



## Clinical trial results:

### A Phase III, Multicenter, Randomized, Double-Blind, Active-Comparator-Controlled Clinical Trial to Study the Safety and Efficacy of the Addition of Ertugliflozin (MK-8835/PF-04971729) Compared With the Addition of Glimepiride in Subjects With Type 2 Diabetes Mellitus Who Have Inadequate Glycemic Control on Metformin

#### Summary

|                          |                |
|--------------------------|----------------|
| EudraCT number           | 2013-003582-34 |
| Trial protocol           | CZ LT HU SK RO |
| Global end of trial date | 18 April 2017  |

#### Results information

|                                |               |
|--------------------------------|---------------|
| Result version number          | v1 (current)  |
| This version publication date  | 26 April 2018 |
| First version publication date | 26 April 2018 |

#### Trial information

##### Trial identification

|                       |          |
|-----------------------|----------|
| Sponsor protocol code | 8835-002 |
|-----------------------|----------|

##### Additional study identifiers

|                                    |                                    |
|------------------------------------|------------------------------------|
| ISRCTN number                      | -                                  |
| ClinicalTrials.gov id (NCT number) | NCT01999218                        |
| WHO universal trial number (UTN)   | -                                  |
| Other trial identifiers            | Merck protocol number: MK-8835-002 |

Notes:

#### Sponsors

|                              |  |
|------------------------------|--|
| Sponsor organisation name    | Merck Sharp & Dohme Corp.  |
| Sponsor organisation address | 2000 Galloping Hill Road, Kenilworth, NJ, United States, 07033                               |
| Public contact               | Clinical Trials Disclosure, Merck Sharp & Dohme Corp.,<br>ClinicalTrialsDisclosure@merck.com |
| Scientific contact           | Clinical Trials Disclosure, Merck Sharp & Dohme Corp.,<br>ClinicalTrialsDisclosure@merck.com |

Notes:

#### Paediatric regulatory details

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

Notes:

## Results analysis stage

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

Notes:

## General information about the trial

Main objective of the trial:

This study will evaluate the efficacy and safety of the addition of ertugliflozin (MK-8835/PF04971729) compared with the addition of glimepiride in participants with T2DM who have inadequate glycemic control on metformin. The duration of the trial will be up to approximately 122 weeks. This will include a 1-week screening period, an up to 13-week wash-off/titration/dose stabilization period, a 2-week placebo run-in period, a 104-week double-blind, active comparator-controlled treatment period, and a posttreatment telephone contact 14 days after the last dose of study drug. The primary hypothesis of this study is that after 52 weeks, the change from baseline in hemoglobin A1c (A1C) in participants treated with the addition of ertugliflozin 15 mg once daily is non-inferior compared with that in participants treated with the addition of glimepiride.

Protection of trial subjects:

This study was conducted in conformance with Good Clinical Practice standards and applicable country and/or local statutes and regulations regarding ethical committee review, informed consent, and the protection of human subjects participating in biomedical research.

The following additional measures defined for this individual study were in place for the protection of trial participants: During Year 1, participants who were on the maximum labeled dose (6 or 8 mg q.d.) or maximum tolerated dose (if lower than maximum dose) of glimepiride/matching placebo for at least two weeks and who met progressively more stringent glycemic rescue criteria received open-label sitagliptin glycemic rescue medication. The dose of sitagliptin was initiated according to the local country label.

Background therapy:

Participants remained on their stable dose of metformin ( $\geq 1500$  mg/day) while they received blinded investigational product during the double-blind treatment period.

Evidence for comparator: -

|   |                  |
|---|------------------|
| Actual start date of recruitment                          | 16 December 2013 |
| 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 | Argentina: 59          |
| Country: Number of subjects enrolled | Canada: 101            |
| Country: Number of subjects enrolled | Czech Republic: 76     |
| Country: Number of subjects enrolled | Hungary: 68            |
| Country: Number of subjects enrolled | Korea, Republic of: 82 |
| Country: Number of subjects enrolled | Lithuania: 28          |
| Country: Number of subjects enrolled | Mexico: 74             |
| Country: Number of subjects enrolled | Philippines: 75        |

|                                      |                         |
|--------------------------------------|-------------------------|
| Country: Number of subjects enrolled | Poland: 92              |
| Country: Number of subjects enrolled | Romania: 109            |
| Country: Number of subjects enrolled | Russian Federation: 120 |
| Country: Number of subjects enrolled | Slovakia: 84            |
| Country: Number of subjects enrolled | South Africa: 38        |
| Country: Number of subjects enrolled | Taiwan: 17              |
| Country: Number of subjects enrolled | Ukraine: 20             |
| Country: Number of subjects enrolled | United States: 283      |
| Worldwide total number of subjects   | 1326                    |
| EEA total number of subjects         | 457                     |

Notes:

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### **Subjects enrolled per age group**

|   |     |
|---|-----|
| In utero                                  | 0   |
| Preterm newborn - gestational age < 37 wk | 0   |
| Newborns (0-27 days)                      | 0   |
| Infants and toddlers (28 days-23 months)  | 0   |
| Children (2-11 years)                     | 0   |
| Adolescents (12-17 years)                 | 0   |
| Adults (18-64 years)                      | 990 |
| From 65 to 84 years                       | 335 |
| 85 years and over                         | 1   |

## Subject disposition

### Recruitment

Recruitment details:

The trial was conducted in Argentina, Canada, Czech Republic, Hungary, South Korea, Lithuania, Mexico, Philippines, Poland, Romania, Russia, Slovakia, South Africa, Taiwan, Ukraine, and the United States. Male and female participants with Type 2 diabetes mellitus of at least 18 years of age were screened for enrollment in this trial.

### Pre-assignment

Screening details:

A total of 1326 participants were randomized. Ten randomized participants from one trial site were excluded from all final analyses (Week 104 and beyond), and one randomized participant did not receive treatment.

### Period 1

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

### Arms

|                              |                    |
|------------------------------|--------------------|
| Are arms mutually exclusive? | Yes                |
| <b>Arm title</b>             | Ertugliflozin 5 mg |

Arm description:

Ertugliflozin 5 mg once daily (QD) from Day 1 to Week 104

|  |                         |
|--|-------------------------|
| Arm type                               | Experimental            |
| Investigational medicinal product name | Ertugliflozin (MK-8835) |
| Investigational medicinal product code |                         |
| Other name                             | MK-8835                 |
| Pharmaceutical forms                   | Tablet                  |
| Routes of administration               | Oral use                |

Dosage and administration details:

Ertugliflozin 5 mg once daily (QD) from Day 1 to Week 104

|                  |                     |
|------------------|---------------------|
| <b>Arm title</b> | Ertugliflozin 15 mg |
|------------------|---------------------|

Arm description:

Ertugliflozin 15 mg QD from Day 1 to Week 104

|  |                         |
|--|-------------------------|
| Arm type                               | Experimental            |
| Investigational medicinal product name | Ertugliflozin (MK-8835) |
| Investigational medicinal product code |                         |
| Other name                             | MK-8835                 |
| Pharmaceutical forms                   | Tablet                  |
| Routes of administration               | Oral use                |

Dosage and administration details:

Ertugliflozin 15 mg QD from Day 1 to Week 104

|                  |             |
|------------------|-------------|
| <b>Arm title</b> | Glimepiride |
|------------------|-------------|

Arm description:

Glimepiride to a maximum of 8 mg QD from Day 1 to Week 104

|          |                   |
|----------|-------------------|
| Arm type | Active comparator |
|----------|-------------------|

|  |                 |
|--|-----------------|
| Investigational medicinal product name | Glimepiride     |
| Investigational medicinal product code |                 |
| Other name                             |                 |
| Pharmaceutical forms                   | Tablet, Capsule |
| Routes of administration               | Oral use        |

Dosage and administration details:

Glimepiride to a maximum of 8 mg QD from Day 1 to Week 104

| <b>Number of subjects in period 1</b> | Ertugliflozin 5 mg | Ertugliflozin 15 mg | Glimepiride |
|---------------------------------------|--------------------|---------------------|-------------|
| Started                               | 448                | 441                 | 437         |
| Treated                               | 448                | 440                 | 437         |
| Treated (excluding 1 trial site)      | 445                | 435                 | 435         |
| Completed                             | 339                | 340                 | 327         |
| Not completed                         | 109                | 101                 | 110         |
| Adverse event, serious fatal          | 7                  | 1                   | 2           |
| Physician decision                    | 1                  | 4                   | 6           |
| Screen failure                        | -                  | 1                   | -           |
| Hyperglycemia                         | 18                 | 17                  | 17          |
| Consent withdrawn by subject          | 28                 | 29                  | 34          |
| Treated but excluded at 1 trial site  | 3                  | 5                   | 2           |
| Participant moves                     | 2                  | 5                   | 3           |
| Excluded Medication                   | 1                  | 1                   | 2           |
| Creatinine/eGFR                       | -                  | -                   | 1           |
| Study Terminated By Sponsor           | 7                  | 5                   | 12          |
| Adverse event, non-fatal              | 9                  | 7                   | 7           |
| Non-Compliance With Study Drug        | 6                  | 4                   | 1           |
| Lost to follow-up                     | 22                 | 17                  | 18          |
| Lack of efficacy                      | 1                  | -                   | 1           |
| Protocol deviation                    | 4                  | 5                   | 4           |

## Baseline characteristics

### Reporting groups

|  |                     |
|--|---------------------|
| Reporting group title  | Ertugliflozin 5 mg  |
| Reporting group description:<br>Ertugliflozin 5 mg once daily (QD) from Day 1 to Week 104  |                     |
| Reporting group title  | Ertugliflozin 15 mg |
| Reporting group description:<br>Ertugliflozin 15 mg QD from Day 1 to Week 104              |                     |
| Reporting group title  | Glimepiride         |
| Reporting group description:<br>Glimepiride to a maximum of 8 mg QD from Day 1 to Week 104 |                     |

| Reporting group values  | Ertugliflozin 5 mg | Ertugliflozin 15 mg | Glimepiride |
|---|--------------------|---------------------|-------------|
| Number of subjects  | 448                | 441                 | 437         |
| Age categorical   |                    |                     |             |
| The analysis population included all randomized participants. |                    |                     |             |
| 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)  | 327                | 329                 | 334         |
| From 65-84 years  | 120                | 112                 | 103         |
| 85 years and over   | 1                  | 0                   | 0           |
| Age Continuous  |                    |                     |             |
| The analysis population included all randomized participants. |                    |                     |             |
| Units: years  |                    |                     |             |
| arithmetic mean   | 58.8               | 58.0                | 57.8        |
| standard deviation  | ± 9.7              | ± 9.9               | ± 9.2       |
| Sex: Female, Male   |                    |                     |             |
| The analysis population included all randomized participants. |                    |                     |             |
| Units: Subjects   |                    |                     |             |
| Female  | 221                | 250                 | 213         |
| Male  | 227                | 191                 | 224         |
| Race (NIH/OMB)  |                    |                     |             |
| The analysis population included all randomized participants. |                    |                     |             |
| Units: Subjects   |                    |                     |             |
| American Indian or Alaska Native                              | 5                  | 3                   | 5           |
| Asian   | 81                 | 86                  | 73          |
| Native Hawaiian or Other Pacific Islander                     | 0                  | 0                   | 0           |
| Black or African American                                     | 17                 | 19                  | 25          |
| White   | 332                | 316                 | 318         |
| More than one race  | 13                 | 17                  | 16          |
| Unknown or Not Reported                                       | 0                  | 0                   | 0           |

|   |        |        |        |
|---|--------|--------|--------|
| Prior Antihyperglycemic Medication (Monotherapy or Dual Therapy)  |        |        |        |
| All randomized participants with information on or baseline data of prior antihyperglycemic medication use                                  |        |        |        |
| Units: Subjects   |        |        |        |
| Prior Antihyperglycemic Medication  | 448    | 439    | 437    |
| No Prior Use & Not on Antihyperglycemic Medication  | 0      | 1      | 0      |
| Data not available  | 0      | 1      | 0      |
| Body Weight   |        |        |        |
| The analysis population included all randomized and treated participants (N=448, 440, 437).   |        |        |        |
| Units: Kilograms  |        |        |        |
| arithmetic mean   | 87.9   | 85.6   | 86.8   |
| standard deviation  | ± 18.9 | ± 19.1 | ± 20.7 |
| Hemoglobin A1C  |        |        |        |
| The analysis population included all randomized participants with a baseline A1C measurement (N=448, 440, 437).                             |        |        |        |
| Units: Percentage   |        |        |        |
| arithmetic mean   | 7.81   | 7.80   | 7.76   |
| standard deviation  | ± 0.60 | ± 0.60 | ± 0.60 |
| Sitting Systolic Blood Pressure   |        |        |        |
| The analysis population included all randomized participants with a baseline sitting systolic blood pressure measurement (N=448, 440, 437). |        |        |        |
| Units: Millimeters of mercury   |        |        |        |
| arithmetic mean   | 130.2  | 130.8  | 129.9  |
| standard deviation  | ± 12.8 | ± 12.4 | ± 12.0 |
| Estimated Glomerular Filtration Rate (eGFR)   |        |        |        |
| The analysis population included all randomized and treated participants (N=448, 440, 437).   |        |        |        |
| Units: milliliters/minute/1.73 meters <sup>2</sup>  |        |        |        |
| arithmetic mean   | 88.3   | 86.7   | 86.6   |
| standard deviation  | ± 18.7 | ± 18.3 | ± 18.5 |

|   |       |  |  |
|---|-------|--|--|
| <b>Reporting group values</b>                                 | Total |  |  |
| Number of subjects  | 1326  |  |  |
| Age categorical   |       |  |  |
| The analysis population included all randomized participants. |       |  |  |
| Units: Subjects   |       |  |  |
| In utero  | 0     |  |  |
| Preterm newborn infants (gestational age < 37 wks)            | 0     |  |  |
| Newborns (0-27 days)  | 0     |  |  |
| Infants and toddlers (28 days-23 months)                      | 0     |  |  |
| Children (2-11 years)   | 0     |  |  |
| Adolescents (12-17 years)                                     | 0     |  |  |
| Adults (18-64 years)  | 990   |  |  |
| From 65-84 years  | 335   |  |  |
| 85 years and over   | 1     |  |  |
| Age Continuous  |       |  |  |
| The analysis population included all randomized participants. |       |  |  |
| Units: years  |       |  |  |
| arithmetic mean   |       |  |  |
| standard deviation  | -     |  |  |

|   |      |  |  |
|---|------|--|--|
| Sex: Female, Male   |      |  |  |
| The analysis population included all randomized participants.   |      |  |  |
| Units: Subjects   |      |  |  |
| Female  | 684  |  |  |
| Male  | 642  |  |  |
| Race (NIH/OMB)  |      |  |  |
| The analysis population included all randomized participants.   |      |  |  |
| Units: Subjects   |      |  |  |
| American Indian or Alaska Native  | 13   |  |  |
| Asian   | 240  |  |  |
| Native Hawaiian or Other Pacific Islander   | 0    |  |  |
| Black or African American   | 61   |  |  |
| White   | 966  |  |  |
| More than one race  | 46   |  |  |
| Unknown or Not Reported   | 0    |  |  |
| Prior Antihyperglycemic Medication (Monotherapy or Dual Therapy)  |      |  |  |
| All randomized participants with information on or baseline data of prior antihyperglycemic medication use                                  |      |  |  |
| Units: Subjects   |      |  |  |
| Prior Antihyperglycemic Medication  | 1324 |  |  |
| No Prior Use & Not on Antihyperglycemic Medication  | 1    |  |  |
| Data not available  | 1    |  |  |
| Body Weight   |      |  |  |
| The analysis population included all randomized and treated participants (N=448, 440, 437).   |      |  |  |
| Units: Kilograms  |      |  |  |
| arithmetic mean   |      |  |  |
| standard deviation  | -    |  |  |
| Hemoglobin A1C  |      |  |  |
| The analysis population included all randomized participants with a baseline A1C measurement (N=448, 440, 437).                             |      |  |  |
| Units: Percentage   |      |  |  |
| arithmetic mean   |      |  |  |
| standard deviation  | -    |  |  |
| Sitting Systolic Blood Pressure   |      |  |  |
| The analysis population included all randomized participants with a baseline sitting systolic blood pressure measurement (N=448, 440, 437). |      |  |  |
| Units: Millimeters of mercury   |      |  |  |
| arithmetic mean   |      |  |  |
| standard deviation  | -    |  |  |
| Estimated Glomerular Filtration Rate (eGFR)   |      |  |  |
| The analysis population included all randomized and treated participants (N=448, 440, 437).   |      |  |  |
| Units: milliliters/minute/1.73 meters <sup>2</sup>  |      |  |  |
| arithmetic mean   |      |  |  |
| standard deviation  | -    |  |  |



## End points

### End points reporting groups

|  |                     |
|--|---------------------|
| Reporting group title  | Ertugliflozin 5 mg  |
| Reporting group description:<br>Ertugliflozin 5 mg once daily (QD) from Day 1 to Week 104  |                     |
| Reporting group title  | Ertugliflozin 15 mg |
| Reporting group description:<br>Ertugliflozin 15 mg QD from Day 1 to Week 104              |                     |
| Reporting group title  | Glimepiride         |
| Reporting group description:<br>Glimepiride to a maximum of 8 mg QD from Day 1 to Week 104 |                     |

### Primary: Change from Baseline in Hemoglobin A1C (A1C) at Week 52: Excluding Rescue Approach

|   |  |
|---|--|
| End point title   | Change from Baseline in Hemoglobin A1C (A1C) at Week 52: Excluding Rescue Approach |
| End point description:<br>A1C is a blood marker used to report average blood glucose levels over prolonged periods of time and is reported as a percentage (%). A1C represents the percentage of glycated hemoglobin. This change from baseline reflects the Week 52 A1C minus the Week 0 A1C. A negative number indicates a reduction in A1C level. Participants who met glycemic rescue criteria received open-label sitagliptin glycemic rescue medication, and all data following the initiation of rescue therapy were excluded from the analysis. The primary study objective was the MK-8835 15 mg vs. glimepiride comparison; the MK-8835 5mg vs glimepiride comparison was a secondary study objective. The analysis population included all randomized, treated participants with at least one A1C measurement (baseline or a post-baseline). |  |
| End point type  | Primary  |
| End point timeframe:<br>Baseline and Week 52  |  |

| End point values                             | Ertugliflozin 5 mg     | Ertugliflozin 15 mg    | Glimepiride            |  |
|--|------------------------|------------------------|------------------------|--|
| Subject group type                           | Reporting group        | Reporting group        | Reporting group        |  |
| Number of subjects analysed                  | 448                    | 440                    | 437                    |  |
| Units: Percent                               |                        |                        |                        |  |
| least squares mean (confidence interval 95%) | -0.56 (-0.65 to -0.47) | -0.64 (-0.73 to -0.55) | -0.74 (-0.83 to -0.65) |  |

### Statistical analyses

|   |                                       |
|---|---------------------------------------|
| Statistical analysis title  | Difference in the Least Squares Means |
| Statistical analysis description:<br>Constrained Longitudinal Data Analysis (cLDA) model with fixed effects for treatment, time, prior antihyperglycemic medication (monotherapy or dual therapy), baseline eGFR (continuous) and the interaction of time by treatment. |                                       |
| Comparison groups   | Ertugliflozin 15 mg v Glimepiride     |

|   |                                       |
|---|---------------------------------------|
| Number of subjects included in analysis | 877                                   |
| Analysis specification                  | Pre-specified                         |
| Analysis type                           | non-inferiority <sup>[1]</sup>        |
| Parameter estimate                      | Difference in the Least Squares Means |
| Point estimate                          | 0.1                                   |
| Confidence interval                     |                                       |
| level                                   | 95 %                                  |
| sides                                   | 2-sided                               |
| lower limit                             | -0.02                                 |
| upper limit                             | 0.22                                  |

Notes:

[1] - Non-inferiority is declared if the upper bound of the two-sided 95% confidence interval (CI) for the mean difference is less than 0.3%.

|                                   |                                       |
|-----------------------------------|---------------------------------------|
| <b>Statistical analysis title</b> | Difference in the Least Squares Means |
|-----------------------------------|---------------------------------------|

Statistical analysis description:

Based on cLDA model with fixed effects for treatment, time, prior antihyperglycemic medication (monotherapy or dual therapy), baseline eGFR (continuous) and the interaction of time by treatment.

|   |                                       |
|---|---------------------------------------|
| Comparison groups                       | Ertugliflozin 5 mg v Glimepiride      |
| Number of subjects included in analysis | 885                                   |
| Analysis specification                  | Pre-specified                         |
| Analysis type                           | non-inferiority <sup>[2]</sup>        |
| Parameter estimate                      | Difference in the Least Squares means |
| Point estimate                          | 0.18                                  |
| Confidence interval                     |                                       |
| level                                   | 95 %                                  |
| sides                                   | 2-sided                               |
| lower limit                             | 0.06                                  |
| upper limit                             | 0.3                                   |

Notes:

[2] - Non-inferiority is declared if the upper bound of the two-sided 95% confidence interval (CI) for the mean difference is less than 0.3%.

### **Primary: Percentage of Participants Experiencing An Adverse Event (AE) Up to Week 106**

|                 |  |
|-----------------|--|
| End point title | Percentage of Participants Experiencing An Adverse Event (AE) Up to Week 106 |
|-----------------|--|

End point description:

An AE is defined as any unfavorable and unintended sign including an abnormal laboratory finding, symptom or disease associated with the use of a medical treatment or procedure, regardless of whether it is considered related to the medical treatment or procedure, that occurs during the course of the study. The analysis population included all randomized participants who took at least one dose of trial treatment, 10 randomized participants from one trial site were excluded from these analyzes, and one randomized participant did not receive treatment.

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

End point timeframe:

Up to Week 106

| <b>End point values</b>           | Ertugliflozin 5 mg | Ertugliflozin 15 mg | Glimepiride     |  |
|-----------------------------------|--------------------|---------------------|-----------------|--|
| Subject group type                | Reporting group    | Reporting group     | Reporting group |  |
| Number of subjects analysed       | 445                | 435                 | 435             |  |
| Units: Percentage of Participants |                    |                     |                 |  |
| number (not applicable)           | 70.1               | 71.3                | 69.7            |  |

## Statistical analyses

| <b>Statistical analysis title</b>   | Difference in % vs. Glimepiride   |
|---|-----------------------------------|
| Statistical analysis description:<br>Based on Miettinen & Nurminen method |                                   |
| Comparison groups   | Ertugliflozin 15 mg v Glimepiride |
| Number of subjects included in analysis                                   | 870                               |
| Analysis specification  | Pre-specified                     |
| Analysis type   | other                             |
| Parameter estimate  | Difference in % vs. Glimepiride   |
| Point estimate  | 1.6                               |
| Confidence interval   |                                   |
| level   | 95 %                              |
| sides   | 2-sided                           |
| lower limit   | -4.5                              |
| upper limit   | 7.7                               |

| <b>Statistical analysis title</b>   | Difference in % vs. Glimepiride  |
|---|----------------------------------|
| Statistical analysis description:<br>Based on Miettinen & Nurminen method |                                  |
| Comparison groups   | Ertugliflozin 5 mg v Glimepiride |
| Number of subjects included in analysis                                   | 880                              |
| Analysis specification  | Pre-specified                    |
| Analysis type   | other                            |
| Parameter estimate  | Difference in % vs. Glimepiride  |
| Point estimate  | 0.5                              |
| Confidence interval   |                                  |
| level   | 95 %                             |
| sides   | 2-sided                          |
| lower limit   | -5.6                             |
| upper limit   | 6.5                              |

## Primary: Percentage of Participants Discontinuing Study Treatment Due to an AE Up to Week 104

| <b>End point title</b> | Percentage of Participants Discontinuing Study Treatment Due to an AE Up to Week 104 |
|------------------------|--|
|------------------------|--|

End point description:

An AE is defined as any unfavorable and unintended sign including an abnormal laboratory finding,

symptom or disease associated with the use of a medical treatment or procedure, regardless of whether it is considered related to the medical treatment or procedure, that occurs during the course of the study. The analysis population included all randomized participants who took at least one dose of trial treatment, 10 randomized participants from one trial site were excluded from these analyzes, and one randomized participant did not receive treatment.

|                      |         |
|----------------------|---------|
| End point type       | Primary |
| End point timeframe: |         |
| Up to Week 104       |         |

| End point values                  | Ertugliflozin 5 mg | Ertugliflozin 15 mg | Glimepiride     |  |
|-----------------------------------|--------------------|---------------------|-----------------|--|
| Subject group type                | Reporting group    | Reporting group     | Reporting group |  |
| Number of subjects analysed       | 445                | 435                 | 435             |  |
| Units: Percentage of Participants |                    |                     |                 |  |
| number (not applicable)           | 6.5                | 8.0                 | 5.1             |  |

## Statistical analyses

|   |                                   |
|---|-----------------------------------|
| <b>Statistical analysis title</b>       | Difference in % vs. Glimepiride   |
| Statistical analysis description:       |                                   |
| Based on Miettinen & Nurminen method    |                                   |
| Comparison groups                       | Ertugliflozin 15 mg v Glimepiride |
| Number of subjects included in analysis | 870                               |
| Analysis specification                  | Pre-specified                     |
| Analysis type                           | other                             |
| Parameter estimate                      | Difference in % vs. Glimepiride   |
| Point estimate                          | 3                                 |
| Confidence interval                     |                                   |
| level                                   | 95 %                              |
| sides                                   | 2-sided                           |
| lower limit                             | -0.3                              |
| upper limit                             | 6.4                               |

|   |                                  |
|---|----------------------------------|
| <b>Statistical analysis title</b>       | Difference in % vs. Glimepiride  |
| Statistical analysis description:       |                                  |
| Based on Miettinen & Nurminen method    |                                  |
| Comparison groups                       | Ertugliflozin 5 mg v Glimepiride |
| Number of subjects included in analysis | 880                              |
| Analysis specification                  | Pre-specified                    |
| Analysis type                           | other                            |
| Parameter estimate                      | Difference in % vs. Glimepiride  |
| Point estimate                          | 1.5                              |

|                     |         |
|---------------------|---------|
| Confidence interval |         |
| level               | 95 %    |
| sides               | 2-sided |
| lower limit         | -1.7    |
| upper limit         | 4.7     |

## Secondary: Percentage of Participants with an Adverse Event of Symptomatic Hypoglycemia Up to Week 52: Excluding Rescue Approach

|                 |   |
|-----------------|---|
| End point title | Percentage of Participants with an Adverse Event of Symptomatic Hypoglycemia Up to Week 52: Excluding Rescue Approach |
|-----------------|---|

End point description:

Symptomatic hypoglycemia was an event with clinical symptoms reported by the investigator as hypoglycemia (biochemical documentation not required). Participants who met glycemic rescue criteria received open-label sitagliptin glycemic rescue medication, and all data following the initiation of rescue therapy were excluded from the analysis. The analysis population included all randomized participants who took at least one dose of trial treatment.

|                      |           |
|----------------------|-----------|
| End point type       | Secondary |
| End point timeframe: |           |
| Up to Week 52        |           |

| End point values                  | Ertugliflozin 5 mg | Ertugliflozin 15 mg | Glimepiride     |  |
|-----------------------------------|--------------------|---------------------|-----------------|--|
| Subject group type                | Reporting group    | Reporting group     | Reporting group |  |
| Number of subjects analysed       | 448                | 440                 | 437             |  |
| Units: Percentage of Participants |                    |                     |                 |  |
| number (not applicable)           | 3.1                | 5.2                 | 19.2            |  |

## Statistical analyses

|   |                                      |
|---|--------------------------------------|
| Statistical analysis title              | Difference in % vs. Glimepiride      |
| Statistical analysis description:       |                                      |
| Based on Miettinen & Nurminen method    |                                      |
| Comparison groups                       | Ertugliflozin 15 mg v Glimepiride    |
| Number of subjects included in analysis | 877                                  |
| Analysis specification                  | Pre-specified                        |
| Analysis type                           | other                                |
| P-value                                 | < 0.001                              |
| Method                                  | Based on Miettinen & Nurminen method |
| Parameter estimate                      | Difference in % vs. Glimepiride      |
| Point estimate                          | -14                                  |
| Confidence interval                     |                                      |
| level                                   | 95 %                                 |
| sides                                   | 2-sided                              |
| lower limit                             | -18.4                                |
| upper limit                             | -9.8                                 |

|   |                                      |
|---|--------------------------------------|
| <b>Statistical analysis title</b>   | Difference in % vs. Glimepiride      |
| Statistical analysis description:<br>Based on Miettinen & Nurminen method |                                      |
| Comparison groups   | Ertugliflozin 5 mg v Glimepiride     |
| Number of subjects included in analysis                                   | 885                                  |
| Analysis specification  | Pre-specified                        |
| Analysis type   | other                                |
| P-value   | < 0.001                              |
| Method  | Based on Miettinen & Nurminen method |
| Parameter estimate  | Difference in % vs. Glimepiride      |
| Point estimate  | -16.1                                |
| Confidence interval   |                                      |
| level   | 95 %                                 |
| sides   | 2-sided                              |
| lower limit   | -20.3                                |
| upper limit   | -12.2                                |

## Secondary: Change from Baseline in Body Weight at Week 52 Excluding Rescue Approach

|  |  |
|--|--|
| End point title  | Change from Baseline in Body Weight at Week 52 Excluding Rescue Approach |
| End point description:<br>This change from baseline reflects the Week 52 body weight minus the Week 0 body weight. Participants who met glycemic rescue criteria received open-label sitagliptin glycemic rescue medication, and all data following the initiation of rescue therapy were excluded from the analysis. The analysis population included all randomized, treated participants with at least one body weight measurement (baseline or a post-baseline). |  |
| End point type   | Secondary  |
| End point timeframe:<br>Baseline and Week 52   |  |

| End point values                             | Ertugliflozin 5 mg     | Ertugliflozin 15 mg    | Glimepiride         |  |
|--|------------------------|------------------------|---------------------|--|
| Subject group type                           | Reporting group        | Reporting group        | Reporting group     |  |
| Number of subjects analysed                  | 448                    | 440                    | 437                 |  |
| Units: Kilograms                             |                        |                        |                     |  |
| least squares mean (confidence interval 95%) | -2.96 (-3.31 to -2.61) | -3.38 (-3.73 to -3.03) | 0.91 (0.56 to 1.25) |  |

## Statistical analyses

|   |  |
|---|--|
| <b>Statistical analysis title</b>   | Difference in LSM vs. Glimepiride      |
| Statistical analysis description:<br>Fixed effects for treatment, time, interaction of time by treatment, prior antihyperglycemic medication (monotherapy or dual therapy), and baseline eGFR (continuous). |  |
| Comparison groups   | Ertugliflozin 15 mg v Glimepiride      |
| Number of subjects included in analysis   | 877                                    |
| Analysis specification  | Pre-specified                          |
| Analysis type   |  |
| P-value   | < 0.001                                |
| Method  | Constrained Longitudinal Data analysis |
| Parameter estimate  | Difference in LSM vs. Glimepiride      |
| Point estimate  | -4.29                                  |
| Confidence interval   |  |
| level   | 95 %                                   |
| sides   | 2-sided                                |
| lower limit   | -4.77                                  |
| upper limit   | -3.8                                   |

|   |  |
|---|--|
| <b>Statistical analysis title</b>   | Difference in LSM vs. Glimepiride      |
| Statistical analysis description:<br>Constrained Longitudinal Data analysis with fixed effects for treatment, time, interaction of time by treatment, prior antihyperglycemic medication (monotherapy or dual therapy), and baseline eGFR (continuous). |  |
| Comparison groups   | Ertugliflozin 5 mg v Glimepiride       |
| Number of subjects included in analysis   | 885                                    |
| Analysis specification  | Pre-specified                          |
| Analysis type   | other                                  |
| P-value   | < 0.001                                |
| Method  | Constrained Longitudinal Data Analysis |
| Parameter estimate  | Difference in the LSM vs. Glimepiride  |
| Point estimate  | -3.87                                  |
| Confidence interval   |  |
| level   | 95 %                                   |
| sides   | 2-sided                                |
| lower limit   | -4.36                                  |
| upper limit   | -3.38                                  |

|  |  |
|--|--|
| <b>Secondary: Change from Baseline in Sitting Systolic Blood Pressure (SBP) at Week 52 Excluding Rescue Approach</b> |  |
| End point title  | Change from Baseline in Sitting Systolic Blood Pressure (SBP) at Week 52 Excluding Rescue Approach |

End point description:  
This change from baseline reflects the Week 52 SBP minus the Week 0 SBP. Participants who met glycemic rescue criteria received open-label sitagliptin glycemic rescue medication, and all data following the initiation of rescue therapy were excluded from the analysis. The analysis population included all randomized, treated participants with at least one SBP measurement (baseline or a post-baseline).

|                      |           |
|----------------------|-----------|
| End point type       | Secondary |
| End point timeframe: |           |
| Baseline and Week 52 |           |

| End point values                             | Ertugliflozin 5 mg     | Ertugliflozin 15 mg    | Glimepiride          |  |
|--|------------------------|------------------------|----------------------|--|
| Subject group type                           | Reporting group        | Reporting group        | Reporting group      |  |
| Number of subjects analysed                  | 448                    | 440                    | 437                  |  |
| Units: mmHg                                  |                        |                        |                      |  |
| least squares mean (confidence interval 95%) | -2.25 (-3.36 to -1.13) | -3.81 (-4.91 to -2.71) | 0.95 (-0.15 to 2.06) |  |

## Statistical analyses

| Statistical analysis title  | Difference in the LSM vs. Glimepiride |
|---|---------------------------------------|
| Statistical analysis description:   |                                       |
| Constrained Logitudinal Data Analysis with fixed effects for treatment, time, interaction of time by treatment, prior antihyperglycemic medication (monotherapy or dual therapy), and baseline eGFR (continuous). |                                       |
| Comparison groups   | Ertugliflozin 15 mg v Glimepiride     |
| Number of subjects included in analysis   | 877                                   |
| Analysis specification  | Pre-specified                         |
| Analysis type   | other                                 |
| P-value   | < 0.001                               |
| Method  | Constrained Logitudinal Data Analysis |
| Parameter estimate  | Difference in the LSM vs. Glimepiride |
| Point estimate  | -4.77                                 |
| Confidence interval   |                                       |
| level   | 95 %                                  |
| sides   | 2-sided                               |
| lower limit   | -6.29                                 |
| upper limit   | -3.25                                 |

| Statistical analysis title  | Difference in the LSM vs. Glimepiride |
|---|---------------------------------------|
| Statistical analysis description:   |                                       |
| Constrained Logitudinal Data Analysis with fixed effects for treatment, time, interaction of time by treatment, prior antihyperglycemic medication (monotherapy or dual therapy), and baseline eGFR (continuous). |                                       |
| Comparison groups   | Ertugliflozin 5 mg v Glimepiride      |



|   |                                       |
|---|---------------------------------------|
| Number of subjects included in analysis | 885                                   |
| Analysis specification                  | Pre-specified                         |
| Analysis type                           | other                                 |
| P-value                                 | < 0.001                               |
| Method                                  | Constrained Logitudinal Data Analysis |
| Parameter estimate                      | Difference in the LSM vs. Glimepiride |
| Point estimate                          | -3.2                                  |
| Confidence interval                     |                                       |
| level                                   | Other: 0 %                            |
| sides                                   | 2-sided                               |
| lower limit                             | -4.73                                 |
| upper limit                             | -1.67                                 |

## Adverse events

### Adverse events information

Timeframe for reporting adverse events:

Up to Week 106

Adverse event reporting additional description:

The safety analysis population included all randomized participants who took at least one dose of trial treatment, 10 randomized participants from one trial site were excluded from these analyzes, and one randomized participant did not receive treatment.

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

### Dictionary used

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

|                    |      |
|--------------------|------|
| Dictionary version | 20.0 |
|--------------------|------|

### Reporting groups

|                       |                    |
|-----------------------|--------------------|
| Reporting group title | Ertugliflozin 5 mg |
|-----------------------|--------------------|

Reporting group description:

Ertugliflozin 5 mg once daily (QD) from Day 1 to Week 104

|                       |                     |
|-----------------------|---------------------|
| Reporting group title | Ertugliflozin 15 mg |
|-----------------------|---------------------|

Reporting group description:

Ertugliflozin 15 mg QD from Day 1 to Week 104

|                       |             |
|-----------------------|-------------|
| Reporting group title | Glimepiride |
|-----------------------|-------------|

Reporting group description:

Glimepiride to a maximum of 8 mg QD from Day 1 to Week 104

| Serious adverse events  | Ertugliflozin 5 mg | Ertugliflozin 15 mg | Glimepiride      |
|---|--------------------|---------------------|------------------|
| Total subjects affected by serious adverse events                   |                    |                     |                  |
| subjects affected / exposed   | 41 / 445 (9.21%)   | 32 / 435 (7.36%)    | 30 / 435 (6.90%) |
| number of deaths (all causes)                                       | 7                  | 2                   | 1                |
| number of deaths resulting from adverse events                      | 0                  | 0                   | 0                |
| Neoplasms benign, malignant and unspecified (incl cysts and polyps) |                    |                     |                  |
| Basal cell carcinoma  |                    |                     |                  |
| subjects affected / exposed   | 0 / 445 (0.00%)    | 1 / 435 (0.23%)     | 1 / 435 (0.23%)  |
| occurrences causally related to treatment / all                     | 0 / 0              | 0 / 1               | 0 / 1            |
| deaths causally related to treatment / all                          | 0 / 0              | 0 / 0               | 0 / 0            |
| Breast carcinoma  |                    |                     |                  |
| subjects affected / exposed   | 0 / 445 (0.00%)    | 2 / 435 (0.46%)     | 0 / 435 (0.00%)  |
| occurrences causally related to treatment / all                     | 0 / 0              | 0 / 2               | 0 / 0            |
| deaths causally related to treatment / all                          | 0 / 0              | 0 / 0               | 0 / 0            |
| Breast ductal carcinoma   |                    |                     |                  |

|   |                 |                 |                 |
|---|-----------------|-----------------|-----------------|
| subjects affected / exposed                     | 0 / 445 (0.00%) | 1 / 435 (0.23%) | 0 / 435 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0           | 0 / 1           | 0 / 0           |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           | 0 / 0           |
| Cancer of sigmoid colon (excl rectosigmoid)     |                 |                 |                 |
| subjects affected / exposed                     | 1 / 445 (0.22%) | 0 / 435 (0.00%) | 0 / 435 (0.00%) |
| occurrences causally related to treatment / all | 0 / 1           | 0 / 0           | 0 / 0           |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           | 0 / 0           |
| Chronic lymphocytic leukaemia                   |                 |                 |                 |
| subjects affected / exposed                     | 1 / 445 (0.22%) | 0 / 435 (0.00%) | 0 / 435 (0.00%) |
| occurrences causally related to treatment / all | 0 / 1           | 0 / 0           | 0 / 0           |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           | 0 / 0           |
| Colon cancer                                    |                 |                 |                 |
| subjects affected / exposed                     | 0 / 445 (0.00%) | 1 / 435 (0.23%) | 0 / 435 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0           | 0 / 1           | 0 / 0           |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           | 0 / 0           |
| Intraductal papilloma of breast                 |                 |                 |                 |
| subjects affected / exposed                     | 0 / 445 (0.00%) | 0 / 435 (0.00%) | 1 / 435 (0.23%) |
| occurrences causally related to treatment / all | 0 / 0           | 0 / 0           | 0 / 1           |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           | 0 / 0           |
| Invasive breast carcinoma                       |                 |                 |                 |
| subjects affected / exposed                     | 0 / 445 (0.00%) | 0 / 435 (0.00%) | 1 / 435 (0.23%) |
| occurrences causally related to treatment / all | 0 / 0           | 0 / 0           | 0 / 1           |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           | 0 / 0           |
| Lip squamous cell carcinoma                     |                 |                 |                 |
| subjects affected / exposed                     | 0 / 445 (0.00%) | 1 / 435 (0.23%) | 0 / 435 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0           | 0 / 1           | 0 / 0           |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           | 0 / 0           |
| Malignant melanoma                              |                 |                 |                 |
| subjects affected / exposed                     | 0 / 445 (0.00%) | 1 / 435 (0.23%) | 0 / 435 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0           | 0 / 1           | 0 / 0           |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           | 0 / 0           |
| Metatypical basal cell carcinoma                |                 |                 |                 |

|   |                 |                 |                 |
|---|-----------------|-----------------|-----------------|
| subjects affected / exposed                     | 0 / 445 (0.00%) | 0 / 435 (0.00%) | 1 / 435 (0.23%) |
| occurrences causally related to treatment / all | 0 / 0           | 0 / 0           | 0 / 1           |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           | 0 / 0           |
| Multiple myeloma                                |                 |                 |                 |
| subjects affected / exposed                     | 1 / 445 (0.22%) | 0 / 435 (0.00%) | 0 / 435 (0.00%) |
| occurrences causally related to treatment / all | 0 / 1           | 0 / 0           | 0 / 0           |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           | 0 / 0           |
| Ovarian cystadenoma                             |                 |                 |                 |
| subjects affected / exposed                     | 0 / 445 (0.00%) | 1 / 435 (0.23%) | 0 / 435 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0           | 0 / 1           | 0 / 0           |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           | 0 / 0           |
| Pelvic neoplasm                                 |                 |                 |                 |
| subjects affected / exposed                     | 0 / 445 (0.00%) | 1 / 435 (0.23%) | 0 / 435 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0           | 0 / 1           | 0 / 0           |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           | 0 / 0           |
| Prostate cancer                                 |                 |                 |                 |
| subjects affected / exposed                     | 1 / 445 (0.22%) | 0 / 435 (0.00%) | 0 / 435 (0.00%) |
| occurrences causally related to treatment / all | 0 / 1           | 0 / 0           | 0 / 0           |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           | 0 / 0           |
| Thyroid papillary carcinoma                     |                 |                 |                 |
| subjects affected / exposed                     | 0 / 445 (0.00%) | 0 / 435 (0.00%) | 1 / 435 (0.23%) |
| occurrences causally related to treatment / all | 0 / 0           | 0 / 0           | 0 / 1           |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           | 0 / 0           |
| Tubular adenocarcinoma gastric                  |                 |                 |                 |
| subjects affected / exposed                     | 1 / 445 (0.22%) | 0 / 435 (0.00%) | 0 / 435 (0.00%) |
| occurrences causally related to treatment / all | 0 / 1           | 0 / 0           | 0 / 0           |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           | 0 / 0           |
| Uterine fibroids                                |                 |                 |                 |
| subjects affected / exposed                     | 0 / 445 (0.00%) | 1 / 435 (0.23%) | 0 / 435 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0           | 0 / 1           | 0 / 0           |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           | 0 / 0           |
| Uterine leiomyoma                               |                 |                 |                 |

|  |                 |                 |                 |
|--|-----------------|-----------------|-----------------|
| subjects affected / exposed                          | 1 / 445 (0.22%) | 1 / 435 (0.23%) | 0 / 435 (0.00%) |
| occurrences causally related to treatment / all      | 0 / 1           | 0 / 1           | 0 / 0           |
| deaths causally related to treatment / all           | 0 / 0           | 0 / 0           | 0 / 0           |
| Vascular disorders                                   |                 |                 |                 |
| Diabetic peripheral angiopathy                       |                 |                 |                 |
| subjects affected / exposed                          | 0 / 445 (0.00%) | 0 / 435 (0.00%) | 1 / 435 (0.23%) |
| occurrences causally related to treatment / all      | 0 / 0           | 0 / 0           | 0 / 1           |
| deaths causally related to treatment / all           | 0 / 0           | 0 / 0           | 0 / 0           |
| Leg ischaemia  |                 |                 |                 |
| subjects affected / exposed                          | 0 / 445 (0.00%) | 1 / 435 (0.23%) | 0 / 435 (0.00%) |
| occurrences causally related to treatment / all      | 0 / 0           | 0 / 1           | 0 / 0           |
| deaths causally related to treatment / all           | 0 / 0           | 0 / 0           | 0 / 0           |
| General disorders and administration site conditions |                 |                 |                 |
| Incarcerated hernia                                  |                 |                 |                 |
| subjects affected / exposed                          | 0 / 445 (0.00%) | 1 / 435 (0.23%) | 0 / 435 (0.00%) |
| occurrences causally related to treatment / all      | 0 / 0           | 0 / 1           | 0 / 0           |
| deaths causally related to treatment / all           | 0 / 0           | 0 / 0           | 0 / 0           |
| Multi-organ failure                                  |                 |                 |                 |
| subjects affected / exposed                          | 1 / 445 (0.22%) | 0 / 435 (0.00%) | 0 / 435 (0.00%) |
| occurrences causally related to treatment / all      | 0 / 1           | 0 / 0           | 0 / 0           |
| deaths causally related to treatment / all           | 0 / 1           | 0 / 0           | 0 / 0           |
| Sudden cardiac death                                 |                 |                 |                 |
| subjects affected / exposed                          | 1 / 445 (0.22%) | 0 / 435 (0.00%) | 0 / 435 (0.00%) |
| occurrences causally related to treatment / all      | 0 / 1           | 0 / 0           | 0 / 0           |
| deaths causally related to treatment / all           | 0 / 1           | 0 / 0           | 0 / 0           |
| Sudden death   |                 |                 |                 |
| subjects affected / exposed                          | 1 / 445 (0.22%) | 0 / 435 (0.00%) | 1 / 435 (0.23%) |
| occurrences causally related to treatment / all      | 0 / 1           | 0 / 0           | 0 / 1           |
| deaths causally related to treatment / all           | 0 / 1           | 0 / 0           | 0 / 1           |
| Weakness generalised                                 |                 |                 |                 |
| subjects affected / exposed                          | 0 / 445 (0.00%) | 1 / 435 (0.23%) | 0 / 435 (0.00%) |
| occurrences causally related to treatment / all      | 0 / 0           | 0 / 1           | 0 / 0           |
| deaths causally related to treatment / all           | 0 / 0           | 0 / 0           | 0 / 0           |

|  |                 |                 |                 |
|--|-----------------|-----------------|-----------------|
| Reproductive system and breast disorders           |                 |                 |                 |
| Balanoposthitis                                    |                 |                 |                 |
| subjects affected / exposed                        | 0 / 445 (0.00%) | 1 / 435 (0.23%) | 0 / 435 (0.00%) |
| occurrences causally related to treatment / all    | 0 / 0           | 1 / 1           | 0 / 0           |
| deaths causally related to treatment / all         | 0 / 0           | 0 / 0           | 0 / 0           |
| Menometrorrhagia                                   |                 |                 |                 |
| subjects affected / exposed                        | 0 / 445 (0.00%) | 0 / 435 (0.00%) | 1 / 435 (0.23%) |
| occurrences causally related to treatment / all    | 0 / 0           | 0 / 0           | 0 / 1           |
| deaths causally related to treatment / all         | 0 / 0           | 0 / 0           | 0 / 0           |
| Respiratory, thoracic and mediastinal disorders    |                 |                 |                 |
| Acute respiratory failure                          |                 |                 |                 |
| subjects affected / exposed                        | 0 / 445 (0.00%) | 0 / 435 (0.00%) | 1 / 435 (0.23%) |
| occurrences causally related to treatment / all    | 0 / 0           | 0 / 0           | 0 / 1           |
| deaths causally related to treatment / all         | 0 / 0           | 0 / 0           | 0 / 0           |
| Adult respiratory distress syndrome                |                 |                 |                 |
| subjects affected / exposed                        | 1 / 445 (0.22%) | 0 / 435 (0.00%) | 0 / 435 (0.00%) |
| occurrences causally related to treatment / all    | 0 / 1           | 0 / 0           | 0 / 0           |
| deaths causally related to treatment / all         | 0 / 0           | 0 / 0           | 0 / 0           |
| Asthma aggravated                                  |                 |                 |                 |
| subjects affected / exposed                        | 0 / 445 (0.00%) | 0 / 435 (0.00%) | 1 / 435 (0.23%) |
| occurrences causally related to treatment / all    | 0 / 0           | 0 / 0           | 0 / 1           |
| deaths causally related to treatment / all         | 0 / 0           | 0 / 0           | 0 / 0           |
| Choanal polyp                                      |                 |                 |                 |
| subjects affected / exposed                        | 0 / 445 (0.00%) | 0 / 435 (0.00%) | 1 / 435 (0.23%) |
| occurrences causally related to treatment / all    | 0 / 0           | 0 / 0           | 0 / 1           |
| deaths causally related to treatment / all         | 0 / 0           | 0 / 0           | 0 / 0           |
| Chronic obstructive airways disease exacerbated    |                 |                 |                 |
| subjects affected / exposed                        | 0 / 445 (0.00%) | 1 / 435 (0.23%) | 0 / 435 (0.00%) |
| occurrences causally related to treatment / all    | 0 / 0           | 0 / 1           | 0 / 0           |
| deaths causally related to treatment / all         | 0 / 0           | 0 / 0           | 0 / 0           |
| Chronic obstructive pulmonary disease exacerbation |                 |                 |                 |

|   |                 |                 |                 |
|---|-----------------|-----------------|-----------------|
| subjects affected / exposed                     | 1 / 445 (0.22%) | 0 / 435 (0.00%) | 1 / 435 (0.23%) |
| occurrences causally related to treatment / all | 0 / 1           | 0 / 0           | 0 / 1           |
| deaths causally related to treatment / all      | 0 / 1           | 0 / 0           | 0 / 0           |
| Obstructive chronic bronchitis                  |                 |                 |                 |
| subjects affected / exposed                     | 0 / 445 (0.00%) | 0 / 435 (0.00%) | 1 / 435 (0.23%) |
| occurrences causally related to treatment / all | 0 / 0           | 0 / 0           | 0 / 1           |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           | 0 / 0           |
| Respiratory failure                             |                 |                 |                 |
| subjects affected / exposed                     | 1 / 445 (0.22%) | 0 / 435 (0.00%) | 0 / 435 (0.00%) |
| occurrences causally related to treatment / all | 0 / 1           | 0 / 0           | 0 / 0           |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           | 0 / 0           |
| Vocal cord nodule                               |                 |                 |                 |
| subjects affected / exposed                     | 1 / 445 (0.22%) | 0 / 435 (0.00%) | 0 / 435 (0.00%) |
| occurrences causally related to treatment / all | 0 / 1           | 0 / 0           | 0 / 0           |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           | 0 / 0           |
| Psychiatric disorders                           |                 |                 |                 |
| Depression aggravated                           |                 |                 |                 |
| subjects affected / exposed                     | 1 / 445 (0.22%) | 0 / 435 (0.00%) | 0 / 435 (0.00%) |
| occurrences causally related to treatment / all | 0 / 1           | 0 / 0           | 0 / 0           |
| deaths causally related to treatment / all      | 0 / 1           | 0 / 0           | 0 / 0           |
| Depression worsened                             |                 |                 |                 |
| subjects affected / exposed                     | 0 / 445 (0.00%) | 0 / 435 (0.00%) | 1 / 435 (0.23%) |
| occurrences causally related to treatment / all | 0 / 0           | 0 / 0           | 0 / 2           |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           | 0 / 0           |
| Recurrent depressive disorder                   |                 |                 |                 |
| subjects affected / exposed                     | 0 / 445 (0.00%) | 0 / 435 (0.00%) | 1 / 435 (0.23%) |
| occurrences causally related to treatment / all | 0 / 0           | 0 / 0           | 0 / 1           |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           | 0 / 0           |
| Investigations                                  |                 |                 |                 |
| Blood pressure increased                        |                 |                 |                 |
| subjects affected / exposed                     | 0 / 445 (0.00%) | 0 / 435 (0.00%) | 1 / 435 (0.23%) |
| occurrences causally related to treatment / all | 0 / 0           | 0 / 0           | 0 / 1           |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           | 0 / 0           |
| Glomerular filtration rate decreased            |                 |                 |                 |

|   |                 |                 |                 |
|---|-----------------|-----------------|-----------------|
| subjects affected / exposed                     | 0 / 445 (0.00%) | 1 / 435 (0.23%) | 0 / 435 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0           | 1 / 1           | 0 / 0           |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           | 0 / 0           |
| Injury, poisoning and procedural complications  |                 |                 |                 |
| Chest injury                                    |                 |                 |                 |
| subjects affected / exposed                     | 1 / 445 (0.22%) | 0 / 435 (0.00%) | 0 / 435 (0.00%) |
| occurrences causally related to treatment / all | 0 / 1           | 0 / 0           | 0 / 0           |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           | 0 / 0           |
| Face injury                                     |                 |                 |                 |
| subjects affected / exposed                     | 1 / 445 (0.22%) | 0 / 435 (0.00%) | 0 / 435 (0.00%) |
| occurrences causally related to treatment / all | 0 / 1           | 0 / 0           | 0 / 0           |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           | 0 / 0           |
| Knee ligament injury                            |                 |                 |                 |
| subjects affected / exposed                     | 0 / 445 (0.00%) | 0 / 435 (0.00%) | 1 / 435 (0.23%) |
| occurrences causally related to treatment / all | 0 / 0           | 0 / 0           | 0 / 1           |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           | 0 / 0           |
| Knee sprain                                     |                 |                 |                 |
| subjects affected / exposed                     | 0 / 445 (0.00%) | 1 / 435 (0.23%) | 0 / 435 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0           | 0 / 1           | 0 / 0           |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           | 0 / 0           |
| Ligament rupture                                |                 |                 |                 |
| subjects affected / exposed                     | 0 / 445 (0.00%) | 1 / 435 (0.23%) | 0 / 435 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0           | 0 / 1           | 0 / 0           |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           | 0 / 0           |
| Ligament sprain                                 |                 |                 |                 |
| subjects affected / exposed                     | 0 / 445 (0.00%) | 0 / 435 (0.00%) | 1 / 435 (0.23%) |
| occurrences causally related to treatment / all | 0 / 0           | 0 / 0           | 0 / 1           |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           | 0 / 0           |
| Lumbar sprain                                   |                 |                 |                 |
| subjects affected / exposed                     | 0 / 445 (0.00%) | 1 / 435 (0.23%) | 0 / 435 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0           | 0 / 1           | 0 / 0           |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           | 0 / 0           |
| Lumbar strain                                   |                 |                 |                 |



|   |                 |                 |                 |
|---|-----------------|-----------------|-----------------|
| subjects affected / exposed                     | 0 / 445 (0.00%) | 0 / 435 (0.00%) | 1 / 435 (0.23%) |
| occurrences causally related to treatment / all | 0 / 0           | 0 / 0           | 0 / 1           |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           | 0 / 0           |
| Lumbosacral (joint) (ligament) sprain           |                 |                 |                 |
| subjects affected / exposed                     | 0 / 445 (0.00%) | 0 / 435 (0.00%) | 1 / 435 (0.23%) |
| occurrences causally related to treatment / all | 0 / 0           | 0 / 0           | 0 / 1           |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           | 0 / 0           |
| Malleolar fracture                              |                 |                 |                 |
| subjects affected / exposed                     | 0 / 445 (0.00%) | 1 / 435 (0.23%) | 0 / 435 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0           | 0 / 1           | 0 / 0           |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           | 0 / 0           |
| Neck strain                                     |                 |                 |                 |
| subjects affected / exposed                     | 0 / 445 (0.00%) | 0 / 435 (0.00%) | 1 / 435 (0.23%) |
| occurrences causally related to treatment / all | 0 / 0           | 0 / 0           | 0 / 1           |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           | 0 / 0           |
| Pertrochanteric fracture of femur, closed       |                 |                 |                 |
| subjects affected / exposed                     | 0 / 445 (0.00%) | 1 / 435 (0.23%) | 0 / 435 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0           | 0 / 1           | 0 / 0           |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           | 0 / 0           |
| Polytraumatism                                  |                 |                 |                 |
| subjects affected / exposed                     | 1 / 445 (0.22%) | 0 / 435 (0.00%) | 0 / 435 (0.00%) |
| occurrences causally related to treatment / all | 0 / 1           | 0 / 0           | 0 / 0           |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           | 0 / 0           |
| Shoulder sprain                                 |                 |                 |                 |
| subjects affected / exposed                     | 0 / 445 (0.00%) | 1 / 435 (0.23%) | 0 / 435 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0           | 0 / 1           | 0 / 0           |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           | 0 / 0           |
| Spinal column injury                            |                 |                 |                 |
| subjects affected / exposed                     | 0 / 445 (0.00%) | 0 / 435 (0.00%) | 1 / 435 (0.23%) |
| occurrences causally related to treatment / all | 0 / 0           | 0 / 0           | 0 / 1           |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           | 0 / 0           |
| Traumatic brain injury                          |                 |                 |                 |

|   |                 |                 |                 |
|---|-----------------|-----------------|-----------------|
| subjects affected / exposed                     | 1 / 445 (0.22%) | 0 / 435 (0.00%) | 0 / 435 (0.00%) |
| occurrences causally related to treatment / all | 0 / 1           | 0 / 0           | 0 / 0           |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           | 0 / 0           |
| Upper limb fracture                             |                 |                 |                 |
| subjects affected / exposed                     | 0 / 445 (0.00%) | 0 / 435 (0.00%) | 1 / 435 (0.23%) |
| occurrences causally related to treatment / all | 0 / 0           | 0 / 0           | 0 / 1           |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           | 0 / 0           |
| Cardiac disorders                               |                 |                 |                 |
| Acute coronary syndrome                         |                 |                 |                 |
| subjects affected / exposed                     | 1 / 445 (0.22%) | 1 / 435 (0.23%) | 0 / 435 (0.00%) |
| occurrences causally related to treatment / all | 0 / 1           | 0 / 1           | 0 / 0           |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           | 0 / 0           |
| Acute myocardial infarction                     |                 |                 |                 |
| subjects affected / exposed                     | 1 / 445 (0.22%) | 1 / 435 (0.23%) | 0 / 435 (0.00%) |
| occurrences causally related to treatment / all | 0 / 1           | 0 / 1           | 0 / 0           |
| deaths causally related to treatment / all      | 0 / 1           | 0 / 1           | 0 / 0           |
| Angina pectoris aggravated                      |                 |                 |                 |
| subjects affected / exposed                     | 1 / 445 (0.22%) | 0 / 435 (0.00%) | 0 / 435 (0.00%) |
| occurrences causally related to treatment / all | 0 / 1           | 0 / 0           | 0 / 0           |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           | 0 / 0           |
| Angina unstable                                 |                 |                 |                 |
| subjects affected / exposed                     | 2 / 445 (0.45%) | 0 / 435 (0.00%) | 2 / 435 (0.46%) |
| occurrences causally related to treatment / all | 0 / 2           | 0 / 0           | 0 / 2           |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           | 0 / 0           |
| Atrial fibrillation aggravated                  |                 |                 |                 |
| subjects affected / exposed                     | 1 / 445 (0.22%) | 0 / 435 (0.00%) | 0 / 435 (0.00%) |
| occurrences causally related to treatment / all | 0 / 1           | 0 / 0           | 0 / 0           |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           | 0 / 0           |
| Cardiac failure                                 |                 |                 |                 |
| subjects affected / exposed                     | 1 / 445 (0.22%) | 1 / 435 (0.23%) | 0 / 435 (0.00%) |
| occurrences causally related to treatment / all | 0 / 1           | 0 / 1           | 0 / 0           |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           | 0 / 0           |
| Coronary artery disease                         |                 |                 |                 |

|   |                 |                 |                 |
|---|-----------------|-----------------|-----------------|
| subjects affected / exposed                     | 2 / 445 (0.45%) | 0 / 435 (0.00%) | 0 / 435 (0.00%) |
| occurrences causally related to treatment / all | 0 / 2           | 0 / 0           | 0 / 0           |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           | 0 / 0           |
| Myocardial infarction                           |                 |                 |                 |
| subjects affected / exposed                     | 0 / 445 (0.00%) | 1 / 435 (0.23%) | 0 / 435 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0           | 0 / 1           | 0 / 0           |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           | 0 / 0           |
| Single vessel disease                           |                 |                 |                 |
| subjects affected / exposed                     | 1 / 445 (0.22%) | 0 / 435 (0.00%) | 0 / 435 (0.00%) |
| occurrences causally related to treatment / all | 0 / 1           | 0 / 0           | 0 / 0           |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           | 0 / 0           |
| Triple vessel disease                           |                 |                 |                 |
| subjects affected / exposed                     | 0 / 445 (0.00%) | 1 / 435 (0.23%) | 0 / 435 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0           | 0 / 1           | 0 / 0           |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           | 0 / 0           |
| Nervous system disorders                        |                 |                 |                 |
| Carotid artery stenosis                         |                 |                 |                 |
| subjects affected / exposed                     | 0 / 445 (0.00%) | 0 / 435 (0.00%) | 1 / 435 (0.23%) |
| occurrences causally related to treatment / all | 0 / 0           | 0 / 0           | 0 / 1           |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           | 0 / 0           |
| Cerebral infarction                             |                 |                 |                 |
| subjects affected / exposed                     | 1 / 445 (0.22%) | 0 / 435 (0.00%) | 0 / 435 (0.00%) |
| occurrences causally related to treatment / all | 0 / 1           | 0 / 0           | 0 / 0           |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           | 0 / 0           |
| Cerebrovascular accident                        |                 |                 |                 |
| subjects affected / exposed                     | 0 / 445 (0.00%) | 0 / 435 (0.00%) | 1 / 435 (0.23%) |
| occurrences causally related to treatment / all | 0 / 0           | 0 / 0           | 1 / 1           |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           | 0 / 0           |
| Epilepsy  |                 |                 |                 |
| subjects affected / exposed                     | 0 / 445 (0.00%) | 0 / 435 (0.00%) | 1 / 435 (0.23%) |
| occurrences causally related to treatment / all | 0 / 0           | 0 / 0           | 0 / 1           |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           | 0 / 0           |
| Multiple cerebral infarction                    |                 |                 |                 |

|   |                 |                 |                 |
|---|-----------------|-----------------|-----------------|
| subjects affected / exposed                     | 1 / 445 (0.22%) | 0 / 435 (0.00%) | 0 / 435 (0.00%) |
| occurrences causally related to treatment / all | 0 / 1           | 0 / 0           | 0 / 0           |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           | 0 / 0           |
| Stroke  |                 |                 |                 |
| subjects affected / exposed                     | 2 / 445 (0.45%) | 0 / 435 (0.00%) | 0 / 435 (0.00%) |
| occurrences causally related to treatment / all | 0 / 2           | 0 / 0           | 0 / 0           |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           | 0 / 0           |
| Transient ischaemic attack                      |                 |                 |                 |
| subjects affected / exposed                     | 1 / 445 (0.22%) | 0 / 435 (0.00%) | 1 / 435 (0.23%) |
| occurrences causally related to treatment / all | 0 / 1           | 0 / 0           | 0 / 1           |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           | 0 / 0           |
| Eye disorders                                   |                 |                 |                 |
| Cataract aggravated                             |                 |                 |                 |
| subjects affected / exposed                     | 0 / 445 (0.00%) | 0 / 435 (0.00%) | 1 / 435 (0.23%) |
| occurrences causally related to treatment / all | 0 / 0           | 0 / 0           | 0 / 1           |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           | 0 / 0           |
| Chorioretinal folds                             |                 |                 |                 |
| subjects affected / exposed                     | 0 / 445 (0.00%) | 0 / 435 (0.00%) | 1 / 435 (0.23%) |
| occurrences causally related to treatment / all | 0 / 0           | 0 / 0           | 0 / 1           |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           | 0 / 0           |
| Iridocyclitis                                   |                 |                 |                 |
| subjects affected / exposed                     | 0 / 445 (0.00%) | 0 / 435 (0.00%) | 1 / 435 (0.23%) |
| occurrences causally related to treatment / all | 0 / 0           | 0 / 0           | 0 / 1           |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           | 0 / 0           |
| Keratitis                                       |                 |                 |                 |
| subjects affected / exposed                     | 0 / 445 (0.00%) | 0 / 435 (0.00%) | 1 / 435 (0.23%) |
| occurrences causally related to treatment / all | 0 / 0           | 0 / 0           | 0 / 1           |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           | 0 / 0           |
| Retinal detachment                              |                 |                 |                 |
| subjects affected / exposed                     | 0 / 445 (0.00%) | 0 / 435 (0.00%) | 1 / 435 (0.23%) |
| occurrences causally related to treatment / all | 0 / 0           | 0 / 0           | 0 / 1           |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           | 0 / 0           |
| Senile cataract                                 |                 |                 |                 |

|   |                 |                 |                 |
|---|-----------------|-----------------|-----------------|
| subjects affected / exposed                     | 0 / 445 (0.00%) | 1 / 435 (0.23%) | 0 / 435 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0           | 0 / 1           | 0 / 0           |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           | 0 / 0           |
| Gastrointestinal disorders                      |                 |                 |                 |
| Abdominal pain                                  |                 |                 |                 |
| subjects affected / exposed                     | 0 / 445 (0.00%) | 0 / 435 (0.00%) | 1 / 435 (0.23%) |
| occurrences causally related to treatment / all | 0 / 0           | 0 / 0           | 0 / 1           |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           | 0 / 0           |
| Anal fistula                                    |                 |                 |                 |
| subjects affected / exposed                     | 1 / 445 (0.22%) | 0 / 435 (0.00%) | 0 / 435 (0.00%) |
| occurrences causally related to treatment / all | 0 / 1           | 0 / 0           | 0 / 0           |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           | 0 / 0           |
| Anal ulcer                                      |                 |                 |                 |
| subjects affected / exposed                     | 1 / 445 (0.22%) | 0 / 435 (0.00%) | 0 / 435 (0.00%) |
| occurrences causally related to treatment / all | 0 / 1           | 0 / 0           | 0 / 0           |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           | 0 / 0           |
| Gastritis                                       |                 |                 |                 |
| subjects affected / exposed                     | 1 / 445 (0.22%) | 0 / 435 (0.00%) | 0 / 435 (0.00%) |
| occurrences causally related to treatment / all | 0 / 1           | 0 / 0           | 0 / 0           |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           | 0 / 0           |
| Gastrointestinal bleeding                       |                 |                 |                 |
| subjects affected / exposed                     | 0 / 445 (0.00%) | 0 / 435 (0.00%) | 1 / 435 (0.23%) |
| occurrences causally related to treatment / all | 0 / 0           | 0 / 0           | 0 / 1           |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           | 0 / 0           |
| Pancreatitis acute                              |                 |                 |                 |
| subjects affected / exposed                     | 1 / 445 (0.22%) | 0 / 435 (0.00%) | 0 / 435 (0.00%) |
| occurrences causally related to treatment / all | 1 / 1           | 0 / 0           | 0 / 0           |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           | 0 / 0           |
| Umbilical hernia                                |                 |                 |                 |
| subjects affected / exposed                     | 1 / 445 (0.22%) | 0 / 435 (0.00%) | 0 / 435 (0.00%) |
| occurrences causally related to treatment / all | 0 / 1           | 0 / 0           | 0 / 0           |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           | 0 / 0           |
| Ventral hernia                                  |                 |                 |                 |

|   |                 |                 |                 |
|---|-----------------|-----------------|-----------------|
| subjects affected / exposed                     | 0 / 445 (0.00%) | 1 / 435 (0.23%) | 0 / 435 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0           | 0 / 1           | 0 / 0           |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           | 0 / 0           |
| <b>Hepatobiliary disorders</b>                  |                 |                 |                 |
| Cholecystitis acute                             |                 |                 |                 |
| subjects affected / exposed                     | 1 / 445 (0.22%) | 0 / 435 (0.00%) | 0 / 435 (0.00%) |
| occurrences causally related to treatment / all | 0 / 1           | 0 / 0           | 0 / 0           |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           | 0 / 0           |
| Cholelithiasis                                  |                 |                 |                 |
| subjects affected / exposed                     | 0 / 445 (0.00%) | 1 / 435 (0.23%) | 0 / 435 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0           | 0 / 1           | 0 / 0           |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           | 0 / 0           |
| Chronic calculous cholecystitis                 |                 |                 |                 |
| subjects affected / exposed                     | 0 / 445 (0.00%) | 2 / 435 (0.46%) | 0 / 435 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0           | 0 / 2           | 0 / 0           |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           | 0 / 0           |
| Jaundice extrahepatic obstructive               |                 |                 |                 |
| subjects affected / exposed                     | 0 / 445 (0.00%) | 1 / 435 (0.23%) | 0 / 435 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0           | 0 / 1           | 0 / 0           |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           | 0 / 0           |
| <b>Skin and subcutaneous tissue disorders</b>   |                 |                 |                 |
| Foot ulcer                                      |                 |                 |                 |
| subjects affected / exposed                     | 0 / 445 (0.00%) | 1 / 435 (0.23%) | 0 / 435 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0           | 0 / 1           | 0 / 0           |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           | 0 / 0           |
| <b>Renal and urinary disorders</b>              |                 |                 |                 |
| Chronic retention of urine                      |                 |                 |                 |
| subjects affected / exposed                     | 0 / 445 (0.00%) | 1 / 435 (0.23%) | 0 / 435 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0           | 0 / 1           | 0 / 0           |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           | 0 / 0           |
| Haematuria                                      |                 |                 |                 |
| subjects affected / exposed                     | 1 / 445 (0.22%) | 0 / 435 (0.00%) | 0 / 435 (0.00%) |
| occurrences causally related to treatment / all | 0 / 1           | 0 / 0           | 0 / 0           |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           | 0 / 0           |

|   |                 |                 |                 |
|---|-----------------|-----------------|-----------------|
| Hydronephrosis                                  |                 |                 |                 |
| subjects affected / exposed                     | 0 / 445 (0.00%) | 1 / 435 (0.23%) | 0 / 435 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0           | 0 / 1           | 0 / 0           |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           | 0 / 0           |
| Kidney stone                                    |                 |                 |                 |
| subjects affected / exposed                     | 1 / 445 (0.22%) | 0 / 435 (0.00%) | 0 / 435 (0.00%) |
| occurrences causally related to treatment / all | 0 / 1           | 0 / 0           | 0 / 0           |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           | 0 / 0           |
| Renal failure acute                             |                 |                 |                 |
| subjects affected / exposed                     | 0 / 445 (0.00%) | 1 / 435 (0.23%) | 0 / 435 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0           | 1 / 1           | 0 / 0           |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           | 0 / 0           |
| Urinary retention                               |                 |                 |                 |
| subjects affected / exposed                     | 1 / 445 (0.22%) | 0 / 435 (0.00%) | 0 / 435 (0.00%) |
| occurrences causally related to treatment / all | 0 / 1           | 0 / 0           | 0 / 0           |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           | 0 / 0           |
| Musculoskeletal and connective tissue disorders |                 |                 |                 |
| Calcifying tendinitis of shoulder               |                 |                 |                 |
| subjects affected / exposed                     | 0 / 445 (0.00%) | 0 / 435 (0.00%) | 1 / 435 (0.23%) |
| occurrences causally related to treatment / all | 0 / 0           | 0 / 0           | 0 / 1           |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           | 0 / 0           |
| Cervical spinal stenosis                        |                 |                 |                 |
| subjects affected / exposed                     | 0 / 445 (0.00%) | 1 / 435 (0.23%) | 0 / 435 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0           | 0 / 1           | 0 / 0           |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           | 0 / 0           |
| Osteoarthritis aggravated                       |                 |                 |                 |
| subjects affected / exposed                     | 1 / 445 (0.22%) | 0 / 435 (0.00%) | 0 / 435 (0.00%) |
| occurrences causally related to treatment / all | 0 / 1           | 0 / 0           | 0 / 0           |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           | 0 / 0           |
| Pain in thigh                                   |                 |                 |                 |
| subjects affected / exposed                     | 1 / 445 (0.22%) | 0 / 435 (0.00%) | 0 / 435 (0.00%) |
| occurrences causally related to treatment / all | 0 / 1           | 0 / 0           | 0 / 0           |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           | 0 / 0           |

|   |                 |                 |                 |
|---|-----------------|-----------------|-----------------|
| Rotator cuff syndrome                           |                 |                 |                 |
| subjects affected / exposed                     | 0 / 445 (0.00%) | 0 / 435 (0.00%) | 1 / 435 (0.23%) |
| occurrences causally related to treatment / all | 0 / 0           | 0 / 0           | 0 / 1           |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           | 0 / 0           |
| Spinal stenosis NOS                             |                 |                 |                 |
| subjects affected / exposed                     | 1 / 445 (0.22%) | 0 / 435 (0.00%) | 0 / 435 (0.00%) |
| occurrences causally related to treatment / all | 0 / 1           | 0 / 0           | 0 / 0           |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           | 0 / 0           |
| Vertebral pain                                  |                 |                 |                 |
| subjects affected / exposed                     | 0 / 445 (0.00%) | 1 / 435 (0.23%) | 0 / 435 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0           | 0 / 1           | 0 / 0           |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           | 0 / 0           |
| Infections and infestations                     |                 |                 |                 |
| Cervicitis                                      |                 |                 |                 |
| subjects affected / exposed                     | 0 / 445 (0.00%) | 1 / 435 (0.23%) | 0 / 435 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0           | 0 / 1           | 0 / 0           |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           | 0 / 0           |
| Diabetic gangrene                               |                 |                 |                 |
| subjects affected / exposed                     | 0 / 445 (0.00%) | 0 / 435 (0.00%) | 1 / 435 (0.23%) |
| occurrences causally related to treatment / all | 0 / 0           | 0 / 0           | 0 / 1           |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           | 0 / 0           |
| Gangrene toe                                    |                 |                 |                 |
| subjects affected / exposed                     | 1 / 445 (0.22%) | 0 / 435 (0.00%) | 0 / 435 (0.00%) |
| occurrences causally related to treatment / all | 0 / 1           | 0 / 0           | 0 / 0           |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           | 0 / 0           |
| Influenza A virus infection                     |                 |                 |                 |
| subjects affected / exposed                     | 1 / 445 (0.22%) | 0 / 435 (0.00%) | 0 / 435 (0.00%) |
| occurrences causally related to treatment / all | 0 / 1           | 0 / 0           | 0 / 0           |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           | 0 / 0           |
| Klebsiella sepsis                               |                 |                 |                 |
| subjects affected / exposed                     | 0 / 445 (0.00%) | 1 / 435 (0.23%) | 0 / 435 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0           | 0 / 1           | 0 / 0           |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           | 0 / 0           |
| Lobar pneumonia                                 |                 |                 |                 |



|   |                 |                 |                 |
|---|-----------------|-----------------|-----------------|
| subjects affected / exposed                     | 2 / 445 (0.45%) | 0 / 435 (0.00%) | 0 / 435 (0.00%) |
| occurrences causally related to treatment / all | 0 / 2           | 0 / 0           | 0 / 0           |
| deaths causally related to treatment / all      | 0 / 1           | 0 / 0           | 0 / 0           |
| Pelvic inflammatory disease                     |                 |                 |                 |
| subjects affected / exposed                     | 0 / 445 (0.00%) | 1 / 435 (0.23%) | 0 / 435 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0           | 0 / 1           | 0 / 0           |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           | 0 / 0           |
| Pneumonia                                       |                 |                 |                 |
| subjects affected / exposed                     | 1 / 445 (0.22%) | 1 / 435 (0.23%) | 1 / 435 (0.23%) |
| occurrences causally related to treatment / all | 0 / 1           | 0 / 1           | 0 / 1           |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           | 0 / 0           |
| Purulent appendicitis                           |                 |                 |                 |
| subjects affected / exposed                     | 0 / 445 (0.00%) | 1 / 435 (0.23%) | 0 / 435 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0           | 0 / 1           | 0 / 0           |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           | 0 / 0           |
| Recurrent urinary tract infection               |                 |                 |                 |
| subjects affected / exposed                     | 0 / 445 (0.00%) | 0 / 435 (0.00%) | 1 / 435 (0.23%) |
| occurrences causally related to treatment / all | 0 / 0           | 0 / 0           | 0 / 1           |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           | 0 / 0           |
| Sepsis  |                 |                 |                 |
| subjects affected / exposed                     | 1 / 445 (0.22%) | 0 / 435 (0.00%) | 0 / 435 (0.00%) |
| occurrences causally related to treatment / all | 0 / 1           | 0 / 0           | 0 / 0           |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           | 0 / 0           |
| Septic shock                                    |                 |                 |                 |
| subjects affected / exposed                     | 0 / 445 (0.00%) | 1 / 435 (0.23%) | 0 / 435 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0           | 0 / 1           | 0 / 0           |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 1           | 0 / 0           |
| Sigmoid diverticulitis                          |                 |                 |                 |
| subjects affected / exposed                     | 1 / 445 (0.22%) | 0 / 435 (0.00%) | 0 / 435 (0.00%) |
| occurrences causally related to treatment / all | 0 / 1           | 0 / 0           | 0 / 0           |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           | 0 / 0           |
| Urinary tract infection                         |                 |                 |                 |

|   |                 |                 |                 |
|---|-----------------|-----------------|-----------------|
| subjects affected / exposed                     | 1 / 445 (0.22%) | 1 / 435 (0.23%) | 0 / 435 (0.00%) |
| occurrences causally related to treatment / all | 0 / 1           | 0 / 1           | 0 / 0           |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           | 0 / 0           |
| Metabolism and nutrition disorders              |                 |                 |                 |
| Hypomagnesaemia                                 |                 |                 |                 |
| subjects affected / exposed                     | 0 / 445 (0.00%) | 0 / 435 (0.00%) | 1 / 435 (0.23%) |
| occurrences causally related to treatment / all | 0 / 0           | 0 / 0           | 0 / 1           |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           | 0 / 0           |

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

| <b>Non-serious adverse events</b>                     | Ertugliflozin 5 mg | Ertugliflozin 15 mg | Glimepiride        |
|---|--------------------|---------------------|--------------------|
| Total subjects affected by non-serious adverse events |                    |                     |                    |
| subjects affected / exposed                           | 110 / 445 (24.72%) | 104 / 435 (23.91%)  | 165 / 435 (37.93%) |
| Nervous system disorders                              |                    |                     |                    |
| Headache  |                    |                     |                    |
| subjects affected / exposed                           | 25 / 445 (5.62%)   | 19 / 435 (4.37%)    | 19 / 435 (4.37%)   |
| occurrences (all)                                     | 27                 | 22                  | 20                 |
| Gastrointestinal disorders                            |                    |                     |                    |
| Diarrhoea   |                    |                     |                    |
| subjects affected / exposed                           | 13 / 445 (2.92%)   | 12 / 435 (2.76%)    | 22 / 435 (5.06%)   |
| occurrences (all)                                     | 17                 | 12                  | 24                 |
| Infections and infestations                           |                    |                     |                    |
| Common cold   |                    |                     |                    |
| subjects affected / exposed                           | 21 / 445 (4.72%)   | 17 / 435 (3.91%)    | 23 / 435 (5.29%)   |
| occurrences (all)                                     | 31                 | 29                  | 31                 |
| Upper respiratory tract infection                     |                    |                     |                    |
| subjects affected / exposed                           | 27 / 445 (6.07%)   | 14 / 435 (3.22%)    | 18 / 435 (4.14%)   |
| occurrences (all)                                     | 39                 | 19                  | 27                 |
| Urinary tract infection                               |                    |                     |                    |
| subjects affected / exposed                           | 27 / 445 (6.07%)   | 28 / 435 (6.44%)    | 29 / 435 (6.67%)   |
| occurrences (all)                                     | 30                 | 33                  | 36                 |
| Metabolism and nutrition disorders                    |                    |                     |                    |
| Asymptomatic hypoglycaemia                            |                    |                     |                    |
| subjects affected / exposed                           | 7 / 445 (1.57%)    | 4 / 435 (0.92%)     | 27 / 435 (6.21%)   |
| occurrences (all)                                     | 11                 | 5                   | 87                 |
| Hypoglycaemia   |                    |                     |                    |

|                             |                  |                  |                   |
|-----------------------------|------------------|------------------|-------------------|
| subjects affected / exposed | 14 / 445 (3.15%) | 25 / 435 (5.75%) | 82 / 435 (18.85%) |
| occurrences (all)           | 31               | 53               | 470               |

## More information

### Substantial protocol amendments (globally)

Were there any global substantial amendments to the protocol? Yes

| Date        | Amendment  |
|-------------|--|
| 06 May 2015 | Amendment 1 - The source for glimepiride/matching placebo changed. The original glimepiride/matching placebo supplies were provided as tablets but were then switched to capsules. |

Notes:

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### Interruptions (globally)

Were there any global interruptions to the trial? No

### Limitations and caveats

None reported