



## Clinical trial results:

### Evaluation of inflammatory and structural joint damage in patients with psoriasis and psoriatic arthritis treated with secukinumab: A phase 2, single arm, single centre mode of action study (Psoriasis-Arthritis & Bone Program, PSARTROS)

#### Summary

|                          |                   |
|--------------------------|-------------------|
| EudraCT number           | 2014-004798-17    |
| Trial protocol           | DE                |
| Global end of trial date | 18 September 2017 |

#### Results information

|                                |              |
|--------------------------------|--------------|
| Result version number          | v1 (current) |
| This version publication date  | 15 July 2020 |
| First version publication date | 15 July 2020 |

#### Trial information

##### Trial identification

|                       |               |
|-----------------------|---------------|
| Sponsor protocol code | CAIN457F2301T |
|-----------------------|---------------|

##### Additional study identifiers

|                                    |             |
|------------------------------------|-------------|
| ISRCTN number                      | -           |
| ClinicalTrials.gov id (NCT number) | NCT02483234 |
| WHO universal trial number (UTN)   | -           |

Notes:

#### Sponsors

|                              |  |
|------------------------------|--|
| Sponsor organisation name    | Universitätsklinikum Erlangen  |
| Sponsor organisation address | Maximiliansplatz 2, Erlangen, Germany, 91054   |
| Public contact               | Medizinische Klinik 3, Universitätsklinikum Erlangen,<br>georg.schett@uk-erlangen.de |
| Scientific contact           | Medizinische Klinik 3, Universitätsklinikum Erlangen,<br>georg.schett@uk-erlangen.de |

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:

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**Results analysis stage**

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|  |                   |
|--|-------------------|
| Analysis stage                                       | Final             |
| Date of interim/final analysis                       | 28 June 2017      |
| Is this the analysis of the primary completion data? | Yes               |
| Primary completion date                              | 28 June 2017      |
| Global end of trial reached?                         | Yes               |
| Global end of trial date                             | 18 September 2017 |
| Was the trial ended prematurely?                     | No                |

Notes:

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**General information about the trial**

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Main objective of the trial:

Effect of secukinumab on inflammatory and structural signs and Symptoms (PsAMRIS score)

Protection of trial subjects:

Routine lab Control, physical examination and AE assessment at regular intervals; discontinuation of Treatment in case of any AE that is not compatible with IMP Administration, life-threatening infections, malignancies, pregnancy or any lab abnormalities that are deemed to place the subject at a safety Risk

Background therapy: -

Evidence for comparator: -

|   |              |
|---|--------------|
| Actual start date of recruitment                          | 08 June 2015 |
| Long term follow-up planned                               | No           |
| Independent data monitoring committee (IDMC) involvement? | No           |

Notes:

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**Population of trial subjects**

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**Subjects enrolled per country**

|                                      |             |
|--------------------------------------|-------------|
| Country: Number of subjects enrolled | Germany: 40 |
| Worldwide total number of subjects   | 40          |
| EEA total number of subjects         | 40          |

Notes:

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**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)                      | 33 |
| From 65 to 84 years                       | 7  |
| 85 years and over                         | 0  |

## Subject disposition

### Recruitment

Recruitment details: -

### Pre-assignment

Screening details:

IC: adequate wash-out time for pretreatment with TNFInhibitors / ustekinumab; PsA subj: moderate to severe PsA with Symptoms for at least 6 months / Psoriasis subj: inflamm. or structural lesions/erosions in MRI/HR-pQCT

48 subj assessed for eligibility, 8 subj excluded, 40 included

### Period 1

|                              |                  |
|------------------------------|------------------|
| Period 1 title               | Treatment period |
| Is this the baseline period? | Yes              |
| Allocation method            | Not applicable   |
| Blinding used                | Not blinded      |

### Arms

|                              |           |
|------------------------------|-----------|
| Are arms mutually exclusive? | Yes       |
| <b>Arm title</b>             | Psoriasis |

Arm description:

Subjects with Psoriasis (without PsA)

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

Dosage and administration details:

300mg s.c. week 0,1,2,3,4,8,12,16,20

|                  |                     |
|------------------|---------------------|
| <b>Arm title</b> | Psoriasis Arthritis |
|------------------|---------------------|

Arm description: -

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

Dosage and administration details:

300mg s.c. week 0,1,2,3,4,8,12,16,20

| Number of subjects in period 1 | Psoriasis | Psoriasis Arthritis |
|--------------------------------|-----------|---------------------|
| Started                        | 20        | 20                  |
| Completed                      | 19        | 17                  |
| Not completed                  | 1         | 3                   |
| Consent withdrawn by subject   | -         | 1                   |
| Adverse event, non-fatal       | -         | 1                   |

|                  |   |   |
|------------------|---|---|
| Lack of efficacy | 1 | 1 |
|------------------|---|---|

## Period 2

|                              |                 |
|------------------------------|-----------------|
| Period 2 title               | Analysis period |
| Is this the baseline period? | No              |
| Allocation method            | Not applicable  |
| Blinding used                | Not blinded     |

## Arms

|                              |           |
|------------------------------|-----------|
| Are arms mutually exclusive? | Yes       |
| <b>Arm title</b>             | Psoriasis |

Arm description:

Subjects with Psoriasis (without PsA)

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

Dosage and administration details:

300mg s.c. week 0,1,2,3,4,8,12,16,20

|                  |                     |
|------------------|---------------------|
| <b>Arm title</b> | Psoriasis Arthritis |
|------------------|---------------------|

Arm description:

Subjects with PsA

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

Dosage and administration details:

300mg s.c. week 0,1,2,3,4,8,12,16,20

| <b>Number of subjects in period 2</b> | Psoriasis | Psoriasis Arthritis |
|---------------------------------------|-----------|---------------------|
| Started                               | 19        | 17                  |
| Completed                             | 18        | 17                  |
| Not completed                         | 1         | 0                   |
| unable to perform MRI                 | 1         | -                   |



## Baseline characteristics

### Reporting groups

|                                       |                     |
|---------------------------------------|---------------------|
| Reporting group title                 | Psoriasis           |
| Reporting group description:          |                     |
| Subjects with Psoriasis (without PsA) |                     |
| Reporting group title                 | Psoriasis Arthritis |
| Reporting group description: -        |                     |

| Reporting group values                             | Psoriasis  | Psoriasis Arthritis | Total |
|--|------------|---------------------|-------|
| Number of subjects                                 | 20         | 20                  | 40    |
| Age categorical                                    |            |                     |       |
| Units: Subjects                                    |            |                     |       |
| In utero   |            |                     | 0     |
| Preterm newborn infants (gestational age < 37 wks) |            |                     | 0     |
| Newborns (0-27 days)                               |            |                     | 0     |
| Infants and toddlers (28 days-23 months)           |            |                     | 0     |
| Children (2-11 years)                              |            |                     | 0     |
| Adolescents (12-17 years)                          |            |                     | 0     |
| Adults (18-64 years)                               |            |                     | 0     |
| From 65-84 years                                   |            |                     | 0     |
| 85 years and over                                  |            |                     | 0     |
| Age continuous                                     |            |                     |       |
| Units: years                                       |            |                     |       |
| median   | 49.5       | 50.5                |       |
| inter-quartile range (Q1-Q3)                       | 42.8 to 59 | 44 to 59            | -     |
| Gender categorical                                 |            |                     |       |
| Units: Subjects                                    |            |                     |       |
| Female   | 6          | 12                  | 18    |
| Male   | 14         | 8                   | 22    |
| Pre-treatment with bDMARDs                         |            |                     |       |
| Units: Subjects                                    |            |                     |       |
| positive   | 0          | 9                   | 9     |
| negative   | 20         | 11                  | 31    |
| Concomitant cDMARDs                                |            |                     |       |
| Units: Subjects                                    |            |                     |       |
| positive   | 0          | 8                   | 8     |
| negative   | 20         | 12                  | 32    |
| PDUS synovitis                                     |            |                     |       |
| Units: Subjects                                    |            |                     |       |
| positive   | 0          | 14                  | 14    |
| negative   | 0          | 6                   | 6     |
| not recorded                                       | 20         | 0                   | 20    |
| Disease duration                                   |            |                     |       |
| Units: year  |            |                     |       |
| median   | 14         | 5.5                 |       |
| inter-quartile range (Q1-Q3)                       | 5 to 20    | 1.25 to 12.75       | -     |

|                              |              |            |   |
|------------------------------|--------------|------------|---|
| TJC                          |              |            |   |
| Units: unit(s)               |              |            |   |
| median                       | 0            | 10         |   |
| inter-quartile range (Q1-Q3) | 0 to 3.75    | 6.25 to 20 | - |
| SJC                          |              |            |   |
| Units: unit(s)               |              |            |   |
| median                       | 0            | 4          |   |
| inter-quartile range (Q1-Q3) | 0 to 0       | 3 to 5.75  | - |
| PASI                         |              |            |   |
| Units: unit(s)               |              |            |   |
| median                       | 6.8          | 0.4        |   |
| inter-quartile range (Q1-Q3) | 3.5 to 18.6  | 0.2 to 1.9 | - |
| BSA                          |              |            |   |
| Units: percent               |              |            |   |
| median                       | 10.9         | 0.4        |   |
| inter-quartile range (Q1-Q3) | 3.6 to 20.3  | 0.2 to 1.5 | - |
| total PSAMRIS                |              |            |   |
| Units: unit(s)               |              |            |   |
| median                       | 4            | 5.5        |   |
| inter-quartile range (Q1-Q3) | 0.75 to 7.25 | 3 to 19.5  | - |
| HR-pQCT erosion number       |              |            |   |
| Units: unit(s)               |              |            |   |
| median                       |              |            |   |
| inter-quartile range (Q1-Q3) |              |            | - |
| PDSU OMERACT global          |              |            |   |
| Units: unit(s)               |              |            |   |
| median                       |              | 5          |   |
| inter-quartile range (Q1-Q3) |              | 3 to 11    | - |

### Subject analysis sets

|                            |                     |
|----------------------------|---------------------|
| Subject analysis set title | Psoriasis PP week 0 |
| Subject analysis set type  | Per protocol        |

Subject analysis set description:

All subjects with Psoriasis receiving Treatment with secukinumab for 24 weeks, PSAMRIS score at week 24 available

|                            |                               |
|----------------------------|-------------------------------|
| Subject analysis set title | Psoriasis Arthritis PP week 0 |
| Subject analysis set type  | Per protocol                  |

Subject analysis set description:

All subjects with Psoriasis Arthritis receiving Treatment with secukinumab for 24 weeks, PSAMRIS score at week 24 available

| Reporting group values                             | Psoriasis PP week 0 | Psoriasis Arthritis PP week 0 |  |
|--|---------------------|-------------------------------|--|
| Number of subjects                                 | 18                  | 17                            |  |
| Age categorical                                    |                     |                               |  |
| Units: Subjects                                    |                     |                               |  |
| In utero   |                     |                               |  |
| Preterm newborn infants (gestational age < 37 wks) |                     |                               |  |
| Newborns (0-27 days)                               |                     |                               |  |
| Infants and toddlers (28 days-23 months)           |                     |                               |  |

|   |                    |                   |  |
|---|--------------------|-------------------|--|
| Children (2-11 years)<br>Adolescents (12-17 years)<br>Adults (18-64 years)<br>From 65-84 years<br>85 years and over |                    |                   |  |
| Age continuous<br>Units: years<br>median<br>inter-quartile range (Q1-Q3)  | 47                 | 50                |  |
| Gender categorical<br>Units: Subjects   |                    |                   |  |
| Female<br>Male  | 5<br>13            | 1<br>7            |  |
| Pre-treatment with bDMARDs<br>Units: Subjects   |                    |                   |  |
| positive<br>negative  |                    |                   |  |
| Concomitant cDMARDs<br>Units: Subjects  |                    |                   |  |
| positive<br>negative  |                    |                   |  |
| PDUS synovitis<br>Units: Subjects   |                    |                   |  |
| positive<br>negative<br>not recorded  | 18                 | 12<br>5<br>0      |  |
| Disease duration<br>Units: year<br>median<br>inter-quartile range (Q1-Q3)   |                    |                   |  |
| TJC<br>Units: unit(s)<br>median<br>inter-quartile range (Q1-Q3)   | 0<br>0 to 3.75     | 10<br>6 to 16.5   |  |
| SJC<br>Units: unit(s)<br>median<br>inter-quartile range (Q1-Q3)   | 0<br>0 to 0        | 4<br>3 to 7       |  |
| PASI<br>Units: unit(s)<br>median<br>inter-quartile range (Q1-Q3)  | 6.9<br>3.5 to 18.6 | 0.4<br>0.2 to 2.3 |  |
| BSA<br>Units: percent<br>median<br>inter-quartile range (Q1-Q3)   | 9.2<br>4.3 to 18.1 | 0.3<br>0.2 to 1.5 |  |
| total PSAMRIS<br>Units: unit(s)<br>median<br>inter-quartile range (Q1-Q3)   | 4<br>0.75 to 7.25  | 6<br>3.5 to 18    |  |
| HR-pQCT erosion number  |                    |                   |  |



|                              |           |            |  |
|------------------------------|-----------|------------|--|
| Units: unit(s)               |           |            |  |
| median                       | 1         | 2          |  |
| inter-quartile range (Q1-Q3) | 0 to 1.75 | 0.5 to 4.5 |  |
| PDSU OMERACT global          |           |            |  |
| Units: unit(s)               |           |            |  |
| median                       |           | 5          |  |
| inter-quartile range (Q1-Q3) |           | 3 to 11    |  |

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## End points

### End points reporting groups

|  |                               |
|--|-------------------------------|
| Reporting group title  | Psoriasis                     |
| Reporting group description:<br>Subjects with Psoriasis (without PsA)  |                               |
| Reporting group title  | Psoriasis Arthritis           |
| Reporting group description: -   |                               |
| Reporting group title  | Psoriasis                     |
| Reporting group description:<br>Subjects with Psoriasis (without PsA)  |                               |
| Reporting group title  | Psoriasis Arthritis           |
| Reporting group description:<br>Subjects with PsA  |                               |
| Subject analysis set title   | Psoriasis PP week 0           |
| Subject analysis set type  | Per protocol                  |
| Subject analysis set description:<br>All subjects with Psoriasis receiving Treatment with secukinumab for 24 weeks, PSAMRIS score at week 24 available           |                               |
| Subject analysis set title   | Psoriasis Arthritis PP week 0 |
| Subject analysis set type  | Per protocol                  |
| Subject analysis set description:<br>All subjects with Psoriasis Arthritis receiving Treatment with secukinumab for 24 weeks, PSAMRIS score at week 24 available |                               |

### Primary: Change in PSAMRIS score - Psoriasis Arthritis

|  |   |
|--|---|
| End point title  | Change in PSAMRIS score - Psoriasis Arthritis |
| End point description:<br>PSAMRIS score week 24 compared to PSAMRIS score week 0 in PP-subjects with Psoriasis Arthritis |   |
| End point type   | Primary                                       |
| End point timeframe:<br>week 0 to week 24  |   |

| End point values                      | Psoriasis Arthritis | Psoriasis Arthritis PP week 0 |  |  |
|---------------------------------------|---------------------|-------------------------------|--|--|
| Subject group type                    | Reporting group     | Subject analysis set          |  |  |
| Number of subjects analysed           | 17                  | 17                            |  |  |
| Units: unit(s)                        |                     |                               |  |  |
| median (inter-quartile range (Q1-Q3)) | 4 (1 to 13.5)       | 6 (3.5 to 18)                 |  |  |

### Statistical analyses

|  |   |
|--|---|
| Statistical analysis title   | Change in PSAMRIS score - Psoriasis Arthritis |
| Statistical analysis description:<br>The Wilcoxon signed-rank test for paired comparisons between baseline and week 24 was used. |   |

|   |   |
|---|---|
| Comparison groups                       | Psoriasis Arthritis v Psoriasis Arthritis PP week 0 |
| Number of subjects included in analysis | 34  |
| Analysis specification                  | Pre-specified                                       |
| Analysis type                           | superiority   |
| P-value                                 | = 0.039   |
| Method                                  | wilcoxon signed-rank test                           |

### Primary: Change in PSAMRIS score - Psoriasis

|                        |  |
|------------------------|--|
| End point title        | Change in PSAMRIS score - Psoriasis  |
| End point description: | PSAMRIS score week 24 compared to PSAMRIS score week 0 in PP-subjects with Psoriasis |
| End point type         | Primary  |
| End point timeframe:   | week 0 to week 24  |

| End point values                      | Psoriasis         | Psoriasis PP week 0  |  |  |
|---------------------------------------|-------------------|----------------------|--|--|
| Subject group type                    | Reporting group   | Subject analysis set |  |  |
| Number of subjects analysed           | 18 <sup>[1]</sup> | 18                   |  |  |
| Units: unit(s)                        |                   |                      |  |  |
| median (inter-quartile range (Q1-Q3)) | 3 (0 to 6)        | 5 (1 to 8)           |  |  |

Notes:

[1] - 1 subject was excluded from all endpoint analyses as Primary endpoint could not be analysed

### Statistical analyses

|   |   |
|---|---|
| <b>Statistical analysis title</b>       | Change in PSAMRIS score - Psoriasis   |
| Statistical analysis description:       | The Wilcoxon signed-rank test for paired comparisons between baseline and week 24 was used. |
| Comparison groups                       | Psoriasis v Psoriasis PP week 0   |
| Number of subjects included in analysis | 36  |
| Analysis specification                  | Pre-specified   |
| Analysis type                           | superiority   |
| P-value                                 | = 0.005   |
| Method                                  | Wilcoxon signed-rank test   |

### Secondary: Change in PASI - Psoriasis Arthritis

|                        |  |
|------------------------|--|
| End point title        | Change in PASI - Psoriasis Arthritis   |
| End point description: | PASI score week 24 compared to PASI score week 0 in PP-subjects with Psoriasis Arthritis |
| End point type         | Secondary  |
| End point timeframe:   | week 0 to week 24  |

| End point values                      | Psoriasis Arthritis | Psoriasis Arthritis PP week 0 |  |  |
|---------------------------------------|---------------------|-------------------------------|--|--|
| Subject group type                    | Reporting group     | Subject analysis set          |  |  |
| Number of subjects analysed           | 17                  | 17                            |  |  |
| Units: unit(s)                        |                     |                               |  |  |
| median (inter-quartile range (Q1-Q3)) | 0.1 (0 to 1.3)      | 0.4 (0.2 to 2.3)              |  |  |

### Statistical analyses

No statistical analyses for this end point

### Secondary: ACR20 response - Psoriasis Arthritis

|                        |                                      |
|------------------------|--------------------------------------|
| End point title        | ACR20 response - Psoriasis Arthritis |
| End point description: |                                      |
| End point type         | Secondary                            |
| End point timeframe:   |                                      |
| week 24                |                                      |

| End point values            | Psoriasis Arthritis |  |  |  |
|-----------------------------|---------------------|--|--|--|
| Subject group type          | Reporting group     |  |  |  |
| Number of subjects analysed | 17                  |  |  |  |
| Units: subjects             | 14                  |  |  |  |

### Statistical analyses

No statistical analyses for this end point

### Secondary: Change in DAS28-ESR - Psoriasis Arthritis

|  |   |
|--|---|
| End point title  | Change in DAS28-ESR - Psoriasis Arthritis |
| End point description:   |   |
| DAS28-ESR score week 24 compared to DAS28-ESR score week 0 in PP-subjects with Psoriasis Arthritis |   |
| End point type   | Secondary                                 |
| End point timeframe:   |   |
| week 0 to week 24  |   |

| End point values                      | Psoriasis Arthritis | Psoriasis Arthritis PP week 0 |  |  |
|---------------------------------------|---------------------|-------------------------------|--|--|
| Subject group type                    | Reporting group     | Subject analysis set          |  |  |
| Number of subjects analysed           | 17                  | 17                            |  |  |
| Units: unit(s)                        |                     |                               |  |  |
| median (inter-quartile range (Q1-Q3)) | 2.93 (2.01 to 3.70) | 4.93 (4.08 to 5.74)           |  |  |

### Statistical analyses

No statistical analyses for this end point

### Secondary: Change in PSAID - Psoriasis

|  |                             |
|--|-----------------------------|
| End point title  | Change in PSAID - Psoriasis |
| End point description:<br>PSAID score week 24 compared to PSAID score week 0 in PP-subjects with Psoriasis |                             |
| End point type   | Secondary                   |
| End point timeframe:<br>week 0 to week 24  |                             |

| End point values                      | Psoriasis          | Psoriasis PP week 0  |  |  |
|---------------------------------------|--------------------|----------------------|--|--|
| Subject group type                    | Reporting group    | Subject analysis set |  |  |
| Number of subjects analysed           | 18 <sup>[2]</sup>  | 18                   |  |  |
| Units: unit(s)                        |                    |                      |  |  |
| median (inter-quartile range (Q1-Q3)) | 1.35 (0.2 to 2.35) | 3.5 (1.65 to 4.7)    |  |  |

Notes:

[2] - 1 subject was excluded from all endpoint analyses as Primary endpoint could not be analysed

### Statistical analyses

No statistical analyses for this end point

### Secondary: Change in DLQI - Psoriasis

|  |                            |
|--|----------------------------|
| End point title  | Change in DLQI - Psoriasis |
| End point description:<br>DLQI score week 24 compared to DLQI score week 0 in PP-subjects with Psoriasis |                            |
| End point type   | Secondary                  |
| End point timeframe:<br>week 0 to week 24  |                            |

| End point values                      | Psoriasis          | Psoriasis PP week 0  |  |  |
|---------------------------------------|--------------------|----------------------|--|--|
| Subject group type                    | Reporting group    | Subject analysis set |  |  |
| Number of subjects analysed           | 18 <sup>[3]</sup>  | 18                   |  |  |
| Units: unit(s)                        |                    |                      |  |  |
| median (inter-quartile range (Q1-Q3)) | 1.5 (0.75 to 5.75) | 10 (5 to 15)         |  |  |

Notes:

[3] - 1 subject was excluded from all endpoint analyses as Primary endpoint could not be analysed

## Statistical analyses

No statistical analyses for this end point

### Secondary: Change in PDUS OMERACT global - Psoriasis Arthritis

|  |   |
|--|---|
| End point title  | Change in PDUS OMERACT global - Psoriasis Arthritis |
| End point description:<br>PDUS OMERACT global week 24 compared to PDUS OMERACT global week 0 in PP-subjects with Psoriasis Arthritis |   |
| End point type   | Secondary   |
| End point timeframe:<br>week 24  |   |

| End point values                      | Psoriasis Arthritis | Psoriasis Arthritis PP week 0 |  |  |
|---------------------------------------|---------------------|-------------------------------|--|--|
| Subject group type                    | Reporting group     | Subject analysis set          |  |  |
| Number of subjects analysed           | 17                  | 17                            |  |  |
| Units: unit(s)                        |                     |                               |  |  |
| median (inter-quartile range (Q1-Q3)) | 1 (0 to 5)          | 5 (3 to 11)                   |  |  |

## Statistical analyses

No statistical analyses for this end point

### Secondary: Change in HR-pQCT enthesiophytes - Psoriasis Arthritis

|  |  |
|--|--|
| End point title  | Change in HR-pQCT enthesiophytes - Psoriasis Arthritis |
| End point description:<br>HR-pQCT enthesiophytes week 24 compared to HR-pQCT enthesiophytes week 0 in PP-subjects with Psoriasis Arthritis,<br>proliferation grading: grade 0 = absent; grade 1 = maximum height ≤ 4mm; grade 2 = maximum height > 4mm; grade 3 = diffuse osteoproliferation |  |
| End point type   | Secondary  |
| End point timeframe:<br>week 24  |  |

| End point values                      | Psoriasis Arthritis | Psoriasis Arthritis PP week 0 |  |  |
|---------------------------------------|---------------------|-------------------------------|--|--|
| Subject group type                    | Reporting group     | Subject analysis set          |  |  |
| Number of subjects analysed           | 17                  | 17                            |  |  |
| Units: unit(s)                        |                     |                               |  |  |
| median (inter-quartile range (Q1-Q3)) | 2 (1.5 to 2)        | 2 (1 to 2)                    |  |  |

### Statistical analyses

No statistical analyses for this end point

### Secondary: Change in HR-pQCT erosion number - Psoriasis Arthritis

|  |  |
|--|--|
| End point title  | Change in HR-pQCT erosion number - Psoriasis Arthritis |
| End point description:<br>Change in HR-pQCT Erosion number week 24 compared to HR-pQCT erosion number week 0 in PP-subjects with Psoriasis Arthritis |  |
| End point type   | Secondary  |
| End point timeframe:<br>week 24 compared to week 0   |  |

| End point values                      | Psoriasis Arthritis | Psoriasis Arthritis PP week 0 |  |  |
|---------------------------------------|---------------------|-------------------------------|--|--|
| Subject group type                    | Reporting group     | Subject analysis set          |  |  |
| Number of subjects analysed           | 17                  | 17                            |  |  |
| Units: unit(s)                        |                     |                               |  |  |
| median (inter-quartile range (Q1-Q3)) | 2 (1 to 4)          | 2 (0.5 to 4.5)                |  |  |

### Statistical analyses

No statistical analyses for this end point

### Secondary: Change in PASI - Psoriasis

|  |                            |
|--|----------------------------|
| End point title  | Change in PASI - Psoriasis |
| End point description:<br>PASI score week 24 compared to PASI score week 0 in PP-subjects with Psoriasis |                            |
| End point type   | Secondary                  |
| End point timeframe:<br>week 24 compared to week 0   |                            |

| End point values                      | Psoriasis         | Psoriasis PP week 0  |  |  |
|---------------------------------------|-------------------|----------------------|--|--|
| Subject group type                    | Reporting group   | Subject analysis set |  |  |
| Number of subjects analysed           | 18 <sup>[4]</sup> | 18                   |  |  |
| Units: unit(s)                        |                   |                      |  |  |
| median (inter-quartile range (Q1-Q3)) | 0.4 (0 to 1.5)    | 6.9 (3.5 to 18.6)    |  |  |

Notes:

[4] - 1 subject was excluded from analysis as no Primary endpoint available

## Statistical analyses

No statistical analyses for this end point

### Secondary: Change in HR-pQCT enthesiophytes - Psoriasis

|  |  |
|--|--|
| End point title  | Change in HR-pQCT enthesiophytes - Psoriasis |
| End point description:<br>HR-pQCT enthesiophytes week 24 compared to HR-pQCT enthesiophytes week 0 in PP-subjects with Psoriasis |  |
| End point type   | Secondary                                    |
| End point timeframe:<br>week 24 compared to week 0   |  |

| End point values                      | Psoriasis         | Psoriasis PP week 0  |  |  |
|---------------------------------------|-------------------|----------------------|--|--|
| Subject group type                    | Reporting group   | Subject analysis set |  |  |
| Number of subjects analysed           | 18 <sup>[5]</sup> | 18                   |  |  |
| Units: unit(s)                        |                   |                      |  |  |
| median (inter-quartile range (Q1-Q3)) | 1 (0 to 1.75)     | 1 (0 to 1.75)        |  |  |

Notes:

[5] - 1 subject was excluded from endpoint analyses as no Primary endpoint was available

## Statistical analyses

No statistical analyses for this end point

### Secondary: Change in HR-pQCT erosion number - Psoriasis

|  |  |
|--|--|
| End point title  | Change in HR-pQCT erosion number - Psoriasis |
| End point description:<br>Change in HR-pQCT Erosion number week 24 compared to HR-pQCT erosion number week 0 in PP-subjects with Psoriasis |  |
| End point type   | Secondary                                    |
| End point timeframe:<br>week 24 compared to week 0   |  |



| <b>End point values</b>               | Psoriasis         | Psoriasis PP<br>week 0 |  |  |
|---------------------------------------|-------------------|------------------------|--|--|
| Subject group type                    | Reporting group   | Subject analysis set   |  |  |
| Number of subjects analysed           | 18 <sup>[6]</sup> | 18                     |  |  |
| Units: unit(s)                        |                   |                        |  |  |
| median (inter-quartile range (Q1-Q3)) | 1 (0 to 1.75)     | 1 (0 to 1.75)          |  |  |

Notes:

[6] - 1 subject was excluded from all endpoint analyses as Primary endpoint was not available

### Statistical analyses

No statistical analyses for this end point

## Adverse events

### Adverse events information

Timeframe for reporting adverse events:

From the time of enrolment (signature informed consent) until EoS visit (week 24)

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

### Dictionary used

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

|                    |    |
|--------------------|----|
| Dictionary version | 23 |
|--------------------|----|

### Reporting groups

|                       |              |
|-----------------------|--------------|
| Reporting group title | All subjects |
|-----------------------|--------------|

Reporting group description:

Subjects with PsA or Psoriasis

| Serious adverse events                            | All subjects   |  |  |
|---|----------------|--|--|
| Total subjects affected by serious adverse events |                |  |  |
| subjects affected / exposed                       | 0 / 40 (0.00%) |  |  |
| number of deaths (all causes)                     | 0              |  |  |
| number of deaths resulting from adverse events    | 0              |  |  |

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

| Non-serious adverse events                            | All subjects     |  |  |
|---|------------------|--|--|
| Total subjects affected by non-serious adverse events |                  |  |  |
| subjects affected / exposed                           | 39 / 40 (97.50%) |  |  |
| Investigations  |                  |  |  |
| Liver function test increased                         |                  |  |  |
| subjects affected / exposed                           | 2 / 40 (5.00%)   |  |  |
| occurrences (all)                                     | 2                |  |  |
| Vascular disorders                                    |                  |  |  |
| Hypertension  |                  |  |  |
| subjects affected / exposed                           | 3 / 40 (7.50%)   |  |  |
| occurrences (all)                                     | 3                |  |  |
| Nervous system disorders                              |                  |  |  |
| Headache  |                  |  |  |
| subjects affected / exposed                           | 4 / 40 (10.00%)  |  |  |
| occurrences (all)                                     | 5                |  |  |
| General disorders and administration                  |                  |  |  |

|   |  |  |  |
|---|--|--|--|
| site conditions<br>Fatigue<br>subjects affected / exposed<br>occurrences (all)<br><br>Injection site haematoma<br>subjects affected / exposed<br>occurrences (all)                    | 2 / 40 (5.00%)<br><br>2<br><br><br>1 / 40 (2.50%)<br><br>2 |  |  |
| Gastrointestinal disorders<br>Diarrhoea<br>subjects affected / exposed<br>occurrences (all)<br><br>Nausea<br>subjects affected / exposed<br>occurrences (all)                         | 5 / 40 (12.50%)<br><br>5<br><br>2 / 40 (5.00%)<br><br>2    |  |  |
| Respiratory, thoracic and mediastinal disorders<br>Oropharyngeal pain<br>subjects affected / exposed<br>occurrences (all)   | 5 / 40 (12.50%)<br><br>7                                   |  |  |
| Renal and urinary disorders<br>Haematuria<br>subjects affected / exposed<br>occurrences (all)   | 2 / 40 (5.00%)<br><br>2                                    |  |  |
| Endocrine disorders<br>Hyperparathyroidism<br>subjects affected / exposed<br>occurrences (all)  | 2 / 40 (5.00%)<br><br>2                                    |  |  |
| Musculoskeletal and connective tissue disorders<br>Bursitis<br>subjects affected / exposed<br>occurrences (all)<br><br>Arthralgia<br>subjects affected / exposed<br>occurrences (all) | 2 / 40 (5.00%)<br><br>3<br><br>4 / 40 (10.00%)<br><br>4    |  |  |
| Infections and infestations<br>Conjunctivitis<br>subjects affected / exposed<br>occurrences (all)   | 2 / 40 (5.00%)<br><br>2                                    |  |  |

|                                    |                  |  |  |
|------------------------------------|------------------|--|--|
| Nasopharyngitis                    |                  |  |  |
| subjects affected / exposed        | 15 / 40 (37.50%) |  |  |
| occurrences (all)                  | 21               |  |  |
| Upper respiratory tract infection  |                  |  |  |
| subjects affected / exposed        | 2 / 40 (5.00%)   |  |  |
| occurrences (all)                  | 3                |  |  |
| Sinusitis                          |                  |  |  |
| subjects affected / exposed        | 4 / 40 (10.00%)  |  |  |
| occurrences (all)                  | 4                |  |  |
| Genital infection fungal           |                  |  |  |
| subjects affected / exposed        | 2 / 40 (5.00%)   |  |  |
| occurrences (all)                  | 2                |  |  |
| Oral herpes                        |                  |  |  |
| subjects affected / exposed        | 2 / 40 (5.00%)   |  |  |
| occurrences (all)                  | 4                |  |  |
| Nail infection                     |                  |  |  |
| subjects affected / exposed        | 2 / 40 (5.00%)   |  |  |
| occurrences (all)                  | 2                |  |  |
| Urinary tract infection            |                  |  |  |
| subjects affected / exposed        | 2 / 40 (5.00%)   |  |  |
| occurrences (all)                  | 3                |  |  |
| Metabolism and nutrition disorders |                  |  |  |
| Hyperuricaemia                     |                  |  |  |
| subjects affected / exposed        | 2 / 40 (5.00%)   |  |  |
| occurrences (all)                  | 2                |  |  |
| Vitamin D deficiency               |                  |  |  |
| subjects affected / exposed        | 4 / 40 (10.00%)  |  |  |
| occurrences (all)                  | 4                |  |  |

## More information

### Substantial protocol amendments (globally)

Were there any global substantial amendments to the protocol? Yes

| Date        | Amendment     |
|-------------|---------------|
| 05 May 2015 | Protocol v2.0 |

Notes:

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### Interruptions (globally)

Were there any global interruptions to the trial? No

### Limitations and caveats

None reported