



## Clinical trial results:

**A randomized, multicenter 28 week study to compare the efficacy and safety of combining Cosentyx (Secukinumab) (4-weekly, 300 mg s.c.) with a lifestyle intervention to Cosentyx therapy alone in adult patients with moderate to severe plaque-type psoriasis and concomitant metabolic syndrome, followed by a 28 week extension period**

### Summary

|                          |                |
|--------------------------|----------------|
| EudraCT number           | 2016-001671-79 |
| Trial protocol           | DE             |
| Global end of trial date | 03 June 2022   |

### Results information

|                                |              |
|--------------------------------|--------------|
| Result version number          | v1 (current) |
| This version publication date  | 02 June 2023 |
| First version publication date | 02 June 2023 |

### Trial information

#### Trial identification

|                       |              |
|-----------------------|--------------|
| Sponsor protocol code | CAIN457ADE08 |
|-----------------------|--------------|

#### Additional study identifiers

|                                    |             |
|------------------------------------|-------------|
| ISRCTN number                      | -           |
| ClinicalTrials.gov id (NCT number) | NCT03440736 |
| WHO universal trial number (UTN)   | -           |

Notes:

### Sponsors

|                              |   |
|------------------------------|---|
| Sponsor organisation name    | Novartis Pharma AG  |
| Sponsor organisation address | Novartis Campus, Basel, Switzerland,  |
| Public contact               | Clinical Disclosure Office, Novartis Pharma AG, 41 613241111, Novartis.email@Novartis.com |
| Scientific contact           | Clinical Disclosure Office, Novartis Pharma AG, 41 613241111, Novartis.email@Novartis.com |

Notes:

### Paediatric regulatory details

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

Notes:

## Results analysis stage

|  |              |
|--|--------------|
| Analysis stage                                       | Final        |
| Date of interim/final analysis                       | 03 June 2022 |
| Is this the analysis of the primary completion data? | No           |
| Global end of trial reached?                         | Yes          |
| Global end of trial date                             | 03 June 2022 |
| Was the trial ended prematurely?                     | No           |

Notes:

## General information about the trial

Main objective of the trial:

The primary objective of the Core Study was to demonstrate that the combination of Secukinumab (300 mg, 4-weekly s.c.) with lifestyle intervention results in higher psoriasis treatment efficacy than Secukinumab alone in psoriasis patients with concomitant metabolic syndrome.

Protection of trial subjects:

The study was in compliance with the ethical principles derived from the Declaration of Helsinki and the International Conference on Harmonization (ICH) Good Clinical Practice (GCP) guidelines. All the local regulatory requirements pertinent to safety of trial subjects were also followed during the conduct of the trial.

Background therapy: -

Evidence for comparator: -

|   |                  |
|---|------------------|
| Actual start date of recruitment                          | 28 February 2018 |
| Long term follow-up planned                               | No               |
| Independent data monitoring committee (IDMC) involvement? | No               |

Notes:

## Population of trial subjects

### Subjects enrolled per country

|                                      |              |
|--------------------------------------|--------------|
| Country: Number of subjects enrolled | Germany: 781 |
| Worldwide total number of subjects   | 781          |
| EEA total number of subjects         | 781          |

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)                      | 673 |
| From 65 to 84 years                       | 107 |
| 85 years and over                         | 1   |

## Subject disposition

### Recruitment

Recruitment details:

This study was conducted at 81 centers in Germany.

### Pre-assignment

Screening details:

Patients were screened for eligibility for a period of 1 to 4 weeks prior to inclusion in the study.

### Period 1

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

### Arms

|                              |  |
|------------------------------|--|
| Are arms mutually exclusive? | Yes                                    |
| <b>Arm title</b>             | Secukinumab 300 mg subcutaneous (s.c.) |

Arm description:

Patients received therapy with Secukinumab 300 mg s.c., which consisted of two injections with 150 mg prefilled syringes at weeks 0, 1, 2, 3, 4, 8, 12, 16, 20 and 24 (last injection was performed at week 24).

|  |  |
|--|--|
| Arm type                               | Active comparator                            |
| Investigational medicinal product name | Secukinumab                                  |
| Investigational medicinal product code |  |
| Other name                             |  |
| Pharmaceutical forms                   | Solution for injection in pre-filled syringe |
| Routes of administration               | Subcutaneous use                             |

Dosage and administration details:

Secukinumab 300 mg s.c., which consisted of two injections with 150 mg prefilled syringes at weeks 0, 1, 2, 3, 4, 8, 12, 16, 20 and 24 (last injection was performed at week 24)

|                  |  |
|------------------|--|
| <b>Arm title</b> | Secukinumab 300 mg s.c. and lifestyle intervention |
|------------------|--|

Arm description:

Patients received therapy with Secukinumab 300 mg s.c., which consisted of two injections with 150 mg prefilled syringes at weeks 0, 1, 2, 3, 4, 8, 12, 16, 20 and 24 (last injection was performed at week 24). In addition they participated in a lifestyle intervention program.

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

Dosage and administration details:

Secukinumab 300 mg s.c., which consisted of two injections with 150 mg prefilled syringes at weeks 0, 1, 2, 3, 4, 8, 12, 16, 20 and 24 (last injection was performed at week 24)

| <b>Number of subjects in period 1<sup>[1]</sup></b> | <b>Secukinumab 300 mg subcutaneous (s.c.)</b> | <b>Secukinumab 300 mg s.c. and lifestyle intervention</b> |
|---|---|---|
| Started   | 371   | 409   |
| Full Analysis Set (FAS)                             | 371   | 409   |
| Safety Set (SAF)                                    | 371   | 409   |
| Completed   | 342   | 374   |
| Not completed                                       | 29  | 35  |
| Physician decision                                  | 2   | 2   |
| Consent withdrawn by subject                        | 9   | 10  |
| Adverse event, non-fatal                            | 8   | 7   |
| Non-compliance with study treatment                 | 1   | 1   |
| Lost to follow-up                                   | 2   | 8   |
| Subject discontinued the study due to emergency     | 1   | -   |
| Lack of efficacy                                    | 2   | 3   |
| Protocol deviation                                  | 4   | 4   |

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Notes:

[1] - The number of subjects reported to be in the baseline period are not the same as the worldwide number enrolled in the trial. It is expected that these numbers will be the same.

Justification: One participant in the Secukinumab 300 mg s.c. and lifestyle intervention arm was never treated and was therefore excluded from all analysis (including patient disposition and baseline characteristics)

## Baseline characteristics

### Reporting groups

|                       |  |
|-----------------------|--|
| Reporting group title | Secukinumab 300 mg subcutaneous (s.c.) |
|-----------------------|--|

Reporting group description:

Patients received therapy with Secukinumab 300 mg s.c., which consisted of two injections with 150 mg prefilled syringes at weeks 0, 1, 2, 3, 4, 8, 12, 16, 20 and 24 (last injection was performed at week 24).

|                       |  |
|-----------------------|--|
| Reporting group title | Secukinumab 300 mg s.c. and lifestyle intervention |
|-----------------------|--|

Reporting group description:

Patients received therapy with Secukinumab 300 mg s.c., which consisted of two injections with 150 mg prefilled syringes at weeks 0, 1, 2, 3, 4, 8, 12, 16, 20 and 24 (last injection was performed at week 24). In addition they participated in a lifestyle intervention program.

| Reporting group values                             | Secukinumab 300 mg subcutaneous (s.c.) | Secukinumab 300 mg s.c. and lifestyle intervention | Total |
|--|--|--|-------|
| Number of subjects                                 | 371                                    | 409  | 780   |
| Age categorical<br>Units: Subjects                 |  |  |       |
| In utero   | 0                                      | 0  | 0     |
| Preterm newborn infants (gestational age < 37 wks) | 0                                      | 0  | 0     |
| Newborns (0-27 days)                               | 0                                      | 0  | 0     |
| Infants and toddlers (28 days-23 months)           | 0                                      | 0  | 0     |
| Children (2-11 years)                              | 0                                      | 0  | 0     |
| Adolescents (12-17 years)                          | 0                                      | 0  | 0     |
| Adults (18-64 years)                               | 313                                    | 359  | 672   |
| From 65-84 years                                   | 57                                     | 50   | 107   |
| 85 years and over                                  | 1                                      | 0  | 1     |
| Age Continuous<br>Units: Years                     |  |  |       |
| arithmetic mean                                    | 50.4                                   | 50.1   | -     |
| standard deviation                                 | ± 13.29                                | ± 12.48  | -     |
| Sex: Female, Male<br>Units: Participants           |  |  |       |
| Female   | 105                                    | 115  | 220   |
| Male   | 266                                    | 294  | 560   |
| Race/Ethnicity, Customized<br>Units: Subjects      |  |  |       |
| Asian  | 7                                      | 1  | 8     |
| Caucasian  | 359                                    | 397  | 756   |
| Black or African American                          | 2                                      | 2  | 4     |
| Other  | 3                                      | 8  | 11    |
| Unknown  | 0                                      | 1  | 1     |

## End points

### End points reporting groups

|   |  |
|---|--|
| Reporting group title   | Secukinumab 300 mg subcutaneous (s.c.)             |
| Reporting group description:  |  |
| Patients received therapy with Secukinumab 300 mg s.c., which consisted of two injections with 150 mg prefilled syringes at weeks 0, 1, 2, 3, 4, 8, 12, 16, 20 and 24 (last injection was performed at week 24).  |  |
| Reporting group title   | Secukinumab 300 mg s.c. and lifestyle intervention |
| Reporting group description:  |  |
| Patients received therapy with Secukinumab 300 mg s.c., which consisted of two injections with 150 mg prefilled syringes at weeks 0, 1, 2, 3, 4, 8, 12, 16, 20 and 24 (last injection was performed at week 24). In addition they participated in a lifestyle intervention program. |  |

### Primary: Percentage of patients achieving Psoriasis Area and Severity Index (PASI) Score of 90 at week 28

|  |  |
|--|--|
| End point title  | Percentage of patients achieving Psoriasis Area and Severity Index (PASI) Score of 90 at week 28 |
| End point description:   |  |
| The Psoriasis Area and Severity Index (PASI) is a combined assessment of lesion severity and affected area into a single score: 0 (no disease) to 72 (maximal disease). Body is divided into 4 areas for scoring (head, trunk, upper limbs, lower limbs); each area is scored by itself and scores are combined for final PASI. For each area, percent of skin involved is estimated: 0 (0%) to 6 (90-100%), and severity is estimated by clinical signs, erythema, induration and desquamation; scale 0 (none) to 4 (maximum). Final PASI = sum of severity parameters for each area * area score weight of section (head: 0.1, arms: 0.2 body: 0.3 legs: 0.4). PASI 90 represents patients achieving $\geq 90\%$ improvement (reduction) in PASI score compared to Baseline. Patients with missing PASI at Week 28 were counted as non-responders. |  |
| End point type   | Primary  |
| End point timeframe:   |  |
| Baseline, Week 28  |  |

| End point values            | Secukinumab 300 mg subcutaneous (s.c.) | Secukinumab 300 mg s.c. and lifestyle intervention |  |  |
|-----------------------------|--|--|--|--|
| Subject group type          | Reporting group                        | Reporting group                                    |  |  |
| Number of subjects analysed | 371                                    | 409  |  |  |
| Units: Participants         | 219                                    | 261  |  |  |

### Statistical analyses

|  |   |
|--|---|
| Statistical analysis title   | PASI 90 at week 28  |
| Statistical analysis description:                                  |   |
| Comparison of mean change between treatments in PASI 90 at week 28 |   |
| Comparison groups  | Secukinumab 300 mg subcutaneous (s.c.) v Secukinumab 300 mg s.c. and lifestyle intervention |

|   |                      |
|---|----------------------|
| Number of subjects included in analysis | 780                  |
| Analysis specification                  | Pre-specified        |
| Analysis type                           |                      |
| P-value                                 | = 0.3857             |
| Method                                  | Regression, Logistic |
| Parameter estimate                      | Odds ratio (OR)      |
| Point estimate                          | 1.17                 |
| Confidence interval                     |                      |
| level                                   | 95 %                 |
| sides                                   | 2-sided              |
| lower limit                             | 0.82                 |
| upper limit                             | 1.67                 |

### Secondary: Percentage of patients achieving Psoriasis Area and Severity Index (PASI) Score of 75 over time

|                 |   |
|-----------------|---|
| End point title | Percentage of patients achieving Psoriasis Area and Severity Index (PASI) Score of 75 over time |
|-----------------|---|

End point description:

The Psoriasis Area and Severity Index (PASI) is a combined assessment of lesion severity and affected area into a single score: 0 (no disease) to 72 (maximal disease). Body is divided into 4 areas for scoring (head, trunk, upper limbs, lower limbs); each area is scored by itself and scores are combined for final PASI. For each area, percent of skin involved is estimated: 0 (0%) to 6 (90-100%), and severity is estimated by clinical signs, erythema, induration and desquamation; scale 0 (none) to 4 (maximum). Final PASI = sum of severity parameters for each area \* area score weight of section (head: 0.1, arms: 0.2 body: 0.3 legs: 0.4).

PASI 75 represents patients achieving  $\geq 75\%$  improvement (reduction) in PASI score compared to Baseline.

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

End point timeframe:

Baseline, Week 1, Week 2, Week 3, Week 4, Week 8, Week 12, Week 16, Week 20, Week 24, Week 28

| End point values            | Secukinumab<br>300 mg<br>subcutaneous<br>(s.c.) | Secukinumab<br>300 mg s.c.<br>and lifestyle<br>intervention |  |  |
|-----------------------------|---|---|--|--|
| Subject group type          | Reporting group                                 | Reporting group   |  |  |
| Number of subjects analysed | 371   | 409   |  |  |
| Units: Participants         |   |   |  |  |
| Week 1                      | 2   | 1   |  |  |
| Week 2                      | 11  | 3   |  |  |
| Week 3                      | 50  | 56  |  |  |
| Week 4                      | 108   | 135   |  |  |
| Week 8                      | 239   | 265   |  |  |
| Week 12                     | 241   | 276   |  |  |
| Week 16                     | 287   | 332   |  |  |
| Week 20                     | 290   | 333   |  |  |
| Week 24                     | 285   | 333   |  |  |
| Week 28                     | 286   | 335   |  |  |

## Statistical analyses

|   |   |
|---|---|
| <b>Statistical analysis title</b>   | PASI 75 at Week 28  |
| Statistical analysis description:<br>Comparison of mean change between treatments in PASI 75 at Week 28 |   |
| Comparison groups   | Secukinumab 300 mg subcutaneous (s.c.) v Secukinumab 300 mg s.c. and lifestyle intervention |
| Number of subjects included in analysis   | 780   |
| Analysis specification  | Pre-specified   |
| Analysis type   |   |
| P-value   | = 0.03  |
| Method  | Regression, Logistic  |
| Parameter estimate  | Odds ratio (OR)   |
| Point estimate  | 1.8   |
| Confidence interval   |   |
| level   | 95 %  |
| sides   | 2-sided   |
| lower limit   | 1.06  |
| upper limit   | 3.06  |

## Secondary: Percentage of patients achieving Psoriasis Area and Severity Index (PASI) Score of 90 over time

|   |   |
|---|---|
| End point title   | Percentage of patients achieving Psoriasis Area and Severity Index (PASI) Score of 90 over time |
| End point description:<br>The Psoriasis Area and Severity Index (PASI) is a combined assessment of lesion severity and affected area into a single score: 0 (no disease) to 72 (maximal disease). Body is divided into 4 areas for scoring (head, trunk, upper limbs, lower limbs); each area is scored by itself and scores are combined for final PASI. For each area, percent of skin involved is estimated: 0 (0%) to 6 (90-100%), and severity is estimated by clinical signs, erythema, induration and desquamation; scale 0 (none) to 4 (maximum). Final PASI = sum of severity parameters for each area * area score weight of section (head: 0.1, arms: 0.2 body: 0.3 legs: 0.4).<br>PASI 90 represents patients achieving ≥ 90% improvement (reduction) in PASI score compared to Baseline. |   |
| End point type  | Secondary   |
| End point timeframe:<br>Baseline, Week 1, Week 2, Week 3, Week 4, Week 8, Week 12, Week 16, Week 20, Week 24, Week 28   |   |



| End point values            | Secukinumab<br>300 mg<br>subcutaneous<br>(s.c.) | Secukinumab<br>300 mg s.c.<br>and lifestyle<br>intervention |  |  |
|-----------------------------|---|---|--|--|
| Subject group type          | Reporting group                                 | Reporting group   |  |  |
| Number of subjects analysed | 371   | 409   |  |  |
| Units: Participants         |   |   |  |  |
| Week 1                      | 0   | 0   |  |  |
| Week 2                      | 2   | 0   |  |  |
| Week 3                      | 7   | 4   |  |  |
| Week 4                      | 25  | 30  |  |  |
| Week 8                      | 130   | 141   |  |  |
| Week 12                     | 159   | 182   |  |  |
| Week 16                     | 215   | 241   |  |  |
| Week 20                     | 217   | 242   |  |  |
| Week 24                     | 224   | 251   |  |  |
| Week 28                     | 219   | 261   |  |  |

## Statistical analyses

No statistical analyses for this end point

## Secondary: Percentage of patients achieving Psoriasis Area and Severity Index (PASI) Score of 100 over time

|                 |  |
|-----------------|--|
| End point title | Percentage of patients achieving Psoriasis Area and Severity Index (PASI) Score of 100 over time |
|-----------------|--|

End point description:

The Psoriasis Area and Severity Index (PASI) is a combined assessment of lesion severity and affected area into a single score: 0 (no disease) to 72 (maximal disease). Body is divided into 4 areas for scoring (head, trunk, upper limbs, lower limbs); each area is scored by itself and scores are combined for final PASI. For each area, percent of skin involved is estimated: 0 (0%) to 6 (90-100%), and severity is estimated by clinical signs, erythema, induration and desquamation; scale 0 (none) to 4 (maximum). Final PASI = sum of severity parameters for each area \* area score weight of section (head: 0.1, arms: 0.2 body: 0.3 legs: 0.4). PASI 100 response/remission represents patients achieving complete clearing of psoriasis (PASI = 0) compared to Baseline.

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

End point timeframe:

Baseline, Week 1, Week 2, Week 3, Week 4, Week 8, Week 12, Week 16, Week 20, Week 24, Week 28

| End point values            | Secukinumab<br>300 mg<br>subcutaneous<br>(s.c.) | Secukinumab<br>300 mg s.c.<br>and lifestyle<br>intervention |  |  |
|-----------------------------|---|---|--|--|
| Subject group type          | Reporting group                                 | Reporting group   |  |  |
| Number of subjects analysed | 371   | 409   |  |  |
| Units: Participants         |   |   |  |  |
| Week 1                      | 0   | 0   |  |  |
| Week 2                      | 1   | 0   |  |  |
| Week 3                      | 1   | 0   |  |  |
| Week 4                      | 5   | 4   |  |  |

|         |     |     |  |  |
|---------|-----|-----|--|--|
| Week 8  | 35  | 39  |  |  |
| Week 12 | 48  | 71  |  |  |
| Week 16 | 82  | 115 |  |  |
| Week 20 | 100 | 108 |  |  |
| Week 24 | 101 | 115 |  |  |
| Week 28 | 105 | 118 |  |  |

## Statistical analyses

|   |   |
|---|---|
| <b>Statistical analysis title</b>                                   | PASI 100 at Week 28   |
| Statistical analysis description:                                   |   |
| Comparison of mean change between treatments in PASI 100 at Week 28 |   |
| Comparison groups   | Secukinumab 300 mg subcutaneous (s.c.) v Secukinumab 300 mg s.c. and lifestyle intervention |
| Number of subjects included in analysis                             | 780   |
| Analysis specification  | Pre-specified   |
| Analysis type   |   |
| P-value   | = 0.4351  |
| Method  | Regression, Logistic  |
| Parameter estimate  | Odds ratio (OR)   |
| Point estimate  | 0.87  |
| Confidence interval   |   |
| level   | 95 %  |
| sides   | 2-sided   |
| lower limit   | 0.61  |
| upper limit   | 1.24  |

## Secondary: Mean absolute Psoriasis Area and Severity Index (PASI) Score over time

|   |  |
|---|--|
| End point title   | Mean absolute Psoriasis Area and Severity Index (PASI) Score over time |
| End point description:  |  |
| <p>The Psoriasis Area and Severity Index (PASI) is a combined assessment of lesion severity and affected area into a single score: 0 (no disease) to 72 (maximal disease). Body is divided into 4 areas for scoring (head, trunk, upper limbs, lower limbs); each area is scored by itself and scores are combined for final PASI. For each area, percent of skin involved is estimated: 0 (0%) to 6 (90-100%), and severity is estimated by clinical signs, erythema, induration and desquamation; scale 0 (none) to 4 (maximum). Final PASI = sum of severity parameters for each area * area score weight of section (head: 0.1, arms: 0.2 body: 0.3 legs: 0.4).</p> <p>A negative change in absolute PASI score means that the severity of psoriasis has decreased, indicating an improvement in the patient's condition.</p> |  |
| End point type  | Secondary  |
| End point timeframe:  |  |
| Baseline, Week 1, Week 2, Week 3, Week 4, Week 8, Week 12, Week 16, Week 20, Week 24, Week 28   |  |

| <b>End point values</b>          | Secukinumab<br>300 mg<br>subcutaneous<br>(s.c.) | Secukinumab<br>300 mg s.c.<br>and lifestyle<br>intervention |  |  |
|----------------------------------|---|---|--|--|
| Subject group type               | Reporting group                                 | Reporting group   |  |  |
| Number of subjects analysed      | 371   | 409   |  |  |
| Units: Unit on a scale           |   |   |  |  |
| arithmetic mean (standard error) |   |   |  |  |
| Baseline (n= 371, 409)           | 19.8 (± 0.39)                                   | 19.7 (± 0.38)   |  |  |
| Week 1 (n= 365, 402)             | -2.8 (± 0.22)                                   | -2.9 (± 0.21)   |  |  |
| Week 2 (n= 361, 394)             | -6.6 (± 0.23)                                   | -6.9 (± 0.22)   |  |  |
| Week 3 (n= 362, 392)             | -9.9 (± 0.25)                                   | -10.1 (± 0.23)  |  |  |
| Week 4 (n= 364, 393)             | -12.0 (± 0.26)                                  | -12.4 (± 0.25)  |  |  |
| Week 8 (n= 360, 394)             | -15.5 (± 0.26)                                  | -15.5 (± 0.25)  |  |  |
| Week 12 (n= 309, 335)            | -16.6 (± 0.26)                                  | -16.9 (± 0.25)  |  |  |
| Week 16 (n= 354, 388)            | -17.2 (± 0.27)                                  | -17.3 (± 0.26)  |  |  |
| Week 20 (n= 346, 380)            | -17.4 (± 0.27)                                  | -17.5 (± 0.26)  |  |  |
| Week 24 (n= 337, 376)            | -17.4 (± 0.28)                                  | -17.6 (± 0.26)  |  |  |
| Week 28 (n= 334, 366)            | -17.3 (± 0.29)                                  | -17.6 (± 0.27)  |  |  |

## Statistical analyses

|   |   |
|---|---|
| <b>Statistical analysis title</b>                           | Absolute PASI Score at week 28  |
| Statistical analysis description:                           |   |
| Mean change from Baseline in absolute PASI Score at week 28 |   |
| Comparison groups   | Secukinumab 300 mg subcutaneous (s.c.) v Secukinumab 300 mg s.c. and lifestyle intervention |
| Number of subjects included in analysis                     | 780   |
| Analysis specification                                      | Pre-specified   |
| Analysis type   |   |
| P-value   | = 0.5443  |
| Method  | Mixed models analysis   |
| Parameter estimate  | least squares (LS) mean change  |
| Point estimate  | -0.2  |
| Confidence interval   |   |
| level   | 95 %  |
| sides   | 2-sided   |
| lower limit   | -1  |
| upper limit   | 0.5   |
| Variability estimate  | Standard error of the mean  |
| Dispersion value  | 0.38  |

## Secondary: Mean change from Baseline in high-sensitivity C-reactive Protein (hsCRP)

|                 |  |
|-----------------|--|
| End point title | Mean change from Baseline in high-sensitivity C-reactive Protein (hsCRP) |
|-----------------|--|

End point description:

High-sensitivity C-reactive Protein (hsCRP) was evaluated in both treatment arms throughout the duration of the core study and summarized using descriptive statistics.

|   |           |
|---|-----------|
| End point type  | Secondary |
| End point timeframe:  |           |
| Baseline, Week 2, Week 4, Week 8, Week 12, Week 16, Week 20, Week 24, Week 28 |           |

| End point values                         | Secukinumab<br>300 mg<br>subcutaneous<br>(s.c.) | Secukinumab<br>300 mg s.c.<br>and lifestyle<br>intervention |  |  |
|--|---|---|--|--|
| Subject group type                       | Reporting group                                 | Reporting group   |  |  |
| Number of subjects analysed              | 370   | 409   |  |  |
| Units: milligram/litre (mg/L)            |   |   |  |  |
| arithmetic mean (standard deviation)     |   |   |  |  |
| Baseline (n=370, 409)                    | 0.648 (±<br>0.7565)                             | 0.575 (±<br>0.6239)   |  |  |
| Change from BL @ Week 2 (n=354,<br>386)  | -0.087 (±<br>0.7242)                            | -0.124 (±<br>0.5178)  |  |  |
| Change from BL @ Week 4 (n=362,<br>392)  | -0.098 (±<br>0.6860)                            | -0.117 (±<br>0.5218)  |  |  |
| Change from BL @ Week 8 (n=357,<br>392)  | -0.117 (±<br>0.6797)                            | -0.092 (±<br>0.5733)  |  |  |
| Change from BL @ Week 12 (n=310,<br>334) | -0.069 (±<br>0.7539)                            | -0.078 (±<br>0.7599)  |  |  |
| Change from BL @ Week 16 (n=352,<br>387) | -0.100 (±<br>0.6654)                            | -0.116 (±<br>0.4679)  |  |  |
| Change from BL @ Week 20 (n=345,<br>378) | -0.074 (±<br>0.7019)                            | -0.113 (±<br>0.5109)  |  |  |
| Change from BL @ Week 24 (n=333,<br>373) | -0.087 (±<br>0.7964)                            | -0.097 (±<br>0.5783)  |  |  |
| Change from BL @ Week 28 (n=332,<br>362) | -0.101 (±<br>0.7694)                            | -0.141 (±<br>0.4254)  |  |  |

## Statistical analyses

|  |   |
|--|---|
| <b>Statistical analysis title</b>                                | hsCRP at week 28  |
| Statistical analysis description:                                |   |
| Comparison of mean change between treatments in hsCRP at week 28 |   |
| Comparison groups  | Secukinumab 300 mg subcutaneous (s.c.) v Secukinumab 300 mg s.c. and lifestyle intervention |
| Number of subjects included in analysis                          | 779   |
| Analysis specification   | Pre-specified   |
| Analysis type  |   |
| P-value  | = 0.0057  |
| Method   | Mixed models analysis   |
| Parameter estimate   | Comparison of mean change between treatm  |
| Point estimate   | -0.114  |
| Confidence interval  |   |
| level  | 95 %  |
| sides  | 2-sided   |
| lower limit  | -0.194  |
| upper limit  | -0.033  |

**Secondary: Mean change from Baseline in Hemoglobin A1c (HbA1c)**

|                 |   |
|-----------------|---|
| End point title | Mean change from Baseline in Hemoglobin A1c (HbA1c) |
|-----------------|---|

End point description:

Hemoglobin A1c (HbA1c) was evaluated in both treatment arms throughout the duration of the core study and summarized using descriptive statistics.

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

End point timeframe:

Baseline, Week 8, Week 16, Week 24, Week 28

| End point values                       | Secukinumab 300 mg subcutaneous (s.c.) | Secukinumab 300 mg s.c. and lifestyle intervention |  |  |
|--|--|--|--|--|
| Subject group type                     | Reporting group                        | Reporting group                                    |  |  |
| Number of subjects analysed            | 365                                    | 402  |  |  |
| Units: Percentage (%)                  |  |  |  |  |
| arithmetic mean (standard deviation)   |  |  |  |  |
| Baseline (n= 365, 402)                 | 5.69 (± 0.706)                         | 5.69 (± 0.694)                                     |  |  |
| Change from BL @ Week 8 (n=346, 378)   | 0.01 (± 0.293)                         | -0.07 (± 0.314)                                    |  |  |
| Change from BL @ Week 16 (n=346, 380)  | 0.03 (± 0.389)                         | -0.06 (± 0.342)                                    |  |  |
| Change from BL @ Week 24 (n=180, 180)) | 0.03 (± 0.388)                         | -0.04 (± 0.332)                                    |  |  |
| Change from BL @ Week 28 (n=317, 348)  | 0.03 (± 0.417)                         | -0.05 (± 0.353)                                    |  |  |

**Statistical analyses**

|                            |                  |
|----------------------------|------------------|
| Statistical analysis title | HbA1c at week 28 |
|----------------------------|------------------|

Statistical analysis description:

HbA1c - Comparison of mean change between treatments at week 28

|   |   |
|---|---|
| Comparison groups                       | Secukinumab 300 mg subcutaneous (s.c.) v Secukinumab 300 mg s.c. and lifestyle intervention |
| Number of subjects included in analysis | 767   |
| Analysis specification                  | Pre-specified   |
| Analysis type                           |   |
| P-value                                 | = 0.0012  |
| Method                                  | Mixed models analysis   |
| Parameter estimate                      | least squares (LS) mean change  |
| Point estimate                          | -0.09   |
| Confidence interval                     |   |
| level                                   | 95 %  |
| sides                                   | 2-sided   |
| lower limit                             | -0.14   |
| upper limit                             | -0.04   |

|                      |                            |
|----------------------|----------------------------|
| Variability estimate | Standard error of the mean |
| Dispersion value     | 0.027                      |

### Secondary: Mean change from Baseline in Fructosamine

|  |   |
|--|---|
| End point title  | Mean change from Baseline in Fructosamine |
| End point description:<br>Fructosamine was evaluated in both treatment arms throughout the duration of the core study and summarized using descriptive statistics. |   |
| End point type   | Secondary                                 |
| End point timeframe:<br>Baseline, Week 4, Week 8, Week 12, Week 16, Week 20, Week 24, Week 28  |   |

| End point values                      | Secukinumab 300 mg subcutaneous (s.c.) | Secukinumab 300 mg s.c. and lifestyle intervention |  |  |
|---------------------------------------|--|--|--|--|
| Subject group type                    | Reporting group                        | Reporting group                                    |  |  |
| Number of subjects analysed           | 365                                    | 402  |  |  |
| Units: micromole/liter (µmol/L)       |  |  |  |  |
| arithmetic mean (standard deviation)  |  |  |  |  |
| Baseline (n=365, 402)                 | 270.1 (± 61.62)                        | 266.7 (± 61.91)                                    |  |  |
| Change from BL @ Week 4 (n=127, 135)  | -1.0 (± 43.96)                         | -9.6 (± 43.23)                                     |  |  |
| Change from BL @ Week 8 (n=349, 378)  | -2.4 (± 41.24)                         | -4.2 (± 48.95)                                     |  |  |
| Change from BL @ Week 12 (n=137, 135) | 6.6 (± 45.84)                          | -6.4 (± 39.15)                                     |  |  |
| Change from BL @ Week 16 (n=346, 381) | 0.8 (± 45.17)                          | -0.4 (± 48.15)                                     |  |  |
| Change from BL @ Week 20 (n=157, 154) | -0.6 (± 46.43)                         | -6.4 (± 56.76)                                     |  |  |
| Change from BL @ Week 24 (n=177, 179) | 0.6 (± 44.51)                          | 3.9 (± 51.88)                                      |  |  |
| Change from BL @ Week 28 (n=317, 347) | 2.3 (± 47.29)                          | 1.7 (± 48.00)                                      |  |  |

### Statistical analyses

|   |   |
|---|---|
| Statistical analysis title  | Fructosamine at week 28   |
| Statistical analysis description:<br>Fructosamine - Comparison of mean change between treatments at week 28 |   |
| Comparison groups   | Secukinumab 300 mg subcutaneous (s.c.) v Secukinumab 300 mg s.c. and lifestyle intervention |

|   |                                |
|---|--------------------------------|
| Number of subjects included in analysis | 767                            |
| Analysis specification                  | Pre-specified                  |
| Analysis type                           |                                |
| P-value                                 | = 0.9835                       |
| Method                                  | Mixed models analysis          |
| Parameter estimate                      | least squares (LS) mean change |
| Point estimate                          | -0.1                           |
| Confidence interval                     |                                |
| level                                   | 95 %                           |
| sides                                   | 2-sided                        |
| lower limit                             | -6.4                           |
| upper limit                             | 6.3                            |
| Variability estimate                    | Standard error of the mean     |
| Dispersion value                        | 3.23                           |

### Secondary: Mean change from Baseline in Fasting Plasma Glucose (FPG)

|  |   |
|--|---|
| End point title  | Mean change from Baseline in Fasting Plasma Glucose (FPG) |
| End point description:   |   |
| Fasting Plasma Glucose (FPG) was evaluated in both treatment arms throughout the duration of the core study and summarized using descriptive statistics. |   |
| End point type   | Secondary   |
| End point timeframe:   |   |
| Baseline, Week 8, Week 16, Week 28   |   |

| End point values                       | Secukinumab<br>300 mg<br>subcutaneous<br>(s.c.) | Secukinumab<br>300 mg s.c.<br>and lifestyle<br>intervention |  |  |
|--|---|---|--|--|
| Subject group type                     | Reporting group                                 | Reporting group   |  |  |
| Number of subjects analysed            | 366   | 402   |  |  |
| Units: milligram per deciliter (mg/dL) |   |   |  |  |
| arithmetic mean (standard deviation)   |   |   |  |  |
| Baseline (n=366, 402)                  | 102.8 (± 23.35)                                 | 103.1 (± 25.61)   |  |  |
| Change from BL @ Week 8 (n=347, 375)   | 0.8 (± 17.14)                                   | -1.7 (± 16.71)  |  |  |
| Change from BL @ Week 16 (n=343, 377)  | 1.9 (± 20.51)                                   | -2.1 (± 16.26)  |  |  |
| Change from BL @ Week 28 (n=320, 347)  | 2.9 (± 22.29)                                   | -0.5 (± 18.60)  |  |  |

### Statistical analyses

|   |                |
|---|----------------|
| Statistical analysis title                                    | FPG at week 28 |
| Statistical analysis description:                             |                |
| FPG - Comparison of mean change between treatments at week 28 |                |

|   |   |
|---|---|
| Comparison groups                       | Secukinumab 300 mg subcutaneous (s.c.) v Secukinumab 300 mg s.c. and lifestyle intervention |
| Number of subjects included in analysis | 768   |
| Analysis specification                  | Pre-specified   |
| Analysis type                           |   |
| P-value                                 | = 0.0086  |
| Method                                  | Mixed models analysis   |
| Parameter estimate                      | least squares (LS) mean change  |
| Point estimate                          | -3.5  |
| Confidence interval                     |   |
| level                                   | 95 %  |
| sides                                   | 2-sided   |
| lower limit                             | -6.2  |
| upper limit                             | -0.9  |
| Variability estimate                    | Standard error of the mean  |
| Dispersion value                        | 1.35  |

### Secondary: Mean change from Baseline in Low-Density Lipoprotein (LDL)

|   |  |
|---|--|
| End point title   | Mean change from Baseline in Low-Density Lipoprotein (LDL) |
| End point description:<br>Low-Density Lipoprotein (LDL) was evaluated in both treatment arms throughout the duration of the core study and summarized using descriptive statistics. |  |
| End point type  | Secondary  |
| End point timeframe:<br>Baseline, Week 8, Week 16, Week 28  |  |

| End point values                       | Secukinumab 300 mg subcutaneous (s.c.) | Secukinumab 300 mg s.c. and lifestyle intervention |  |  |
|--|--|--|--|--|
| Subject group type                     | Reporting group                        | Reporting group                                    |  |  |
| Number of subjects analysed            | 370                                    | 409  |  |  |
| Units: milligram per deciliter (mg/dL) |  |  |  |  |
| arithmetic mean (standard deviation)   |  |  |  |  |
| Baseline (n=370, 409)                  | 136.6 (± 39.98)                        | 143.3 (± 39.39)                                    |  |  |
| Change from BL @ Week 8 (n=355, 394)   | 1.6 (± 21.53)                          | -2.2 (± 22.00)                                     |  |  |
| Change from BL @ Week 16 (n=350, 386)  | -1.4 (± 22.67)                         | -0.9 (± 24.14)                                     |  |  |
| Change from BL @ Week 28 (n=332, 359)  | 1.9 (± 25.57)                          | -1.2 (± 25.10)                                     |  |  |

### Statistical analyses



|   |   |
|---|---|
| <b>Statistical analysis title</b>                             | LDL at week 28  |
| Statistical analysis description:                             |   |
| LDL - Comparison of mean change between treatments at week 28 |   |
| Comparison groups   | Secukinumab 300 mg subcutaneous (s.c.) v Secukinumab 300 mg s.c. and lifestyle intervention |
| Number of subjects included in analysis                       | 779   |
| Analysis specification  | Pre-specified   |
| Analysis type   |   |
| P-value   | = 0.1298  |
| Method  | Mixed models analysis   |
| Parameter estimate  | least squares (LS) mean change  |
| Point estimate  | -2.8  |
| Confidence interval   |   |
| level   | 95 %  |
| sides   | 2-sided   |
| lower limit   | -6.5  |
| upper limit   | 0.8   |
| Variability estimate  | Standard error of the mean  |
| Dispersion value  | 1.86  |

## Secondary: Mean change from Baseline in Total cholesterol

|   |  |
|---|--|
| End point title   | Mean change from Baseline in Total cholesterol |
| End point description:  |  |
| Total cholesterol was evaluated in both treatment arms throughout the duration of the core study and summarized using descriptive statistics. |  |
| End point type  | Secondary                                      |
| End point timeframe:  |  |
| Baseline, Week 8, Week 16, Week 28  |  |

| End point values                       | Secukinumab 300 mg subcutaneous (s.c.) | Secukinumab 300 mg s.c. and lifestyle intervention |  |  |
|--|--|--|--|--|
| Subject group type                     | Reporting group                        | Reporting group                                    |  |  |
| Number of subjects analysed            | 370                                    | 409  |  |  |
| Units: milligram per deciliter (mg/dL) |  |  |  |  |
| arithmetic mean (standard deviation)   |  |  |  |  |
| Baseline (n=370, 409)                  | 203.4 (± 42.38)                        | 208.2 (± 41.61)                                    |  |  |
| Change from BL @ Week 8 (n=355, 394)   | 1.9 (± 26.75)                          | -2.5 (± 24.84)                                     |  |  |
| Change from BL @ Week 16 (n=350, 386)  | -0.2 (± 25.33)                         | -1.3 (± 25.30)                                     |  |  |
| Change from BL @ Week 28 (n=332, 359)  | -0.4 (± 30.13)                         | -3.1 (± 25.45)                                     |  |  |

## Statistical analyses

|   |   |
|---|---|
| <b>Statistical analysis title</b>   | Total cholesterol at week 28  |
| Statistical analysis description:   |   |
| Total cholesterol - Comparison of mean change between treatments at week 28 |   |
| Comparison groups   | Secukinumab 300 mg subcutaneous (s.c.) v Secukinumab 300 mg s.c. and lifestyle intervention |
| Number of subjects included in analysis                                     | 779   |
| Analysis specification  | Pre-specified   |
| Analysis type   |   |
| P-value   | = 0.2755  |
| Method  | Mixed models analysis   |
| Parameter estimate  | least squares (LS) mean change  |
| Point estimate  | -2.3  |
| Confidence interval   |   |
| level   | 95 %  |
| sides   | 2-sided   |
| lower limit   | -6.4  |
| upper limit   | 1.8   |
| Variability estimate  | Standard error of the mean  |
| Dispersion value  | 2.08  |

## Secondary: Mean change from Baseline in High-Density Lipoprotein (HDL)

|  |   |
|--|---|
| End point title  | Mean change from Baseline in High-Density Lipoprotein (HDL) |
| End point description:   |   |
| High-Density Lipoprotein (HDL) was evaluated in both treatment arms throughout the duration of the core study and summarized using descriptive statistics. |   |
| End point type   | Secondary   |
| End point timeframe:   |   |
| Baseline, Week 8, Week 16, Week 28   |   |

| End point values                       | Secukinumab 300 mg subcutaneous (s.c.) | Secukinumab 300 mg s.c. and lifestyle intervention |  |  |
|--|--|--|--|--|
| Subject group type                     | Reporting group                        | Reporting group                                    |  |  |
| Number of subjects analysed            | 370                                    | 409  |  |  |
| Units: milligram per deciliter (mg/dL) |  |  |  |  |
| arithmetic mean (standard deviation)   |  |  |  |  |
| Baseline (n=370, 409)                  | 45.5 (± 11.81)                         | 46.1 (± 10.62)                                     |  |  |
| Change from BL @ Week 8 (n=355, 394)   | -0.5 (± 5.29)                          | -1.0 (± 6.20)                                      |  |  |
| Change from BL @ Week 16 (n=350, 386)  | -0.8 (± 5.92)                          | 0.0 (± 6.69)                                       |  |  |
| Change from BL @ Week 28 (n=332, 359)  | 0.0 (± 6.91)                           | 0.5 (± 7.29)                                       |  |  |

## Statistical analyses

|  |   |
|--|---|
| <b>Statistical analysis title</b>  | HDL at week 28  |
| Statistical analysis description:<br>HDL - Comparison of mean change between treatments at week 28 |   |
| Comparison groups  | Secukinumab 300 mg subcutaneous (s.c.) v Secukinumab 300 mg s.c. and lifestyle intervention |
| Number of subjects included in analysis  | 779   |
| Analysis specification   | Pre-specified   |
| Analysis type  |   |
| P-value  | = 0.2084  |
| Method   | Mixed models analysis   |
| Parameter estimate   | least squares (LS) mean change  |
| Point estimate   | 0.7   |
| Confidence interval  |   |
| level  | 95 %  |
| sides  | 2-sided   |
| lower limit  | -0.4  |
| upper limit  | 1.7   |
| Variability estimate   | Standard error of the mean  |
| Dispersion value   | 0.53  |

## Secondary: Mean change from Baseline in Triglycerides

|  |  |
|--|--|
| End point title  | Mean change from Baseline in Triglycerides |
| End point description:<br>Triglycerides were evaluated in both treatment arms throughout the duration of the core study and summarized using descriptive statistics. |  |
| End point type   | Secondary                                  |
| End point timeframe:<br>Baseline, Week 8, Week 16, Week 28   |  |

|  |  |  |  |  |
|--|--|--|--|--|
| <b>End point values</b>                | Secukinumab 300 mg subcutaneous (s.c.) | Secukinumab 300 mg s.c. and lifestyle intervention |  |  |
| Subject group type                     | Reporting group                        | Reporting group                                    |  |  |
| Number of subjects analysed            | 370                                    | 409  |  |  |
| Units: milligram per deciliter (mg/dL) |  |  |  |  |
| arithmetic mean (standard deviation)   |  |  |  |  |
| Baseline (n=370, 409)                  | 210.4 (± 169.58)                       | 195.8 (± 126.83)                                   |  |  |

|                                       |                 |                 |  |  |
|---------------------------------------|-----------------|-----------------|--|--|
| Change from BL @ Week 8 (n=355, 394)  | 2.5 (± 100.55)  | -2.7 (± 100.29) |  |  |
| Change from BL @ Week 16 (n=350, 386) | 11.0 (± 146.64) | -1.7 (± 111.36) |  |  |
| Change from BL @ Week 28 (n=332, 359) | -5.9 (± 187.93) | -6.3 (± 98.69)  |  |  |

## Statistical analyses

|  |   |
|--|---|
| <b>Statistical analysis title</b>                              | TRIG at week 28   |
| Statistical analysis description:                              |   |
| TRIG - Comparison of mean change between treatments at week 28 |   |
| Comparison groups  | Secukinumab 300 mg subcutaneous (s.c.) v Secukinumab 300 mg s.c. and lifestyle intervention |
| Number of subjects included in analysis                        | 779   |
| Analysis specification   | Pre-specified   |
| Analysis type  |   |
| P-value  | = 0.5187  |
| Method   | Mixed models analysis   |
| Parameter estimate   | least squares (LS) mean change  |
| Point estimate   | -5.8  |
| Confidence interval  |   |
| level  | 95 %  |
| sides  | 2-sided   |
| lower limit  | -23.3   |
| upper limit  | 11.7  |
| Variability estimate   | Standard error of the mean  |
| Dispersion value   | 8.92  |

## Secondary: Mean change from Baseline in Waist circumference

|   |  |
|---|--|
| End point title   | Mean change from Baseline in Waist circumference |
| End point description:  |  |
| Waist circumference was evaluated in both treatment arms throughout the duration of the core study and summarized using descriptive statistics. |  |
| End point type  | Secondary  |
| End point timeframe:  |  |
| Baseline, Week 1, Week 2, Week 3, Week 4, Week 8, Week 12, Week 16, Week 20, Week 24, Week 28   |  |

|                                      |  |  |  |  |
|--------------------------------------|--|--|--|--|
| <b>End point values</b>              | Secukinumab 300 mg subcutaneous (s.c.) | Secukinumab 300 mg s.c. and lifestyle intervention |  |  |
| Subject group type                   | Reporting group                        | Reporting group                                    |  |  |
| Number of subjects analysed          | 371                                    | 409  |  |  |
| Units: Centimeter (cm)               |  |  |  |  |
| arithmetic mean (standard deviation) |  |  |  |  |

|                                       |                 |                 |  |  |
|---------------------------------------|-----------------|-----------------|--|--|
| Baseline (n=371, 409)                 | 115.3 (± 15.10) | 114.9 (± 13.99) |  |  |
| Change from BL @ Week 1 (n=365, 402)  | -0.5 (± 2.97)   | -0.3 (± 3.41)   |  |  |
| Change from BL @ Week 2 (n=361, 393)  | -0.7 (± 3.74)   | -1.1 (± 4.30)   |  |  |
| Change from BL @ Week 3 (n=362, 391)  | -0.8 (± 3.66)   | -1.3 (± 4.71)   |  |  |
| Change from BL @ Week 4 (n=363, 393)  | -0.9 (± 3.92)   | -2.0 (± 4.54)   |  |  |
| Change from BL @ Week 8 (n=359, 394)  | -1.2 (± 4.53)   | -2.6 (± 5.34)   |  |  |
| Change from BL @ Week 12 (n=309, 335) | -1.1 (± 4.43)   | -2.9 (± 5.68)   |  |  |
| Change from BL @ Week 16 (n=353, 388) | -1.4 (± 5.22)   | -3.5 (± 6.09)   |  |  |
| Change from BL @ Week 20 (n=346, 381) | -1.3 (± 5.47)   | -3.5 (± 6.09)   |  |  |
| Change from BL @ Week 24 (n=337, 375) | -1.4 (± 5.34)   | -3.7 (± 6.72)   |  |  |
| Change from BL @ Week 28 (n=331, 366) | -1.5 (± 5.50)   | -3.9 (± 7.04)   |  |  |

## Statistical analyses

|   |   |
|---|---|
| <b>Statistical analysis title</b>   | Waist circumference at week 28  |
| Statistical analysis description:   |   |
| Waist circumference - Comparison of mean change between treatments at week 28 |   |
| Comparison groups   | Secukinumab 300 mg subcutaneous (s.c.) v Secukinumab 300 mg s.c. and lifestyle intervention |
| Number of subjects included in analysis                                       | 780   |
| Analysis specification  | Pre-specified   |
| Analysis type   |   |
| P-value   | < 0.0001  |
| Method  | Mixed models analysis   |
| Parameter estimate  | least squares (LS) mean change  |
| Point estimate  | -2.7  |
| Confidence interval   |   |
| level   | 95 %  |
| sides   | 2-sided   |
| lower limit   | -3.6  |
| upper limit   | -1.8  |
| Variability estimate  | Standard error of the mean  |
| Dispersion value  | 0.47  |

## Secondary: Mean change from Baseline in Body weight

|   |  |
|---|--|
| End point title   | Mean change from Baseline in Body weight |
| End point description:  |  |
| Body weight was evaluated in both treatment arms throughout the duration of the core study and summarized using descriptive statistics. |  |
| End point type  | Secondary                                |

End point timeframe:

Baseline, Week 1, Week 2, Week 3, Week 4, Week 8, Week 12, Week 16, Week 20, Week 24, Week 28

| <b>End point values</b>                  | Secukinumab<br>300 mg<br>subcutaneous<br>(s.c.) | Secukinumab<br>300 mg s.c.<br>and lifestyle<br>intervention |  |  |
|--|---|---|--|--|
| Subject group type                       | Reporting group                                 | Reporting group   |  |  |
| Number of subjects analysed              | 371   | 409   |  |  |
| Units: Kilogram (kg)                     |   |   |  |  |
| arithmetic mean (standard deviation)     |   |   |  |  |
| Baseline (n=371, 409)                    | 107.16 (±<br>22.624)                            | 107.9 (±<br>20.765)   |  |  |
| Change from BL @ Week 1 (n=365,<br>402)  | 0.06 (± 2.120)                                  | -0.33 (±<br>1.401)  |  |  |
| Change from BL @ Week 2 (n=361,<br>394)  | -0.04 (±<br>1.729)                              | -0.75 (±<br>1.739)  |  |  |
| Change from BL @ Week 3 (n=362,<br>392)  | -0.05 (±<br>2.189)                              | -1.08 (±<br>2.278)  |  |  |
| Change from BL @ Week 4 (n=363,<br>394)  | -0.08 (±<br>2.326)                              | -1.20 (±<br>2.177)  |  |  |
| Change from BL @ Week 8 (n=360,<br>393)  | -0.15 (±<br>2.447)                              | -1.84 (±<br>3.471)  |  |  |
| Change from BL @ Week 12 (n=310,<br>335) | 0.02 (± 2.726)                                  | -2.38 (±<br>4.150)  |  |  |
| Change from BL @ Week 16 (n=355,<br>388) | -0.21 (±<br>3.243)                              | -2.65 (±<br>4.892)  |  |  |
| Change from BL @ Week 20 (n=346,<br>381) | -0.36 (±<br>3.581)                              | -2.72 (±<br>5.480)  |  |  |
| Change from BL @ Week 24 (n=337,<br>376) | -0.30 (±<br>3.815)                              | -2.86 (±<br>6.056)  |  |  |
| Change from BL @ Week 28 (n=334,<br>366) | -0.17 (±<br>3.803)                              | -3.03 (±<br>6.107)  |  |  |

## Statistical analyses

|   |   |
|---|---|
| <b>Statistical analysis title</b>                                     | Body weight at week 28  |
| Statistical analysis description:                                     |   |
| Body weight - Comparison of mean change between treatments at week 28 |   |
| Comparison groups   | Secukinumab 300 mg subcutaneous (s.c.) v Secukinumab 300 mg s.c. and lifestyle intervention |
| Number of subjects included in analysis                               | 780   |
| Analysis specification  | Pre-specified   |
| Analysis type   |   |
| P-value   | < 0.0001  |
| Method  | Mixed models analysis   |
| Parameter estimate  | least squares (LS) mean change  |
| Point estimate  | -2.85   |

|                      |                            |
|----------------------|----------------------------|
| Confidence interval  |                            |
| level                | 95 %                       |
| sides                | 2-sided                    |
| lower limit          | -3.61                      |
| upper limit          | -2.09                      |
| Variability estimate | Standard error of the mean |
| Dispersion value     | 0.385                      |

### Secondary: Mean change from Baseline in Body Mass Index (BMI)

|   |  |
|---|--|
| End point title   | Mean change from Baseline in Body Mass Index (BMI) |
| End point description:  |  |
| Body Mass Index (BMI) was evaluated in both treatment arms throughout the duration of the core study and summarized using descriptive statistics. |  |
| End point type  | Secondary  |
| End point timeframe:  |  |
| Baseline, Week 1, Week 2, Week 3, Week 4, Week 8, Week 12, Week 16, Week 20, Week 24, Week 28   |  |

| End point values  | Secukinumab<br>300 mg<br>subcutaneous<br>(s.c.) | Secukinumab<br>300 mg s.c.<br>and lifestyle<br>intervention |  |  |
|---|---|---|--|--|
| Subject group type                                      | Reporting group                                 | Reporting group   |  |  |
| Number of subjects analysed                             | 371   | 409   |  |  |
| Units: Kilogram by square meter<br>(kg/m <sup>2</sup> ) |   |   |  |  |
| arithmetic mean (standard deviation)                    |   |   |  |  |
| Baseline (n=371, 409)                                   | 34.788 (±<br>6.8112)                            | 34.631 (±<br>6.4232)  |  |  |
| Change from BL @ Week 1 (n=365,<br>402)                 | 0.015 (±<br>0.6846)                             | -0.110 (±<br>0.4515)  |  |  |
| Change from BL @ Week 2 (n=361,<br>394)                 | -0.015 (±<br>0.5545)                            | -0.240 (±<br>0.5649)  |  |  |
| Change from BL @ Week 3 (n=362,<br>392)                 | -0.014 (±<br>0.7076)                            | -0.346 (±<br>0.7352)  |  |  |
| Change from BL @ Week 4 (n=363,<br>394)                 | -0.027 (±<br>0.7451)                            | -0.386 (±<br>0.7128)  |  |  |
| Change from BL @ Week 8 (n=360,<br>393)                 | -0.047 (±<br>0.7838)                            | -0.582 (±<br>1.1641)  |  |  |
| Change from BL @ Week 12 (n=310,<br>335)                | 0.009 (±<br>0.8768)                             | -0.758 (±<br>1.3522)  |  |  |
| Change from BL @ Week 16 (n=355,<br>388)                | -0.070 (±<br>1.0432)                            | -0.843 (±<br>1.5780)  |  |  |
| Change from BL @ Week 20 (n=346,<br>381)                | -0.113 (±<br>1.1627)                            | -0.864 (±<br>1.7769)  |  |  |
| Change from BL @ Week 24 (n=337,<br>376)                | -0.094 (±<br>1.2417)                            | -0.906 (±<br>1.9591)  |  |  |
| Change from BL @ Week 28 (n=334,<br>366)                | -0.054 (±<br>1.2309)                            | -0.961 (±<br>1.9665)  |  |  |

## Statistical analyses

| Statistical analysis title                                    | BMI at week 28  |
|---|---|
| Statistical analysis description:                             |   |
| BMI - Comparison of mean change between treatments at week 28 |   |
| Comparison groups   | Secukinumab 300 mg subcutaneous (s.c.) v Secukinumab 300 mg s.c. and lifestyle intervention |
| Number of subjects included in analysis                       | 780   |
| Analysis specification  | Pre-specified   |
| Analysis type   |   |
| P-value   | < 0.0001  |
| Method  | Mixed models analysis   |
| Parameter estimate  | least squares (LS) mean change  |
| Point estimate  | -0.907  |
| Confidence interval   |   |
| level   | 95 %  |
| sides   | 2-sided   |
| lower limit   | -1.151  |
| upper limit   | -0.663  |
| Variability estimate  | Standard error of the mean  |
| Dispersion value  | 0.1243  |

## Secondary: Mean change from Baseline in Systolic Blood Pressure

|   |  |
|---|--|
| End point title   | Mean change from Baseline in Systolic Blood Pressure |
| End point description:  |  |
| Systolic Blood Pressure was evaluated in both treatment arms throughout the duration of the core study and summarized using descriptive statistics. |  |
| End point type  | Secondary  |
| End point timeframe:  |  |
| Baseline, Week 1, Week 2, Week 3, Week 4, Week 8, Week 12, Week 16, Week 20, Week 24, Week 28   |  |

| End point values                     | Secukinumab 300 mg subcutaneous (s.c.) | Secukinumab 300 mg s.c. and lifestyle intervention |  |  |
|--------------------------------------|--|--|--|--|
| Subject group type                   | Reporting group                        | Reporting group                                    |  |  |
| Number of subjects analysed          | 371                                    | 409  |  |  |
| Units: millimeter of mercury (mmHg)  |  |  |  |  |
| arithmetic mean (standard deviation) |  |  |  |  |
| Baseline (n=371, 409)                | 139.44 (± 11.703)                      | 139.19 (± 11.711)                                  |  |  |
| Change from BL @ Week 1 (n=365, 402) | -0.66 (± 10.033)                       | -1.44 (± 10.964)                                   |  |  |
| Change from BL @ Week 2 (n=361, 394) | -1.24 (± 11.499)                       | -3.12 (± 11.422)                                   |  |  |
| Change from BL @ Week 3 (n=362, 392) | -1.05 (± 11.086)                       | -3.67 (± 12.740)                                   |  |  |
| Change from BL @ Week 4 (n=362, 394) | -3.02 (± 10.693)                       | -4.33 (± 11.763)                                   |  |  |



|                                       |                  |                  |  |  |
|---------------------------------------|------------------|------------------|--|--|
| Change from BL @ Week 8 (n=360, 394)  | -2.52 (± 12.394) | -3.88 (± 12.545) |  |  |
| Change from BL @ Week 12 (n=310, 335) | -1.64 (± 12.054) | -3.65 (± 12.982) |  |  |
| Change from BL @ Week 16 (n=354, 388) | -3.03 (± 12.646) | -4.33 (± 12.980) |  |  |
| Change from BL @ Week 20 (n=346, 381) | -1.65 (± 12.067) | -3.70 (± 13.323) |  |  |
| Change from BL @ Week 24 (n=337, 376) | -2.53 (± 12.681) | -4.35 (± 13.455) |  |  |
| Change from BL @ Week 28 (n=334, 366) | -2.56 (± 12.179) | -4.28 (± 13.475) |  |  |

## Statistical analyses

|   |   |
|---|---|
| <b>Statistical analysis title</b>                               | SYSBP at week 28  |
| Statistical analysis description:                               |   |
| SYSBP - Comparison of mean change between treatments at week 28 |   |
| Comparison groups   | Secukinumab 300 mg subcutaneous (s.c.) v Secukinumab 300 mg s.c. and lifestyle intervention |
| Number of subjects included in analysis                         | 780   |
| Analysis specification  | Pre-specified   |
| Analysis type   |   |
| P-value   | = 0.0204  |
| Method  | Mixed models analysis   |
| Parameter estimate  | least squares (LS) mean change  |
| Point estimate  | -2  |
| Confidence interval   |   |
| level   | 95 %  |
| sides   | 2-sided   |
| lower limit   | -3.7  |
| upper limit   | -0.3  |
| Variability estimate  | Standard error of the mean  |
| Dispersion value  | 0.87  |

## Secondary: Mean change from Baseline in Diastolic Blood Pressure

|  |   |
|--|---|
| End point title  | Mean change from Baseline in Diastolic Blood Pressure |
| End point description:   |   |
| Diastolic Blood Pressure was evaluated in both treatment arms throughout the duration of the core study and summarized using descriptive statistics. |   |
| End point type   | Secondary   |
| End point timeframe:   |   |
| Baseline, Week 1, Week 2, Week 3, Week 4, Week 8, Week 12, Week 16, Week 20, Week 24, Week 28  |   |

| <b>End point values</b>               | Secukinumab<br>300 mg<br>subcutaneous<br>(s.c.) | Secukinumab<br>300 mg s.c.<br>and lifestyle<br>intervention |  |  |
|---------------------------------------|---|---|--|--|
| Subject group type                    | Reporting group                                 | Reporting group   |  |  |
| Number of subjects analysed           | 371   | 409   |  |  |
| Units: millimeter of mercury (mmHg)   |   |   |  |  |
| arithmetic mean (standard deviation)  |   |   |  |  |
| Baseline (n=371, 409)                 | 86.44 (±<br>7.116)                              | 86.50 (±<br>7.305)  |  |  |
| Change from BL @ Week 1 (n=365, 402)  | -0.39 (±<br>6.761)                              | -1.02 (±<br>7.495)  |  |  |
| Change from BL @ Week 2 (n=361, 394)  | -0.65 (±<br>7.460)                              | -1.16 (±<br>7.630)  |  |  |
| Change from BL @ Week 3 (n=362, 392)  | -0.62 (±<br>7.180)                              | -1.66 (±<br>8.030)  |  |  |
| Change from BL @ Week 4 (n=362, 394)  | -1.29 (±<br>7.349)                              | -2.00 (±<br>7.925)  |  |  |
| Change from BL @ Week 8 (n=360, 394)  | -0.60 (±<br>7.510)                              | -1.51 (±<br>7.517)  |  |  |
| Change from BL @ Week 12 (n=310, 335) | -0.37 (±<br>7.820)                              | -1.56 (±<br>8.754)  |  |  |
| Change from BL @ Week 16 (n=354, 388) | -0.60 (±<br>7.969)                              | -1.99 (±<br>8.211)  |  |  |
| Change from BL @ Week 20 (n=346, 381) | -0.59 (±<br>8.040)                              | -2.28 (±<br>8.275)  |  |  |
| Change from BL @ Week 24 (n=337, 376) | -0.73 (±<br>8.270)                              | -2.04 (±<br>8.701)  |  |  |
| Change from BL @ Week 28 (n=334, 366) | -0.48 (±<br>8.417)                              | -1.65 (±<br>8.877)  |  |  |

## Statistical analyses

|   |   |
|---|---|
| <b>Statistical analysis title</b>                               | DIABP at week 28  |
| Statistical analysis description:                               |   |
| DIABP - Comparison of mean change between treatments at week 28 |   |
| Comparison groups   | Secukinumab 300 mg subcutaneous (s.c.) v Secukinumab 300 mg s.c. and lifestyle intervention |
| Number of subjects included in analysis                         | 780   |
| Analysis specification  | Pre-specified   |
| Analysis type   |   |
| P-value   | = 0.0652  |
| Method  | Mixed models analysis   |
| Parameter estimate  | least squares (LS) mean change  |
| Point estimate  | -1.1  |
| Confidence interval   |   |
| level   | 95 %  |
| sides   | 2-sided   |
| lower limit   | -2.2  |
| upper limit   | 0.1   |
| Variability estimate  | Standard error of the mean  |
| Dispersion value  | 0.58  |

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**Secondary: Dermatology Life Quality Index (DLQI) Total Score over time**

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|                 |   |
|-----------------|---|
| End point title | Dermatology Life Quality Index (DLQI) Total Score over time |
|-----------------|---|

End point description:

The Dermatology life Quality Index (DLQI) is a ten-question questionnaire used to measure the impact of skin disease on the quality of life of an affected person. Each question refers to the impact of the skin disease on the patient's life (symptoms, embarrassment, shopping and home care, clothes, social and leisure, sport, work or study, close relationships, sex, treatment) over the previous week and is scored from 0 to 3, giving a possible score range from 0 (meaning no impact of skin disease on quality of life) to 30 (meaning maximum impact on quality of life).

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

End point timeframe:

Baseline, Week 4, Week 8, Week 12, Week 16, Week 20, Week 24, Week 28

---

| End point values                     | Secukinumab<br>300 mg<br>subcutaneous<br>(s.c.) | Secukinumab<br>300 mg s.c.<br>and lifestyle<br>intervention |  |  |
|--------------------------------------|---|---|--|--|
| Subject group type                   | Reporting group                                 | Reporting group   |  |  |
| Number of subjects analysed          | 371   | 409   |  |  |
| Units: Unit on a scale               |   |   |  |  |
| arithmetic mean (standard deviation) |   |   |  |  |
| Baseline (n=371, 409)                | 19.55 (± 5.124)                                 | 19.12 (± 5.449)   |  |  |
| Week 4 (n=366, 394)                  | 8.57 (± 5.932)                                  | 7.92 (± 6.119)  |  |  |
| Week 8 (n=360, 395)                  | 5.47 (± 5.725)                                  | 5.18 (± 5.405)  |  |  |
| Week 12 (n= 309, 335)                | 4.29 (± 5.341)                                  | 4.16 (± 5.100)  |  |  |
| Week 16 (n= 354, 388)                | 3.90 (± 5.374)                                  | 3.73 (± 4.927)  |  |  |
| Week 20 (n= 346, 380)                | 3.43 (± 5.101)                                  | 3.43 (± 5.061)  |  |  |
| Week 24 (n=337, 378)                 | 3.42 (± 5.261)                                  | 3.33 (± 4.824)  |  |  |
| Week 28 (n=334, 366)                 | 3.42 (± 5.242)                                  | 3.30 (± 5.312)  |  |  |

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**Statistical analyses**

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No statistical analyses for this end point

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**Secondary: Mean change from Baseline in Dermatology Life Quality Index (DLQI) Total Score over time**

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|                 |  |
|-----------------|--|
| End point title | Mean change from Baseline in Dermatology Life Quality Index (DLQI) Total Score over time |
|-----------------|--|

End point description:

The Dermatology life Quality Index (DLQI) is a ten-question questionnaire used to measure the impact of skin disease on the quality of life of an affected person. Each question refers to the impact of the skin disease on the patient's life (symptoms, embarrassment, shopping and home care, clothes, social and leisure, sport, work or study, close relationships, sex, treatment) over the previous week and is scored from 0 to 3, giving a possible score range from 0 (meaning no impact of skin disease on quality of life) to 30 (meaning maximum impact on quality of life).

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

End point timeframe:

Baseline, Week 4, Week 8, Week 12, Week 16, Week 20, Week 24, Week 28

| End point values                      | Secukinumab<br>300 mg<br>subcutaneous<br>(s.c.) | Secukinumab<br>300 mg s.c.<br>and lifestyle<br>intervention |  |  |
|---------------------------------------|---|---|--|--|
| Subject group type                    | Reporting group                                 | Reporting group   |  |  |
| Number of subjects analysed           | 371   | 409   |  |  |
| Units: Unit on a scale                |   |   |  |  |
| arithmetic mean (standard deviation)  |   |   |  |  |
| Baseline (n=371, 409)                 | 19.5 (± 5.12)                                   | 19.1 (± 5.45)   |  |  |
| Change from BL @ Week 4 (n=366, 394)  | -11.0 (± 6.66)                                  | -11.3 (± 6.68)  |  |  |
| Change from BL @ Week 8 (n=360, 395)  | -14.1 (± 6.91)                                  | -14.1 (± 6.60)  |  |  |
| Change from BL @ Week 12 (n=309, 335) | -15.5 (± 6.68)                                  | -15.1 (± 6.51)  |  |  |
| Change from BL @ Week 16 (n=354, 388) | -15.7 (± 6.60)                                  | -15.4 (± 6.33)  |  |  |
| Change from BL @ Week 20 (n=346, 380) | -16.2 (± 6.81)                                  | -15.7 (± 6.66)  |  |  |
| Change from BL @ Week 24 (n=337, 378) | -16.1 (± 6.75)                                  | -15.8 (± 6.46)  |  |  |
| Change from BL @ Week 28 (n=334, 366) | -16.1 (± 6.80)                                  | -15.9 (± 6.67)  |  |  |

## Statistical analyses

| Statistical analysis title   | DLQI Total Score at Week 28   |
|--|---|
| Statistical analysis description:  |   |
| DLQI Total Score - Comparison of mean change between treatments at Week 28 |   |
| Comparison groups  | Secukinumab 300 mg subcutaneous (s.c.) v Secukinumab 300 mg s.c. and lifestyle intervention |
| Number of subjects included in analysis                                    | 780   |
| Analysis specification   | Pre-specified   |
| Analysis type  |   |
| P-value  | = 0.7733  |
| Method   | Mixed models analysis   |
| Parameter estimate   | least squares (LS) mean change  |
| Point estimate   | -0.12   |
| Confidence interval  |   |
| level  | 95 %  |
| sides  | 2-sided   |
| lower limit  | -0.9  |
| upper limit  | 0.7   |
| Variability estimate   | Standard error of the mean  |
| Dispersion value   | 0.41  |

## Secondary: Percentage of patients with Dermatology Life Quality Index (DLQI) Response

|  |  |
|--|--|
| End point title  | Percentage of patients with Dermatology Life Quality Index (DLQI) Response |
| End point description:<br>All patients with DLQI score 0 and 1 were considered as responders and patients with DLQI score $\geq 2$ were considered as non-responders. Subjects with missing DLQI score were counted as non-responders. |  |
| End point type   | Secondary  |
| End point timeframe:<br>Week 4, Week 8, Week 12, Week 16, Week 20, Week 24, Week 28  |  |

| End point values            | Secukinumab<br>300 mg<br>subcutaneous<br>(s.c.) | Secukinumab<br>300 mg s.c.<br>and lifestyle<br>intervention |  |  |
|-----------------------------|---|---|--|--|
| Subject group type          | Reporting group                                 | Reporting group   |  |  |
| Number of subjects analysed | 371   | 409   |  |  |
| Units: Participants         |   |   |  |  |
| Non-Responders @ Week 4     | 323   | 344   |  |  |
| Responders @ Week 4         | 43  | 50  |  |  |
| Non-Responders @ Week 8     | 249   | 269   |  |  |
| Responders @ Week 8         | 111   | 126   |  |  |
| Non-Responders @ Week 12    | 179   | 192   |  |  |
| Responders @ Week 12        | 130   | 143   |  |  |
| Non-Responders @ Week 16    | 176   | 201   |  |  |
| Responders @ Week 16        | 178   | 187   |  |  |
| Non-Responders @ Week 20    | 153   | 170   |  |  |
| Responders @ Week 20        | 193   | 210   |  |  |
| Non-Responders @ Week 24    | 148   | 175   |  |  |
| Responders @ Week 24        | 189   | 203   |  |  |
| Non-Responders @ Week 28    | 145   | 154   |  |  |
| Responders @ Week 28        | 189   | 212   |  |  |

## Statistical analyses

No statistical analyses for this end point

## Secondary: World Health Organization Well-Being Index (WHO-5) Total score over time

|  |  |
|--|--|
| End point title  | World Health Organization Well-Being Index (WHO-5) Total score over time |
| End point description:<br>The 5-item World Health Organization Well-Being Index (WHO-5) is a validated, short questionnaire consisting of 5 simple questions, assessing subjective psychological well-being of the respondents: Felt cheerful and in good spirits, Felt calm and relaxed, Felt active and vigorous, Feeling fresh and rested and Things that interest me in daily life. The recall period is the previous two weeks. Each item has 6 |  |

response categories, ranging from 5 ("the whole time") to 0 ("at no time point"). The raw score ranges from 0 to 25, with 0 representing worst possible and 25 representing best possible quality of life. To obtain a percentage score ranging from 0 to 100, the raw score is multiplied by 4. A percentage score of 0 represents worst possible, whereas a score of 100 represents best possible quality of life.

|   |           |
|---|-----------|
| End point type  | Secondary |
| End point timeframe:  |           |
| Baseline, Week 4, Week 8, Week 12, Week 16, Week 20, Week 24, Week 28 |           |

| End point values                     | Secukinumab<br>300 mg<br>subcutaneous<br>(s.c.) | Secukinumab<br>300 mg s.c.<br>and lifestyle<br>intervention |  |  |
|--------------------------------------|---|---|--|--|
| Subject group type                   | Reporting group                                 | Reporting group   |  |  |
| Number of subjects analysed          | 371   | 409   |  |  |
| Units: Unit on a scale               |   |   |  |  |
| arithmetic mean (standard deviation) |   |   |  |  |
| Baseline (n=371, 409)                | 10.46 (±<br>5.208)                              | 10.62 (±<br>5.283)  |  |  |
| Week 4 (n=365, 394)                  | 14.45 (±<br>5.236)                              | 15.52 (±<br>4.921)  |  |  |
| Week 8 (n=360, 395)                  | 15.65 (±<br>4.889)                              | 15.99 (±<br>4.697)  |  |  |
| Week 12 (n=309, 335)                 | 15.77 (±<br>5.083)                              | 16.37 (±<br>4.824)  |  |  |
| Week 16 (n=353, 388)                 | 15.91 (±<br>5.334)                              | 16.45 (±<br>4.902)  |  |  |
| Week 20 (n=346, 379)                 | 16.30 (±<br>5.364)                              | 16.44 (±<br>4.978)  |  |  |
| Week 24 (n=337, 378)                 | 16.47 (±<br>5.173)                              | 16.55 (±<br>4.865)  |  |  |
| Week 28 (n=334, 366)                 | 16.20 (±<br>5.583)                              | 16.69 (±<br>4.910)  |  |  |

## Statistical analyses

No statistical analyses for this end point

## Secondary: Mean change from Baseline in World Health Organization Well-Being Index (WHO-5) Total score over time

|                 |   |
|-----------------|---|
| End point title | Mean change from Baseline in World Health Organization Well-Being Index (WHO-5) Total score over time |
|-----------------|---|

End point description:

The 5-item World Health Organization Well-Being Index (WHO-5) is a validated, short questionnaire consisting of 5 simple questions, assessing subjective psychological well-being of the respondents: Felt cheerful and in good spirits, Felt calm and relaxed, Felt active and vigorous, Feeling fresh and rested and Things that interest me in daily life. The recall period is the previous two weeks. Each item has 6 response categories, ranging from 5 ("the whole time") to 0 ("at no time point"). The raw score ranges from 0 to 25, with 0 representing worst possible and 25 representing best possible quality of life. To obtain a percentage score ranging from 0 to 100, the raw score is multiplied by 4. A percentage score of 0 represents worst possible, whereas a score of 100 represents best possible quality of life.

|   |           |
|---|-----------|
| End point type  | Secondary |
| End point timeframe:  |           |
| Baseline, Week 4, Week 8, Week 12, Week 16, Week 20, Week 24, Week 28 |           |

| <b>End point values</b>              | Secukinumab<br>300 mg<br>subcutaneous<br>(s.c.) | Secukinumab<br>300 mg s.c.<br>and lifestyle<br>intervention |  |  |
|--------------------------------------|---|---|--|--|
| Subject group type                   | Reporting group                                 | Reporting group   |  |  |
| Number of subjects analysed          | 371   | 409   |  |  |
| Units: Unit on a scale               |   |   |  |  |
| arithmetic mean (standard deviation) |   |   |  |  |
| Baseline (n=371, 409)                | 10.5 (± 5.21)                                   | 10.6 (± 5.28)   |  |  |
| Week 4 (n= 365, 394)                 | 4.0 (± 5.21)                                    | 4.9 (± 5.51)  |  |  |
| Week 8 (n= 360, 395)                 | 5.1 (± 5.61)                                    | 5.4 (± 5.76)  |  |  |
| Week 12 (n= 309, 335)                | 5.2 (± 5.73)                                    | 5.7 (± 5.95)  |  |  |
| Week 16 (n= 353, 388)                | 5.4 (± 5.59)                                    | 5.8 (± 5.85)  |  |  |
| Week 20 (n= 346, 379)                | 5.8 (± 6.08)                                    | 5.8 (± 5.79)  |  |  |
| Week 24 (n= 337, 378)                | 5.9 (± 5.65)                                    | 5.9 (± 6.19)  |  |  |
| Week 28 (n= 334, 366)                | 5.6 (± 6.20)                                    | 5.9 (± 6.12)  |  |  |

## Statistical analyses

|   |   |
|---|---|
| <b>Statistical analysis title</b>                               | WHO-5 at week 28  |
| Statistical analysis description:                               |   |
| WHO-5 - Comparison of mean change between treatments at week 28 |   |
| Comparison groups   | Secukinumab 300 mg subcutaneous (s.c.) v Secukinumab 300 mg s.c. and lifestyle intervention |
| Number of subjects included in analysis                         | 780   |
| Analysis specification  | Pre-specified   |
| Analysis type   |   |
| P-value   | = 0.0982  |
| Method  | Mixed models analysis   |
| Parameter estimate  | least squares (LS) mean change  |
| Point estimate  | 0.59  |
| Confidence interval   |   |
| level   | 95 %  |
| sides   | 2-sided   |
| lower limit   | -0.1  |
| upper limit   | 1.3   |
| Variability estimate  | Standard error of the mean  |
| Dispersion value  | 0.36  |

## Secondary: Participant's self-assessed pain, itching and scaling over time

|                 |   |
|-----------------|---|
| End point title | Participant's self-assessed pain, itching and scaling over time |
|-----------------|---|

End point description:

A self-administered, 11-point numeric rating scale (NRS, 0-10) was used to evaluate the subject's assessment of their current pain, itching and scaling. Respondents answered the following questions for the assessment of:

\* Pain: Overall, how severe was your psoriasis-related pain over the past 24 hours  
 \* Itching: Overall, how severe was your psoriasis-related itch over the past 24 hours  
 \* Scaling: Overall, how severe was your psoriasis-related scaling over the past 24 hours  
 Subjects had to rate their pain, itching, and scaling from 0 to 10 (11-point scale), with the understanding that the 0 represented the absence or null end of the pain, itching, or scale intensity (i.e., no pain, itching or scaling) and the 10 represented the other extreme of pain, itching, or scaling intensity (i.e., pain, itching or scaling as bad as it could be). The number that the patient selected represented his or her intensity score.

|   |           |
|---|-----------|
| End point type  | Secondary |
| End point timeframe:  |           |
| Baseline, Week 4, Week 8, Week 12, Week 16, Week 20, Week 24, Week 28 |           |

| End point values                     | Secukinumab<br>300 mg<br>subcutaneous<br>(s.c.) | Secukinumab<br>300 mg s.c.<br>and lifestyle<br>intervention |  |  |
|--------------------------------------|---|---|--|--|
| Subject group type                   | Reporting group                                 | Reporting group   |  |  |
| Number of subjects analysed          | 371   | 409   |  |  |
| Units: Unit on a scale               |   |   |  |  |
| arithmetic mean (standard deviation) |   |   |  |  |
| Pain at Baseline (n=371, 409)        | 4.9 (± 2.93)                                    | 4.6 (± 2.87)  |  |  |
| Pain at week 4 (n= 366, 392)         | 1.9 (± 2.29)                                    | 1.7 (± 2.23)  |  |  |
| Pain at week 8 (n= 359, 394)         | 1.1 (± 1.88)                                    | 1.3 (± 2.05)  |  |  |
| Pain at week 12 (n= 309, 335)        | 1.2 (± 2.14)                                    | 1.0 (± 1.84)  |  |  |
| Pain at week 16 (n= 353, 388)        | 1.1 (± 2.04)                                    | 1.1 (± 1.88)  |  |  |
| Pain at week 20 (n= 346, 380)        | 1.0 (± 1.93)                                    | 1.0 (± 1.81)  |  |  |
| Pain at week 24 (n= 337, 378)        | 1.0 (± 1.91)                                    | 1.0 (± 1.85)  |  |  |
| Pain at week 28 (n= 333, 366)        | 1.2 (± 2.10)                                    | 1.0 (± 2.00)  |  |  |
| Itching at Baseline (n=371, 409)     | 7.4 (± 2.08)                                    | 7.1 (± 2.39)  |  |  |
| Itching at week 4 (n=366, 393)       | 3.2 (± 2.43)                                    | 3.0 (± 2.60)  |  |  |
| Itching at week 8 (n=359, 394)       | 2.4 (± 2.36)                                    | 2.3 (± 2.47)  |  |  |
| Itching at week 12 (n=309, 335)      | 2.2 (± 2.38)                                    | 2.0 (± 2.29)  |  |  |
| Itching at week 16 (n=353, 388)      | 2.0 (± 2.29)                                    | 2.0 (± 2.43)  |  |  |
| Itching at week 20 (n= 346, 380)     | 1.9 (± 2.23)                                    | 1.9 (± 2.19)  |  |  |
| Itching at week 24 (n= 337, 378)     | 1.9 (± 2.35)                                    | 1.8 (± 2.23)  |  |  |
| Itching at week 28 (n=334, 366)      | 2.0 (± 2.47)                                    | 1.9 (± 2.38)  |  |  |
| Scaling at Baseline (n=371, 409)     | 7.5 (± 2.01)                                    | 7.3 (± 2.17)  |  |  |
| Scaling at week 4 (n=366, 393)       | 2.7 (± 2.18)                                    | 2.4 (± 2.16)  |  |  |
| Scaling at week 8 (n=359, 394)       | 1.7 (± 1.94)                                    | 1.7 (± 2.03)  |  |  |
| Scaling at week 12 (n=309, 335)      | 1.7 (± 2.00)                                    | 1.6 (± 1.90)  |  |  |
| Scaling at week 16 (n=353, 388)      | 1.6 (± 2.10)                                    | 1.5 (± 1.95)  |  |  |
| Scaling at week 20 (n=346, 380)      | 1.6 (± 2.10)                                    | 1.5 (± 1.98)  |  |  |
| Scaling at week 24 (n=337, 378)      | 1.7 (± 2.22)                                    | 1.4 (± 1.84)  |  |  |
| Scaling at week 28 (n=334, 366)      | 1.8 (± 2.28)                                    | 1.5 (± 2.04)  |  |  |

## Statistical analyses

No statistical analyses for this end point



## Secondary: Percentage change from Baseline in Participant's self-assessed pain, itching and scaling

|                 |  |
|-----------------|--|
| End point title | Percentage change from Baseline in Participant's self-assessed pain, itching and scaling |
|-----------------|--|

### End point description:

A self-administered, 11-point numeric rating scale (NRS, 0-10) was used to evaluate the subject's assessment of their current pain, itching and scaling. Respondents answered the following questions for the assessment of:

\* Pain: Overall, how severe was your psoriasis-related pain over the past 24 hours

\* Itching: Overall, how severe was your psoriasis-related itch over the past 24 hours

\* Scaling: Overall, how severe was your psoriasis-related scaling over the past 24 hours

Subjects had to rate their pain, itching, and scaling from 0 to 10 (11-point scale), with the understanding that the 0 represented the absence or null end of the pain, itching, or scale intensity (i.e., no pain, itching or scaling) and the 10 represented the other extreme of pain, itching, or scaling intensity (i.e., pain, itching or scaling as bad as it could be). The number that the patient selected represented his or her intensity score.

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

### End point timeframe:

Baseline, Week 4, Week 8, Week 12, Week 16, Week 20, Week 24, Week 28

| End point values                     | Secukinumab<br>300 mg<br>subcutaneous<br>(s.c.) | Secukinumab<br>300 mg s.c.<br>and lifestyle<br>intervention |  |  |
|--------------------------------------|---|---|--|--|
| Subject group type                   | Reporting group                                 | Reporting group   |  |  |
| Number of subjects analysed          | 371   | 409   |  |  |
| Units: Percentage change             |   |   |  |  |
| arithmetic mean (standard deviation) |   |   |  |  |
| Pain at Baseline (n=371, 409)        | 4.9 (± 2.93)                                    | 4.6 (± 2.87)  |  |  |
| Pain at week 4 (n= 328, 349)         | -61.4 (± 44.13)                                 | -60.2 (± 59.10)   |  |  |
| Pain at week 8 (n= 321, 352)         | -74.4 (± 44.39)                                 | -68.5 (± 53.86)   |  |  |
| Pain at week 12 (n= 276, 299)        | -72.2 (± 54.73)                                 | -76.6 (± 40.64)   |  |  |
| Pain at week 16 (n= 315, 345)        | -77.3 (± 38.93)                                 | -74.0 (± 46.10)   |  |  |
| Pain at week 20 (n= 308, 339)        | -78.4 (± 41.88)                                 | -75.2 (± 43.55)   |  |  |
| Pain at week 24 (n= 302, 340)        | -78.4 (± 41.88)                                 | -75.7 (± 47.05)   |  |  |
| Pain at week 28 (n= 299, 328)        | -76.3 (± 42.22)                                 | -75.3 (± 52.42)   |  |  |
| Itching at Baseline (n=371, 409)     | 7.4 (± 2.08)                                    | 7.1 (± 2.39)  |  |  |
| Itching at week 4 (n=365, 386)       | -54.1 (± 33.82)                                 | -55.8 (± 41.19)   |  |  |
| Itching at week 8 (n=358, 387)       | -63.7 (± 39.78)                                 | -66.7 (± 34.31)   |  |  |
| Itching at week 12 (n=308, 329)      | -66.6 (± 40.58)                                 | -70.0 (± 33.53)   |  |  |
| Itching at week 16 (n=352, 381)      | -70.6 (± 34.79)                                 | -70.0 (± 35.79)   |  |  |
| Itching at week 20 (n= 345, 373)     | -71.1 (± 37.64)                                 | -73.0 (± 35.36)   |  |  |
| Itching at week 24 (n= 326, 374)     | -69.6 (± 46.85)                                 | -72.6 (± 35.64)   |  |  |

|                                  |                 |                 |  |  |
|----------------------------------|-----------------|-----------------|--|--|
| Itching at week 28 (n=333, 361)  | -68.5 (± 48.46) | -72.1 (± 35.97) |  |  |
| Scaling at Baseline (n=371, 409) | 7.5 (± 2.01)    | 7.3 (± 2.17)    |  |  |
| Scaling at week 4 (n=366, 389)   | -62.2 (± 30.65) | -64.9 (± 34.27) |  |  |
| Scaling at week 8 (n=359, 390)   | -74.9 (± 38.02) | -75.1 (± 30.50) |  |  |
| Scaling at week 12 (n=309, 332)  | -76.5 (± 29.91) | -76.9 (± 31.93) |  |  |
| Scaling at week 16 (n=353, 384)  | -74.3 (± 40.92) | -77.2 (± 32.84) |  |  |
| Scaling at week 20 (n=346, 376)  | -76.4 (± 31.93) | -76.2 (± 36.76) |  |  |
| Scaling at week 24 (n=337, 375)  | -75.4 (± 35.21) | -78.2 (± 33.38) |  |  |
| Scaling at week 28 (n=334, 362)  | -74.3 (± 36.50) | -77.7 (± 35.84) |  |  |

## Statistical analyses

No statistical analyses for this end point

## Adverse events

### Adverse events information

Timeframe for reporting adverse events:

Adverse events were reported from first dose of secukinumab in the Core Study up to 84 days after the last dose (Week 24).

Adverse event reporting additional description:

Consistent with EudraCT disclosure specifications, Novartis has reported under the Serious adverse events field "number of deaths resulting from adverse events" all those deaths, resulting from serious adverse events that are deemed to be causally related to treatment by the investigator.

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

### Dictionary used

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

|                    |      |
|--------------------|------|
| Dictionary version | 25.0 |
|--------------------|------|

### Reporting groups

|                       |                         |
|-----------------------|-------------------------|
| Reporting group title | Core Period Secukinumab |
|-----------------------|-------------------------|

Reporting group description:

Core Period Secukinumab

|                       |  |
|-----------------------|--|
| Reporting group title | Core Period Secukinumab + Lifestyle Intervention |
|-----------------------|--|

Reporting group description:

Core Period Secukinumab + Lifestyle Intervention

|                       |   |
|-----------------------|---|
| Reporting group title | Extension Period Lifestyle Intervention |
|-----------------------|---|

Reporting group description:

Extension Period Lifestyle Intervention

|                       |   |
|-----------------------|---|
| Reporting group title | Extension Period Lifestyle Intervention + Secukinumab |
|-----------------------|---|

Reporting group description:

Extension Period Lifestyle Intervention + Secukinumab

|                       |                              |
|-----------------------|------------------------------|
| Reporting group title | Extension Period Secukinumab |
|-----------------------|------------------------------|

Reporting group description:

Extension Period Secukinumab

| Serious adverse events  | Core Period<br>Secukinumab | Core Period<br>Secukinumab +<br>Lifestyle<br>Intervention | Extension Period<br>Lifestyle<br>Intervention |
|---|----------------------------|---|---|
| Total subjects affected by serious adverse events                   |                            |   |   |
| subjects affected / exposed   | 18 / 371 (4.85%)           | 20 / 409 (4.89%)  | 11 / 189 (5.82%)                              |
| number of deaths (all causes)                                       | 2                          | 0   | 0   |
| number of deaths resulting from adverse events                      | 0                          | 0   | 0   |
| Neoplasms benign, malignant and unspecified (incl cysts and polyps) |                            |   |   |
| Malignant melanoma  |                            |   |   |
| subjects affected / exposed   | 0 / 371 (0.00%)            | 1 / 409 (0.24%)   | 1 / 189 (0.53%)                               |
| occurrences causally related to treatment / all                     | 0 / 0                      | 0 / 1   | 0 / 1   |
| deaths causally related to treatment / all                          | 0 / 0                      | 0 / 0   | 0 / 0   |
| Bladder cancer  |                            |   |   |

|   |                 |                 |                 |
|---|-----------------|-----------------|-----------------|
| subjects affected / exposed                     | 1 / 371 (0.27%) | 0 / 409 (0.00%) | 1 / 189 (0.53%) |
| occurrences causally related to treatment / all | 0 / 1           | 0 / 0           | 0 / 1           |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           | 0 / 0           |
| Colorectal adenocarcinoma                       |                 |                 |                 |
| subjects affected / exposed                     | 0 / 371 (0.00%) | 0 / 409 (0.00%) | 0 / 189 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0           | 0 / 0           | 0 / 0           |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           | 0 / 0           |
| Urethral cancer                                 |                 |                 |                 |
| subjects affected / exposed                     | 0 / 371 (0.00%) | 0 / 409 (0.00%) | 0 / 189 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0           | 0 / 0           | 0 / 0           |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           | 0 / 0           |
| Scrotal cancer                                  |                 |                 |                 |
| subjects affected / exposed                     | 0 / 371 (0.00%) | 0 / 409 (0.00%) | 0 / 189 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0           | 0 / 0           | 0 / 0           |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           | 0 / 0           |
| Parathyroid tumour benign                       |                 |                 |                 |
| subjects affected / exposed                     | 0 / 371 (0.00%) | 1 / 409 (0.24%) | 0 / 189 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0           | 0 / 1           | 0 / 0           |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           | 0 / 0           |
| Metastases to spine                             |                 |                 |                 |
| subjects affected / exposed                     | 0 / 371 (0.00%) | 1 / 409 (0.24%) | 0 / 189 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0           | 1 / 1           | 0 / 0           |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           | 0 / 0           |
| Metastases to bone                              |                 |                 |                 |
| subjects affected / exposed                     | 0 / 371 (0.00%) | 1 / 409 (0.24%) | 0 / 189 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0           | 1 / 1           | 0 / 0           |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           | 0 / 0           |
| Vascular disorders                              |                 |                 |                 |
| Hypertension                                    |                 |                 |                 |
| subjects affected / exposed                     | 1 / 371 (0.27%) | 0 / 409 (0.00%) | 0 / 189 (0.00%) |
| occurrences causally related to treatment / all | 0 / 1           | 0 / 0           | 0 / 0           |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           | 0 / 0           |
| Flushing  |                 |                 |                 |

|  |                 |                 |                 |
|--|-----------------|-----------------|-----------------|
| subjects affected / exposed                          | 1 / 371 (0.27%) | 0 / 409 (0.00%) | 0 / 189 (0.00%) |
| occurrences causally related to treatment / all      | 1 / 1           | 0 / 0           | 0 / 0           |
| deaths causally related to treatment / all           | 0 / 0           | 0 / 0           | 0 / 0           |
| Circulatory collapse                                 |                 |                 |                 |
| subjects affected / exposed                          | 0 / 371 (0.00%) | 1 / 409 (0.24%) | 0 / 189 (0.00%) |
| occurrences causally related to treatment / all      | 0 / 0           | 0 / 1           | 0 / 0           |
| deaths causally related to treatment / all           | 0 / 0           | 0 / 0           | 0 / 0           |
| Arteriovenous fistula                                |                 |                 |                 |
| subjects affected / exposed                          | 0 / 371 (0.00%) | 0 / 409 (0.00%) | 0 / 189 (0.00%) |
| occurrences causally related to treatment / all      | 0 / 0           | 0 / 0           | 0 / 0           |
| deaths causally related to treatment / all           | 0 / 0           | 0 / 0           | 0 / 0           |
| Peripheral ischaemia                                 |                 |                 |                 |
| subjects affected / exposed                          | 0 / 371 (0.00%) | 1 / 409 (0.24%) | 0 / 189 (0.00%) |
| occurrences causally related to treatment / all      | 0 / 0           | 0 / 1           | 0 / 0           |
| deaths causally related to treatment / all           | 0 / 0           | 0 / 0           | 0 / 0           |
| Peripheral arterial occlusive disease                |                 |                 |                 |
| subjects affected / exposed                          | 0 / 371 (0.00%) | 1 / 409 (0.24%) | 1 / 189 (0.53%) |
| occurrences causally related to treatment / all      | 0 / 0           | 0 / 1           | 0 / 1           |
| deaths causally related to treatment / all           | 0 / 0           | 0 / 0           | 0 / 0           |
| Varicose vein  |                 |                 |                 |
| subjects affected / exposed                          | 1 / 371 (0.27%) | 1 / 409 (0.24%) | 0 / 189 (0.00%) |
| occurrences causally related to treatment / all      | 0 / 1           | 0 / 1           | 0 / 0           |
| deaths causally related to treatment / all           | 0 / 0           | 0 / 0           | 0 / 0           |
| General disorders and administration site conditions |                 |                 |                 |
| Pyrexia  |                 |                 |                 |
| subjects affected / exposed                          | 1 / 371 (0.27%) | 0 / 409 (0.00%) | 0 / 189 (0.00%) |
| occurrences causally related to treatment / all      | 0 / 1           | 0 / 0           | 0 / 0           |
| deaths causally related to treatment / all           | 0 / 0           | 0 / 0           | 0 / 0           |
| Oedema peripheral                                    |                 |                 |                 |
| subjects affected / exposed                          | 2 / 371 (0.54%) | 0 / 409 (0.00%) | 0 / 189 (0.00%) |
| occurrences causally related to treatment / all      | 1 / 3           | 0 / 0           | 0 / 0           |
| deaths causally related to treatment / all           | 0 / 0           | 0 / 0           | 0 / 0           |
| Chest discomfort                                     |                 |                 |                 |

|   |                 |                 |                 |
|---|-----------------|-----------------|-----------------|
| subjects affected / exposed                     | 1 / 371 (0.27%) | 0 / 409 (0.00%) | 0 / 189 (0.00%) |
| occurrences causally related to treatment / all | 1 / 1           | 0 / 0           | 0 / 0           |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           | 0 / 0           |
| Immune system disorders                         |                 |                 |                 |
| Drug hypersensitivity                           |                 |                 |                 |
| subjects affected / exposed                     | 1 / 371 (0.27%) | 0 / 409 (0.00%) | 0 / 189 (0.00%) |
| occurrences causally related to treatment / all | 1 / 1           | 0 / 0           | 0 / 0           |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           | 0 / 0           |
| Reproductive system and breast disorders        |                 |                 |                 |
| Cystocele                                       |                 |                 |                 |
| subjects affected / exposed                     | 0 / 371 (0.00%) | 1 / 409 (0.24%) | 1 / 189 (0.53%) |
| occurrences causally related to treatment / all | 0 / 0           | 0 / 1           | 0 / 1           |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           | 0 / 0           |
| Respiratory, thoracic and mediastinal disorders |                 |                 |                 |
| Dyspnoea  |                 |                 |                 |
| subjects affected / exposed                     | 3 / 371 (0.81%) | 1 / 409 (0.24%) | 0 / 189 (0.00%) |
| occurrences causally related to treatment / all | 1 / 3           | 0 / 1           | 0 / 0           |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           | 0 / 0           |
| Chronic obstructive pulmonary disease           |                 |                 |                 |
| subjects affected / exposed                     | 1 / 371 (0.27%) | 0 / 409 (0.00%) | 0 / 189 (0.00%) |
| occurrences causally related to treatment / all | 0 / 1           | 0 / 0           | 0 / 0           |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           | 0 / 0           |
| Asthma  |                 |                 |                 |
| subjects affected / exposed                     | 0 / 371 (0.00%) | 0 / 409 (0.00%) | 0 / 189 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0           | 0 / 0           | 0 / 0           |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           | 0 / 0           |
| Psychiatric disorders                           |                 |                 |                 |
| Mania   |                 |                 |                 |
| subjects affected / exposed                     | 0 / 371 (0.00%) | 0 / 409 (0.00%) | 0 / 189 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0           | 0 / 0           | 0 / 0           |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           | 0 / 0           |
| Product issues                                  |                 |                 |                 |
| Device loosening                                |                 |                 |                 |

|   |                 |                 |                 |
|---|-----------------|-----------------|-----------------|
| subjects affected / exposed                     | 1 / 371 (0.27%) | 0 / 409 (0.00%) | 0 / 189 (0.00%) |
| occurrences causally related to treatment / all | 0 / 1           | 0 / 0           | 0 / 0           |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           | 0 / 0           |
| Investigations                                  |                 |                 |                 |
| Aspartate aminotransferase increased            |                 |                 |                 |
| subjects affected / exposed                     | 1 / 371 (0.27%) | 0 / 409 (0.00%) | 0 / 189 (0.00%) |
| occurrences causally related to treatment / all | 0 / 2           | 0 / 0           | 0 / 0           |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           | 0 / 0           |
| Alanine aminotransferase increased              |                 |                 |                 |
| subjects affected / exposed                     | 1 / 371 (0.27%) | 0 / 409 (0.00%) | 0 / 189 (0.00%) |
| occurrences causally related to treatment / all | 0 / 1           | 0 / 0           | 0 / 0           |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           | 0 / 0           |
| Gamma-glutamyltransferase increased             |                 |                 |                 |
| subjects affected / exposed                     | 1 / 371 (0.27%) | 0 / 409 (0.00%) | 0 / 189 (0.00%) |
| occurrences causally related to treatment / all | 0 / 1           | 0 / 0           | 0 / 0           |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           | 0 / 0           |
| Injury, poisoning and procedural complications  |                 |                 |                 |
| Concussion                                      |                 |                 |                 |
| subjects affected / exposed                     | 0 / 371 (0.00%) | 1 / 409 (0.24%) | 0 / 189 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0           | 0 / 1           | 0 / 0           |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           | 0 / 0           |
| Fall  |                 |                 |                 |
| subjects affected / exposed                     | 0 / 371 (0.00%) | 1 / 409 (0.24%) | 1 / 189 (0.53%) |
| occurrences causally related to treatment / all | 0 / 0           | 0 / 1           | 0 / 1           |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           | 0 / 0           |
| Foot fracture                                   |                 |                 |                 |
| subjects affected / exposed                     | 1 / 371 (0.27%) | 0 / 409 (0.00%) | 0 / 189 (0.00%) |
| occurrences causally related to treatment / all | 0 / 1           | 0 / 0           | 0 / 0           |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           | 0 / 0           |
| Head injury                                     |                 |                 |                 |

|   |                 |                 |                 |
|---|-----------------|-----------------|-----------------|
| subjects affected / exposed                     | 0 / 371 (0.00%) | 1 / 409 (0.24%) | 0 / 189 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0           | 0 / 1           | 0 / 0           |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           | 0 / 0           |
| Pulmonary contusion                             |                 |                 |                 |
| subjects affected / exposed                     | 0 / 371 (0.00%) | 1 / 409 (0.24%) | 0 / 189 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0           | 0 / 1           | 0 / 0           |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           | 0 / 0           |
| Reactive gastropathy                            |                 |                 |                 |
| subjects affected / exposed                     | 0 / 371 (0.00%) | 0 / 409 (0.00%) | 0 / 189 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0           | 0 / 0           | 0 / 0           |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           | 0 / 0           |
| Rib fracture                                    |                 |                 |                 |
| subjects affected / exposed                     | 0 / 371 (0.00%) | 1 / 409 (0.24%) | 0 / 189 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0           | 0 / 1           | 0 / 0           |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           | 0 / 0           |
| Road traffic accident                           |                 |                 |                 |
| subjects affected / exposed                     | 0 / 371 (0.00%) | 0 / 409 (0.00%) | 0 / 189 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0           | 0 / 0           | 0 / 0           |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           | 0 / 0           |
| Skin laceration                                 |                 |                 |                 |
| subjects affected / exposed                     | 0 / 371 (0.00%) | 1 / 409 (0.24%) | 1 / 189 (0.53%) |
| occurrences causally related to treatment / all | 0 / 0           | 0 / 1           | 0 / 1           |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           | 0 / 0           |
| Tendon rupture                                  |                 |                 |                 |
| subjects affected / exposed                     | 2 / 371 (0.54%) | 0 / 409 (0.00%) | 0 / 189 (0.00%) |
| occurrences causally related to treatment / all | 0 / 2           | 0 / 0           | 0 / 0           |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           | 0 / 0           |
| Cardiac disorders                               |                 |                 |                 |
| Atrial fibrillation                             |                 |                 |                 |
| subjects affected / exposed                     | 1 / 371 (0.27%) | 1 / 409 (0.24%) | 0 / 189 (0.00%) |
| occurrences causally related to treatment / all | 0 / 1           | 0 / 1           | 0 / 0           |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           | 0 / 0           |
| Myocardial infarction                           |                 |                 |                 |



|   |                 |                 |                 |
|---|-----------------|-----------------|-----------------|
| subjects affected / exposed                     | 0 / 371 (0.00%) | 1 / 409 (0.24%) | 0 / 189 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0           | 0 / 1           | 0 / 0           |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           | 0 / 0           |
| Coronary artery disease                         |                 |                 |                 |
| subjects affected / exposed                     | 0 / 371 (0.00%) | 1 / 409 (0.24%) | 0 / 189 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0           | 0 / 1           | 0 / 0           |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           | 0 / 0           |
| Pericarditis                                    |                 |                 |                 |
| subjects affected / exposed                     | 0 / 371 (0.00%) | 0 / 409 (0.00%) | 0 / 189 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0           | 0 / 0           | 0 / 0           |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           | 0 / 0           |
| Nervous system disorders                        |                 |                 |                 |
| Cerebral infarction                             |                 |                 |                 |
| subjects affected / exposed                     | 0 / 371 (0.00%) | 0 / 409 (0.00%) | 0 / 189 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0           | 0 / 0           | 0 / 0           |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           | 0 / 0           |
| Cerebral haemorrhage                            |                 |                 |                 |
| subjects affected / exposed                     | 0 / 371 (0.00%) | 0 / 409 (0.00%) | 0 / 189 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0           | 0 / 0           | 0 / 0           |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           | 0 / 0           |
| Dizziness                                       |                 |                 |                 |
| subjects affected / exposed                     | 1 / 371 (0.27%) | 0 / 409 (0.00%) | 0 / 189 (0.00%) |
| occurrences causally related to treatment / all | 1 / 1           | 0 / 0           | 0 / 0           |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           | 0 / 0           |
| Paraesthesia                                    |                 |                 |                 |
| subjects affected / exposed                     | 1 / 371 (0.27%) | 0 / 409 (0.00%) | 0 / 189 (0.00%) |
| occurrences causally related to treatment / all | 1 / 1           | 0 / 0           | 0 / 0           |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           | 0 / 0           |
| Eye disorders                                   |                 |                 |                 |
| Endocrine ophthalmopathy                        |                 |                 |                 |
| subjects affected / exposed                     | 0 / 371 (0.00%) | 1 / 409 (0.24%) | 0 / 189 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0           | 0 / 1           | 0 / 0           |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           | 0 / 0           |
| Macular oedema                                  |                 |                 |                 |

|   |                 |                 |                 |
|---|-----------------|-----------------|-----------------|
| subjects affected / exposed                     | 0 / 371 (0.00%) | 1 / 409 (0.24%) | 0 / 189 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0           | 0 / 1           | 0 / 0           |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           | 0 / 0           |
| Ocular fistula                                  |                 |                 |                 |
| subjects affected / exposed                     | 0 / 371 (0.00%) | 0 / 409 (0.00%) | 0 / 189 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0           | 0 / 0           | 0 / 0           |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           | 0 / 0           |
| Ulcerative keratitis                            |                 |                 |                 |
| subjects affected / exposed                     | 1 / 371 (0.27%) | 0 / 409 (0.00%) | 1 / 189 (0.53%) |
| occurrences causally related to treatment / all | 1 / 1           | 0 / 0           | 1 / 1           |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           | 0 / 0           |
| Gastrointestinal disorders                      |                 |                 |                 |
| Enterocolitis haemorrhagic                      |                 |                 |                 |
| subjects affected / exposed                     | 0 / 371 (0.00%) | 0 / 409 (0.00%) | 0 / 189 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0           | 0 / 0           | 0 / 0           |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           | 0 / 0           |
| Hypertrophy of tongue papillae                  |                 |                 |                 |
| subjects affected / exposed                     | 0 / 371 (0.00%) | 1 / 409 (0.24%) | 1 / 189 (0.53%) |
| occurrences causally related to treatment / all | 0 / 0           | 0 / 1           | 0 / 1           |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           | 0 / 0           |
| Hiatus hernia                                   |                 |                 |                 |
| subjects affected / exposed                     | 0 / 371 (0.00%) | 0 / 409 (0.00%) | 0 / 189 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0           | 0 / 0           | 0 / 0           |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           | 0 / 0           |
| Gastrointestinal polyp                          |                 |                 |                 |
| subjects affected / exposed                     | 0 / 371 (0.00%) | 1 / 409 (0.24%) | 1 / 189 (0.53%) |
| occurrences causally related to treatment / all | 0 / 0           | 0 / 1           | 0 / 1           |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           | 0 / 0           |
| Femoral hernia                                  |                 |                 |                 |
| subjects affected / exposed                     | 1 / 371 (0.27%) | 0 / 409 (0.00%) | 0 / 189 (0.00%) |
| occurrences causally related to treatment / all | 0 / 1           | 0 / 0           | 0 / 0           |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           | 0 / 0           |
| Inguinal hernia                                 |                 |                 |                 |

|   |                 |                 |                 |
|---|-----------------|-----------------|-----------------|
| subjects affected / exposed                     | 1 / 371 (0.27%) | 0 / 409 (0.00%) | 0 / 189 (0.00%) |
| occurrences causally related to treatment / all | 0 / 1           | 0 / 0           | 0 / 0           |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           | 0 / 0           |
| Oesophagitis                                    |                 |                 |                 |
| subjects affected / exposed                     | 0 / 371 (0.00%) | 0 / 409 (0.00%) | 0 / 189 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0           | 0 / 0           | 0 / 0           |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           | 0 / 0           |
| Skin and subcutaneous tissue disorders          |                 |                 |                 |
| Psoriasis                                       |                 |                 |                 |
| subjects affected / exposed                     | 2 / 371 (0.54%) | 1 / 409 (0.24%) | 1 / 189 (0.53%) |
| occurrences causally related to treatment / all | 1 / 2           | 1 / 1           | 0 / 1           |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           | 0 / 0           |
| Erythrodermic psoriasis                         |                 |                 |                 |
| subjects affected / exposed                     | 1 / 371 (0.27%) | 0 / 409 (0.00%) | 0 / 189 (0.00%) |
| occurrences causally related to treatment / all | 1 / 1           | 0 / 0           | 0 / 0           |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           | 0 / 0           |
| Renal and urinary disorders                     |                 |                 |                 |
| Nephrolithiasis                                 |                 |                 |                 |
| subjects affected / exposed                     | 1 / 371 (0.27%) | 0 / 409 (0.00%) | 1 / 189 (0.53%) |
| occurrences causally related to treatment / all | 0 / 1           | 0 / 0           | 0 / 1           |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           | 0 / 0           |
| Renal failure                                   |                 |                 |                 |
| subjects affected / exposed                     | 1 / 371 (0.27%) | 0 / 409 (0.00%) | 0 / 189 (0.00%) |
| occurrences causally related to treatment / all | 0 / 2           | 0 / 0           | 0 / 0           |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           | 0 / 0           |
| Endocrine disorders                             |                 |                 |                 |
| Goitre  |                 |                 |                 |
| subjects affected / exposed                     | 0 / 371 (0.00%) | 1 / 409 (0.24%) | 0 / 189 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0           | 0 / 1           | 0 / 0           |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           | 0 / 0           |
| Musculoskeletal and connective tissue disorders |                 |                 |                 |
| Osteoarthritis                                  |                 |                 |                 |

|   |                 |                 |                 |
|---|-----------------|-----------------|-----------------|
| subjects affected / exposed                     | 2 / 371 (0.54%) | 1 / 409 (0.24%) | 0 / 189 (0.00%) |
| occurrences causally related to treatment / all | 0 / 2           | 0 / 1           | 0 / 0           |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           | 0 / 0           |
| Intervertebral disc protrusion                  |                 |                 |                 |
| subjects affected / exposed                     | 1 / 371 (0.27%) | 0 / 409 (0.00%) | 1 / 189 (0.53%) |
| occurrences causally related to treatment / all | 0 / 3           | 0 / 0           | 0 / 1           |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           | 0 / 0           |
| Bursitis  |                 |                 |                 |
| subjects affected / exposed                     | 0 / 371 (0.00%) | 0 / 409 (0.00%) | 0 / 189 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0           | 0 / 0           | 0 / 0           |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           | 0 / 0           |
| Infections and infestations                     |                 |                 |                 |
| Bronchiolitis                                   |                 |                 |                 |
| subjects affected / exposed                     | 1 / 371 (0.27%) | 0 / 409 (0.00%) | 0 / 189 (0.00%) |
| occurrences causally related to treatment / all | 0 / 1           | 0 / 0           | 0 / 0           |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           | 0 / 0           |
| Erysipelas                                      |                 |                 |                 |
| subjects affected / exposed                     | 1 / 371 (0.27%) | 0 / 409 (0.00%) | 0 / 189 (0.00%) |
| occurrences causally related to treatment / all | 0 / 1           | 0 / 0           | 0 / 0           |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           | 0 / 0           |
| Gastrointestinal infection                      |                 |                 |                 |
| subjects affected / exposed                     | 0 / 371 (0.00%) | 0 / 409 (0.00%) | 0 / 189 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0           | 0 / 0           | 0 / 0           |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           | 0 / 0           |
| Urinary tract infection                         |                 |                 |                 |
| subjects affected / exposed                     | 0 / 371 (0.00%) | 1 / 409 (0.24%) | 1 / 189 (0.53%) |
| occurrences causally related to treatment / all | 0 / 0           | 0 / 1           | 0 / 1           |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           | 0 / 0           |
| Vestibular neuronitis                           |                 |                 |                 |
| subjects affected / exposed                     | 0 / 371 (0.00%) | 1 / 409 (0.24%) | 0 / 189 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0           | 1 / 1           | 0 / 0           |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           | 0 / 0           |
| Tonsillitis                                     |                 |                 |                 |

|   |                 |                 |                 |
|---|-----------------|-----------------|-----------------|
| subjects affected / exposed                     | 0 / 371 (0.00%) | 1 / 409 (0.24%) | 0 / 189 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0           | 1 / 1           | 0 / 0           |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           | 0 / 0           |
| Pulpitis dental                                 |                 |                 |                 |
| subjects affected / exposed                     | 0 / 371 (0.00%) | 1 / 409 (0.24%) | 0 / 189 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0           | 0 / 1           | 0 / 0           |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           | 0 / 0           |
| Otitis media                                    |                 |                 |                 |
| subjects affected / exposed                     | 0 / 371 (0.00%) | 1 / 409 (0.24%) | 0 / 189 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0           | 1 / 1           | 0 / 0           |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           | 0 / 0           |
| Upper respiratory tract infection               |                 |                 |                 |
| subjects affected / exposed                     | 0 / 371 (0.00%) | 1 / 409 (0.24%) | 0 / 189 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0           | 1 / 1           | 0 / 0           |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           | 0 / 0           |
| Metabolism and nutrition disorders              |                 |                 |                 |
| Hypercalcaemia                                  |                 |                 |                 |
| subjects affected / exposed                     | 1 / 371 (0.27%) | 0 / 409 (0.00%) | 0 / 189 (0.00%) |
| occurrences causally related to treatment / all | 0 / 2           | 0 / 0           | 0 / 0           |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           | 0 / 0           |

| <b>Serious adverse events</b>                                       | Extension Period<br>Lifestyle<br>Intervention +<br>Secukinumab | Extension Period<br>Secukinumab |  |
|---|--|---------------------------------|--|
| Total subjects affected by serious adverse events                   |  |                                 |  |
| subjects affected / exposed   | 10 / 164 (6.10%)   | 32 / 427 (7.49%)                |  |
| number of deaths (all causes)                                       | 0  | 2                               |  |
| number of deaths resulting from adverse events                      | 0  | 0                               |  |
| Neoplasms benign, malignant and unspecified (incl cysts and polyps) |  |                                 |  |
| Malignant melanoma  |  |                                 |  |
| subjects affected / exposed   | 0 / 164 (0.00%)  | 0 / 427 (0.00%)                 |  |
| occurrences causally related to treatment / all                     | 0 / 0  | 0 / 0                           |  |
| deaths causally related to treatment / all                          | 0 / 0  | 0 / 0                           |  |
| Bladder cancer  |  |                                 |  |

|   |                 |                 |  |
|---|-----------------|-----------------|--|
| subjects affected / exposed                     | 0 / 164 (0.00%) | 0 / 427 (0.00%) |  |
| occurrences causally related to treatment / all | 0 / 0           | 0 / 0           |  |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           |  |
| Colorectal adenocarcinoma                       |                 |                 |  |
| subjects affected / exposed                     | 0 / 164 (0.00%) | 1 / 427 (0.23%) |  |
| occurrences causally related to treatment / all | 0 / 0           | 0 / 1           |  |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           |  |
| Urethral cancer                                 |                 |                 |  |
| subjects affected / exposed                     | 0 / 164 (0.00%) | 1 / 427 (0.23%) |  |
| occurrences causally related to treatment / all | 0 / 0           | 0 / 1           |  |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           |  |
| Scrotal cancer                                  |                 |                 |  |
| subjects affected / exposed                     | 0 / 164 (0.00%) | 1 / 427 (0.23%) |  |
| occurrences causally related to treatment / all | 0 / 0           | 0 / 1           |  |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           |  |
| Parathyroid tumour benign                       |                 |                 |  |
| subjects affected / exposed                     | 1 / 164 (0.61%) | 0 / 427 (0.00%) |  |
| occurrences causally related to treatment / all | 0 / 1           | 0 / 0           |  |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           |  |
| Metastases to spine                             |                 |                 |  |
| subjects affected / exposed                     | 0 / 164 (0.00%) | 1 / 427 (0.23%) |  |
| occurrences causally related to treatment / all | 0 / 0           | 1 / 1           |  |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           |  |
| Metastases to bone                              |                 |                 |  |
| subjects affected / exposed                     | 0 / 164 (0.00%) | 1 / 427 (0.23%) |  |
| occurrences causally related to treatment / all | 0 / 0           | 1 / 1           |  |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           |  |
| Vascular disorders                              |                 |                 |  |
| Hypertension                                    |                 |                 |  |
| subjects affected / exposed                     | 0 / 164 (0.00%) | 1 / 427 (0.23%) |  |
| occurrences causally related to treatment / all | 0 / 0           | 0 / 1           |  |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           |  |
| Flushing  |                 |                 |  |

|  |                 |                 |  |
|--|-----------------|-----------------|--|
| subjects affected / exposed                          | 0 / 164 (0.00%) | 1 / 427 (0.23%) |  |
| occurrences causally related to treatment / all      | 0 / 0           | 1 / 1           |  |
| deaths causally related to treatment / all           | 0 / 0           | 0 / 0           |  |
| Circulatory collapse                                 |                 |                 |  |
| subjects affected / exposed                          | 1 / 164 (0.61%) | 0 / 427 (0.00%) |  |
| occurrences causally related to treatment / all      | 0 / 1           | 0 / 0           |  |
| deaths causally related to treatment / all           | 0 / 0           | 0 / 0           |  |
| Arteriovenous fistula                                |                 |                 |  |
| subjects affected / exposed                          | 0 / 164 (0.00%) | 1 / 427 (0.23%) |  |
| occurrences causally related to treatment / all      | 0 / 0           | 0 / 1           |  |
| deaths causally related to treatment / all           | 0 / 0           | 0 / 0           |  |
| Peripheral ischaemia                                 |                 |                 |  |
| subjects affected / exposed                          | 1 / 164 (0.61%) | 0 / 427 (0.00%) |  |
| occurrences causally related to treatment / all      | 0 / 1           | 0 / 0           |  |
| deaths causally related to treatment / all           | 0 / 0           | 0 / 0           |  |
| Peripheral arterial occlusive disease                |                 |                 |  |
| subjects affected / exposed                          | 0 / 164 (0.00%) | 0 / 427 (0.00%) |  |
| occurrences causally related to treatment / all      | 0 / 0           | 0 / 0           |  |
| deaths causally related to treatment / all           | 0 / 0           | 0 / 0           |  |
| Varicose vein  |                 |                 |  |
| subjects affected / exposed                          | 2 / 164 (1.22%) | 0 / 427 (0.00%) |  |
| occurrences causally related to treatment / all      | 0 / 2           | 0 / 0           |  |
| deaths causally related to treatment / all           | 0 / 0           | 0 / 0           |  |
| General disorders and administration site conditions |                 |                 |  |
| Pyrexia  |                 |                 |  |
| subjects affected / exposed                          | 0 / 164 (0.00%) | 1 / 427 (0.23%) |  |
| occurrences causally related to treatment / all      | 0 / 0           | 0 / 1           |  |
| deaths causally related to treatment / all           | 0 / 0           | 0 / 0           |  |
| Oedema peripheral                                    |                 |                 |  |
| subjects affected / exposed                          | 0 / 164 (0.00%) | 2 / 427 (0.47%) |  |
| occurrences causally related to treatment / all      | 0 / 0           | 1 / 3           |  |
| deaths causally related to treatment / all           | 0 / 0           | 0 / 0           |  |
| Chest discomfort                                     |                 |                 |  |

|   |                 |                 |  |
|---|-----------------|-----------------|--|
| subjects affected / exposed                     | 0 / 164 (0.00%) | 1 / 427 (0.23%) |  |
| occurrences causally related to treatment / all | 0 / 0           | 1 / 1           |  |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           |  |
| Immune system disorders                         |                 |                 |  |
| Drug hypersensitivity                           |                 |                 |  |
| subjects affected / exposed                     | 0 / 164 (0.00%) | 1 / 427 (0.23%) |  |
| occurrences causally related to treatment / all | 0 / 0           | 1 / 1           |  |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           |  |
| Reproductive system and breast disorders        |                 |                 |  |
| Cystocele                                       |                 |                 |  |
| subjects affected / exposed                     | 0 / 164 (0.00%) | 0 / 427 (0.00%) |  |
| occurrences causally related to treatment / all | 0 / 0           | 0 / 0           |  |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           |  |
| Respiratory, thoracic and mediastinal disorders |                 |                 |  |
| Dyspnoea  |                 |                 |  |
| subjects affected / exposed                     | 1 / 164 (0.61%) | 4 / 427 (0.94%) |  |
| occurrences causally related to treatment / all | 0 / 1           | 1 / 4           |  |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           |  |
| Chronic obstructive pulmonary disease           |                 |                 |  |
| subjects affected / exposed                     | 0 / 164 (0.00%) | 1 / 427 (0.23%) |  |
| occurrences causally related to treatment / all | 0 / 0           | 0 / 1           |  |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           |  |
| Asthma  |                 |                 |  |
| subjects affected / exposed                     | 1 / 164 (0.61%) | 0 / 427 (0.00%) |  |
| occurrences causally related to treatment / all | 0 / 1           | 0 / 0           |  |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           |  |
| Psychiatric disorders                           |                 |                 |  |
| Mania   |                 |                 |  |
| subjects affected / exposed                     | 0 / 164 (0.00%) | 1 / 427 (0.23%) |  |
| occurrences causally related to treatment / all | 0 / 0           | 0 / 1           |  |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           |  |
| Product issues                                  |                 |                 |  |
| Device loosening                                |                 |                 |  |



|   |                 |                 |  |
|---|-----------------|-----------------|--|
| subjects affected / exposed                     | 0 / 164 (0.00%) | 1 / 427 (0.23%) |  |
| occurrences causally related to treatment / all | 0 / 0           | 0 / 1           |  |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           |  |
| Investigations                                  |                 |                 |  |
| Aspartate aminotransferase increased            |                 |                 |  |
| subjects affected / exposed                     | 0 / 164 (0.00%) | 1 / 427 (0.23%) |  |
| occurrences causally related to treatment / all | 0 / 0           | 0 / 2           |  |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           |  |
| Alanine aminotransferase increased              |                 |                 |  |
| subjects affected / exposed                     | 0 / 164 (0.00%) | 1 / 427 (0.23%) |  |
| occurrences causally related to treatment / all | 0 / 0           | 0 / 1           |  |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           |  |
| Gamma-glutamyltransferase increased             |                 |                 |  |
| subjects affected / exposed                     | 0 / 164 (0.00%) | 1 / 427 (0.23%) |  |
| occurrences causally related to treatment / all | 0 / 0           | 0 / 1           |  |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           |  |
| Injury, poisoning and procedural complications  |                 |                 |  |
| Concussion                                      |                 |                 |  |
| subjects affected / exposed                     | 0 / 164 (0.00%) | 1 / 427 (0.23%) |  |
| occurrences causally related to treatment / all | 0 / 0           | 0 / 1           |  |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           |  |
| Fall  |                 |                 |  |
| subjects affected / exposed                     | 0 / 164 (0.00%) | 0 / 427 (0.00%) |  |
| occurrences causally related to treatment / all | 0 / 0           | 0 / 0           |  |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           |  |
| Foot fracture                                   |                 |                 |  |
| subjects affected / exposed                     | 0 / 164 (0.00%) | 1 / 427 (0.23%) |  |
| occurrences causally related to treatment / all | 0 / 0           | 0 / 1           |  |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           |  |
| Head injury                                     |                 |                 |  |

|   |                 |                 |  |
|---|-----------------|-----------------|--|
| subjects affected / exposed                     | 0 / 164 (0.00%) | 1 / 427 (0.23%) |  |
| occurrences causally related to treatment / all | 0 / 0           | 0 / 1           |  |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           |  |
| Pulmonary contusion                             |                 |                 |  |
| subjects affected / exposed                     | 0 / 164 (0.00%) | 1 / 427 (0.23%) |  |
| occurrences causally related to treatment / all | 0 / 0           | 0 / 1           |  |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           |  |
| Reactive gastropathy                            |                 |                 |  |
| subjects affected / exposed                     | 0 / 164 (0.00%) | 1 / 427 (0.23%) |  |
| occurrences causally related to treatment / all | 0 / 0           | 0 / 1           |  |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           |  |
| Rib fracture                                    |                 |                 |  |
| subjects affected / exposed                     | 0 / 164 (0.00%) | 1 / 427 (0.23%) |  |
| occurrences causally related to treatment / all | 0 / 0           | 0 / 1           |  |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           |  |
| Road traffic accident                           |                 |                 |  |
| subjects affected / exposed                     | 1 / 164 (0.61%) | 0 / 427 (0.00%) |  |
| occurrences causally related to treatment / all | 0 / 1           | 0 / 0           |  |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           |  |
| Skin laceration                                 |                 |                 |  |
| subjects affected / exposed                     | 0 / 164 (0.00%) | 0 / 427 (0.00%) |  |
| occurrences causally related to treatment / all | 0 / 0           | 0 / 0           |  |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           |  |
| Tendon rupture                                  |                 |                 |  |
| subjects affected / exposed                     | 0 / 164 (0.00%) | 2 / 427 (0.47%) |  |
| occurrences causally related to treatment / all | 0 / 0           | 0 / 2           |  |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           |  |
| Cardiac disorders                               |                 |                 |  |
| Atrial fibrillation                             |                 |                 |  |
| subjects affected / exposed                     | 0 / 164 (0.00%) | 2 / 427 (0.47%) |  |
| occurrences causally related to treatment / all | 0 / 0           | 0 / 2           |  |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           |  |
| Myocardial infarction                           |                 |                 |  |

|   |                 |                 |  |
|---|-----------------|-----------------|--|
| subjects affected / exposed                     | 0 / 164 (0.00%) | 2 / 427 (0.47%) |  |
| occurrences causally related to treatment / all | 0 / 0           | 0 / 2           |  |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 1           |  |
| Coronary artery disease                         |                 |                 |  |
| subjects affected / exposed                     | 0 / 164 (0.00%) | 1 / 427 (0.23%) |  |
| occurrences causally related to treatment / all | 0 / 0           | 0 / 1           |  |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           |  |
| Pericarditis                                    |                 |                 |  |
| subjects affected / exposed                     | 1 / 164 (0.61%) | 0 / 427 (0.00%) |  |
| occurrences causally related to treatment / all | 0 / 1           | 0 / 0           |  |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           |  |
| Nervous system disorders                        |                 |                 |  |
| Cerebral infarction                             |                 |                 |  |
| subjects affected / exposed                     | 0 / 164 (0.00%) | 1 / 427 (0.23%) |  |
| occurrences causally related to treatment / all | 0 / 0           | 0 / 1           |  |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           |  |
| Cerebral haemorrhage                            |                 |                 |  |
| subjects affected / exposed                     | 0 / 164 (0.00%) | 1 / 427 (0.23%) |  |
| occurrences causally related to treatment / all | 0 / 0           | 0 / 1           |  |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           |  |
| Dizziness                                       |                 |                 |  |
| subjects affected / exposed                     | 0 / 164 (0.00%) | 1 / 427 (0.23%) |  |
| occurrences causally related to treatment / all | 0 / 0           | 1 / 1           |  |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           |  |
| Paraesthesia                                    |                 |                 |  |
| subjects affected / exposed                     | 0 / 164 (0.00%) | 1 / 427 (0.23%) |  |
| occurrences causally related to treatment / all | 0 / 0           | 1 / 1           |  |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           |  |
| Eye disorders                                   |                 |                 |  |
| Endocrine ophthalmopathy                        |                 |                 |  |
| subjects affected / exposed                     | 0 / 164 (0.00%) | 1 / 427 (0.23%) |  |
| occurrences causally related to treatment / all | 0 / 0           | 0 / 1           |  |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           |  |
| Macular oedema                                  |                 |                 |  |

|   |                 |                 |  |
|---|-----------------|-----------------|--|
| subjects affected / exposed                     | 0 / 164 (0.00%) | 1 / 427 (0.23%) |  |
| occurrences causally related to treatment / all | 0 / 0           | 0 / 1           |  |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           |  |
| Ocular fistula                                  |                 |                 |  |
| subjects affected / exposed                     | 0 / 164 (0.00%) | 1 / 427 (0.23%) |  |
| occurrences causally related to treatment / all | 0 / 0           | 0 / 1           |  |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           |  |
| Ulcerative keratitis                            |                 |                 |  |
| subjects affected / exposed                     | 0 / 164 (0.00%) | 0 / 427 (0.00%) |  |
| occurrences causally related to treatment / all | 0 / 0           | 0 / 0           |  |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           |  |
| Gastrointestinal disorders                      |                 |                 |  |
| Enterocolitis haemorrhagic                      |                 |                 |  |
| subjects affected / exposed                     | 0 / 164 (0.00%) | 1 / 427 (0.23%) |  |
| occurrences causally related to treatment / all | 0 / 0           | 0 / 1           |  |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           |  |
| Hypertrophy of tongue papillae                  |                 |                 |  |
| subjects affected / exposed                     | 0 / 164 (0.00%) | 0 / 427 (0.00%) |  |
| occurrences causally related to treatment / all | 0 / 0           | 0 / 0           |  |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           |  |
| Hiatus hernia                                   |                 |                 |  |
| subjects affected / exposed                     | 0 / 164 (0.00%) | 1 / 427 (0.23%) |  |
| occurrences causally related to treatment / all | 0 / 0           | 0 / 1           |  |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           |  |
| Gastrointestinal polyp                          |                 |                 |  |
| subjects affected / exposed                     | 0 / 164 (0.00%) | 0 / 427 (0.00%) |  |
| occurrences causally related to treatment / all | 0 / 0           | 0 / 0           |  |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           |  |
| Femoral hernia                                  |                 |                 |  |
| subjects affected / exposed                     | 0 / 164 (0.00%) | 1 / 427 (0.23%) |  |
| occurrences causally related to treatment / all | 0 / 0           | 0 / 1           |  |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           |  |
| Inguinal hernia                                 |                 |                 |  |

|   |                 |                 |  |
|---|-----------------|-----------------|--|
| subjects affected / exposed                     | 0 / 164 (0.00%) | 1 / 427 (0.23%) |  |
| occurrences causally related to treatment / all | 0 / 0           | 0 / 1           |  |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           |  |
| Oesophagitis                                    |                 |                 |  |
| subjects affected / exposed                     | 0 / 164 (0.00%) | 1 / 427 (0.23%) |  |
| occurrences causally related to treatment / all | 0 / 0           | 0 / 1           |  |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           |  |
| Skin and subcutaneous tissue disorders          |                 |                 |  |
| Psoriasis                                       |                 |                 |  |
| subjects affected / exposed                     | 0 / 164 (0.00%) | 3 / 427 (0.70%) |  |
| occurrences causally related to treatment / all | 0 / 0           | 2 / 3           |  |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           |  |
| Erythrodermic psoriasis                         |                 |                 |  |
| subjects affected / exposed                     | 0 / 164 (0.00%) | 1 / 427 (0.23%) |  |
| occurrences causally related to treatment / all | 0 / 0           | 1 / 1           |  |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           |  |
| Renal and urinary disorders                     |                 |                 |  |
| Nephrolithiasis                                 |                 |                 |  |
| subjects affected / exposed                     | 1 / 164 (0.61%) | 0 / 427 (0.00%) |  |
| occurrences causally related to treatment / all | 0 / 1           | 0 / 0           |  |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           |  |
| Renal failure                                   |                 |                 |  |
| subjects affected / exposed                     | 0 / 164 (0.00%) | 1 / 427 (0.23%) |  |
| occurrences causally related to treatment / all | 0 / 0           | 0 / 2           |  |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           |  |
| Endocrine disorders                             |                 |                 |  |
| Goitre  |                 |                 |  |
| subjects affected / exposed                     | 1 / 164 (0.61%) | 0 / 427 (0.00%) |  |
| occurrences causally related to treatment / all | 0 / 1           | 0 / 0           |  |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           |  |
| Musculoskeletal and connective tissue disorders |                 |                 |  |
| Osteoarthritis                                  |                 |                 |  |

|   |                 |                 |  |
|---|-----------------|-----------------|--|
| subjects affected / exposed                     | 1 / 164 (0.61%) | 3 / 427 (0.70%) |  |
| occurrences causally related to treatment / all | 0 / 1           | 0 / 3           |  |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           |  |
| Intervertebral disc protrusion                  |                 |                 |  |
| subjects affected / exposed                     | 0 / 164 (0.00%) | 1 / 427 (0.23%) |  |
| occurrences causally related to treatment / all | 0 / 0           | 0 / 3           |  |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           |  |
| Bursitis  |                 |                 |  |
| subjects affected / exposed                     | 0 / 164 (0.00%) | 1 / 427 (0.23%) |  |
| occurrences causally related to treatment / all | 0 / 0           | 0 / 1           |  |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           |  |
| Infections and infestations                     |                 |                 |  |
| Bronchiolitis                                   |                 |                 |  |
| subjects affected / exposed                     | 0 / 164 (0.00%) | 1 / 427 (0.23%) |  |
| occurrences causally related to treatment / all | 0 / 0           | 0 / 1           |  |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           |  |
| Erysipelas                                      |                 |                 |  |
| subjects affected / exposed                     | 0 / 164 (0.00%) | 2 / 427 (0.47%) |  |
| occurrences causally related to treatment / all | 0 / 0           | 0 / 2           |  |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           |  |
| Gastrointestinal infection                      |                 |                 |  |
| subjects affected / exposed                     | 0 / 164 (0.00%) | 1 / 427 (0.23%) |  |
| occurrences causally related to treatment / all | 0 / 0           | 0 / 1           |  |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           |  |
| Urinary tract infection                         |                 |                 |  |
| subjects affected / exposed                     | 0 / 164 (0.00%) | 0 / 427 (0.00%) |  |
| occurrences causally related to treatment / all | 0 / 0           | 0 / 0           |  |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           |  |
| Vestibular neuronitis                           |                 |                 |  |
| subjects affected / exposed                     | 0 / 164 (0.00%) | 1 / 427 (0.23%) |  |
| occurrences causally related to treatment / all | 0 / 0           | 1 / 1           |  |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           |  |
| Tonsillitis                                     |                 |                 |  |

|   |                 |                 |  |
|---|-----------------|-----------------|--|
| subjects affected / exposed                     | 1 / 164 (0.61%) | 0 / 427 (0.00%) |  |
| occurrences causally related to treatment / all | 1 / 1           | 0 / 0           |  |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           |  |
| Pulpitis dental                                 |                 |                 |  |
| subjects affected / exposed                     | 1 / 164 (0.61%) | 0 / 427 (0.00%) |  |
| occurrences causally related to treatment / all | 0 / 1           | 0 / 0           |  |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           |  |
| Otitis media                                    |                 |                 |  |
| subjects affected / exposed                     | 0 / 164 (0.00%) | 1 / 427 (0.23%) |  |
| occurrences causally related to treatment / all | 0 / 0           | 1 / 1           |  |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           |  |
| Upper respiratory tract infection               |                 |                 |  |
| subjects affected / exposed                     | 1 / 164 (0.61%) | 0 / 427 (0.00%) |  |
| occurrences causally related to treatment / all | 1 / 1           | 0 / 0           |  |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           |  |
| Metabolism and nutrition disorders              |                 |                 |  |
| Hypercalcaemia                                  |                 |                 |  |
| subjects affected / exposed                     | 0 / 164 (0.00%) | 1 / 427 (0.23%) |  |
| occurrences causally related to treatment / all | 0 / 0           | 0 / 2           |  |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           |  |

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

| <b>Non-serious adverse events</b>                     | Core Period<br>Secukinumab | Core Period<br>Secukinumab +<br>Lifestyle<br>Intervention | Extension Period<br>Lifestyle<br>Intervention |
|---|----------------------------|---|---|
| Total subjects affected by non-serious adverse events |                            |   |   |
| subjects affected / exposed                           | 178 / 371 (47.98%)         | 204 / 409 (49.88%)  | 101 / 189 (53.44%)                            |
| Investigations  |                            |   |   |
| Alanine aminotransferase increased                    |                            |   |   |
| subjects affected / exposed                           | 10 / 371 (2.70%)           | 7 / 409 (1.71%)   | 2 / 189 (1.06%)                               |
| occurrences (all)                                     | 14                         | 9   | 2   |
| Vascular disorders                                    |                            |   |   |
| Hypertension  |                            |   |   |
| subjects affected / exposed                           | 19 / 371 (5.12%)           | 16 / 409 (3.91%)  | 9 / 189 (4.76%)                               |
| occurrences (all)                                     | 19                         | 18  | 9   |

|  |  |  |   |
|--|--|--|---|
| Nervous system disorders<br>Headache<br>subjects affected / exposed<br>occurrences (all)   | 40 / 371 (10.78%)<br>57                              | 36 / 409 (8.80%)<br>51                               | 18 / 189 (9.52%)<br>22                                |
| General disorders and administration site conditions<br>Fatigue<br>subjects affected / exposed<br>occurrences (all)  | 14 / 371 (3.77%)<br>14                               | 10 / 409 (2.44%)<br>14                               | 2 / 189 (1.06%)<br>2                                  |
| Gastrointestinal disorders<br>Diarrhoea<br>subjects affected / exposed<br>occurrences (all)  | 19 / 371 (5.12%)<br>26                               | 22 / 409 (5.38%)<br>25                               | 14 / 189 (7.41%)<br>20                                |
| Respiratory, thoracic and mediastinal disorders<br>Oropharyngeal pain<br>subjects affected / exposed<br>occurrences (all)  | 6 / 371 (1.62%)<br>6                                 | 16 / 409 (3.91%)<br>18                               | 3 / 189 (1.59%)<br>4                                  |
| Skin and subcutaneous tissue disorders<br>Pruritus<br>subjects affected / exposed<br>occurrences (all)<br><br>Psoriasis<br>subjects affected / exposed<br>occurrences (all)            | 16 / 371 (4.31%)<br>17<br><br>17 / 371 (4.58%)<br>20 | 17 / 409 (4.16%)<br>22<br><br>18 / 409 (4.40%)<br>18 | 3 / 189 (1.59%)<br>4<br><br>19 / 189 (10.05%)<br>19   |
| Musculoskeletal and connective tissue disorders<br>Arthralgia<br>subjects affected / exposed<br>occurrences (all)<br><br>Back pain<br>subjects affected / exposed<br>occurrences (all) | 11 / 371 (2.96%)<br>14<br><br>23 / 371 (6.20%)<br>24 | 40 / 409 (9.78%)<br>50<br><br>22 / 409 (5.38%)<br>22 | 18 / 189 (9.52%)<br>25<br><br>19 / 189 (10.05%)<br>19 |
| Infections and infestations<br>Nasopharyngitis<br>subjects affected / exposed<br>occurrences (all)   | 83 / 371 (22.37%)<br>107                             | 96 / 409 (23.47%)<br>121                             | 41 / 189 (21.69%)<br>51                               |

|                                   |  |                                 |  |
|-----------------------------------|--|---------------------------------|--|
| <b>Non-serious adverse events</b> | Extension Period<br>Lifestyle<br>Intervention +<br>Secukinumab | Extension Period<br>Secukinumab |  |
|-----------------------------------|--|---------------------------------|--|



|   |   |  |  |
|---|---|--|--|
| Total subjects affected by non-serious adverse events<br>subjects affected / exposed  | 103 / 164 (62.80%)                                    | 225 / 427 (52.69%)                                   |  |
| Investigations<br>Alanine aminotransferase increased<br>subjects affected / exposed<br>occurrences (all)  | 9 / 164 (5.49%)<br>14                                 | 9 / 427 (2.11%)<br>10                                |  |
| Vascular disorders<br>Hypertension<br>subjects affected / exposed<br>occurrences (all)  | 9 / 164 (5.49%)<br>10                                 | 20 / 427 (4.68%)<br>21                               |  |
| Nervous system disorders<br>Headache<br>subjects affected / exposed<br>occurrences (all)  | 20 / 164 (12.20%)<br>34                               | 40 / 427 (9.37%)<br>59                               |  |
| General disorders and administration site conditions<br>Fatigue<br>subjects affected / exposed<br>occurrences (all)   | 9 / 164 (5.49%)<br>13                                 | 16 / 427 (3.75%)<br>16                               |  |
| Gastrointestinal disorders<br>Diarrhoea<br>subjects affected / exposed<br>occurrences (all)   | 10 / 164 (6.10%)<br>12                                | 23 / 427 (5.39%)<br>27                               |  |
| Respiratory, thoracic and mediastinal disorders<br>Oropharyngeal pain<br>subjects affected / exposed<br>occurrences (all)   | 9 / 164 (5.49%)<br>9                                  | 11 / 427 (2.58%)<br>13                               |  |
| Skin and subcutaneous tissue disorders<br>Pruritus<br>subjects affected / exposed<br>occurrences (all)<br><br>Psoriasis<br>subjects affected / exposed<br>occurrences (all) | 14 / 164 (8.54%)<br>14<br><br>19 / 164 (11.59%)<br>20 | 22 / 427 (5.15%)<br>27<br><br>37 / 427 (8.67%)<br>40 |  |
| Musculoskeletal and connective tissue disorders<br>Arthralgia<br>subjects affected / exposed<br>occurrences (all)   | 19 / 164 (11.59%)<br>23                               | 19 / 427 (4.45%)<br>26                               |  |

|  |                         |                           |  |
|--|-------------------------|---------------------------|--|
| Back pain<br>subjects affected / exposed<br>occurrences (all)                                      | 9 / 164 (5.49%)<br>9    | 23 / 427 (5.39%)<br>26    |  |
| Infections and infestations<br>Nasopharyngitis<br>subjects affected / exposed<br>occurrences (all) | 49 / 164 (29.88%)<br>67 | 108 / 427 (25.29%)<br>145 |  |

## More information

### Substantial protocol amendments (globally)

Were there any global substantial amendments to the protocol? Yes

| Date              | Amendment  |
|-------------------|--|
| 25 January 2018   | <p>Amendment 1: The original protocol was amended in order to align details of the protocol with the patient documents of the lifestyle intervention program ("Lesebuch") and in order to complement the protocol with a few details that made the study procedure more clear.</p> <ul style="list-style-type: none"><li>• Section 5.5.3.2: Additional explanation about the time point (visit 2) when patients in arm B receive the materials which are part of the lifestyle intervention</li><li>• Section 6.5.4.1: Two laboratory markers are additionally captured at visit 1.</li><li>• Section 6: Additional explanatory footnote for table 6-1.</li><li>• Section 6.4.5: Waist circumference measurement method is adapted in order to align it with the patient documents of the lifestyle intervention program ("Lesebuch").</li></ul>   |
| 05 September 2018 | <p>Amendment 2: The protocol was amended in order to incorporate a biomarker sub-study. Moreover, regulations of study treatment discontinuations are being improved, minor inconsistencies are being corrected and clarifications are being added.</p> <ul style="list-style-type: none"><li>• Descriptions of the biomarker sub-study were added to the sections 2, 3.1, 3.6, 4.1, 6, 6.6.5, 7.1, 9.5.6, and 9.6.</li><li>• Section 5.6.2 and table 5-1: After study treatment discontinuation (i.e. discontinuation of secukinumab, lifestyle intervention or both) the patient will now continue to attend regular study visits as per visit schedule and all assessments will be performed as planned. If one study treatment is discontinued (i.e. secukinumab or lifestyle intervention) this should not lead to discontinuation of the other, unless there is a reason for discontinuation of the other. If a study treatment is discontinued, adequate replacement for this treatment may be sought outside of the study despite continued study participation.</li><li>• Table 6-1: Clarification that physical examination and drug accounting will only be performed at unscheduled visits if necessary, as determined by the treating physician.</li><li>• Section 6.2.2: Clarification that topical therapies are only collected for the last 24 month prior to signing the informed consent.</li><li>• Section 6.5.4.3.: Clarification that urine microscopy assessment, if needed, will be performed locally and correction of parameters assessed with the dipstick measurement.</li><li>• Section 9.5.1: Clarification that PASI assessments will also be performed at weeks 1, 2 and 3 and addition of missing secondary endpoints.</li><li>• Section 9.5.2.2: Change of wording from serum chemistry to clinical chemistry to align with the rest of the protocol.</li><li>• The list of abbreviations has been updated.</li></ul> |

Notes:

### Interruptions (globally)

Were there any global interruptions to the trial? No

### Limitations and caveats

None reported