10 cm VAS. Higher scores represent greater affection due to disease activity. CDAI total score = 0-76. CDAI score  $\leq 2.8$  indicates disease remission,  $>2.8$  to 10 indicates low disease activity,  $>10$  to 22 indicates moderate disease activity, and  $>22$  indicates high disease

activity. FAS; Here, number of subjects analysed indicates participants who were evaluable for this outcome.

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

End point timeframe:

Baseline, Week 20

Notes:

[2] - No statistical analyses have been specified for this primary end point. It is expected there is at least one statistical analysis for each primary end point.

Justification: Results were reported descriptively and were not planned to be analyzed for statistically significant differences.

|                                      |                 |  |  |  |
|--------------------------------------|-----------------|--|--|--|
| <b>End point values</b>              | Tocilizumab     |  |  |  |
| Subject group type                   | Reporting group |  |  |  |
| Number of subjects analysed          | 185             |  |  |  |
| Units: units on a scale              |                 |  |  |  |
| arithmetic mean (standard deviation) | -21.3 (± 12.87) |  |  |  |

## Statistical analyses

No statistical analyses for this end point

## Primary: Change From Baseline in CDAI at Week 16

|                 |                                                        |
|-----------------|--------------------------------------------------------|
| End point title | Change From Baseline in CDAI at Week 16 <sup>[3]</sup> |
|-----------------|--------------------------------------------------------|

End point description:

The CDAI is the numerical sum of 4 outcome parameters: TJC and SJC based on a 28-joint assessment, PtGDA and PGDA assessed on 0-10 cm VAS. Higher scores represent greater affection due to disease activity. CDAI total score = 0-76. CDAI score  $\leq 2.8$  indicates disease remission,  $>2.8$  to 10 indicates low disease activity,  $>10$  to 22 indicates moderate disease activity, and  $>22$  indicates high disease activity. FAS; Here, number of subjects analysed indicates participants who were evaluable for this outcome.

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

End point timeframe:

Baseline, Week 16

Notes:

[3] - No statistical analyses have been specified for this primary end point. It is expected there is at least one statistical analysis for each primary end point.

Justification: Results were reported descriptively and were not planned to be analyzed for statistically significant differences.

|                                      |                 |  |  |  |
|--------------------------------------|-----------------|--|--|--|
| <b>End point values</b>              | Tocilizumab     |  |  |  |
| Subject group type                   | Reporting group |  |  |  |
| Number of subjects analysed          | 190             |  |  |  |
| Units: units on a scale              |                 |  |  |  |
| arithmetic mean (standard deviation) | -20.2 (± 12.55) |  |  |  |

## Statistical analyses



No statistical analyses for this end point

### Primary: Change From Baseline in CDAI at Week 12

|                 |                                                        |
|-----------------|--------------------------------------------------------|
| End point title | Change From Baseline in CDAI at Week 12 <sup>[4]</sup> |
|-----------------|--------------------------------------------------------|

End point description:

The CDAI is the numerical sum of 4 outcome parameters: TJC and SJC based on a 28-joint assessment, PtGDA and PGDA assessed on 0-10 cm VAS. Higher scores represent greater affection due to disease activity. CDAI total score = 0-76. CDAI score  $\leq 2.8$  indicates disease remission,  $>2.8$  to 10 indicates low disease activity,  $>10$  to 22 indicates moderate disease activity, and  $>22$  indicates high disease activity. FAS; Here, number of subjects analysed indicates participants who were evaluable for this outcome.

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

End point timeframe:

Baseline, Week 12

Notes:

[4] - No statistical analyses have been specified for this primary end point. It is expected there is at least one statistical analysis for each primary end point.

Justification: Results were reported descriptively and were not planned to be analyzed for statistically significant differences.

| End point values                     | Tocilizumab          |  |  |  |
|--------------------------------------|----------------------|--|--|--|
| Subject group type                   | Reporting group      |  |  |  |
| Number of subjects analysed          | 198                  |  |  |  |
| Units: units on a scale              |                      |  |  |  |
| arithmetic mean (standard deviation) | -19.1 ( $\pm$ 12.46) |  |  |  |

### Statistical analyses

No statistical analyses for this end point

### Primary: Change From Baseline in CDAI at Week 8

|                 |                                                       |
|-----------------|-------------------------------------------------------|
| End point title | Change From Baseline in CDAI at Week 8 <sup>[5]</sup> |
|-----------------|-------------------------------------------------------|

End point description:

The CDAI is the numerical sum of 4 outcome parameters: TJC and SJC based on a 28-joint assessment, PtGDA and PGDA assessed on 0-10 cm VAS. Higher scores represent greater affection due to disease activity. CDAI total score = 0-76. CDAI score  $\leq 2.8$  indicates disease remission,  $>2.8$  to 10 indicates low disease activity,  $>10$  to 22 indicates moderate disease activity, and  $>22$  indicates high disease activity. FAS; Here, number of subjects analysed indicates participants who were evaluable for this outcome.

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

End point timeframe:

Baseline, Week 8

Notes:

[5] - No statistical analyses have been specified for this primary end point. It is expected there is at least one statistical analysis for each primary end point.

Justification: Results were reported descriptively and were not planned to be analyzed for statistically significant differences.

|                                      |                      |  |  |  |
|--------------------------------------|----------------------|--|--|--|
| <b>End point values</b>              | Tocilizumab          |  |  |  |
| Subject group type                   | Reporting group      |  |  |  |
| Number of subjects analysed          | 203                  |  |  |  |
| Units: units on a scale              |                      |  |  |  |
| arithmetic mean (standard deviation) | -17.7 ( $\pm$ 12.07) |  |  |  |

## Statistical analyses

No statistical analyses for this end point

### Primary: Change From Baseline in CDAI at Week 4

|                 |                                                       |
|-----------------|-------------------------------------------------------|
| End point title | Change From Baseline in CDAI at Week 4 <sup>[6]</sup> |
|-----------------|-------------------------------------------------------|

End point description:

The CDAI is the numerical sum of 4 outcome parameters: TJC and SJC based on a 28-joint assessment, PtGDA and PGDA assessed on 0-10 cm VAS. Higher scores represent greater affection due to disease activity. CDAI total score = 0-76. CDAI score  $\leq$  2.8 indicates disease remission, >2.8 to 10 indicates low disease activity, >10 to 22 indicates moderate disease activity, and >22 indicates high disease activity. FAS; Here, number of subjects analysed indicates participants who were evaluable for this outcome.

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

End point timeframe:

Baseline, Week 4

Notes:

[6] - No statistical analyses have been specified for this primary end point. It is expected there is at least one statistical analysis for each primary end point.

Justification: Results were reported descriptively and were not planned to be analyzed for statistically significant differences.

|                                      |                    |  |  |  |
|--------------------------------------|--------------------|--|--|--|
| <b>End point values</b>              | Tocilizumab        |  |  |  |
| Subject group type                   | Reporting group    |  |  |  |
| Number of subjects analysed          | 212                |  |  |  |
| Units: units on a scale              |                    |  |  |  |
| arithmetic mean (standard deviation) | -14 ( $\pm$ 11.57) |  |  |  |

## Statistical analyses

No statistical analyses for this end point

### Primary: Change From Baseline in CDAI at Week 2

|                 |                                                       |
|-----------------|-------------------------------------------------------|
| End point title | Change From Baseline in CDAI at Week 2 <sup>[7]</sup> |
|-----------------|-------------------------------------------------------|

End point description:

The CDAI is the numerical sum of 4 outcome parameters: TJC and SJC based on a 28-joint assessment, PtGDA and PGDA assessed on 0-10 cm VAS. Higher scores represent greater affection due to disease activity. CDAI total score = 0-76. CDAI score  $\leq$  2.8 indicates disease remission, >2.8 to 10 indicates low disease activity, >10 to 22 indicates moderate disease activity, and >22 indicates high disease activity. FAS; Here, number of subjects analysed indicates participants who were evaluable for this outcome.

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

End point timeframe:

Baseline, Week 2

Notes:

[7] - No statistical analyses have been specified for this primary end point. It is expected there is at least one statistical analysis for each primary end point.

Justification: Due to EudraCT limitations it is not possible to add statistical analysis in a single arm study.

|                                      |                 |  |  |  |
|--------------------------------------|-----------------|--|--|--|
| <b>End point values</b>              | Tocilizumab     |  |  |  |
| Subject group type                   | Reporting group |  |  |  |
| Number of subjects analysed          | 218             |  |  |  |
| Units: units on a scale              |                 |  |  |  |
| arithmetic mean (standard deviation) | -9.1 (± 9.71)   |  |  |  |

### Statistical analyses

No statistical analyses for this end point

### Secondary: Percentage of Participants Achieving Clinical Remission According to CDAI at Week 52

|                 |                                                                                      |
|-----------------|--------------------------------------------------------------------------------------|
| End point title | Percentage of Participants Achieving Clinical Remission According to CDAI at Week 52 |
|-----------------|--------------------------------------------------------------------------------------|

End point description:

The CDAI is the numerical sum of 4 outcome parameters: TJC and SJC based on a 28-joint assessment, PtGDA and PGDA assessed on 0-10 cm VAS. Higher scores represent greater affection due to disease activity. CDAI total score = 0-76. CDAI score  $\leq 2.8$  indicates disease remission.

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

End point timeframe:

Week 52

|                                   |                  |  |  |  |
|-----------------------------------|------------------|--|--|--|
| <b>End point values</b>           | Tocilizumab      |  |  |  |
| Subject group type                | Reporting group  |  |  |  |
| Number of subjects analysed       | 0 <sup>[8]</sup> |  |  |  |
| Units: percentage of participants |                  |  |  |  |
| number (not applicable)           |                  |  |  |  |

Notes:

[8] - Outcome Measure Data Not Reported

### Statistical analyses

No statistical analyses for this end point

### Secondary: Change From Baseline in Disease Activity Score Based on 28-Joints Count and Erythrocyte Sedimentation Rate (DAS28-ESR) at Weeks 2, 24, and 52

|                 |                                                                                                                                               |
|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| End point title | Change From Baseline in Disease Activity Score Based on 28-Joints Count and Erythrocyte Sedimentation Rate (DAS28-ESR) at Weeks 2, 24, and 52 |
|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------|

End point description:

DAS28-ESR is calculated from the TJC and SJC based on a 28-joint assessment, the erythrocyte sedimentation rate (ESR) in millimeters per hour (mm/hour) and PtGDA assessed on 0-10 cm VAS. Higher scores indicate greater affection due to disease activity. DAS28-ESR total score= 0-9.4. DAS28-ESR  $\leq 3.2$  indicates low disease activity, DAS28-ESR  $>3.2$  to 5.1 indicates moderate to high disease activity, and DAS28-ESR  $\leq 3.2$  indicates remission.

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

End point timeframe:

Baseline, Weeks 2, 24, and 52

| End point values                     | Tocilizumab      |  |  |  |
|--------------------------------------|------------------|--|--|--|
| Subject group type                   | Reporting group  |  |  |  |
| Number of subjects analysed          | 0 <sup>[9]</sup> |  |  |  |
| Units: units on a scale              |                  |  |  |  |
| arithmetic mean (standard deviation) | ( )              |  |  |  |

Notes:

[9] - Outcome Measure Data Not Reported

## Statistical analyses

No statistical analyses for this end point

## Secondary: Change From Baseline in Simplified Disease Activity Index (SDAI) at Weeks 2, 24, and 52

|                 |                                                                                         |
|-----------------|-----------------------------------------------------------------------------------------|
| End point title | Change From Baseline in Simplified Disease Activity Index (SDAI) at Weeks 2, 24, and 52 |
|-----------------|-----------------------------------------------------------------------------------------|

End point description:

SDAI is a numerical sum of five outcome parameters: TJC and SJC based on a 28-joint assessment, PtGDA and PGDA assessed on 0-10 cm VAS and C-reactive protein (CRP) in milligrams per deciliter (mg/dL). Higher scores indicate greater affection due to disease activity. SDAI total score = 0-86. SDAI  $\leq 3.3$  indicates disease remission,  $>3.4$  to 11 indicates low disease activity,  $>11$  to 26 indicates moderate disease activity, and  $>26$  indicates high disease activity.

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

End point timeframe:

Baseline, Weeks 2, 24, and 52

| End point values                     | Tocilizumab       |  |  |  |
|--------------------------------------|-------------------|--|--|--|
| Subject group type                   | Reporting group   |  |  |  |
| Number of subjects analysed          | 0 <sup>[10]</sup> |  |  |  |
| Units: units on a scale              |                   |  |  |  |
| arithmetic mean (standard deviation) | ( )               |  |  |  |

Notes:

[10] - Outcome Measure Data Not Reported

## Statistical analyses

No statistical analyses for this end point

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**Secondary: Percentage of Participants With an American College of Rheumatology 20% (ACR20), 50% (ACR50), and 70% (ACR70) Response**

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|                 |                                                                                                                        |
|-----------------|------------------------------------------------------------------------------------------------------------------------|
| End point title | Percentage of Participants With an American College of Rheumatology 20% (ACR20), 50% (ACR50), and 70% (ACR70) Response |
|-----------------|------------------------------------------------------------------------------------------------------------------------|

End point description:

The ACR 20, 50, and 70 responses: greater than or equal to ( $\geq$ ) 20 percent (%), 50%, and 70% improvement in TJC and SJC, and 20%, 50%, 70% improvement in 3 of the following 5 criteria, respectively: 1) PGDA, 2) PtGDA, 3) participant's assessment of pain, 4) participant's assessment of functional disability via a health assessment questionnaire, and 5) CRP or ESR at each visit.

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

End point timeframe:

Weeks 2, 24, and 52

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|                                   |                   |  |  |  |
|-----------------------------------|-------------------|--|--|--|
| <b>End point values</b>           | Tocilizumab       |  |  |  |
| Subject group type                | Reporting group   |  |  |  |
| Number of subjects analysed       | 0 <sup>[11]</sup> |  |  |  |
| Units: percentage of participants |                   |  |  |  |
| number (not applicable)           |                   |  |  |  |

Notes:

[11] - Outcome Measure Data Not Reported

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**Statistical analyses**

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No statistical analyses for this end point

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**Secondary: Percentage of Participants With European League Against Rheumatism (EULAR) Response Based on DAS28**

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|                 |                                                                                                    |
|-----------------|----------------------------------------------------------------------------------------------------|
| End point title | Percentage of Participants With European League Against Rheumatism (EULAR) Response Based on DAS28 |
|-----------------|----------------------------------------------------------------------------------------------------|

End point description:

The DAS-28-based EULAR response criteria were used to measure individual response as none, good, and moderate, depending on the extent of change from baseline and the level of disease activity reached. Good responders: change from baseline  $>1.2$  with DAS28  $\leq 3.2$ ; moderate responders: change from baseline  $>1.2$  with DAS28  $>3.2$  to  $\leq 5.1$  or change from baseline  $>0.6$  to  $\leq 1.2$  with DAS28  $\leq 5.1$ ; non-responders: change from baseline  $\leq 0.6$  or change from baseline  $>0.6$  and  $\leq 1.2$  with DAS28  $>5.1$ .

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

End point timeframe:

Weeks 2, 24, and 52

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|                                   |                   |  |  |  |
|-----------------------------------|-------------------|--|--|--|
| <b>End point values</b>           | Tocilizumab       |  |  |  |
| Subject group type                | Reporting group   |  |  |  |
| Number of subjects analysed       | 0 <sup>[12]</sup> |  |  |  |
| Units: percentage of participants |                   |  |  |  |
| number (not applicable)           |                   |  |  |  |

Notes:

[12] - Outcome Measure Data Not Reported

## Statistical analyses

No statistical analyses for this end point

### Secondary: Change From Baseline in TJC at Weeks 2, 24, and 52

|                        |                                                                                       |
|------------------------|---------------------------------------------------------------------------------------|
| End point title        | Change From Baseline in TJC at Weeks 2, 24, and 52                                    |
| End point description: | TJC was defined as the total number of painful joints based on a 28-joint assessment. |
| End point type         | Secondary                                                                             |
| End point timeframe:   | Baseline, Weeks 2, 24, and 52                                                         |

|                                      |                   |  |  |  |
|--------------------------------------|-------------------|--|--|--|
| <b>End point values</b>              | Tocilizumab       |  |  |  |
| Subject group type                   | Reporting group   |  |  |  |
| Number of subjects analysed          | 0 <sup>[13]</sup> |  |  |  |
| Units: joints                        |                   |  |  |  |
| arithmetic mean (standard deviation) | ( )               |  |  |  |

Notes:

[13] - Outcome Measure Data Not Reported

## Statistical analyses

No statistical analyses for this end point

### Secondary: Change From Baseline in Total SJC at Weeks 2, 24, and 52

|                        |                                                                                       |
|------------------------|---------------------------------------------------------------------------------------|
| End point title        | Change From Baseline in Total SJC at Weeks 2, 24, and 52                              |
| End point description: | SJC was defined as the total number of swollen joints based on a 28-joint assessment. |
| End point type         | Secondary                                                                             |
| End point timeframe:   | Baseline, Weeks 2, 24, and 52                                                         |

|                                      |                   |  |  |  |
|--------------------------------------|-------------------|--|--|--|
| <b>End point values</b>              | Tocilizumab       |  |  |  |
| Subject group type                   | Reporting group   |  |  |  |
| Number of subjects analysed          | 0 <sup>[14]</sup> |  |  |  |
| Units: joints                        |                   |  |  |  |
| arithmetic mean (standard deviation) | ()                |  |  |  |

Notes:

[14] - Outcome Measure Data Not Reported

### Statistical analyses

No statistical analyses for this end point

### Secondary: Percentage of Participants With Reasons for DMARDs Dose Reductions and/or Discontinuation

|                 |                                                                                           |
|-----------------|-------------------------------------------------------------------------------------------|
| End point title | Percentage of Participants With Reasons for DMARDs Dose Reductions and/or Discontinuation |
|-----------------|-------------------------------------------------------------------------------------------|

End point description:

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

End point timeframe:

Baseline up to Week 52

|                                   |                   |  |  |  |
|-----------------------------------|-------------------|--|--|--|
| <b>End point values</b>           | Tocilizumab       |  |  |  |
| Subject group type                | Reporting group   |  |  |  |
| Number of subjects analysed       | 0 <sup>[15]</sup> |  |  |  |
| Units: percentage of participants |                   |  |  |  |
| number (not applicable)           |                   |  |  |  |

Notes:

[15] - Outcome Measure Data Not Reported

### Statistical analyses

No statistical analyses for this end point

### Secondary: Percentage of Participants With Reasons for Non-DMARDs Dose Reductions and/or Discontinuation

|                 |                                                                                               |
|-----------------|-----------------------------------------------------------------------------------------------|
| End point title | Percentage of Participants With Reasons for Non-DMARDs Dose Reductions and/or Discontinuation |
|-----------------|-----------------------------------------------------------------------------------------------|

End point description:

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

End point timeframe:

Baseline up to Week 52

| End point values                  | Tocilizumab       |  |  |  |
|-----------------------------------|-------------------|--|--|--|
| Subject group type                | Reporting group   |  |  |  |
| Number of subjects analysed       | 0 <sup>[16]</sup> |  |  |  |
| Units: percentage of participants |                   |  |  |  |
| number (not applicable)           |                   |  |  |  |

Notes:

[16] - Outcome Measure Data Not Reported

## Statistical analyses

No statistical analyses for this end point

### Secondary: Change From Baseline in PtGDA VAS Score at Weeks 2, 24, and 52

|                 |                                                                |
|-----------------|----------------------------------------------------------------|
| End point title | Change From Baseline in PtGDA VAS Score at Weeks 2, 24, and 52 |
|-----------------|----------------------------------------------------------------|

End point description:

Participants answered: "Considering all the ways your arthritis affects you, how are you feeling today?"  
Participants responded by using a 0 - 100 millimeter (mm) VAS, where 0 mm = very well and 100 mm = very poorly.

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

End point timeframe:

Baseline, Weeks 2, 24, and 52

| End point values                     | Tocilizumab       |  |  |  |
|--------------------------------------|-------------------|--|--|--|
| Subject group type                   | Reporting group   |  |  |  |
| Number of subjects analysed          | 0 <sup>[17]</sup> |  |  |  |
| Units: units on a scale              |                   |  |  |  |
| arithmetic mean (standard deviation) | ( )               |  |  |  |

Notes:

[17] - Outcome Measure Data Not Reported

## Statistical analyses

No statistical analyses for this end point

### Secondary: Change From Baseline in PGDA VAS Score at Weeks 2, 24, and 52

|                 |                                                               |
|-----------------|---------------------------------------------------------------|
| End point title | Change From Baseline in PGDA VAS Score at Weeks 2, 24, and 52 |
|-----------------|---------------------------------------------------------------|

End point description:

The physician assessed participant's current disease activity on a 0-100 mm VAS, where 0 mm = no disease activity and 100 mm = maximum disease activity.

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

End point timeframe:

Baseline, Weeks 2, 24, and 52



|                                      |                   |  |  |  |
|--------------------------------------|-------------------|--|--|--|
| <b>End point values</b>              | Tocilizumab       |  |  |  |
| Subject group type                   | Reporting group   |  |  |  |
| Number of subjects analysed          | 0 <sup>[18]</sup> |  |  |  |
| Units: units on a scale              |                   |  |  |  |
| arithmetic mean (standard deviation) | ( )               |  |  |  |

Notes:

[18] - Outcome Measure Data Not Reported

## Statistical analyses

No statistical analyses for this end point

### Secondary: Participant Pain VAS Score at Weeks 2, 24, and 52

|                                                                                                                                             |                                                   |
|---------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|
| End point title                                                                                                                             | Participant Pain VAS Score at Weeks 2, 24, and 52 |
| End point description:                                                                                                                      |                                                   |
| Participant's assessed pain using a 0-100 mm VAS. Intensity of pain range (over past week): 0 mm = no pain to 100 mm = worst possible pain. |                                                   |
| End point type                                                                                                                              | Secondary                                         |
| End point timeframe:                                                                                                                        |                                                   |
| Weeks 2, 24, and 52                                                                                                                         |                                                   |

|                                      |                   |  |  |  |
|--------------------------------------|-------------------|--|--|--|
| <b>End point values</b>              | Tocilizumab       |  |  |  |
| Subject group type                   | Reporting group   |  |  |  |
| Number of subjects analysed          | 0 <sup>[19]</sup> |  |  |  |
| Units: units on a scale              |                   |  |  |  |
| arithmetic mean (standard deviation) | ( )               |  |  |  |

Notes:

[19] - Outcome Measure Data Not Reported

## Statistical analyses

No statistical analyses for this end point

### Secondary: Change From Baseline in Health Assessment Questionnaire-Disability Index (HAQ-DI) Score at Weeks 24 and 52

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                            |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|
| End point title                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Change From Baseline in Health Assessment Questionnaire-Disability Index (HAQ-DI) Score at Weeks 24 and 52 |
| End point description:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                            |
| HAQ-DI is a participant-reported assessment of ability to perform tasks in 8 categories of daily living activities: dress/groom; arise; eat; walk; reach; grip; hygiene; and common activities over past week. Each item scored on 4-point scale from 0 to 3: 0=no difficulty; 1=some difficulty; 2=much difficulty; 3=unable to do. Overall score was computed as the sum of domain scores and divided by the number of domains answered. Total possible score range 0-3 where 0 = least difficulty and 3 = extreme difficulty. |                                                                                                            |
| End point type                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Secondary                                                                                                  |
| End point timeframe:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                            |
| Baseline, Weeks 24 and 52                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                            |

|                                      |                   |  |  |  |
|--------------------------------------|-------------------|--|--|--|
| <b>End point values</b>              | Tocilizumab       |  |  |  |
| Subject group type                   | Reporting group   |  |  |  |
| Number of subjects analysed          | 0 <sup>[20]</sup> |  |  |  |
| Units: units on a scale              |                   |  |  |  |
| arithmetic mean (standard deviation) | ( )               |  |  |  |

Notes:

[20] - Outcome Measure Data Not Reported

### Statistical analyses

No statistical analyses for this end point

### Secondary: Short Form-Health and Labor Questionnaire (SF-HLQ) Score at Weeks 24 and 52

|                 |                                                                             |
|-----------------|-----------------------------------------------------------------------------|
| End point title | Short Form-Health and Labor Questionnaire (SF-HLQ) Score at Weeks 24 and 52 |
|-----------------|-----------------------------------------------------------------------------|

End point description:

The SF-HLQ assessed productivity losses related to health problems in individuals with paid or unpaid work and consists of three modules (absenteeism from paid work, production losses without absenteeism from paid work and hindrance in the performance of paid and unpaid work). Any missed working days or number of worked days with reduced efficiency during the last month was reported.

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

End point timeframe:

Weeks 24 and 52

|                                      |                   |  |  |  |
|--------------------------------------|-------------------|--|--|--|
| <b>End point values</b>              | Tocilizumab       |  |  |  |
| Subject group type                   | Reporting group   |  |  |  |
| Number of subjects analysed          | 0 <sup>[21]</sup> |  |  |  |
| Units: units on a scale              |                   |  |  |  |
| arithmetic mean (standard deviation) | ( )               |  |  |  |

Notes:

[21] - Outcome Measure Data Not Reported

### Statistical analyses

No statistical analyses for this end point

### Secondary: Change From Baseline in Functional Assessment of Chronic Illness Therapy - Fatigue (FACIT-F) Total Score at Weeks 24 and 52

|                 |                                                                                                                             |
|-----------------|-----------------------------------------------------------------------------------------------------------------------------|
| End point title | Change From Baseline in Functional Assessment of Chronic Illness Therapy - Fatigue (FACIT-F) Total Score at Weeks 24 and 52 |
|-----------------|-----------------------------------------------------------------------------------------------------------------------------|

End point description:

The FACIT-F score was calculated according to a 13-item questionnaire that assesses self-reported fatigue and its impact upon daily activities and function. FACIT-F is a 13-item questionnaire. Participants scored each item on a 5-point scale: 0 (Not at all) to 4 (Very much). The larger the participant's

response to the questions (with the exception of 2 negatively stated), the greater the participants fatigue. For all questions, except for the 2 negatively stated ones, the code was reversed and a new score was calculated as (4 minus the participant's response). The sum of all responses resulted in the FACIT-Fatigue score for a total possible score of 0 (worse score) to 52 (better score).

|                            |           |
|----------------------------|-----------|
| End point type             | Secondary |
| End point timeframe:       |           |
| Baseline, Weeks 24, and 52 |           |

|                                      |                   |  |  |  |
|--------------------------------------|-------------------|--|--|--|
| <b>End point values</b>              | Tocilizumab       |  |  |  |
| Subject group type                   | Reporting group   |  |  |  |
| Number of subjects analysed          | 0 <sup>[22]</sup> |  |  |  |
| Units: units on a scale              |                   |  |  |  |
| arithmetic mean (standard deviation) | ( )               |  |  |  |

Notes:

[22] - Outcome Measure Data Not Reported

### Statistical analyses

No statistical analyses for this end point

### Secondary: Change From Baseline in Pittsburgh Sleep Quality Index (PSQI) at Weeks 24 and 52

|                 |                                                                                  |
|-----------------|----------------------------------------------------------------------------------|
| End point title | Change From Baseline in Pittsburgh Sleep Quality Index (PSQI) at Weeks 24 and 52 |
|-----------------|----------------------------------------------------------------------------------|

End point description:

PSQI is a questionnaire with 18 questions to assess sleep quality. The 18 questions are distributed to 7 elements (subjective sleep quality, sleep latency, sleep duration, habitual sleep efficiency, sleep disturbances, use of sleeping medication, and daytime dysfunction). A participant indicates how frequently each item was experienced on a scale from 0 to 3. The global score is the sum score of all 7 elements and ranges from 0-21 with higher values indicating worse sleep quality. A score of  $\geq 5$  indicates poor sleepers.

|                           |           |
|---------------------------|-----------|
| End point type            | Secondary |
| End point timeframe:      |           |
| Baseline, Weeks 24 and 52 |           |

|                                      |                   |  |  |  |
|--------------------------------------|-------------------|--|--|--|
| <b>End point values</b>              | Tocilizumab       |  |  |  |
| Subject group type                   | Reporting group   |  |  |  |
| Number of subjects analysed          | 0 <sup>[23]</sup> |  |  |  |
| Units: units on a scale              |                   |  |  |  |
| arithmetic mean (standard deviation) | ( )               |  |  |  |

Notes:

[23] - Outcome Measure Data Not Reported

### Statistical analyses

No statistical analyses for this end point

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**Secondary: Percentage of Participants Who Were Treatment Compliant, as Assessed Using Participant Diary Cards and Return Records**

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|                 |                                                                                                                       |
|-----------------|-----------------------------------------------------------------------------------------------------------------------|
| End point title | Percentage of Participants Who Were Treatment Compliant, as Assessed Using Participant Diary Cards and Return Records |
|-----------------|-----------------------------------------------------------------------------------------------------------------------|

End point description:

---

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

---

End point timeframe:

Weeks 24 and 52

---

|                                   |                   |  |  |  |
|-----------------------------------|-------------------|--|--|--|
| <b>End point values</b>           | Tocilizumab       |  |  |  |
| Subject group type                | Reporting group   |  |  |  |
| Number of subjects analysed       | 0 <sup>[24]</sup> |  |  |  |
| Units: percentage of participants |                   |  |  |  |
| number (not applicable)           |                   |  |  |  |

Notes:

[24] - Outcome Measure Data Not Reported

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**Statistical analyses**

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No statistical analyses for this end point

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**Secondary: Percentage of Participants With Anti-drug Antibodies (ADA) to Tocilizumab**

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|                 |                                                                           |
|-----------------|---------------------------------------------------------------------------|
| End point title | Percentage of Participants With Anti-drug Antibodies (ADA) to Tocilizumab |
|-----------------|---------------------------------------------------------------------------|

End point description:

---

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

---

End point timeframe:

Baseline, Weeks 12, 24, 38, 52, and at 8 weeks after last dose (up to Week 60)

---

|                                   |                   |  |  |  |
|-----------------------------------|-------------------|--|--|--|
| <b>End point values</b>           | Tocilizumab       |  |  |  |
| Subject group type                | Reporting group   |  |  |  |
| Number of subjects analysed       | 0 <sup>[25]</sup> |  |  |  |
| Units: percentage of participants |                   |  |  |  |
| number (not applicable)           |                   |  |  |  |

Notes:

[25] - Outcome Measure Data Not Reported

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**Statistical analyses**

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No statistical analyses for this end point

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**Secondary: Mean Tocilizumab Concentration**

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|                                                                                |                                |
|--------------------------------------------------------------------------------|--------------------------------|
| End point title                                                                | Mean Tocilizumab Concentration |
| End point description:                                                         |                                |
| End point type                                                                 | Secondary                      |
| End point timeframe:                                                           |                                |
| Baseline, Weeks 12, 24, 38, 52, and at 8 weeks after last dose (up to Week 60) |                                |

|                                         |                   |  |  |  |
|-----------------------------------------|-------------------|--|--|--|
| <b>End point values</b>                 | Tocilizumab       |  |  |  |
| Subject group type                      | Reporting group   |  |  |  |
| Number of subjects analysed             | 0 <sup>[26]</sup> |  |  |  |
| Units: nanograms per milliliter (ng/mL) |                   |  |  |  |
| arithmetic mean (standard deviation)    | ( )               |  |  |  |

Notes:

[26] - Outcome Measure Data Not Reported

### Statistical analyses

No statistical analyses for this end point

### Secondary: Mean Soluble Interleukin-6 Receptor (sIL-6R) Concentration

|                                                                                |                                                            |
|--------------------------------------------------------------------------------|------------------------------------------------------------|
| End point title                                                                | Mean Soluble Interleukin-6 Receptor (sIL-6R) Concentration |
| End point description:                                                         |                                                            |
| End point type                                                                 | Secondary                                                  |
| End point timeframe:                                                           |                                                            |
| Baseline, Weeks 12, 24, 38, 52, and at 8 weeks after last dose (up to Week 60) |                                                            |

|                                      |                   |  |  |  |
|--------------------------------------|-------------------|--|--|--|
| <b>End point values</b>              | Tocilizumab       |  |  |  |
| Subject group type                   | Reporting group   |  |  |  |
| Number of subjects analysed          | 0 <sup>[27]</sup> |  |  |  |
| Units: ng/mL                         |                   |  |  |  |
| arithmetic mean (standard deviation) | ( )               |  |  |  |

Notes:

[27] - Outcome Measure Data Not Reported

### Statistical analyses

No statistical analyses for this end point

## Adverse events

### Adverse events information

Timeframe for reporting adverse events:

Day 1 up to approximately 2 years

Adverse event reporting additional description:

Treatment-emergent adverse events (TEAEs) are adverse events occurring between first dose of study drug and up to 28 days after last dose that were absent before treatment or that worsened relative to pre-treatment state. FAS included all recruited participants who received at least one dose of SC tocilizumab.

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

### Dictionary used

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

|                    |      |
|--------------------|------|
| Dictionary version | 19.0 |
|--------------------|------|

### Reporting groups

|                       |             |
|-----------------------|-------------|
| Reporting group title | Tocilizumab |
|-----------------------|-------------|

Reporting group description:

Tocilizumab at a fixed dose of 162 mg was administered as SC injection alone or along with methotrexate and/or other non-biological DMARDs irrespective of body weight, once every week for a total of 52 weeks. After 52-weeks of treatment, at the discretion of the treating physician, participants could continue the study treatment with SC tocilizumab until it became commercially available in Italy (maximum up to 2 years and 10 months).

| Serious adverse events                            | Tocilizumab      |  |  |
|---------------------------------------------------|------------------|--|--|
| Total subjects affected by serious adverse events |                  |  |  |
| subjects affected / exposed                       | 12 / 227 (5.29%) |  |  |
| number of deaths (all causes)                     | 1                |  |  |
| number of deaths resulting from adverse events    |                  |  |  |
| Investigations                                    |                  |  |  |
| Carcinoembryonic antigen increased                |                  |  |  |
| subjects affected / exposed                       | 1 / 227 (0.44%)  |  |  |
| occurrences causally related to treatment / all   | 0 / 1            |  |  |
| deaths causally related to treatment / all        | 0 / 0            |  |  |
| Hepatic enzyme increased                          |                  |  |  |
| subjects affected / exposed                       | 1 / 227 (0.44%)  |  |  |
| occurrences causally related to treatment / all   | 1 / 1            |  |  |
| deaths causally related to treatment / all        | 0 / 0            |  |  |
| Injury, poisoning and procedural complications    |                  |  |  |
| Humerus fracture                                  |                  |  |  |

|                                                 |                 |  |  |
|-------------------------------------------------|-----------------|--|--|
| subjects affected / exposed                     | 1 / 227 (0.44%) |  |  |
| occurrences causally related to treatment / all | 0 / 1           |  |  |
| deaths causally related to treatment / all      | 0 / 0           |  |  |
| Wrist fracture                                  |                 |  |  |
| subjects affected / exposed                     | 1 / 227 (0.44%) |  |  |
| occurrences causally related to treatment / all | 0 / 1           |  |  |
| deaths causally related to treatment / all      | 0 / 0           |  |  |
| Vascular disorders                              |                 |  |  |
| Aneurysm                                        |                 |  |  |
| subjects affected / exposed                     | 1 / 227 (0.44%) |  |  |
| occurrences causally related to treatment / all | 0 / 1           |  |  |
| deaths causally related to treatment / all      | 0 / 0           |  |  |
| Cardiac disorders                               |                 |  |  |
| Stress cardiomyopathy                           |                 |  |  |
| subjects affected / exposed                     | 1 / 227 (0.44%) |  |  |
| occurrences causally related to treatment / all | 0 / 1           |  |  |
| deaths causally related to treatment / all      | 0 / 0           |  |  |
| Reproductive system and breast disorders        |                 |  |  |
| Ovarian cyst                                    |                 |  |  |
| subjects affected / exposed                     | 1 / 227 (0.44%) |  |  |
| occurrences causally related to treatment / all | 0 / 1           |  |  |
| deaths causally related to treatment / all      | 0 / 0           |  |  |
| Respiratory, thoracic and mediastinal disorders |                 |  |  |
| Pleurisy                                        |                 |  |  |
| subjects affected / exposed                     | 1 / 227 (0.44%) |  |  |
| occurrences causally related to treatment / all | 0 / 1           |  |  |
| deaths causally related to treatment / all      | 0 / 0           |  |  |
| Musculoskeletal and connective tissue disorders |                 |  |  |
| Intervertebral disc protrusion                  |                 |  |  |
| subjects affected / exposed                     | 1 / 227 (0.44%) |  |  |
| occurrences causally related to treatment / all | 0 / 1           |  |  |
| deaths causally related to treatment / all      | 0 / 0           |  |  |
| Infections and infestations                     |                 |  |  |

|                                                 |                 |  |  |
|-------------------------------------------------|-----------------|--|--|
| Pneumonia                                       |                 |  |  |
| subjects affected / exposed                     | 1 / 227 (0.44%) |  |  |
| occurrences causally related to treatment / all | 1 / 1           |  |  |
| deaths causally related to treatment / all      | 0 / 0           |  |  |
| Skin infection                                  |                 |  |  |
| subjects affected / exposed                     | 1 / 227 (0.44%) |  |  |
| occurrences causally related to treatment / all | 1 / 1           |  |  |
| deaths causally related to treatment / all      | 0 / 0           |  |  |
| Product issues                                  |                 |  |  |
| Device breakage                                 |                 |  |  |
| subjects affected / exposed                     | 1 / 227 (0.44%) |  |  |
| occurrences causally related to treatment / all | 0 / 1           |  |  |
| deaths causally related to treatment / all      | 0 / 0           |  |  |

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

| <b>Non-serious adverse events</b>                     | Tocilizumab       |  |  |
|-------------------------------------------------------|-------------------|--|--|
| Total subjects affected by non-serious adverse events |                   |  |  |
| subjects affected / exposed                           | 24 / 227 (10.57%) |  |  |
| Investigations                                        |                   |  |  |
| Transaminases increased                               |                   |  |  |
| subjects affected / exposed                           | 15 / 227 (6.61%)  |  |  |
| occurrences (all)                                     | 18                |  |  |
| Respiratory, thoracic and mediastinal disorders       |                   |  |  |
| Cough                                                 |                   |  |  |
| subjects affected / exposed                           | 16 / 227 (7.05%)  |  |  |
| occurrences (all)                                     | 18                |  |  |
| Infections and infestations                           |                   |  |  |
| Influenza                                             |                   |  |  |
| subjects affected / exposed                           | 24 / 227 (10.57%) |  |  |
| occurrences (all)                                     | 30                |  |  |



## More information

### Substantial protocol amendments (globally)

Were there any global substantial amendments to the protocol? Yes

| Date        | Amendment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 15 May 2014 | In the original protocol, on-site visits in the period from Week 24 to Week 52 were scheduled every 14 weeks (Week 24, Week 38, and Week 52). After Week 52, if participants continued the study treatment until tocilizumab became commercially available in Italy, on site assessments were expected every 3 months. During the above-mentioned study period, monthly telephone calls contacts were added to the schedule of assessments in order to collect details on any AE and changes in concomitant medications between an on-site visit and the next one. |

Notes:

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### Interruptions (globally)

Were there any global interruptions to the trial? No

### Limitations and caveats

Limitations of the trial such as small numbers of subjects analysed or technical problems leading to unreliable data.

The reported results include the results of primary analysis only.

Notes: