



Clinical trial results:

A prospective, randomized, double-blind, placebo controlled clinical trial to assess the effects of long-acting somatostatin (Octreotide LAR) therapy on disease progression in patients with Autosomal Dominant Polycystic Kidney Disease and moderate to severe renal insufficiency
Summary

| | |
|--------------------------|----------------|
| EudraCT number | 2011-000138-12 |
| Trial protocol | IT |
| Global end of trial date | 14 April 2017 |

Results information

| | |
|-----------------------------------|--|
| Result version number | v1 (current) |
| This version publication date | 20 June 2019 |
| First version publication date | 20 June 2019 |
| Summary attachment (see zip file) | Paper (journal.pmed.1002777.pdf) Supplementary 2 (pmed.1002777.s002.doc) Supplementary 6 (pmed.1002777.s006.pdf) Supplementary 7 (pmed.1002777.s007.docx) Supplementary 8 (pmed.1002777.s008.docx) Supplementary 9 (pmed.1002777.s009.docx) Supplementary 10 (pmed.1002777.s010.docx) Supplementary 11 (pmed.1002777.s011.docx) Supplementary 15 (pmed.1002777.s015.pdf) |

Trial information

Trial identification

| | |
|-----------------------|---------|
| Sponsor protocol code | ALADIN2 |
|-----------------------|---------|

Additional study identifiers

| | |
|------------------------------------|-------------|
| ISRCTN number | - |
| ClinicalTrials.gov id (NCT number) | NCT01377246 |
| WHO universal trial number (UTN) | - |

Notes:

Sponsors

| | |
|------------------------------|--|
| Sponsor organisation name | Istituto di Ricerche Farmacologiche Mario Negri IRCCS |
| Sponsor organisation address | V. G. B. Camozzi, 3, Ranica / Bergamo, Italy, 24020 |
| Public contact | Norberto Perico, Centro di Ricerche Cliniche per le Malattie Rare Aldo e Cele Daccò Via G.B. Camozzi Ranica (BG), 0039 03545351, norberto.perico@marionegri.it |
| Scientific contact | Norberto Perico, Centro di Ricerche Cliniche per le Malattie Rare Aldo e Cele Daccò Via G.B. Camozzi Ranica (BG), 0039 03545351, norberto.perico@marionegri.it |

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 | 05 November 2018 |
| Is this the analysis of the primary completion data? | Yes |
| Primary completion date | 14 April 2017 |
| Global end of trial reached? | Yes |
| Global end of trial date | 14 April 2017 |
| Was the trial ended prematurely? | No |

Notes:

General information about the trial

Main objective of the trial:

Short-term (1-year): To compare the effect of long acting somatostatin analogue (Octreotide LAR) versus placebo on total kidney volume (TKV) change (delta TKV) as assessed by spiral computed tomography (spiral CT) scan.

Long-term (3-years): To compare the effect of long-acting somatostatin analogue vs. placebo on the rate of GFR decline as assessed by serial measurements of the iohexol plasma clearance.

Protection of trial subjects:

This study was conducted in conformance with Declaration of Helsinki, Good Clinical Practice standards and applicable country regulations regarding ethical committee review, informed consent, protection of human subjects participating in biomedical research and privacy.

Background therapy: -

Evidence for comparator: -

| | |
|---|-------------------|
| Actual start date of recruitment | 20 September 2011 |
| Long term follow-up planned | No |
| Independent data monitoring committee (IDMC) involvement? | Yes |

Notes:

Population of trial subjects**Subjects enrolled per country**

| | |
|--------------------------------------|------------|
| Country: Number of subjects enrolled | Italy: 100 |
| Worldwide total number of subjects | 100 |
| EEA total number of subjects | 100 |

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) | 94 |
| From 65 to 84 years | 6 |
| 85 years and over | 0 |

Subject disposition

Recruitment

Recruitment details:

Participants were identified among patients with ADPKD referred to the outpatient clinics of 4 hospitals in Italy coordinated by the Istituto di Ricerche Farmacologiche Mario Negri IRCCS. Patients were recruited between 20th September, 2011, and March 10, 2014

Pre-assignment

Screening details:

Of 104 assessed patients (who signed the Informed consent form between 20/09/2011 and 10/03/2014), 3 withdrew IC during the screening period and 1 had eGFR < 15 ml/min/1.73 m². Thus, 100 patients were randomized from 11/10/2011, to 20/03/2014 (51 to octreotide-LAR and 49 to placebo), and followed for a median (IQR) of 36 (24 to 37) until 14/04/2017

Period 1

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

Arms

| | |
|------------------------------|----------------|
| Are arms mutually exclusive? | Yes |
| Arm title | Octreotide LAR |

Arm description:

Eligible patients will be stratified for the presence (YES or NO) of concomitant clinical conditions that could appreciably affect the rate of renal function loss over time including diabetes mellitus, 24 hour urinary protein excretion >1g, or any other evidence of concomitant renal disease without indication for specific therapy. Within each stratum patients will be randomized on a 1:1 basis to Long-acting Somatostatin (Octreotide LAR) 40 mg (treatment group) or saline solution (placebo group). All study participants including patients, doctors and nurses involved in patient care, and technicians, monitors and statisticians involved in data analyses will be blinded to treatment allocation. The only subject who will not be blinded to treatment allocation will be the research nurse who will prepare the study drug (the active compound or placebo) and will administer it to the patient.

| | |
|--|---|
| Arm type | Experimental |
| Investigational medicinal product name | Long-Acting Somatostatin (Octreotide LAR) |
| Investigational medicinal product code | |
| Other name | |
| Pharmaceutical forms | Solution for injection |
| Routes of administration | Intramuscular use |

Dosage and administration details:

Patients randomized to treatment group will receive intramuscularly Long-Acting Somatostatin (Octreotide LAR) at the dose of 40 mg every 28 days (in two intragluteal 20 mg injections) for three years.

| | |
|------------------|-------------------------------|
| Arm title | 0.9% sodium chloride solution |
|------------------|-------------------------------|

Arm description:

Eligible patients will be stratified for the presence (YES or NO) of concomitant clinical conditions that could appreciably affect the rate of renal function loss over time including diabetes mellitus, 24 hour urinary protein excretion >1g, or any other evidence of concomitant renal disease without indication for specific therapy. Within each stratum patients will be randomized on a 1:1 basis to Long-acting Somatostatin (Octreotide LAR) 40 mg (treatment group) or saline solution (placebo group). All study participants including patients, doctors and nurses involved in patient care, and technicians, monitors and statisticians involved in data analyses will be blinded to treatment allocation. The only subject who will not be blinded to treatment allocation will be the research nurse who will prepare the study drug (the active compound or placebo) and will administer it to the patient.

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

| | |
|--|-------------------------------|
| Investigational medicinal product name | 0.9% sodium chloride solution |
| Investigational medicinal product code | |
| Other name | |
| Pharmaceutical forms | Solution for injection |
| Routes of administration | Intramuscular use |

Dosage and administration details:

Patients randomized to placebo group will receive intramuscularly saline solution at the same volume of study drug every 28 days (in two intragluteal injections) for three years.

| Number of subjects in period 1 | Octreotide LAR | 0.9% sodium chloride solution |
|---------------------------------------|----------------|-------------------------------|
| Started | 51 | 49 |
| Completed | 45 | 46 |
| Not completed | 6 | 3 |
| Professed to End stage Renal Disease | - | 1 |
| Consent withdrawn by subject | 4 | 2 |
| Adverse event, non-fatal | 2 | - |

Baseline characteristics

Reporting groups

| | |
|-----------------------|----------------|
| Reporting group title | Octreotide LAR |
|-----------------------|----------------|

Reporting group description:

Eligible patients will be stratified for the presence (YES or NO) of concomitant clinical conditions that could appreciably affect the rate of renal function loss over time including diabetes mellitus, 24 hour urinary protein excretion >1g, or any other evidence of concomitant renal disease without indication for specific therapy. Within each stratum patients will be randomized on a 1:1 basis to Long-acting Somatostatin (Octreotide LAR) 40 mg (treatment group) or saline solution (placebo group). All study participants including patients, doctors and nurses involved in patient care, and technicians, monitors and statisticians involved in data analyses will be blinded to treatment allocation. The only subject who will not be blinded to treatment allocation will be the research nurse who will prepare the study drug (the active compound or placebo) and will administer it to the patient.

| | |
|-----------------------|-------------------------------|
| Reporting group title | 0.9% sodium chloride solution |
|-----------------------|-------------------------------|

Reporting group description:

Eligible patients will be stratified for the presence (YES or NO) of concomitant clinical conditions that could appreciably affect the rate of renal function loss over time including diabetes mellitus, 24 hour urinary protein excretion >1g, or any other evidence of concomitant renal disease without indication for specific therapy. Within each stratum patients will be randomized on a 1:1 basis to Long-acting Somatostatin (Octreotide LAR) 40 mg (treatment group) or saline solution (placebo group). All study participants including patients, doctors and nurses involved in patient care, and technicians, monitors and statisticians involved in data analyses will be blinded to treatment allocation. The only subject who will not be blinded to treatment allocation will be the research nurse who will prepare the study drug (the active compound or placebo) and will administer it to the patient.

| Reporting group values | Octreotide LAR | 0.9% sodium chloride solution | Total |
|--|----------------|-------------------------------|-------|
| Number of subjects | 51 | 49 | 100 |
| Age categorical Units: Subjects | | | |
| Adults (18-64 years) | 48 | 46 | 94 |
| From 65-84 years | 3 | 3 | 6 |
| Age continuous Units: years | | | |
| arithmetic mean | 48.7 | 50 | |
| standard deviation | ± 8.9 | ± 9.3 | - |
| Gender categorical Units: Subjects | | | |
| Female | 20 | 23 | 43 |
| Male | 31 | 26 | 57 |
| Imagin classification Units: Subjects | | | |
| 1A | 2 | 1 | 3 |
| 1B | 2 | 6 | 8 |
| 1C | 16 | 13 | 29 |
| 1D | 13 | 13 | 26 |
| 1E | 15 | 14 | 29 |
| Not evaluable | 3 | 2 | 5 |
| Height Units: CM | | | |
| arithmetic mean | 172.3 | 170.7 | |
| standard deviation | ± 9.8 | ± 10.8 | - |
| Weight | | | |

| | | | |
|--------------------------------------|--------------|--------------|---|
| Units: Kg | | | |
| arithmetic mean | 77.2 | 76.4 | |
| standard deviation | ± 14.6 | ± 14.1 | - |
| Systolic blood pressure | | | |
| Units: mm Hg | | | |
| arithmetic mean | 134.9 | 132.3 | |
| standard deviation | ± 15.4 | ± 13.2 | - |
| Diastolic blood pressure | | | |
| Units: mm Hg | | | |
| arithmetic mean | 81.8 | 83.1 | |
| standard deviation | ± 9.3 | ± 8.4 | - |
| Total Cholesterol | | | |
| Units: mmol/L | | | |
| arithmetic mean | 5 | 4.8 | |
| standard deviation | ± 1 | ± 1 | - |
| LDL Choletserol | | | |
| Units: mmol/L | | | |
| arithmetic mean | 3 | 2.9 | |
| standard deviation | ± 0.8 | ± 0.9 | - |
| Triglycerides | | | |
| Units: mmol/L | | | |
| arithmetic mean | 1.3 | 1.3 | |
| standard deviation | ± 0.7 | ± 0.6 | - |
| Serum Glucose | | | |
| Units: mmol/L | | | |
| arithmetic mean | 5 | 4.9 | |
| standard deviation | ± 0.6 | ± 0.7 | - |
| Serum phosphorus | | | |
| Units: mmol/L | | | |
| arithmetic mean | 1.2 | 1.2 | |
| standard deviation | ± 0.2 | ± 0.2 | - |
| Serum Calcium | | | |
| Units: mmol/L | | | |
| arithmetic mean | 2.3 | 2.3 | |
| standard deviation | ± 0.1 | ± 0.2 | - |
| Hemoglobin | | | |
| Units: g/L | | | |
| arithmetic mean | 124 | 121 | |
| standard deviation | ± 15 | ± 12 | - |
| Serum albumin | | | |
| Units: g/L | | | |
| arithmetic mean | 41 | 41 | |
| standard deviation | ± 4 | ± 4 | - |
| Serum Creatinine | | | |
| Units: µmol/L | | | |
| arithmetic mean | 229.8 | 238.7 | |
| standard deviation | ± 79.6 | ± 79.6 | - |
| mGFR | | | |
| Measured by iohexol plasma clearance | | | |
| Units: ml/min/1.73m2 | | | |
| median | 31.5 | 30.9 | |
| inter-quartile range (Q1-Q3) | 25.6 to 36.6 | 21.6 to 37.4 | - |

| | | | |
|--|-------------------------|-------------------------|---|
| eGFR | | | |
| Estimated by the 4-variable equation from Modification of Diet in Renal Disease Study | | | |
| Units: ml/min/1.73m ² median inter-quartile range (Q1-Q3) | 27.9 23.5 to 32.2 | 25.8 19.5 to 33.2 | - |
| Urinary proteins Units: mg/24h median inter-quartile range (Q1-Q3) | 268 135 to 805 | 260 130 to 460 | - |
| Urinary albumin Units: µg/ml median inter-quartile range (Q1-Q3) | 50.7 21 to 118.1 | 28.3 12.8 to 96.2 | - |
| UAC Units: mg/g median inter-quartile range (Q1-Q3) | 77.3 35.9 to 225.9 | 45.4 25.5 to 181.9 | - |
| Total Kidney volume (TKV) Units: ml median inter-quartile range (Q1-Q3) | 2338 1967 to 3807 | 2591 1959 to 3835 | - |
| Height adjusted total kidney volume Units: ml/m median inter-quartile range (Q1-Q3) | 1.344 1.129 to 2.098 | 1.528 1.155 to 2.291 | - |
| osmolality Units: mOsm/L median inter-quartile range (Q1-Q3) | 279.2 217.8 to 365.5 | 313.7 253.8 to 407.6 | - |
| Urine protein Units: mg/dl median inter-quartile range (Q1-Q3) | 11.4 7 to 23.6 | 9.1 6 to 18.6 | - |
| Urine Albumin Units: µg/mL median inter-quartile range (Q1-Q3) | 50.7 21.0 to 118.1 | 28.3 12.8 to 96.2 | - |
| Urine Creatinine Units: mg/dL median inter-quartile range (Q1-Q3) | 60.2 45.0 to 70.4 | 59.0 50.1 to 73.1 | - |
| P/C Units: mg/g median inter-quartile range (Q1-Q3) | 0.24 0.12 to 0.55 | 0.15 0.1 to 0.37 | - |
| A/C Units: mg/g median inter-quartile range (Q1-Q3) | 77.3 35.9 to 225.9 | 45.4 25.5 to 181.9 | - |

End points

End points reporting groups

| | |
|---|-------------------------------|
| Reporting group title | Octreotide LAR |
| Reporting group description: | |
| Eligible patients will be stratified for the presence (YES or NO) of concomitant clinical conditions that could appreciably affect the rate of renal function loss over time including diabetes mellitus, 24 hour urinary protein excretion >1g, or any other evidence of concomitant renal disease without indication for specific therapy. Within each stratum patients will be randomized on a 1:1 basis to Long-acting Somatostatin (Octreotide LAR) 40 mg (treatment group) or saline solution (placebo group). All study participants including patients, doctors and nurses involved in patient care, and technicians, monitors and statisticians involved in data analyses will be blinded to treatment allocation. The only subject who will not be blinded to treatment allocation will be the research nurse who will prepare the study drug (the active compound or placebo) and will administer it to the patient. | |
| Reporting group title | 0.9% sodium chloride solution |
| Reporting group description: | |
| Eligible patients will be stratified for the presence (YES or NO) of concomitant clinical conditions that could appreciably affect the rate of renal function loss over time including diabetes mellitus, 24 hour urinary protein excretion >1g, or any other evidence of concomitant renal disease without indication for specific therapy. Within each stratum patients will be randomized on a 1:1 basis to Long-acting Somatostatin (Octreotide LAR) 40 mg (treatment group) or saline solution (placebo group). All study participants including patients, doctors and nurses involved in patient care, and technicians, monitors and statisticians involved in data analyses will be blinded to treatment allocation. The only subject who will not be blinded to treatment allocation will be the research nurse who will prepare the study drug (the active compound or placebo) and will administer it to the patient. | |

Primary: Short-term outcome - TKV change

| | |
|---|---------------------------------|
| End point title | Short-term outcome - TKV change |
| End point description: | |
| Total Kidney Volume (TKV) change as assessed by spiral computed tomography scan. Measurable unit for TKV is ml and for htTKV is ml/m | |
| End point type | Primary |
| End point timeframe: | |
| Baseline compared to 1-year after the Treatment period (Octreotide LAR/Placebo) | |

| End point values | Octreotide LAR | 0.9% sodium chloride solution | | |
|---------------------------------------|---------------------------|-------------------------------|--|--|
| Subject group type | Reporting group | Reporting group | | |
| Number of subjects analysed | 37 | 39 | | |
| Units: ml and ml/m | | | | |
| median (inter-quartile range (Q1-Q3)) | | | | |
| TKV | 2513.3 (2023.6 to 3923.5) | 2935.1 (2197.1 to 4094.4) | | |
| Absolute Change TKV | 135.5 (40.4 to 453.1) | 257.7 (112.6 to 497.7) | | |
| htTKV | 1528.1 (1237.1 to 2281.1) | 1769.5 (1258.3 to 2488.3) | | |
| Absolute Change htTKV | 80.7 (24.8 to 258.9) | 155.3 (66.1 to 286.0) | | |

Statistical analyses

| | |
|---|--|
| Statistical analysis title | Primary End Point |
| Statistical analysis description: | |
| Difference between changes of TKV and htTKV in Octreotide-LAR and Placebo at 1 year | |
| Comparison groups | Octreotide LAR v 0.9% sodium chloride solution |
| Number of subjects included in analysis | 76 |
| Analysis specification | Pre-specified |
| Analysis type | superiority |
| P-value | = 0.027 ^[1] |
| Method | ANCOVA |

Notes:

[1] - TKV changes between treatment and placebo reported a p value of 0.027;
htTKV changes between treatment and placebo reported a p value of 0.020;

Primary: Long-term outcome (3-years) - Rate of GFR decline

| | |
|--|---|
| End point title | Long-term outcome (3-years) - Rate of GFR decline |
| End point description: | |
| The primary long-term outcome was the chronic rate of GFR decline from 6 months to study end as assessed by serial measurement of the iohexol plasma clearance | |
| The unit measurement for Total slope 0-3 years and Chronic slope 6 months-3years is ml/min/1.73m2 per year | |
| End point type | Primary |
| End point timeframe: | |
| At the baseline and every 6 months until the final visit (36 months of study treatment) | |

| End point values | Octreotide LAR | 0.9% sodium chloride solution | | |
|---------------------------------------|----------------------|-------------------------------|--|--|
| Subject group type | Reporting group | Reporting group | | |
| Number of subjects analysed | 45 | 46 | | |
| Units: ml/min/1.73m2 | | | | |
| median (inter-quartile range (Q1-Q3)) | | | | |
| GFR 6 months | 27.0 (22.2 to 32.3) | 26.3 (20.9 to 34.8) | | |
| GFR 1 year | 25.3 (19.4 to 29.9) | 24.4 (20.9 to 34.8) | | |
| GFR 2 years | 22.5 (17.2 to 26.9) | 22.2 (17.9 to 28.5) | | |
| GFR 3 years | 19.8 (15.5 to 23.7) | 18.1 (14.7 to 26.7) | | |
| Total slope 0-3 years | -4.26 (-6.2 to -3) | -4.19 (-5.5 to -1.7) | | |
| Chronic slope 6 months-3years | -3.76 (-5.1 to -2.4) | -3.97 (-5.9 to -2.0) | | |

Statistical analyses

| | |
|---|--|
| Statistical analysis title | Primary End Point |
| Statistical analysis description: Changes in GFR over Octreotide-LAR and placebo | |
| Comparison groups | Octreotide LAR v 0.9% sodium chloride solution |
| Number of subjects included in analysis | 91 |
| Analysis specification | Pre-specified |
| Analysis type | superiority |
| P-value | = 0.295 ^[2] |
| Method | ANCOVA |

Notes:

[2] - All differences in GFR changes over 6-12-24-36 months are not significant between treatment and placebo groups.

Secondary: Doubling of serum creatinine or ESRD

| | |
|---|--------------------------------------|
| End point title | Doubling of serum creatinine or ESRD |
| End point description: Secondary composite endpoint of doubling of serum creatinine or ESRD in pateint treated with octreotide LAR/Placebo | |
| End point type | Secondary |
| End point timeframe: From Baseline to the study end | |

| End point values | Octreotide LAR | 0.9% sodium chloride solution | | |
|--------------------------------------|-----------------|-------------------------------|--|--|
| Subject group type | Reporting group | Reporting group | | |
| Number of subjects analysed | 51 | 49 | | |
| Units: Patient | | | | |
| Doubling serum creatinine or ESRD | 6 | 18 | | |
| No Doubling serum creatinine or ESRD | 45 | 31 | | |

Statistical analyses

No statistical analyses for this end point

Secondary: Urinary protein excretion rate

| | |
|---|--------------------------------|
| End point title | Urinary protein excretion rate |
| End point description: Urinary protein excretion rate compared to the baseline at 1 year and 3 year after the treatment period | |

| | |
|--|-----------|
| End point type | Secondary |
| End point timeframe: | |
| At baseline and every 6 months until the study end | |

| End point values | Octreotide LAR | 0.9% sodium chloride solution | | |
|---|------------------|-------------------------------|--|--|
| Subject group type | Reporting group | Reporting group | | |
| Number of subjects analysed | 51 | 49 | | |
| Units: mg/24h | | | | |
| median (inter-quartile range (Q1-Q3)) | | | | |
| Urinary protein excretion rate - 1 year | 340 (170 to 920) | 340 (130 to 580) | | |
| Urinary protein excretion rate - 3 year | 480 (190 to 820) | 580 (180 to 968) | | |

Statistical analyses

No statistical analyses for this end point

Secondary: Blood pressure control

| | |
|--|------------------------|
| End point title | Blood pressure control |
| End point description: | |
| Blood pressure parameters compared to the baseline at 1 year and 3 year after the treatment period | |
| End point type | Secondary |
| End point timeframe: | |
| 1 year and 3 year after the treatment period | |

| End point values | Octreotide LAR | 0.9% sodium chloride solution | | |
|-----------------------------|-----------------|-------------------------------|--|--|
| Subject group type | Reporting group | Reporting group | | |
| Number of subjects analysed | 51 | 49 | | |
| Units: mm Hg | | | | |
| median (standard deviation) | | | | |
| Systolic - 1 year | 133.3 (± 15.1) | 130.3 (± 12.2) | | |
| Systolic - 3 year | 132.6 (± 13.6) | 130.3 (± 6.9) | | |
| Diastolic - 1 year | 81.5 (± 9.2) | 82.3 (± 6) | | |
| Diastolic - 3 year | 82.4 (± 6.1) | 82.9 (± 8) | | |

Statistical analyses

No statistical analyses for this end point

Secondary: Urinary osmolality

End point title Urinary osmolality

End point description:

End point type Secondary

End point timeframe:

At baseline and 1 year and 3 year after the treatment period

| End point values | Octreotide LAR | 0.9% sodium chloride solution | | |
|---------------------------------------|------------------------|-------------------------------|--|--|
| Subject group type | Reporting group | Reporting group | | |
| Number of subjects analysed | 51 | 49 | | |
| Units: mOsm/L | | | | |
| median (inter-quartile range (Q1-Q3)) | | | | |
| Osmolality - 1 year | 289.4 (230.8 to 381.2) | 341.0 (245.1 to 396.4) | | |
| Osmolality - 3 year | 266.5 (221.3 to 306.4) | 317.3 (252.2 to 384.5) | | |

Statistical analyses

No statistical analyses for this end point

Secondary: Morning spot urine sample

End point title Morning spot urine sample

End point description:

Measurement units

Protein: mg/dl

Albumin: µg/mL

Creatinine: mg/dL

P/C: mg/g

A/C: mg/g

End point type Secondary

End point timeframe:

1 year and 3 year compared to baseline

| End point values | Octreotide LAR | 0.9% sodium chloride solution | | |
|---------------------------------------|-----------------|-------------------------------|--|--|
| Subject group type | Reporting group | Reporting group | | |
| Number of subjects analysed | 51 | 49 | | |
| Units: mg/dl and µg/ml | | | | |
| median (inter-quartile range (Q1-Q3)) | | | | |

| | | | | |
|---------------------|-----------------------|------------------------|--|--|
| Protein - 1 year | 14.9 (8.4 to 39.3) | 16.5 (7.2 to 24) | | |
| Protein - 3 year | 18.1 (9 to 28.7) | 25.2 (8.7 to 43.8) | | |
| Albumin- 1 year | 42.5 (33.3 to 210.5) | 57.7 (18.4 to 130.0) | | |
| Albumin- 3 year | 74.3 (33.5 to 111.0) | 90.0 (53.5 to 150.0) | | |
| Creatinine - 1 year | 58.3 (48.4 to 70.4) | 55.6 (46.7 to 69.3) | | |
| Creatinine - 3 year | 49.3 (41.8 to 59.6) | 52.7 (44.0 to 60.0) | | |
| P/C - 1 year | 0.26 (0.13 to 0.73) | 0.30 (0.15 to 0.44) | | |
| P/C - 3 year | 0.40 (0.15 to 0.62) | 0.39 (0.24 to 0.81) | | |
| A/C - 1 year | 80.0 (51.9 to 364.4) | 108.1 (35.0 to 211.0) | | |
| A/C - 3 year | 130.6 (54.2 to 286.0) | 162.2 (102.8 to 260.3) | | |

Statistical analyses

No statistical analyses for this end point

Adverse events

Adverse events information

Timeframe for reporting adverse events:

The adverse events will be reported during whole study up to 30 days after last dose of study drug.

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

Dictionary used

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

| | |
|--------------------|----|
| Dictionary version | 20 |
|--------------------|----|

Reporting groups

| | |
|-----------------------|----------------|
| Reporting group title | Octreotide LAR |
|-----------------------|----------------|

Reporting group description:

Eligible patients will be stratified for the presence (YES or NO) of concomitant clinical conditions that could appreciably affect the rate of renal function loss over time including diabetes mellitus, 24 hour urinary protein excretion >1g, or any other evidence of concomitant renal disease without indication for specific therapy. Within each stratum patients will be randomized on a 1:1 basis to Long-acting Somatostatin (Octreotide LAR) 40 mg (treatment group) or saline solution (placebo group). All study participants including patients, doctors and nurses involved in patient care, and technicians, monitors and statisticians involved in data analyses will be blinded to treatment allocation. The only subject who will not be blinded to treatment allocation will be the research nurse who will prepare the study drug (the active compound or placebo) and will administer it to the patient.

| | |
|-----------------------|-------------------------------|
| Reporting group title | 0.9% sodium chloride solution |
|-----------------------|-------------------------------|

Reporting group description:

Eligible patients will be stratified for the presence (YES or NO) of concomitant clinical conditions that could appreciably affect the rate of renal function loss over time including diabetes mellitus, 24 hour urinary protein excretion >1g, or any other evidence of concomitant renal disease without indication for specific therapy. Within each stratum patients will be randomized on a 1:1 basis to Long-acting Somatostatin (Octreotide LAR) 40 mg (treatment group) or saline solution (placebo group). All study participants including patients, doctors and nurses involved in patient care, and technicians, monitors and statisticians involved in data analyses will be blinded to treatment allocation. The only subject who will not be blinded to treatment allocation will be the research nurse who will prepare the study drug (the active compound or placebo) and will administer it to the patient.

| Serious adverse events | Octreotide LAR | 0.9% sodium chloride solution | |
|---|------------------|-------------------------------|--|
| Total subjects affected by serious adverse events | | | |
| subjects affected / exposed | 12 / 51 (23.53%) | 11 / 49 (22.45%) | |
| number of deaths (all causes) | 0 | 0 | |
| number of deaths resulting from adverse events | 0 | 0 | |
| Investigations | | | |
| Pancreatic enzyme elevation | | | |
| subjects affected / exposed | 0 / 51 (0.00%) | 1 / 49 (2.04%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Cardiac disorders | | | |
| Myocardial infarction | | | |

| | | | |
|--|----------------|----------------|--|
| subjects affected / exposed | 0 / 51 (0.00%) | 1 / 49 (2.04%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Blood and lymphatic system disorders | | | |
| Anaemia | | | |
| subjects affected / exposed | 1 / 51 (1.96%) | 1 / 49 (2.04%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| General disorders and administration site conditions | | | |
| Fever | | | |
| subjects affected / exposed | 1 / 51 (1.96%) | 0 / 49 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Eye disorders | | | |
| Acute retinal detachment | | | |
| subjects affected / exposed | 1 / 51 (1.96%) | 0 / 49 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Gastrointestinal disorders | | | |
| Umbilical hernia | | | |
| subjects affected / exposed | 1 / 51 (1.96%) | 0 / 49 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Acute pancreatitis | | | |
| subjects affected / exposed | 1 / 51 (1.96%) | 0 / 49 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Biliary vomiting | | | |
| subjects affected / exposed | 1 / 51 (1.96%) | 0 / 49 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Abdominal pain | | | |

| | | | |
|---|----------------|----------------|--|
| subjects affected / exposed | 0 / 51 (0.00%) | 1 / 49 (2.04%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 2 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Reproductive system and breast disorders | | | |
| Genitourinary prolapse | | | |
| subjects affected / exposed | 1 / 51 (1.96%) | 1 / 49 (2.04%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Cystocele | | | |
| subjects affected / exposed | 1 / 51 (1.96%) | 0 / 49 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Menometrorrhagia | | | |
| subjects affected / exposed | 1 / 51 (1.96%) | 0 / 49 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Respiratory, thoracic and mediastinal disorders | | | |
| Pulmonary embolism | | | |
| subjects affected / exposed | 1 / 51 (1.96%) | 0 / 49 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Renal and urinary disorders | | | |
| Acute renal failure | | | |
| subjects affected / exposed | 2 / 51 (3.92%) | 2 / 49 (4.08%) | |
| occurrences causally related to treatment / all | 0 / 2 | 0 / 2 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Renal cyst rupture or infection | | | |
| subjects affected / exposed | 1 / 51 (1.96%) | 3 / 49 (6.12%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 4 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Ureteral obstruction due to lithiasis | | | |

| | | | |
|---|----------------|----------------|--|
| subjects affected / exposed | 0 / 51 (0.00%) | 1 / 49 (2.04%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Infections and infestations | | | |
| Urinary tract infection | | | |
| subjects affected / exposed | 0 / 51 (0.00%) | 1 / 49 (2.04%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Acute pyelonephritis | | | |
| subjects affected / exposed | 0 / 51 (0.00%) | 1 / 49 (2.04%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Sepsis due to Klebsiella pneumoniae | | | |
| subjects affected / exposed | 1 / 51 (1.96%) | 0 / 49 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Varicella | | | |
| subjects affected / exposed | 1 / 51 (1.96%) | 0 / 49 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Metabolism and nutrition disorders | | | |
| Hyperammonaemia | | | |
| subjects affected / exposed | 1 / 51 (1.96%) | 0 / 49 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 3 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |

Frequency threshold for reporting non-serious adverse events: 0 %

| Non-serious adverse events | Octreotide LAR | 0.9% sodium chloride solution | |
|---|------------------|-------------------------------|--|
| Total subjects affected by non-serious adverse events | | | |
| subjects affected / exposed | 46 / 51 (90.20%) | 45 / 49 (91.84%) | |
| General disorders and administration site conditions | | | |
| Allergic reaction due to study drug | | | |

| | | | |
|--|----------------------|----------------------|--|
| subjects affected / exposed occurrences (all) | 1 / 51 (1.96%) 1 | 1 / 49 (2.04%) 1 | |
| Non-treatment-related allergic reactions | | | |
| subjects affected / exposed occurrences (all) | 3 / 51 (5.88%) 4 | 2 / 49 (4.08%) 3 | |
| Flu like syndrome | | | |
| subjects affected / exposed occurrences (all) | 6 / 51 (11.76%) 6 | 9 / 49 (18.37%) 9 | |
| Fever (unspecified) | | | |
| subjects affected / exposed occurrences (all) | 5 / 51 (9.80%) 6 | 4 / 49 (8.16%) 4 | |
| Reproductive system and breast disorders | | | |
| Ovarian cyst, follicle rupture | | | |
| subjects affected / exposed occurrences (all) | 0 / 51 (0.00%) 0 | 1 / 49 (2.04%) 2 | |
| Endometrial hyperplasia, endometrial polyps | | | |
| subjects affected / exposed occurrences (all) | 1 / 51 (1.96%) 1 | 1 / 49 (2.04%) 1 | |
| Bening prostatic hyperplasia | | | |
| subjects affected / exposed occurrences (all) | 1 / 51 (1.96%) 1 | 5 / 49 (10.20%) 5 | |
| Prostatitis | | | |
| subjects affected / exposed occurrences (all) | 0 / 51 (0.00%) 0 | 1 / 49 (2.04%) 1 | |
| Impotence | | | |
| subjects affected / exposed occurrences (all) | 0 / 51 (0.00%) 0 | 2 / 49 (4.08%) 2 | |
| Other urologic events | | | |
| subjects affected / exposed occurrences (all) | 2 / 51 (3.92%) 2 | 1 / 49 (2.04%) 3 | |
| Respiratory, thoracic and mediastinal disorders | | | |
| Pharyngitis, rhinitis, common cold, Cough | | | |
| subjects affected / exposed occurrences (all) | 4 / 51 (7.84%) 10 | 7 / 49 (14.29%) 8 | |

| | | | |
|--|-----------------------|----------------------|--|
| Acute Bronchitis subjects affected / exposed occurrences (all) | 4 / 51 (7.84%) 4 | 5 / 49 (10.20%) 5 | |
| Pneumonia subjects affected / exposed occurrences (all) | 1 / 51 (1.96%) 1 | 0 / 49 (0.00%) 0 | |
| Investigations High CPK value subjects affected / exposed occurrences (all) | 1 / 51 (1.96%) 1 | 1 / 49 (2.04%) 1 | |
| Injury, poisoning and procedural complications Rash subjects affected / exposed occurrences (all) | 2 / 51 (3.92%) 2 | 2 / 49 (4.08%) 2 | |
| Subcutaneous hematoma of the limbs subjects affected / exposed occurrences (all) | 0 / 51 (0.00%) 0 | 2 / 49 (4.08%) 2 | |
| Cardiac disorders Calf swelling subjects affected / exposed occurrences (all) | 9 / 51 (17.65%) 12 | 6 / 49 (12.24%) 6 | |
| Hydrosaline retention subjects affected / exposed occurrences (all) | 0 / 51 (0.00%) 0 | 1 / 49 (2.04%) 1 | |
| Pericardial effusion subjects affected / exposed occurrences (all) | 1 / 51 (1.96%) 1 | 2 / 49 (4.08%) 2 | |
| Bilateral pleural effusion subjects affected / exposed occurrences (all) | 1 / 51 (1.96%) 1 | 1 / 49 (2.04%) 1 | |
| Aortic calcification subjects affected / exposed occurrences (all) | 1 / 51 (1.96%) 1 | 0 / 49 (0.00%) 0 | |
| Claudicatio intermittents subjects affected / exposed occurrences (all) | 1 / 51 (1.96%) 1 | 0 / 49 (0.00%) 0 | |

| | | | |
|------------------------------|----------------|----------------|--|
| Calf vein thrombosis | | | |
| subjects affected / exposed | 1 / 51 (1.96%) | 0 / 49 (0.00%) | |
| occurrences (all) | 1 | 0 | |
| Left ventricular hypertrophy | | | |
| subjects affected / exposed | 0 / 51 (0.00%) | 2 / 49 (4.08%) | |
| occurrences (all) | 0 | 2 | |
| Left atrial enlargement | | | |
| subjects affected / exposed | 0 / 51 (0.00%) | 1 / 49 (2.04%) | |
| occurrences (all) | 0 | 1 | |
| Atrial fibrillation | | | |
| subjects affected / exposed | 0 / 51 (0.00%) | 2 / 49 (4.08%) | |
| occurrences (all) | 0 | 2 | |
| Palpitations | | | |
| subjects affected / exposed | 3 / 51 (5.88%) | 2 / 49 (4.08%) | |
| occurrences (all) | 3 | 2 | |
| Hypotension | | | |
| subjects affected / exposed | 1 / 51 (1.96%) | 1 / 49 (2.04%) | |
| occurrences (all) | 1 | 1 | |
| Precordial pain | | | |
| subjects affected / exposed | 0 / 51 (0.00%) | 2 / 49 (4.08%) | |
| occurrences (all) | 0 | 2 | |
| Nervous system disorders | | | |
| Depression, Anxiety | | | |
| subjects affected / exposed | 0 / 51 (0.00%) | 2 / 49 (4.08%) | |
| occurrences (all) | 0 | 2 | |
| Headache | | | |
| subjects affected / exposed | 1 / 51 (1.96%) | 4 / 49 (8.16%) | |
| occurrences (all) | 1 | 4 | |
| Dizziness | | | |
| subjects affected / exposed | 2 / 51 (3.92%) | 2 / 49 (4.08%) | |
| occurrences (all) | 3 | 2 | |
| Neuropathic pain | | | |
| subjects affected / exposed | 0 / 51 (0.00%) | 2 / 49 (4.08%) | |
| occurrences (all) | 0 | 2 | |
| Tremor | | | |

| | | | |
|---|------------------------|------------------------|--|
| subjects affected / exposed occurrences (all) | 1 / 51 (1.96%) 1 | 0 / 49 (0.00%) 0 | |
| Other nervous system events subjects affected / exposed occurrences (all) | 1 / 51 (1.96%) 1 | 1 / 49 (2.04%) 1 | |
| Hyposmia subjects affected / exposed occurrences (all) | 0 / 51 (0.00%) 0 | 1 / 49 (2.04%) 1 | |
| Blood and lymphatic system disorders Anaemia subjects affected / exposed occurrences (all) | 11 / 51 (21.57%) 12 | 23 / 49 (46.94%) 24 | |
| Benign cutaneous lymphoid infiltrate subjects affected / exposed occurrences (all) | 0 / 51 (0.00%) 0 | 1 / 49 (2.04%) 1 | |
| Ear and labyrinth disorders Tinnitus subjects affected / exposed occurrences (all) | 0 / 51 (0.00%) 0 | 1 / 49 (2.04%) 1 | |
| Eye disorders degenerative maculopathy subjects affected / exposed occurrences (all) | 1 / 51 (1.96%) 1 | 0 / 49 (0.00%) 0 | |
| Amblyopia subjects affected / exposed occurrences (all) | 0 / 51 (0.00%) 0 | 1 / 49 (2.04%) 1 | |
| Other ocular, ear, labyrinth, oral, nasal events subjects affected / exposed occurrences (all) | 4 / 51 (7.84%) 4 | 1 / 49 (2.04%) 1 | |
| Gastrointestinal disorders Diarrhea subjects affected / exposed occurrences (all) | 15 / 51 (29.41%) 28 | 5 / 49 (10.20%) 7 | |
| Abdominal pain, bloating subjects affected / exposed occurrences (all) | 12 / 51 (23.53%) 12 | 10 / 49 (20.41%) 16 | |

| | | | |
|---|-----------------|-----------------|--|
| Gastritis, Nausea, Dyspepsia, Vomiting | | | |
| subjects affected / exposed | 4 / 51 (7.84%) | 9 / 49 (18.37%) | |
| occurrences (all) | 4 | 10 | |
| Biliary sand | | | |
| subjects affected / exposed | 8 / 51 (15.69%) | 0 / 49 (0.00%) | |
| occurrences (all) | 8 | 0 | |
| Gallbladder polyp | | | |
| subjects affected / exposed | 2 / 51 (3.92%) | 1 / 49 (2.04%) | |
| occurrences (all) | 2 | 1 | |
| Liver steatosis | | | |
| subjects affected / exposed | 1 / 51 (1.96%) | 2 / 49 (4.08%) | |
| occurrences (all) | 1 | 2 | |
| Hepatic, cyst rupture, hemorrhagic hepatic cyst | | | |
| subjects affected / exposed | 0 / 51 (0.00%) | 2 / 49 (4.08%) | |
| occurrences (all) | 0 | 2 | |
| Constipation | | | |
| subjects affected / exposed | 0 / 51 (0.00%) | 2 / 49 (4.08%) | |
| occurrences (all) | 0 | 3 | |
| Flatulence | | | |
| subjects affected / exposed | 1 / 51 (1.96%) | 0 / 49 (0.00%) | |
| occurrences (all) | 1 | 0 | |
| Colon diverticulosis | | | |
| subjects affected / exposed | 1 / 51 (1.96%) | 1 / 49 (2.04%) | |
| occurrences (all) | 1 | 1 | |
| Other gastrointestinal events | | | |
| subjects affected / exposed | 6 / 51 (11.76%) | 3 / 49 (6.12%) | |
| occurrences (all) | 7 | 4 | |
| Skin and subcutaneous tissue disorders | | | |
| Pruritus | | | |
| subjects affected / exposed | 1 / 51 (1.96%) | 5 / 49 (10.20%) | |
| occurrences (all) | 2 | 5 | |
| Dermatitis | | | |
| subjects affected / exposed | 1 / 51 (1.96%) | 2 / 49 (4.08%) | |
| occurrences (all) | 1 | 2 | |
| Folliculitis, forunculosis | | | |

| | | | |
|--|------------------------|------------------------|--|
| subjects affected / exposed occurrences (all) | 1 / 51 (1.96%) 1 | 1 / 49 (2.04%) 1 | |
| Alopecia subjects affected / exposed occurrences (all) | 1 / 51 (1.96%) 1 | 0 / 49 (0.00%) 0 | |
| Renal and urinary disorders | | | |
| Acute renal failure subjects affected / exposed occurrences (all) | 4 / 51 (7.84%) 5 | 5 / 49 (10.20%) 5 | |
| Renal colic, lithiasis subjects affected / exposed occurrences (all) | 7 / 51 (13.73%) 10 | 3 / 49 (6.12%) 3 | |
| Hematuria subjects affected / exposed occurrences (all) | 6 / 51 (11.76%) 11 | 9 / 49 (18.37%) 15 | |
| Urinary tract infection subjects affected / exposed occurrences (all) | 6 / 51 (11.76%) 10 | 5 / 49 (10.20%) 6 | |
| Renal cyst infection or rupture subjects affected / exposed occurrences (all) | 1 / 51 (1.96%) 1 | 6 / 49 (12.24%) 8 | |
| Asynptomatic bacteriuria, Dysuria subjects affected / exposed occurrences (all) | 2 / 51 (3.92%) 3 | 2 / 49 (4.08%) 2 | |
| Cholelithiasis subjects affected / exposed occurrences (all) | 3 / 51 (5.88%) 3 | 1 / 49 (2.04%) 1 | |
| Endocrine disorders | | | |
| Secondary hyperparathyroidism subjects affected / exposed occurrences (all) | 25 / 51 (49.02%) 25 | 18 / 49 (36.73%) 18 | |
| Musculoskeletal and connective tissue disorders | | | |
| Chronic kidney disease-mineral and bone disorder (CKD-MBD) subjects affected / exposed occurrences (all) | 19 / 51 (37.25%) 20 | 17 / 49 (34.69%) 19 | |
| Back pain, Flank pain | | | |

| | | | |
|--|------------------|------------------|--|
| subjects affected / exposed | 8 / 51 (15.69%) | 10 / 49 (20.41%) | |
| occurrences (all) | 9 | 14 | |
| Muscular pain, cramps | | | |
| subjects affected / exposed | 9 / 51 (17.65%) | 9 / 49 (18.37%) | |
| occurrences (all) | 13 | 13 | |
| Fatigue | | | |
| subjects affected / exposed | 10 / 51 (19.61%) | 8 / 49 (16.33%) | |
| occurrences (all) | 11 | 10 | |
| Site injection pain, site injection nodule | | | |
| subjects affected / exposed | 7 / 51 (13.73%) | 3 / 49 (6.12%) | |
| occurrences (all) | 16 | 6 | |
| Osteoarthritis | | | |
| subjects affected / exposed | 2 / 51 (3.92%) | 3 / 49 (6.12%) | |
| occurrences (all) | 2 | 3 | |
| Fracture, trauma, tendonitis, tendon tear | | | |
| subjects affected / exposed | 2 / 51 (3.92%) | 6 / 49 (12.24%) | |
| occurrences (all) | 2 | 6 | |
| Discal hernia | | | |
| subjects affected / exposed | 0 / 51 (0.00%) | 1 / 49 (2.04%) | |
| occurrences (all) | 0 | 1 | |
| Other musculoskeletal events | | | |
| subjects affected / exposed | 1 / 51 (1.96%) | 2 / 49 (4.08%) | |
| occurrences (all) | 2 | 2 | |
| Infections and infestations | | | |
| Septic Arthritis | | | |
| subjects affected / exposed | 1 / 51 (1.96%) | 0 / 49 (0.00%) | |
| occurrences (all) | 1 | 0 | |
| Vaginitis | | | |
| subjects affected / exposed | 0 / 51 (0.00%) | 2 / 49 (4.08%) | |
| occurrences (all) | 0 | 2 | |
| Otitis | | | |
| subjects affected / exposed | 0 / 51 (0.00%) | 1 / 49 (2.04%) | |
| occurrences (all) | 0 | 1 | |
| Onychomycosis | | | |

| | | | |
|---|------------------|------------------|--|
| subjects affected / exposed | 0 / 51 (0.00%) | 2 / 49 (4.08%) | |
| occurrences (all) | 0 | 2 | |
| Herpes zoster | | | |
| subjects affected / exposed | 1 / 51 (1.96%) | 0 / 49 (0.00%) | |
| occurrences (all) | 1 | 0 | |
| Herpes simplex | | | |
| subjects affected / exposed | 1 / 51 (1.96%) | 0 / 49 (0.00%) | |
| occurrences (all) | 1 | 0 | |
| Metabolism and nutrition disorders | | | |
| Metabolic acidosis | | | |
| subjects affected / exposed | 23 / 51 (45.10%) | 17 / 49 (34.69%) | |
| occurrences (all) | 23 | 17 | |
| Hyperuricemia | | | |
| subjects affected / exposed | 16 / 51 (31.37%) | 9 / 49 (18.37%) | |
| occurrences (all) | 16 | 9 | |
| Dyslipidemia | | | |
| subjects affected / exposed | 10 / 51 (19.61%) | 5 / 49 (10.20%) | |
| occurrences (all) | 10 | 5 | |
| Hyperkalaemia | | | |
| subjects affected / exposed | 3 / 51 (5.88%) | 1 / 49 (2.04%) | |
| occurrences (all) | 4 | 1 | |
| Hypokalaemia | | | |
| subjects affected / exposed | 0 / 51 (0.00%) | 1 / 49 (2.04%) | |
| occurrences (all) | 0 | 1 | |
| Hyponatremia | | | |
| subjects affected / exposed | 1 / 51 (1.96%) | 0 / 49 (0.00%) | |
| occurrences (all) | 1 | 0 | |
| Hyperhomocysteinaemia | | | |
| subjects affected / exposed | 3 / 51 (5.88%) | 4 / 49 (8.16%) | |
| occurrences (all) | 3 | 4 | |
| Pancytopenia | | | |
| subjects affected / exposed | 2 / 51 (3.92%) | 0 / 49 (0.00%) | |
| occurrences (all) | 2 | 0 | |
| Other metabolic, endocrine, hematological events | | | |

| | | | |
|-----------------------------|----------------|----------------|--|
| subjects affected / exposed | 4 / 51 (7.84%) | 2 / 49 (4.08%) | |
| occurrences (all) | 5 | 2 | |

More information

Substantial protocol amendments (globally)

Were there any global substantial amendments to the protocol? Yes

| Date | Amendment |
|--------------|---|
| 27 June 2013 | <p>The amendment concerned the increase in the size of the originally calculated patient sample and the administration of the SF36 and SF-HLQ questionnaires to patients.</p> <p>Specifically, the sample size was recalculated, maintaining the initial considerations relating to end points and patient follow-up unchanged, but increasing the incidence of drop-outs from 15% to 30%. It was therefore estimated that the inclusion of 98 patients (49 per group) could guarantee the study to maintain a statistical power of more than 80%.</p> <p>The amendment did not change either the criteria for inclusion of the study, nor the general philosophy and main objective of the project .</p> |

Notes:

Interruptions (globally)

Were there any global interruptions to the trial? No

Limitations and caveats

None reported

Online references

<http://www.ncbi.nlm.nih.gov/pubmed/30951521>