



## Clinical trial results:

**A multi-center, randomized, open-label, parallel group study investigating the renal tolerability, efficacy and safety of a CNI-free regimen (everolimus and MPA) versus a CNI-regimen with everolimus in heart transplant recipients**

### Summary

|                          |                |
|--------------------------|----------------|
| EudraCT number           | 2007-002671-14 |
| Trial protocol           | DE             |
| Global end of trial date | 06 March 2017  |

### Results information

|                                |               |
|--------------------------------|---------------|
| Result version number          | v1 (current)  |
| This version publication date  | 22 March 2018 |
| First version publication date | 22 March 2018 |

### Trial information

#### Trial identification

|                       |              |
|-----------------------|--------------|
| Sponsor protocol code | CRAD001ADE14 |
|-----------------------|--------------|

#### Additional study identifiers

|                                    |             |
|------------------------------------|-------------|
| ISRCTN number                      | -           |
| ClinicalTrials.gov id (NCT number) | NCT00862979 |
| WHO universal trial number (UTN)   | -           |

Notes:

### Sponsors

|                              |   |
|------------------------------|---|
| Sponsor organisation name    | Novartis Pharma AG  |
| Sponsor organisation address | CH-4002, Basel, Switzerland,                                  |
| Public contact               | Clinical Disclosure Office, Novartis Pharma AG, 41 613241111, |
| Scientific contact           | Clinical Disclosure Office, Novartis Pharma AG, 41 613241111, |

Notes:

### Paediatric regulatory details

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

Notes:

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**Results analysis stage**

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|  |               |
|--|---------------|
| Analysis stage                                       | Final         |
| Date of interim/final analysis                       | 06 March 2017 |
| Is this the analysis of the primary completion data? | No            |

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|                                  |               |
|----------------------------------|---------------|
| Global end of trial reached?     | Yes           |
| Global end of trial date         | 06 March 2017 |
| Was the trial ended prematurely? | No            |

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Notes:

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**General information about the trial**

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Main objective of the trial:

The primary objective of this study was to demonstrate superiority of a CNI-free regimen with respect to the renal function at Month 18 post-transplant, assessed by glomerular filtration rate (GFR) (MDRD method) as compared to the standard CNI-based regimen in HTx patients.

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                          | 24 February 2009 |
| Long term follow-up planned                               | No               |
| Independent data monitoring committee (IDMC) involvement? | No               |

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Notes:

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**Population of trial subjects**

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**Subjects enrolled per country**

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|                                      |              |
|--------------------------------------|--------------|
| Country: Number of subjects enrolled | Germany: 162 |
| Worldwide total number of subjects   | 162          |
| EEA total number of subjects         | 162          |

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Notes:

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**Subjects enrolled per age group**

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|   |     |
|---|-----|
| 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)                      | 155 |
| From 65 to 84 years                       | 7   |
| 85 years and over                         | 0   |

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## Subject disposition

### Recruitment

Recruitment details: -

### Pre-assignment

Screening details:

232 patients were screened, of these , 193 patients were included in safety set which included 31 non-randomized and 162 randomized. Of these, 145 patients were treated with study medication and had at least 1 post-baseline assessment of the primary outcome variable and included in the Full Analysis Set FAS.

### Period 1

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

### Arms

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

Arm description:

CNI-regimen: cyclosporine A (CyA) or tacrolimus (TAC) with everolimus (EVR) with corticosteroids

|  |              |
|--|--------------|
| Arm type                               | Experimental |
| Investigational medicinal product name | Everolimus   |
| Investigational medicinal product code | RAD001       |
| Other name                             | Certican     |
| Pharmaceutical forms                   | Tablet       |
| Routes of administration               | Oral use     |

Dosage and administration details:

0.25mg, 0.75mg or 1.0mg based on blood levels (5-10 ng/mL) per day

|  |              |
|--|--------------|
| Investigational medicinal product name | tacrolimus   |
| Investigational medicinal product code |              |
| Other name                             | Prograf, TAC |
| Pharmaceutical forms                   | Capsule      |
| Routes of administration               | Oral use     |

Dosage and administration details:

0.5 mg, 1 mg, or 5 mg capsule given according to blood levels

|  |                         |
|--|-------------------------|
| Investigational medicinal product name | Cyclosporine A          |
| Investigational medicinal product code |                         |
| Other name                             | Sandimmun® Optoral, CyA |
| Pharmaceutical forms                   | Capsule                 |
| Routes of administration               | Oral use                |

Dosage and administration details:

10 mg, 25 mg, 50 mg or 100 mg capsule according to blood levels

|                  |                  |
|------------------|------------------|
| <b>Arm title</b> | CNI-free-regimen |
|------------------|------------------|

Arm description:

CNI-free regimen: everolimus (EVR) with MPA (either MMF or enteric coated mycophenolate sodium (EC-MPS)) and corticosteroids

|          |              |
|----------|--------------|
| Arm type | Experimental |
|----------|--------------|

|   |                                     |
|---|-------------------------------------|
| Investigational medicinal product name  | Everolimus                          |
| Investigational medicinal product code  | RAD001                              |
| Other name  | Certican                            |
| Pharmaceutical forms  | Tablet                              |
| Routes of administration  | Oral use                            |
| Dosage and administration details:  |                                     |
| 0.25mg, 0.75mg or 1.0mg based on blood levels (5-10 ng/mL) per day                            |                                     |
| Investigational medicinal product name  | Cyclosporine A                      |
| Investigational medicinal product code  |                                     |
| Other name  | Sandimmun® Optoral, CyA             |
| Pharmaceutical forms  | Capsule                             |
| Routes of administration  | Oral use                            |
| Dosage and administration details:  |                                     |
| 10 mg, 25 mg, 50 mg or 100 mg capsule according to blood levels dispense on month 6 to 9 only |                                     |
| Investigational medicinal product name  | tacrolimus                          |
| Investigational medicinal product code  |                                     |
| Other name  | Prograf, TAC                        |
| Pharmaceutical forms  | Capsule                             |
| Routes of administration  | Oral use                            |
| Dosage and administration details:  |                                     |
| 0.5 mg, 1 mg, or 5 mg capsule given according to blood levels dispense on month 6 to 9 only   |                                     |
| Investigational medicinal product name  | Enteric coated mycophenolate sodium |
| Investigational medicinal product code  |                                     |
| Other name  | Myfortic, EC-MPS                    |
| Pharmaceutical forms  | Tablet                              |
| Routes of administration  | Oral use                            |
| Dosage and administration details:  |                                     |
| 180 mg or 360 mg tablet dosed 1440-2280 mg per day  |                                     |
| Investigational medicinal product name  | mycophenolate mofetil               |
| Investigational medicinal product code  |                                     |
| Other name  | CellCept, MMF                       |
| Pharmaceutical forms  | Tablet                              |
| Routes of administration  | Oral use                            |
| Dosage and administration details:  |                                     |
| 250 mg or 500 mg tablets with a dose of 1500-3000 mg per day                                  |                                     |

| <b>Number of subjects in period 1</b> | CNI-regimen | CNI-free-regimen |
|---------------------------------------|-------------|------------------|
| Started                               | 84          | 78               |
| Completed                             | 76          | 71               |
| Not completed                         | 8           | 7                |
| Adverse event, serious fatal          | -           | 1                |
| Patient withdrew consent              | 2           | 1                |
| Adverse event, non-fatal              | 6           | 3                |
| Administrative problems               | -           | 1                |

|                    |   |   |
|--------------------|---|---|
| Protocol deviation | - | 1 |
|--------------------|---|---|

## Baseline characteristics

### Reporting groups

|  |                  |
|--|------------------|
| Reporting group title  | CNI-regimen      |
| Reporting group description:   |                  |
| CNI-regimen: cyclosporine A (CyA) or tacrolimus (TAC) with everolimus (EVR) with corticosteroids                             |                  |
| Reporting group title  | CNI-free-regimen |
| Reporting group description:   |                  |
| CNI-free regimen: everolimus (EVR) with MPA (either MMF or enteric coated mycophenolate sodium (EC-MPS)) and corticosteroids |                  |

| Reporting group values                             | CNI-regimen | CNI-free-regimen | Total |
|--|-------------|------------------|-------|
| Number of subjects                                 | 84          | 78               | 162   |
| Age categorical                                    |             |                  |       |
| 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)                               | 81          | 74               | 155   |
| From 65-84 years                                   | 3           | 4                | 7     |
| 85 years and over                                  | 0           | 0                | 0     |
| Age Continuous                                     |             |                  |       |
| Units: years                                       |             |                  |       |
| arithmetic mean                                    | 52.7        | 50.3             |       |
| standard deviation                                 | ± 9.7       | ± 9.8            | -     |
| Sex: Female, Male                                  |             |                  |       |
| Units: Subjects                                    |             |                  |       |
| Female   | 11          | 13               | 24    |
| Male   | 73          | 65               | 138   |

## End points

### End points reporting groups

|  |                  |
|--|------------------|
| Reporting group title  | CNI-regimen      |
| Reporting group description:   |                  |
| CNI-regimen: cyclosporine A (CyA) or tacrolimus (TAC) with everolimus (EVR) with corticosteroids                             |                  |
| Reporting group title  | CNI-free-regimen |
| Reporting group description:   |                  |
| CNI-free regimen: everolimus (EVR) with MPA (either MMF or enteric coated mycophenolate sodium (EC-MPS)) and corticosteroids |                  |

### Primary: Calculated Glomerular Filtration Rate (cGFR) Using Modification of Diet in Renal Disease (MDRD) Formula at Month 18

|  |   |
|--|---|
| End point title  | Calculated Glomerular Filtration Rate (cGFR) Using Modification of Diet in Renal Disease (MDRD) Formula at Month 18 |
| End point description:   |   |
| Calculated Glomerular Filtration Rate (cGFR) Using Modification of Diet in Renal Disease (MDRD) Formula at Month 18 $cGFR \text{ (in mL/min/1.73 m}^2\text{)} = 186.3 \cdot (C-1.154) \cdot (A-0.203) \cdot G \cdot R$ where C = the serum concentration of creatinine (mg/dL), A = age (years), G = 0.742 when gender is female, otherwise G = 1, R = 1.21 when race is black, otherwise R = 1. |   |
| End point type   | Primary   |
| End point timeframe:   |   |
| Month 18   |   |

| End point values                     | CNI-regimen     | CNI-free-regimen |  |  |
|--------------------------------------|-----------------|------------------|--|--|
| Subject group type                   | Reporting group | Reporting group  |  |  |
| Number of subjects analysed          | 69              | 65               |  |  |
| Units: mL/min                        |                 |                  |  |  |
| arithmetic mean (standard deviation) | 54.2 (± 17.9)   | 66.9 (± 23.0)    |  |  |

### Statistical analyses

|   |                                     |
|---|-------------------------------------|
| Statistical analysis title              | cGFR using MDRD Formula at Month 18 |
| Comparison groups                       | CNI-regimen v CNI-free-regimen      |
| Number of subjects included in analysis | 134                                 |
| Analysis specification                  | Pre-specified                       |
| Analysis type                           |                                     |
| P-value                                 | < 0.0001                            |
| Method                                  | ANCOVA                              |
| Parameter estimate                      | Mean difference (net)               |
| Point estimate                          | -11.3                               |

|                     |         |
|---------------------|---------|
| Confidence interval |         |
| level               | 95 %    |
| sides               | 2-sided |
| lower limit         | -16.5   |
| upper limit         | -6.1    |

### Secondary: Occurrence of treatment failures from Month 6 to 9 and Month 9 to 18

|                 |  |
|-----------------|--|
| End point title | Occurrence of treatment failures from Month 6 to 9 and Month 9 to 18 |
|-----------------|--|

End point description:

Treatment failure was defined as composite endpoint of biopsy proven acute rejection of ISHLT 1990 grade  $\geq$  3A resp. ISHLT 2004 grade  $\geq$  2R, acute rejection episodes associated with hemodynamic compromise, graft loss / re-transplant, death, loss to follow up (at least one condition must be present). If participant had an occurrence in each period it was counted for each period.

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

End point timeframe:

Month 6 to Month 9; Month 9 to Month 18

| End point values                                  | CNI-regimen     | CNI-free-regimen |  |  |
|---|-----------------|------------------|--|--|
| Subject group type                                | Reporting group | Reporting group  |  |  |
| Number of subjects analysed                       | 74              | 74               |  |  |
| Units: Occurrences                                |                 |                  |  |  |
| Month 6 to Month 9 Treatment failure-all reasons  | 1               | 4                |  |  |
| Month 9 to Month 18 Treatment failure-all reasons | 3               | 15               |  |  |

### Statistical analyses

|                            |  |
|----------------------------|--|
| Statistical analysis title | Occurrence of treatment failures from Month 6 to 9 |
|----------------------------|--|

Statistical analysis description:

Month 6 to Month 9

|   |                                |
|---|--------------------------------|
| Comparison groups                       | CNI-regimen v CNI-free-regimen |
| Number of subjects included in analysis | 148                            |
| Analysis specification                  | Pre-specified                  |
| Analysis type                           |                                |
| P-value                                 | = 0.203                        |
| Method                                  | Fisher exact                   |

|                            |  |
|----------------------------|--|
| Statistical analysis title | Occurrence of treatment failures from Month 9-18 |
|----------------------------|--|

Statistical analysis description:

Month 9 to Month 18



|   |                                |
|---|--------------------------------|
| Comparison groups                       | CNI-regimen v CNI-free-regimen |
| Number of subjects included in analysis | 148                            |
| Analysis specification                  | Pre-specified                  |
| Analysis type                           |                                |
| P-value                                 | = 0.002                        |
| Method                                  | Fisher exact                   |

### Secondary: Occurrence of major cardiac events (MACE) from Month 6 to 18

|  |  |
|--|--|
| End point title  | Occurrence of major cardiac events (MACE) from Month 6 to 18 |
| End point description:<br>Major cardiac events (MACE) was defined as one of the following: any death, myocardial infarction, coronary artery bypass grafting |  |
| End point type   | Secondary  |
| End point timeframe:<br>Month 6 to Month 18  |  |

| End point values            | CNI-regimen     | CNI-free-regimen |  |  |
|-----------------------------|-----------------|------------------|--|--|
| Subject group type          | Reporting group | Reporting group  |  |  |
| Number of subjects analysed | 74              | 71               |  |  |
| Units: Occurrences          |                 |                  |  |  |
| Myocardial infarction       | 1               | 0                |  |  |
| Death                       | 0               | 1                |  |  |

### Statistical analyses

No statistical analyses for this end point

### Secondary: Calculated Glomerular Filtration Rate (cGFR) according to Cockcroft-Gault at Month 12 and 18

|  |  |
|--|--|
| End point title  | Calculated Glomerular Filtration Rate (cGFR) according to Cockcroft-Gault at Month 12 and 18 |
| End point description:<br>Calculated Glomerular Filtration Rate (cGFR) according to Cockcroft-Gault at Month 12 and 18. For men: $GFR = (140 - \text{Age}) \times \text{Body weight (kg)} / 72 \times \text{Serum Creatinine (mg/dl)}$ For women: $GFR = 0.85 (140 - \text{Age}) \times \text{Body weight (kg)} / 72 \times \text{Serum Creatinine (mg/dl)}$ |  |
| End point type   | Secondary  |
| End point timeframe:<br>Month 12 and 18  |  |

| <b>End point values</b>              | CNI-regimen     | CNI-free-regimen |  |  |
|--------------------------------------|-----------------|------------------|--|--|
| Subject group type                   | Reporting group | Reporting group  |  |  |
| Number of subjects analysed          | 74              | 71               |  |  |
| Units: mL/min                        |                 |                  |  |  |
| arithmetic mean (standard deviation) |                 |                  |  |  |
| Month 12 n=68, 62                    | 54.2 (± 19.7)   | 69.8 (± 23.4)    |  |  |
| Month 18 n=69, 65                    | 54.2 (± 17.9)   | 66.9 (± 23.00)   |  |  |

## Statistical analyses

| <b>Statistical analysis title</b>             | cGFR according to Cockcroft-Gault at Month 12 |
|---|---|
| Statistical analysis description:<br>Month 12 |   |
| Comparison groups                             | CNI-regimen v CNI-free-regimen                |
| Number of subjects included in analysis       | 145   |
| Analysis specification                        | Pre-specified                                 |
| Analysis type                                 | superiority                                   |
| P-value                                       | < 0.0001                                      |
| Method  | ANCOVA  |
| Parameter estimate                            | Mean difference (final values)                |
| Point estimate                                | -14   |
| Confidence interval                           |   |
| level   | 95 %  |
| sides   | 2-sided                                       |
| lower limit                                   | -19.6   |
| upper limit                                   | -8.3  |

| <b>Statistical analysis title</b>             | cGFR according to Cockcroft-Gault at Month 18 |
|---|---|
| Statistical analysis description:<br>Month 18 |   |
| Comparison groups                             | CNI-regimen v CNI-free-regimen                |
| Number of subjects included in analysis       | 145   |
| Analysis specification                        | Pre-specified                                 |
| Analysis type                                 | superiority                                   |
| P-value                                       | < 0.0001                                      |
| Method  | ANCOVA  |
| Parameter estimate                            | Mean difference (final values)                |
| Point estimate                                | -11.3   |
| Confidence interval                           |   |
| level   | 95 %  |
| sides   | 2-sided                                       |
| lower limit                                   | -16.5   |
| upper limit                                   | -6.1  |

**Secondary: Serum Creatinine at Month 6, 8, 9, 10 12 and 18**

|                 |   |
|-----------------|---|
| End point title | Serum Creatinine at Month 6, 8, 9, 10 12 and 18 |
|-----------------|---|

End point description:

Serum Creatinine is an indicator of renal function measured in the blood

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

End point timeframe:

Month 6, 8, 9, 10 12 and 18

| End point values                     | CNI-regimen        | CNI-free-regimen   |  |  |
|--------------------------------------|--------------------|--------------------|--|--|
| Subject group type                   | Reporting group    | Reporting group    |  |  |
| Number of subjects analysed          | 74                 | 71                 |  |  |
| Units: $\mu\text{mol/L}$             |                    |                    |  |  |
| arithmetic mean (standard deviation) |                    |                    |  |  |
| Month 6                              | 1.53 ( $\pm$ 0.49) | 1.49 ( $\pm$ 0.51) |  |  |
| Month 8 n=73, 70                     | 1.44 ( $\pm$ 0.41) | 1.27 ( $\pm$ 0.35) |  |  |
| Month 9 n=74, 70                     | 1.58 ( $\pm$ 0.75) | 1.24 ( $\pm$ 0.32) |  |  |
| Month 10 n=74, 70                    | 1.53 ( $\pm$ 0.53) | 1.20 ( $\pm$ 0.30) |  |  |
| Month 12 n=74, 70                    | 1.53 ( $\pm$ 0.52) | 1.22 ( $\pm$ 0.33) |  |  |
| Month 18                             | 1.50 ( $\pm$ 0.50) | 1.27 ( $\pm$ 0.44) |  |  |

**Statistical analyses**

No statistical analyses for this end point

**Secondary: Reciprocal Creatinine Slope between Month 6 and Month 18**

|                 |  |
|-----------------|--|
| End point title | Reciprocal Creatinine Slope between Month 6 and Month 18 |
|-----------------|--|

End point description:

Reciprocal Creatinine Slope is an indication of renal function over time with a higher slope value indicating an improvement in renal function.

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

End point timeframe:

Between Month 6 and Month 18

| End point values                     | CNI-regimen          | CNI-free-regimen     |  |  |
|--------------------------------------|----------------------|----------------------|--|--|
| Subject group type                   | Reporting group      | Reporting group      |  |  |
| Number of subjects analysed          | 74                   | 71                   |  |  |
| Units: 1/serum vs time               |                      |                      |  |  |
| arithmetic mean (standard deviation) | 0.045 ( $\pm$ 0.364) | 0.403 ( $\pm$ 1.863) |  |  |

## Statistical analyses

|   |  |
|---|--|
| <b>Statistical analysis title</b>       | Reciprocal Creatinine Slope between Month 6&18 |
| Comparison groups                       | CNI-regimen v CNI-free-regimen                 |
| Number of subjects included in analysis | 145  |
| Analysis specification                  | Pre-specified                                  |
| Analysis type                           |  |
| P-value                                 | = 0.008  |
| Method                                  | Wilcoxon (Mann-Whitney)                        |

## Adverse events

### Adverse events information

Timeframe for reporting adverse events:

Adverse events are collected from First Patient First Visit (FPFV) until Last Patient Last Visit (LPLV). All adverse events reported in this record are from date of First Patient First Treatment until Last Patient Last Visit

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 | 20.0   |

### Reporting groups

|                       |             |
|-----------------------|-------------|
| Reporting group title | CNI-Regimen |
|-----------------------|-------------|

Reporting group description:

CNI-Regimen

|                       |                  |
|-----------------------|------------------|
| Reporting group title | CNI-free-regimen |
|-----------------------|------------------|

Reporting group description:

CNI-free-regimen

| Serious adverse events  | CNI-Regimen      | CNI-free-regimen |  |
|---|------------------|------------------|--|
| Total subjects affected by serious adverse events                   |                  |                  |  |
| subjects affected / exposed   | 40 / 84 (47.62%) | 29 / 78 (37.18%) |  |
| number of deaths (all causes)                                       | 0                | 1                |  |
| number of deaths resulting from adverse events                      | 0                | 0                |  |
| Neoplasms benign, malignant and unspecified (incl cysts and polyps) |                  |                  |  |
| B-CELL LYMPHOMA   |                  |                  |  |
| subjects affected / exposed   | 1 / 84 (1.19%)   | 0 / 78 (0.00%)   |  |
| occurrences causally related to treatment / all                     | 0 / 1            | 0 / 0            |  |
| deaths causally related to treatment / all                          | 0 / 0            | 0 / 0            |  |
| BLADDER CANCER  |                  |                  |  |
| subjects affected / exposed   | 1 / 84 (1.19%)   | 0 / 78 (0.00%)   |  |
| occurrences causally related to treatment / all                     | 1 / 1            | 0 / 0            |  |
| deaths causally related to treatment / all                          | 0 / 0            | 0 / 0            |  |
| PLASMACYTOMA  |                  |                  |  |

|  |                |                |  |
|--|----------------|----------------|--|
| subjects affected / exposed                          | 1 / 84 (1.19%) | 0 / 78 (0.00%) |  |
| occurrences causally related to treatment / all      | 0 / 1          | 0 / 0          |  |
| deaths causally related to treatment / all           | 0 / 0          | 0 / 0          |  |
| PROSTATE CANCER RECURRENT                            |                |                |  |
| subjects affected / exposed                          | 0 / 84 (0.00%) | 1 / 78 (1.28%) |  |
| occurrences causally related to treatment / all      | 0 / 0          | 0 / 1          |  |
| deaths causally related to treatment / all           | 0 / 0          | 0 / 0          |  |
| Vascular disorders                                   |                |                |  |
| ANEURYSM   |                |                |  |
| subjects affected / exposed                          | 0 / 84 (0.00%) | 1 / 78 (1.28%) |  |
| occurrences causally related to treatment / all      | 0 / 0          | 0 / 1          |  |
| deaths causally related to treatment / all           | 0 / 0          | 0 / 0          |  |
| ANGIOPATHY   |                |                |  |
| subjects affected / exposed                          | 1 / 84 (1.19%) | 0 / 78 (0.00%) |  |
| occurrences causally related to treatment / all      | 0 / 1          | 0 / 0          |  |
| deaths causally related to treatment / all           | 0 / 0          | 0 / 0          |  |
| DEEP VEIN THROMBOSIS                                 |                |                |  |
| subjects affected / exposed                          | 3 / 84 (3.57%) | 0 / 78 (0.00%) |  |
| occurrences causally related to treatment / all      | 1 / 3          | 0 / 0          |  |
| deaths causally related to treatment / all           | 0 / 0          | 0 / 0          |  |
| HYPERTENSION   |                |                |  |
| subjects affected / exposed                          | 1 / 84 (1.19%) | 0 / 78 (0.00%) |  |
| occurrences causally related to treatment / all      | 0 / 1          | 0 / 0          |  |
| deaths causally related to treatment / all           | 0 / 0          | 0 / 0          |  |
| Surgical and medical procedures                      |                |                |  |
| MEDICAL DEVICE REMOVAL                               |                |                |  |
| subjects affected / exposed                          | 1 / 84 (1.19%) | 0 / 78 (0.00%) |  |
| occurrences causally related to treatment / all      | 0 / 1          | 0 / 0          |  |
| deaths causally related to treatment / all           | 0 / 0          | 0 / 0          |  |
| General disorders and administration site conditions |                |                |  |
| CHEST PAIN   |                |                |  |
| subjects affected / exposed                          | 1 / 84 (1.19%) | 0 / 78 (0.00%) |  |
| occurrences causally related to treatment / all      | 0 / 1          | 0 / 0          |  |
| deaths causally related to treatment / all           | 0 / 0          | 0 / 0          |  |

|   |                |                |  |
|---|----------------|----------------|--|
| CHILLS  |                |                |  |
| subjects affected / exposed                     | 0 / 84 (0.00%) | 1 / 78 (1.28%) |  |
| occurrences causally related to treatment / all | 0 / 0          | 0 / 1          |  |
| deaths causally related to treatment / all      | 0 / 0          | 0 / 0          |  |
| FATIGUE   |                |                |  |
| subjects affected / exposed                     | 0 / 84 (0.00%) | 1 / 78 (1.28%) |  |
| occurrences causally related to treatment / all | 0 / 0          | 0 / 1          |  |
| deaths causally related to treatment / all      | 0 / 0          | 0 / 0          |  |
| OEDEMA  |                |                |  |
| subjects affected / exposed                     | 1 / 84 (1.19%) | 0 / 78 (0.00%) |  |
| occurrences causally related to treatment / all | 0 / 1          | 0 / 0          |  |
| deaths causally related to treatment / all      | 0 / 0          | 0 / 0          |  |
| OEDEMA PERIPHERAL                               |                |                |  |
| subjects affected / exposed                     | 1 / 84 (1.19%) | 0 / 78 (0.00%) |  |
| occurrences causally related to treatment / all | 1 / 1          | 0 / 0          |  |
| deaths causally related to treatment / all      | 0 / 0          | 0 / 0          |  |
| PYREXIA   |                |                |  |
| subjects affected / exposed                     | 0 / 84 (0.00%) | 2 / 78 (2.56%) |  |
| occurrences causally related to treatment / all | 0 / 0          | 0 / 3          |  |
| deaths causally related to treatment / all      | 0 / 0          | 0 / 0          |  |
| STENOSIS  |                |                |  |
| subjects affected / exposed                     | 1 / 84 (1.19%) | 0 / 78 (0.00%) |  |
| occurrences causally related to treatment / all | 0 / 1          | 0 / 0          |  |
| deaths causally related to treatment / all      | 0 / 0          | 0 / 0          |  |
| Immune system disorders                         |                |                |  |
| HEART TRANSPLANT REJECTION                      |                |                |  |
| subjects affected / exposed                     | 3 / 84 (3.57%) | 7 / 78 (8.97%) |  |
| occurrences causally related to treatment / all | 0 / 3          | 7 / 8          |  |
| deaths causally related to treatment / all      | 0 / 0          | 0 / 1          |  |
| Reproductive system and breast disorders        |                |                |  |
| BENIGN PROSTATIC HYPERPLASIA                    |                |                |  |
| subjects affected / exposed                     | 0 / 84 (0.00%) | 1 / 78 (1.28%) |  |
| occurrences causally related to treatment / all | 0 / 0          | 0 / 1          |  |
| deaths causally related to treatment / all      | 0 / 0          | 0 / 0          |  |

|   |                |                |  |
|---|----------------|----------------|--|
| Respiratory, thoracic and mediastinal disorders |                |                |  |
| DYSпноEA  |                |                |  |
| subjects affected / exposed                     | 1 / 84 (1.19%) | 0 / 78 (0.00%) |  |
| occurrences causally related to treatment / all | 0 / 1          | 0 / 0          |  |
| deaths causally related to treatment / all      | 0 / 0          | 0 / 0          |  |
| PULMONARY EMBOLISM                              |                |                |  |
| subjects affected / exposed                     | 1 / 84 (1.19%) | 0 / 78 (0.00%) |  |
| occurrences causally related to treatment / all | 0 / 1          | 0 / 0          |  |
| deaths causally related to treatment / all      | 0 / 0          | 0 / 0          |  |
| PULMONARY MASS                                  |                |                |  |
| subjects affected / exposed                     | 1 / 84 (1.19%) | 0 / 78 (0.00%) |  |
| occurrences causally related to treatment / all | 0 / 1          | 0 / 0          |  |
| deaths causally related to treatment / all      | 0 / 0          | 0 / 0          |  |
| Investigations                                  |                |                |  |
| BLOOD CREATININE INCREASED                      |                |                |  |
| subjects affected / exposed                     | 1 / 84 (1.19%) | 0 / 78 (0.00%) |  |
| occurrences causally related to treatment / all | 0 / 2          | 0 / 0          |  |
| deaths causally related to treatment / all      | 0 / 0          | 0 / 0          |  |
| C-REACTIVE PROTEIN INCREASED                    |                |                |  |
| subjects affected / exposed                     | 2 / 84 (2.38%) | 0 / 78 (0.00%) |  |
| occurrences causally related to treatment / all | 0 / 2          | 0 / 0          |  |
| deaths causally related to treatment / all      | 0 / 0          | 0 / 0          |  |
| HAEMOGLOBIN DECREASED                           |                |                |  |
| subjects affected / exposed                     | 1 / 84 (1.19%) | 0 / 78 (0.00%) |  |
| occurrences causally related to treatment / all | 0 / 1          | 0 / 0          |  |
| deaths causally related to treatment / all      | 0 / 0          | 0 / 0          |  |
| INFLAMMATORY MARKER INCREASED                   |                |                |  |
| subjects affected / exposed                     | 1 / 84 (1.19%) | 0 / 78 (0.00%) |  |
| occurrences causally related to treatment / all | 0 / 1          | 0 / 0          |  |
| deaths causally related to treatment / all      | 0 / 0          | 0 / 0          |  |
| WEIGHT INCREASED                                |                |                |  |



|   |                |                |  |
|---|----------------|----------------|--|
| subjects affected / exposed                     | 1 / 84 (1.19%) | 0 / 78 (0.00%) |  |
| occurrences causally related to treatment / all | 0 / 1          | 0 / 0          |  |
| deaths causally related to treatment / all      | 0 / 0          | 0 / 0          |  |
| Injury, poisoning and procedural complications  |                |                |  |
| ACETABULUM FRACTURE                             |                |                |  |
| subjects affected / exposed                     | 1 / 84 (1.19%) | 0 / 78 (0.00%) |  |
| occurrences causally related to treatment / all | 0 / 1          | 0 / 0          |  |
| deaths causally related to treatment / all      | 0 / 0          | 0 / 0          |  |
| LUMBAR VERTEBRAL FRACTURE                       |                |                |  |
| subjects affected / exposed                     | 1 / 84 (1.19%) | 0 / 78 (0.00%) |  |
| occurrences causally related to treatment / all | 0 / 1          | 0 / 0          |  |
| deaths causally related to treatment / all      | 0 / 0          | 0 / 0          |  |
| VASCULAR PSEUDOANEURYSM                         |                |                |  |
| subjects affected / exposed                     | 1 / 84 (1.19%) | 0 / 78 (0.00%) |  |
| occurrences causally related to treatment / all | 0 / 1          | 0 / 0          |  |
| deaths causally related to treatment / all      | 0 / 0          | 0 / 0          |  |
| Cardiac disorders                               |                |                |  |
| ATRIAL FIBRILLATION                             |                |                |  |
| subjects affected / exposed                     | 0 / 84 (0.00%) | 3 / 78 (3.85%) |  |
| occurrences causally related to treatment / all | 0 / 0          | 1 / 4          |  |
| deaths causally related to treatment / all      | 0 / 0          | 0 / 1          |  |
| ATRIAL FLUTTER                                  |                |                |  |
| subjects affected / exposed                     | 0 / 84 (0.00%) | 1 / 78 (1.28%) |  |
| occurrences causally related to treatment / all | 0 / 0          | 0 / 1          |  |
| deaths causally related to treatment / all      | 0 / 0          | 0 / 0          |  |
| CORONARY ARTERY STENOSIS                        |                |                |  |
| subjects affected / exposed                     | 1 / 84 (1.19%) | 1 / 78 (1.28%) |  |
| occurrences causally related to treatment / all | 0 / 1          | 0 / 1          |  |
| deaths causally related to treatment / all      | 0 / 0          | 0 / 0          |  |
| LEFT VENTRICULAR DYSFUNCTION                    |                |                |  |
| subjects affected / exposed                     | 1 / 84 (1.19%) | 1 / 78 (1.28%) |  |
| occurrences causally related to treatment / all | 0 / 1          | 0 / 1          |  |
| deaths causally related to treatment / all      | 0 / 0          | 0 / 0          |  |

|   |                |                |  |
|---|----------------|----------------|--|
| PERICARDIAL EFFUSION                            |                |                |  |
| subjects affected / exposed                     | 0 / 84 (0.00%) | 1 / 78 (1.28%) |  |
| occurrences causally related to treatment / all | 0 / 0          | 0 / 1          |  |
| deaths causally related to treatment / all      | 0 / 0          | 0 / 0          |  |
| SINUS TACHYCARDIA                               |                |                |  |
| subjects affected / exposed                     | 1 / 84 (1.19%) | 0 / 78 (0.00%) |  |
| occurrences causally related to treatment / all | 0 / 1          | 0 / 0          |  |
| deaths causally related to treatment / all      | 0 / 0          | 0 / 0          |  |
| TACHYCARDIA                                     |                |                |  |
| subjects affected / exposed                     | 0 / 84 (0.00%) | 1 / 78 (1.28%) |  |
| occurrences causally related to treatment / all | 0 / 0          | 0 / 1          |  |
| deaths causally related to treatment / all      | 0 / 0          | 0 / 0          |  |
| Nervous system disorders                        |                |                |  |
| MYOCLONIC EPILEPSY                              |                |                |  |
| subjects affected / exposed                     | 1 / 84 (1.19%) | 0 / 78 (0.00%) |  |
| occurrences causally related to treatment / all | 0 / 1          | 0 / 0          |  |
| deaths causally related to treatment / all      | 0 / 0          | 0 / 0          |  |
| SCIATICA  |                |                |  |
| subjects affected / exposed                     | 0 / 84 (0.00%) | 1 / 78 (1.28%) |  |
| occurrences causally related to treatment / all | 0 / 0          | 0 / 1          |  |
| deaths causally related to treatment / all      | 0 / 0          | 0 / 0          |  |
| SYNCOPE   |                |                |  |
| subjects affected / exposed                     | 2 / 84 (2.38%) | 1 / 78 (1.28%) |  |
| occurrences causally related to treatment / all | 0 / 2          | 0 / 1          |  |
| deaths causally related to treatment / all      | 0 / 0          | 0 / 0          |  |
| Blood and lymphatic system disorders            |                |                |  |
| ANAEMIA   |                |                |  |
| subjects affected / exposed                     | 2 / 84 (2.38%) | 0 / 78 (0.00%) |  |
| occurrences causally related to treatment / all | 0 / 2          | 0 / 0          |  |
| deaths causally related to treatment / all      | 0 / 0          | 0 / 0          |  |
| Eye disorders                                   |                |                |  |
| EYE PAIN  |                |                |  |

|   |                |                |  |
|---|----------------|----------------|--|
| subjects affected / exposed                     | 0 / 84 (0.00%) | 1 / 78 (1.28%) |  |
| occurrences causally related to treatment / all | 0 / 0          | 0 / 1          |  |
| deaths causally related to treatment / all      | 0 / 0          | 0 / 0          |  |
| GLAUCOMA  |                |                |  |
| subjects affected / exposed                     | 0 / 84 (0.00%) | 1 / 78 (1.28%) |  |
| occurrences causally related to treatment / all | 0 / 0          | 0 / 1          |  |
| deaths causally related to treatment / all      | 0 / 0          | 0 / 0          |  |
| Gastrointestinal disorders                      |                |                |  |
| ABDOMINAL HERNIA                                |                |                |  |
| subjects affected / exposed                     | 1 / 84 (1.19%) | 0 / 78 (0.00%) |  |
| occurrences causally related to treatment / all | 0 / 1          | 0 / 0          |  |
| deaths causally related to treatment / all      | 0 / 0          | 0 / 0          |  |
| APHTHOUS ULCER                                  |                |                |  |
| subjects affected / exposed                     | 0 / 84 (0.00%) | 1 / 78 (1.28%) |  |
| occurrences causally related to treatment / all | 0 / 0          | 0 / 1          |  |
| deaths causally related to treatment / all      | 0 / 0          | 0 / 0          |  |
| COLITIS ISCHAEMIC                               |                |                |  |
| subjects affected / exposed                     | 0 / 84 (0.00%) | 1 / 78 (1.28%) |  |
| occurrences causally related to treatment / all | 0 / 0          | 0 / 1          |  |
| deaths causally related to treatment / all      | 0 / 0          | 0 / 0          |  |
| DIARRHOEA                                       |                |                |  |
| subjects affected / exposed                     | 1 / 84 (1.19%) | 2 / 78 (2.56%) |  |
| occurrences causally related to treatment / all | 1 / 1          | 0 / 2          |  |
| deaths causally related to treatment / all      | 0 / 0          | 0 / 0          |  |
| INGUINAL HERNIA                                 |                |                |  |
| subjects affected / exposed                     | 1 / 84 (1.19%) | 0 / 78 (0.00%) |  |
| occurrences causally related to treatment / all | 0 / 1          | 0 / 0          |  |
| deaths causally related to treatment / all      | 0 / 0          | 0 / 0          |  |
| NAUSEA  |                |                |  |
| subjects affected / exposed                     | 1 / 84 (1.19%) | 0 / 78 (0.00%) |  |
| occurrences causally related to treatment / all | 1 / 1          | 0 / 0          |  |
| deaths causally related to treatment / all      | 0 / 0          | 0 / 0          |  |
| VOMITING  |                |                |  |

|   |                |                |  |
|---|----------------|----------------|--|
| subjects affected / exposed                     | 1 / 84 (1.19%) | 1 / 78 (1.28%) |  |
| occurrences causally related to treatment / all | 1 / 1          | 0 / 1          |  |
| deaths causally related to treatment / all      | 0 / 0          | 0 / 0          |  |
| <b>Hepatobiliary disorders</b>                  |                |                |  |
| <b>CHOLECYSTITIS</b>                            |                |                |  |
| subjects affected / exposed                     | 1 / 84 (1.19%) | 0 / 78 (0.00%) |  |
| occurrences causally related to treatment / all | 0 / 2          | 0 / 0          |  |
| deaths causally related to treatment / all      | 0 / 0          | 0 / 0          |  |
| <b>CHOLECYSTITIS ACUTE</b>                      |                |                |  |
| subjects affected / exposed                     | 1 / 84 (1.19%) | 0 / 78 (0.00%) |  |
| occurrences causally related to treatment / all | 0 / 1          | 0 / 0          |  |
| deaths causally related to treatment / all      | 0 / 0          | 0 / 0          |  |
| <b>CHOLECYSTITIS CHRONIC</b>                    |                |                |  |
| subjects affected / exposed                     | 1 / 84 (1.19%) | 0 / 78 (0.00%) |  |
| occurrences causally related to treatment / all | 0 / 1          | 0 / 0          |  |
| deaths causally related to treatment / all      | 0 / 0          | 0 / 0          |  |
| <b>CHOLELITHIASIS</b>                           |                |                |  |
| subjects affected / exposed                     | 2 / 84 (2.38%) | 0 / 78 (0.00%) |  |
| occurrences causally related to treatment / all | 0 / 3          | 0 / 0          |  |
| deaths causally related to treatment / all      | 0 / 0          | 0 / 0          |  |
| <b>Skin and subcutaneous tissue disorders</b>   |                |                |  |
| <b>ANGIOEDEMA</b>                               |                |                |  |
| subjects affected / exposed                     | 1 / 84 (1.19%) | 0 / 78 (0.00%) |  |
| occurrences causally related to treatment / all | 1 / 1          | 0 / 0          |  |
| deaths causally related to treatment / all      | 0 / 0          | 0 / 0          |  |
| <b>DIABETIC FOOT</b>                            |                |                |  |
| subjects affected / exposed                     | 1 / 84 (1.19%) | 0 / 78 (0.00%) |  |
| occurrences causally related to treatment / all | 0 / 1          | 0 / 0          |  |
| deaths causally related to treatment / all      | 0 / 0          | 0 / 0          |  |
| <b>SKIN HAEMORRHAGE</b>                         |                |                |  |
| subjects affected / exposed                     | 1 / 84 (1.19%) | 0 / 78 (0.00%) |  |
| occurrences causally related to treatment / all | 0 / 1          | 0 / 0          |  |
| deaths causally related to treatment / all      | 0 / 0          | 0 / 0          |  |
| <b>Renal and urinary disorders</b>              |                |                |  |

|   |                |                |  |
|---|----------------|----------------|--|
| ACUTE KIDNEY INJURY                             |                |                |  |
| subjects affected / exposed                     | 2 / 84 (2.38%) | 1 / 78 (1.28%) |  |
| occurrences causally related to treatment / all | 1 / 2          | 0 / 1          |  |
| deaths causally related to treatment / all      | 0 / 0          | 0 / 0          |  |
| CHRONIC KIDNEY DISEASE                          |                |                |  |
| subjects affected / exposed                     | 2 / 84 (2.38%) | 0 / 78 (0.00%) |  |
| occurrences causally related to treatment / all | 0 / 2          | 0 / 0          |  |
| deaths causally related to treatment / all      | 0 / 0          | 0 / 0          |  |
| HAEMATURIA                                      |                |                |  |
| subjects affected / exposed                     | 1 / 84 (1.19%) | 0 / 78 (0.00%) |  |
| occurrences causally related to treatment / all | 0 / 1          | 0 / 0          |  |
| deaths causally related to treatment / all      | 0 / 0          | 0 / 0          |  |
| RENAL ARTERY STENOSIS                           |                |                |  |
| subjects affected / exposed                     | 1 / 84 (1.19%) | 0 / 78 (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                     | 1 / 84 (1.19%) | 0 / 78 (0.00%) |  |
| occurrences causally related to treatment / all | 1 / 1          | 0 / 0          |  |
| deaths causally related to treatment / all      | 0 / 0          | 0 / 0          |  |
| RENAL IMPAIRMENT                                |                |                |  |
| subjects affected / exposed                     | 1 / 84 (1.19%) | 0 / 78 (0.00%) |  |
| occurrences causally related to treatment / all | 0 / 1          | 0 / 0          |  |
| deaths causally related to treatment / all      | 0 / 0          | 0 / 0          |  |
| URINARY RETENTION                               |                |                |  |
| subjects affected / exposed                     | 1 / 84 (1.19%) | 2 / 78 (2.56%) |  |
| occurrences causally related to treatment / all | 0 / 1          | 0 / 2          |  |
| deaths causally related to treatment / all      | 0 / 0          | 0 / 0          |  |
| Endocrine disorders                             |                |                |  |
| HYPERTHYROIDISM                                 |                |                |  |
| subjects affected / exposed                     | 1 / 84 (1.19%) | 0 / 78 (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                                       |                |                |  |
| BACK PAIN                                       |                |                |  |
| subjects affected / exposed                     | 0 / 84 (0.00%) | 1 / 78 (1.28%) |  |
| occurrences causally related to treatment / all | 0 / 0          | 0 / 1          |  |
| deaths causally related to treatment / all      | 0 / 0          | 0 / 0          |  |
| OSTEOARTHRITIS                                  |                |                |  |
| subjects affected / exposed                     | 1 / 84 (1.19%) | 0 / 78 (0.00%) |  |
| occurrences causally related to treatment / all | 0 / 1          | 0 / 0          |  |
| deaths causally related to treatment / all      | 0 / 0          | 0 / 0          |  |
| OSTEOPOROSIS                                    |                |                |  |
| subjects affected / exposed                     | 1 / 84 (1.19%) | 0 / 78 (0.00%) |  |
| occurrences causally related to treatment / all | 0 / 1          | 0 / 0          |  |
| deaths causally related to treatment / all      | 0 / 0          | 0 / 0          |  |
| Infections and infestations                     |                |                |  |
| ANAL ABSCESS                                    |                |                |  |
| subjects affected / exposed                     | 0 / 84 (0.00%) | 1 / 78 (1.28%) |  |
| occurrences causally related to treatment / all | 0 / 0          | 0 / 1          |  |
| deaths causally related to treatment / all      | 0 / 0          | 0 / 0          |  |
| ASPERGILLOMA                                    |                |                |  |
| subjects affected / exposed                     | 1 / 84 (1.19%) | 0 / 78 (0.00%) |  |
| occurrences causally related to treatment / all | 1 / 1          | 0 / 0          |  |
| deaths causally related to treatment / all      | 0 / 0          | 0 / 0          |  |
| ASPERGILLUS INFECTION                           |                |                |  |
| subjects affected / exposed                     | 2 / 84 (2.38%) | 0 / 78 (0.00%) |  |
| occurrences causally related to treatment / all | 1 / 2          | 0 / 0          |  |
| deaths causally related to treatment / all      | 0 / 0          | 0 / 0          |  |
| BACTERAEemia                                    |                |                |  |
| subjects affected / exposed                     | 1 / 84 (1.19%) | 0 / 78 (0.00%) |  |
| occurrences causally related to treatment / all | 1 / 1          | 0 / 0          |  |
| deaths causally related to treatment / all      | 0 / 0          | 0 / 0          |  |
| BACTERIAL INFECTION                             |                |                |  |
| subjects affected / exposed                     | 1 / 84 (1.19%) | 0 / 78 (0.00%) |  |
| occurrences causally related to treatment / all | 1 / 1          | 0 / 0          |  |
| deaths causally related to treatment / all      | 0 / 0          | 0 / 0          |  |

|   |                |                |  |
|---|----------------|----------------|--|
| CAMPYLOBACTER GASTROENTERITIS                   |                |                |  |
| subjects affected / exposed                     | 1 / 84 (1.19%) | 0 / 78 (0.00%) |  |
| occurrences causally related to treatment / all | 0 / 1          | 0 / 0          |  |
| deaths causally related to treatment / all      | 0 / 0          | 0 / 0          |  |
| CLOSTRIDIUM DIFFICILE COLITIS                   |                |                |  |
| subjects affected / exposed                     | 1 / 84 (1.19%) | 0 / 78 (0.00%) |  |
| occurrences causally related to treatment / all | 0 / 1          | 0 / 0          |  |
| deaths causally related to treatment / all      | 0 / 0          | 0 / 0          |  |
| CYTOMEGALOVIRUS INFECTION                       |                |                |  |
| subjects affected / exposed                     | 0 / 84 (0.00%) | 1 / 78 (1.28%) |  |
| occurrences causally related to treatment / all | 0 / 0          | 0 / 1          |  |
| deaths causally related to treatment / all      | 0 / 0          | 0 / 0          |  |
| DEVICE RELATED INFECTION                        |                |                |  |
| subjects affected / exposed                     | 0 / 84 (0.00%) | 1 / 78 (1.28%) |  |
| occurrences causally related to treatment / all | 0 / 0          | 1 / 1          |  |
| deaths causally related to treatment / all      | 0 / 0          | 0 / 0          |  |
| DIABETIC GANGRENE                               |                |                |  |
| subjects affected / exposed                     | 0 / 84 (0.00%) | 1 / 78 (1.28%) |  |
| occurrences causally related to treatment / all | 0 / 0          | 0 / 1          |  |
| deaths causally related to treatment / all      | 0 / 0          | 0 / 0          |  |
| DIVERTICULITIS                                  |                |                |  |
| subjects affected / exposed                     | 2 / 84 (2.38%) | 0 / 78 (0.00%) |  |
| occurrences causally related to treatment / all | 0 / 2          | 0 / 0          |  |
| deaths causally related to treatment / all      | 0 / 0          | 0 / 0          |  |
| ENDOCARDITIS                                    |                |                |  |
| subjects affected / exposed                     | 0 / 84 (0.00%) | 1 / 78 (1.28%) |  |
| occurrences causally related to treatment / all | 0 / 0          | 1 / 1          |  |
| deaths causally related to treatment / all      | 0 / 0          | 0 / 0          |  |
| ESCHERICHIA INFECTION                           |                |                |  |
| subjects affected / exposed                     | 1 / 84 (1.19%) | 0 / 78 (0.00%) |  |
| occurrences causally related to treatment / all | 0 / 1          | 0 / 0          |  |
| deaths causally related to treatment / all      | 0 / 0          | 0 / 0          |  |
| FEBRILE INFECTION                               |                |                |  |

|   |                |                |  |
|---|----------------|----------------|--|
| subjects affected / exposed                     | 1 / 84 (1.19%) | 0 / 78 (0.00%) |  |
| occurrences causally related to treatment / all | 0 / 1          | 0 / 0          |  |
| deaths causally related to treatment / all      | 0 / 0          | 0 / 0          |  |
| <b>GASTROENTERITIS</b>                          |                |                |  |
| subjects affected / exposed                     | 2 / 84 (2.38%) | 2 / 78 (2.56%) |  |
| occurrences causally related to treatment / all | 0 / 2          | 1 / 2          |  |
| deaths causally related to treatment / all      | 0 / 0          | 0 / 0          |  |
| <b>GASTROENTERITIS NOROVIRUS</b>                |                |                |  |
| subjects affected / exposed                     | 0 / 84 (0.00%) | 1 / 78 (1.28%) |  |
| occurrences causally related to treatment / all | 0 / 0          | 0 / 1          |  |
| deaths causally related to treatment / all      | 0 / 0          | 0 / 0          |  |
| <b>GASTROENTERITIS SALMONELLA</b>               |                |                |  |
| subjects affected / exposed                     | 1 / 84 (1.19%) | 0 / 78 (0.00%) |  |
| occurrences causally related to treatment / all | 0 / 1          | 0 / 0          |  |
| deaths causally related to treatment / all      | 0 / 0          | 0 / 0          |  |
| <b>GROIN INFECTION</b>                          |                |                |  |
| subjects affected / exposed                     | 0 / 84 (0.00%) | 1 / 78 (1.28%) |  |
| occurrences causally related to treatment / all | 0 / 0          | 0 / 1          |  |
| deaths causally related to treatment / all      | 0 / 0          | 0 / 0          |  |
| <b>H1N1 INFLUENZA</b>                           |                |                |  |
| subjects affected / exposed                     | 1 / 84 (1.19%) | 0 / 78 (0.00%) |  |
| occurrences causally related to treatment / all | 0 / 1          | 0 / 0          |  |
| deaths causally related to treatment / all      | 0 / 0          | 0 / 0          |  |
| <b>HERPES SIMPLEX</b>                           |                |                |  |
| subjects affected / exposed                     | 0 / 84 (0.00%) | 1 / 78 (1.28%) |  |
| occurrences causally related to treatment / all | 0 / 0          | 0 / 1          |  |
| deaths causally related to treatment / all      | 0 / 0          | 0 / 0          |  |
| <b>HERPES ZOSTER</b>                            |                |                |  |
| subjects affected / exposed                     | 1 / 84 (1.19%) | 1 / 78 (1.28%) |  |
| occurrences causally related to treatment / all | 0 / 1          | 1 / 1          |  |
| deaths causally related to treatment / all      | 0 / 0          | 0 / 0          |  |
| <b>HERPES ZOSTER INFECTION NEUROLOGICAL</b>     |                |                |  |



|   |                |                |  |
|---|----------------|----------------|--|
| subjects affected / exposed                     | 0 / 84 (0.00%) | 1 / 78 (1.28%) |  |
| occurrences causally related to treatment / all | 0 / 0          | 0 / 1          |  |
| deaths causally related to treatment / all      | 0 / 0          | 0 / 0          |  |
| INFECTED LYMPHOCELE                             |                |                |  |
| subjects affected / exposed                     | 0 / 84 (0.00%) | 1 / 78 (1.28%) |  |
| occurrences causally related to treatment / all | 0 / 0          | 0 / 1          |  |
| deaths causally related to treatment / all      | 0 / 0          | 0 / 0          |  |
| INFECTION                                       |                |                |  |
| subjects affected / exposed                     | 3 / 84 (3.57%) | 1 / 78 (1.28%) |  |
| occurrences causally related to treatment / all | 2 / 3          | 0 / 1          |  |
| deaths causally related to treatment / all      | 0 / 0          | 0 / 0          |  |
| INFECTIOUS PLEURAL EFFUSION                     |                |                |  |
| subjects affected / exposed                     | 1 / 84 (1.19%) | 0 / 78 (0.00%) |  |
| occurrences causally related to treatment / all | 0 / 1          | 0 / 0          |  |
| deaths causally related to treatment / all      | 0 / 0          | 0 / 0          |  |
| INFLUENZA                                       |                |                |  |
| subjects affected / exposed                     | 0 / 84 (0.00%) | 1 / 78 (1.28%) |  |
| occurrences causally related to treatment / all | 0 / 0          | 0 / 1          |  |
| deaths causally related to treatment / all      | 0 / 0          | 0 / 0          |  |
| OTITIS EXTERNA                                  |                |                |  |
| subjects affected / exposed                     | 0 / 84 (0.00%) | 1 / 78 (1.28%) |  |
| occurrences causally related to treatment / all | 0 / 0          | 0 / 1          |  |
| deaths causally related to treatment / all      | 0 / 0          | 0 / 0          |  |
| PNEUMOCYSTIS JIROVECI<br>PNEUMONIA              |                |                |  |
| subjects affected / exposed                     | 2 / 84 (2.38%) | 0 / 78 (0.00%) |  |
| occurrences causally related to treatment / all | 0 / 2          | 0 / 0          |  |
| deaths causally related to treatment / all      | 0 / 0          | 0 / 0          |  |
| PNEUMONIA                                       |                |                |  |
| subjects affected / exposed                     | 6 / 84 (7.14%) | 2 / 78 (2.56%) |  |
| occurrences causally related to treatment / all | 1 / 6          | 1 / 2          |  |
| deaths causally related to treatment / all      | 0 / 0          | 0 / 0          |  |
| SEPTIC SHOCK                                    |                |                |  |

|   |                |                |  |
|---|----------------|----------------|--|
| subjects affected / exposed                     | 1 / 84 (1.19%) | 0 / 78 (0.00%) |  |
| occurrences causally related to treatment / all | 1 / 1          | 0 / 0          |  |
| deaths causally related to treatment / all      | 0 / 0          | 0 / 0          |  |
| STAPHYLOCOCCAL INFECTION                        |                |                |  |
| subjects affected / exposed                     | 1 / 84 (1.19%) | 0 / 78 (0.00%) |  |
| occurrences causally related to treatment / all | 0 / 1          | 0 / 0          |  |
| deaths causally related to treatment / all      | 0 / 0          | 0 / 0          |  |
| TUBERCULOSIS                                    |                |                |  |
| subjects affected / exposed                     | 1 / 84 (1.19%) | 0 / 78 (0.00%) |  |
| occurrences causally related to treatment / all | 0 / 1          | 0 / 0          |  |
| deaths causally related to treatment / all      | 0 / 0          | 0 / 0          |  |
| UPPER RESPIRATORY TRACT INFECTION               |                |                |  |
| subjects affected / exposed                     | 0 / 84 (0.00%) | 1 / 78 (1.28%) |  |
| occurrences causally related to treatment / all | 0 / 0          | 0 / 1          |  |
| deaths causally related to treatment / all      | 0 / 0          | 0 / 0          |  |
| URETERITIS                                      |                |                |  |
| subjects affected / exposed                     | 0 / 84 (0.00%) | 1 / 78 (1.28%) |  |
| 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 / 84 (0.00%) | 1 / 78 (1.28%) |  |
| occurrences causally related to treatment / all | 0 / 0          | 0 / 1          |  |
| deaths causally related to treatment / all      | 0 / 0          | 0 / 0          |  |
| WOUND INFECTION                                 |                |                |  |
| subjects affected / exposed                     | 0 / 84 (0.00%) | 1 / 78 (1.28%) |  |
| occurrences causally related to treatment / all | 0 / 0          | 1 / 1          |  |
| deaths causally related to treatment / all      | 0 / 0          | 0 / 0          |  |
| Metabolism and nutrition disorders              |                |                |  |
| DEHYDRATION                                     |                |                |  |
| subjects affected / exposed                     | 0 / 84 (0.00%) | 1 / 78 (1.28%) |  |
| occurrences causally related to treatment / all | 0 / 0          | 0 / 1          |  |
| 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>                     | CNI-Regimen      | CNI-free-regimen |  |
|---|------------------|------------------|--|
| Total subjects affected by non-serious adverse events |                  |                  |  |
| subjects affected / exposed                           | 74 / 84 (88.10%) | 65 / 78 (83.33%) |  |
| Vascular disorders                                    |                  |                  |  |
| HYPERTENSION  |                  |                  |  |
| subjects affected / exposed                           | 9 / 84 (10.71%)  | 3 / 78 (3.85%)   |  |
| occurrences (all)                                     | 11               | 3                |  |
| General disorders and administration site conditions  |                  |                  |  |
| FATIGUE   |                  |                  |  |
| subjects affected / exposed                           | 3 / 84 (3.57%)   | 4 / 78 (5.13%)   |  |
| occurrences (all)                                     | 4                | 4                |  |
| OEDEMA  |                  |                  |  |
| subjects affected / exposed                           | 5 / 84 (5.95%)   | 2 / 78 (2.56%)   |  |
| occurrences (all)                                     | 5                | 2                |  |
| OEDEMA PERIPHERAL                                     |                  |                  |  |
| subjects affected / exposed                           | 17 / 84 (20.24%) | 20 / 78 (25.64%) |  |
| occurrences (all)                                     | 21               | 21               |  |
| PYREXIA   |                  |                  |  |
| subjects affected / exposed                           | 8 / 84 (9.52%)   | 5 / 78 (6.41%)   |  |
| occurrences (all)                                     | 11               | 5                |  |
| Respiratory, thoracic and mediastinal disorders       |                  |                  |  |
| COUGH   |                  |                  |  |
| subjects affected / exposed                           | 4 / 84 (4.76%)   | 5 / 78 (6.41%)   |  |
| occurrences (all)                                     | 6                | 6                |  |
| DYSPNOEA  |                  |                  |  |
| subjects affected / exposed                           | 8 / 84 (9.52%)   | 5 / 78 (6.41%)   |  |
| occurrences (all)                                     | 10               | 5                |  |
| Investigations  |                  |                  |  |
| BLOOD CREATININE INCREASED                            |                  |                  |  |
| subjects affected / exposed                           | 5 / 84 (5.95%)   | 1 / 78 (1.28%)   |  |
| occurrences (all)                                     | 5                | 1                |  |
| C-REACTIVE PROTEIN INCREASED                          |                  |                  |  |
| subjects affected / exposed                           | 5 / 84 (5.95%)   | 3 / 78 (3.85%)   |  |
| occurrences (all)                                     | 5                | 3                |  |

|   |                        |                        |  |
|---|------------------------|------------------------|--|
| Cardiac disorders<br>SINUS TACHYCARDIA<br>subjects affected / exposed<br>occurrences (all)          | 3 / 84 (3.57%)<br>3    | 5 / 78 (6.41%)<br>6    |  |
| TACHYCARDIA<br>subjects affected / exposed<br>occurrences (all)                                     | 8 / 84 (9.52%)<br>9    | 7 / 78 (8.97%)<br>7    |  |
| Nervous system disorders<br>HEADACHE<br>subjects affected / exposed<br>occurrences (all)            | 5 / 84 (5.95%)<br>6    | 7 / 78 (8.97%)<br>9    |  |
| Blood and lymphatic system disorders<br>ANAEMIA<br>subjects affected / exposed<br>occurrences (all) | 6 / 84 (7.14%)<br>6    | 7 / 78 (8.97%)<br>7    |  |
| LEUKOPENIA<br>subjects affected / exposed<br>occurrences (all)                                      | 10 / 84 (11.90%)<br>11 | 10 / 78 (12.82%)<br>13 |  |
| Gastrointestinal disorders<br>APHTHOUS ULCER<br>subjects affected / exposed<br>occurrences (all)    | 4 / 84 (4.76%)<br>4    | 5 / 78 (6.41%)<br>5    |  |
| DIARRHOEA<br>subjects affected / exposed<br>occurrences (all)                                       | 11 / 84 (13.10%)<br>11 | 5 / 78 (6.41%)<br>6    |  |
| NAUSEA<br>subjects affected / exposed<br>occurrences (all)  | 10 / 84 (11.90%)<br>10 | 6 / 78 (7.69%)<br>7    |  |
| VOMITING<br>subjects affected / exposed<br>occurrences (all)  | 5 / 84 (5.95%)<br>7    | 2 / 78 (2.56%)<br>2    |  |
| Skin and subcutaneous tissue disorders<br>ACNE<br>subjects affected / exposed<br>occurrences (all)  | 3 / 84 (3.57%)<br>3    | 6 / 78 (7.69%)<br>6    |  |
| RASH  |                        |                        |  |

|   |   |  |  |
|---|---|--|--|
| subjects affected / exposed<br>occurrences (all)  | 5 / 84 (5.95%)<br>6   | 2 / 78 (2.56%)<br>2  |  |
| Endocrine disorders<br>HYPERTHYROIDISM<br>subjects affected / exposed<br>occurrences (all)  | 6 / 84 (7.14%)<br>6   | 4 / 78 (5.13%)<br>4  |  |
| Musculoskeletal and connective tissue disorders<br>MUSCLE SPASMS<br>subjects affected / exposed<br>occurrences (all)<br><br>MYALGIA<br>subjects affected / exposed<br>occurrences (all)<br><br>OSTEOPOROSIS<br>subjects affected / exposed<br>occurrences (all)<br><br>PAIN IN EXTREMITY<br>subjects affected / exposed<br>occurrences (all)  | 7 / 84 (8.33%)<br>7<br><br>6 / 84 (7.14%)<br>6<br><br>2 / 84 (2.38%)<br>3<br><br>5 / 84 (5.95%)<br>5                                  | 1 / 78 (1.28%)<br>1<br><br>1 / 78 (1.28%)<br>1<br><br>5 / 78 (6.41%)<br>5<br><br>1 / 78 (1.28%)<br>1                               |  |
| Infections and infestations<br>BRONCHITIS<br>subjects affected / exposed<br>occurrences (all)<br><br>CYTOMEGALOVIRUS INFECTION<br>subjects affected / exposed<br>occurrences (all)<br><br>NASOPHARYNGITIS<br>subjects affected / exposed<br>occurrences (all)<br><br>ORAL HERPES<br>subjects affected / exposed<br>occurrences (all)<br><br>RESPIRATORY TRACT INFECTION<br>subjects affected / exposed<br>occurrences (all) | 8 / 84 (9.52%)<br>8<br><br>11 / 84 (13.10%)<br>14<br><br>23 / 84 (27.38%)<br>35<br><br>2 / 84 (2.38%)<br>2<br><br>1 / 84 (1.19%)<br>1 | 3 / 78 (3.85%)<br>3<br><br>4 / 78 (5.13%)<br>4<br><br>12 / 78 (15.38%)<br>15<br><br>5 / 78 (6.41%)<br>5<br><br>4 / 78 (5.13%)<br>5 |  |
| Metabolism and nutrition disorders  |   |  |  |

|                             |                 |                  |  |
|-----------------------------|-----------------|------------------|--|
| HYPERCHOLESTEROLAEMIA       |                 |                  |  |
| subjects affected / exposed | 7 / 84 (8.33%)  | 3 / 78 (3.85%)   |  |
| occurrences (all)           | 7               | 3                |  |
| HYPERLIPIDAEMIA             |                 |                  |  |
| subjects affected / exposed | 9 / 84 (10.71%) | 5 / 78 (6.41%)   |  |
| occurrences (all)           | 9               | 5                |  |
| HYPERTRIGLYCERIDAEMIA       |                 |                  |  |
| subjects affected / exposed | 8 / 84 (9.52%)  | 6 / 78 (7.69%)   |  |
| occurrences (all)           | 8               | 6                |  |
| HYPERURICAEMIA              |                 |                  |  |
| subjects affected / exposed | 5 / 84 (5.95%)  | 2 / 78 (2.56%)   |  |
| occurrences (all)           | 5               | 2                |  |
| HYPOKALAEMIA                |                 |                  |  |
| subjects affected / exposed | 7 / 84 (8.33%)  | 13 / 78 (16.67%) |  |
| occurrences (all)           | 7               | 13               |  |

## More information

### Substantial protocol amendments (globally)

Were there any global substantial amendments to the protocol? Yes

| Date             | Amendment   |
|------------------|---|
| 29 April 2010    | Amendment 1: Clarification of the involvement of a CRO  |
| 22 November 2012 | Amendment 2: Clarification of exclusion criteria misunderstandings. Criteria missing from the synopsis or protocol text but mentioned in the corresponding part were completed<br>The required time frames for SAE reporting were clarified.<br>The study outline table was adapted to clearly indicate the timely application of medication.   |
| 22 January 2015  | Amendment 3: The stopping rules for MPA were amended to clearly follow the recommendations given in a dear healthcare professional letter issued for CellCept® by Roche on 12-Dec-2014. This information was added to the sections Study drug administration, Permitted study drug adjustments, Premature patient withdrawal from study treatment, and Dose reduction of everolimus and MPA. Two exclusion criteria were amended for enhanced study feasibility in line with clinical praxis and patients' de facto condition:<br>-Exclusion criterion 10 (enrollment) and exclusion criterion 4 (baseline) were modified to allow for inclusion of patients with leukocytes $\geq 3000/\text{mm}^3$<br>-Exclusion criterion 17 (enrollment) was removed.   |
| 25 November 2015 | Amendment 4: Enrollment was to be terminated by 31-Dec-2015 due to slow recruitment and the inability to achieve the planned sample size in a considerable amount of time. At the time of preparation of this amendment, n = 160 patients had been randomized.<br>A comment was added to Section 10.8. (Sample size calculation)<br>In response to German Health Authority's request, the protocol was modified to implement most recent notifications for use of MPA based on the dear health care professional letter (DHCPL) that was sent out for CellCept® by Roche 10-Nov-2015.<br>The novel safety information were added to section 6.5.1. (Study drug administration).<br>Additional pregnancy $\beta$ -hCG tests were implemented into section 7 (Visit schedule and assessments) and into the assessment schedule (Table 7-1) and are mandatory for all female patients of child bearing potential at screening, baseline, switch and every study visit. |

Notes:

### Interruptions (globally)

Were there any global interruptions to the trial? No

### Limitations and caveats

None reported