

**Clinical trial results:****A Phase III, Randomized, Double-Blind, Multicenter Study to Evaluate the Efficacy and Safety of the Combination of Ertugliflozin (MK-8835/PF-04971729) with Sitagliptin Compared with Ertugliflozin Alone and Sitagliptin Alone, in the Treatment of Subjects with T2DM With Inadequate Glycemic Control on Metformin Monotherapy****Summary**

| | |
|--------------------------|-------------------------|
| EudraCT number | 2013-003698-82 |
| Trial protocol | HU CZ IT GB FI SK BG PL |
| Global end of trial date | 26 May 2016 |

Results information

| | |
|--------------------------------|-------------------|
| Result version number | v2 (current) |
| This version publication date | 07 September 2017 |
| First version publication date | 12 May 2017 |
| Version creation reason | |

Trial information**Trial identification**

| | |
|-----------------------|----------|
| Sponsor protocol code | 8835-005 |
|-----------------------|----------|

Additional study identifiers

| | |
|------------------------------------|--|
| ISRCTN number | - |
| ClinicalTrials.gov id (NCT number) | NCT02099110 |
| WHO universal trial number (UTN) | - |
| Other trial identifiers | MK-8835-005: Merck protocol number, B1521015: Pfizer protocol number, VERTIS FACTORIAL: Study Name |

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., ClinicalTrialsDisclosure@merck.com |
| Scientific contact | Clinical Trials Disclosure, Merck Sharp & Dohme Corp., 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 | 26 May 2016 |
| Is this the analysis of the primary completion data? | No |
| Global end of trial reached? | Yes |
| Global end of trial date | 26 May 2016 |
| Was the trial ended prematurely? | No |

Notes:

General information about the trial

Main objective of the trial:

This is a study of co-administration of ertugliflozin (MK-8835/PF-04971729) and sitagliptin given together or alone along with metformin in participants with type 2 diabetes mellitus (T2DM) and inadequate glycemic control on metformin monotherapy. The primary hypothesis of this study is that ertugliflozin 5 mg or 15 mg daily plus sitagliptin 100 mg daily provides greater hemoglobin A1C (A1C) - lowering compared with sitagliptin 100 mg daily alone.

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.

Participants who meet pre-specified glycemic criteria and who are rescued will receive oral tablets of open-label glimepiride or insulin glargine injected subcutaneously at dose strengths determined by the investigator.

Background therapy:

For participants requiring metformin dose adjustment, metformin will be titrated over a period of up-to 4 weeks before the required dose-stabilization period (≥ 8 weeks) begins. While receiving blinded investigational product during the double-blind treatment period, participants will also receive metformin ≥ 1500 mg/day, tablets, oral, for 52 weeks.

Evidence for comparator: -

| | |
|---|---------------|
| Actual start date of recruitment | 22 April 2014 |
| 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: 89 |
| Country: Number of subjects enrolled | Bulgaria: 41 |
| Country: Number of subjects enrolled | Canada: 38 |
| Country: Number of subjects enrolled | Chile: 40 |
| Country: Number of subjects enrolled | Colombia: 10 |
| Country: Number of subjects enrolled | Czech Republic: 35 |
| Country: Number of subjects enrolled | Finland: 7 |
| Country: Number of subjects enrolled | Hungary: 36 |
| Country: Number of subjects enrolled | Israel: 35 |

| | |
|--------------------------------------|------------------------|
| Country: Number of subjects enrolled | Italy: 2 |
| Country: Number of subjects enrolled | Malaysia: 27 |
| Country: Number of subjects enrolled | Mexico: 71 |
| Country: Number of subjects enrolled | New Zealand: 21 |
| Country: Number of subjects enrolled | Philippines: 45 |
| Country: Number of subjects enrolled | Poland: 87 |
| Country: Number of subjects enrolled | Romania: 84 |
| Country: Number of subjects enrolled | Russian Federation: 96 |
| Country: Number of subjects enrolled | Slovakia: 58 |
| Country: Number of subjects enrolled | Thailand: 9 |
| Country: Number of subjects enrolled | Ukraine: 64 |
| Country: Number of subjects enrolled | United States: 338 |
| Worldwide total number of subjects | 1233 |
| EEA total number of subjects | 350 |

Notes:

Subjects enrolled per age group

| | |
|---|------|
| In utero | 0 |
| Preterm newborn - gestational age < 37 wk | 0 |
| Newborns (0-27 days) | 0 |
| Infants and toddlers (28 days-23 months) | 0 |
| Children (2-11 years) | 0 |
| Adolescents (12-17 years) | 0 |
| Adults (18-64 years) | 1034 |
| From 65 to 84 years | 199 |
| 85 years and over | 0 |

Subject disposition

Recruitment

Recruitment details:

The trial was conducted in 21 countries and included 242 trial centers.

Pre-assignment

Screening details:

Male and female participants with T2DM of at least 18 years of age were enrolled in this trial.

Participants on ≥ 1500 mg/day of metformin for ≥ 8 weeks with A1C ≥ 7.5 and $\leq 11\%$ at screening could directly enter a 2-week, single-blind, placebo run-in period. Participants who did not meet these criteria received metformin titration for ~ 8 weeks.

Period 1

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

Arms

| | |
|------------------------------|--------------------|
| Are arms mutually exclusive? | Yes |
| Arm title | Ertugliflozin 5 mg |

Arm description:

Ertugliflozin 5 mg once daily, placebo to ertugliflozin once daily, placebo to sitagliptin once daily, and metformin ≥ 1500 mg/day, all for 52 weeks

| | |
|--|----------------------|
| Arm type | Experimental |
| Investigational medicinal product name | Ertugliflozin |
| Investigational medicinal product code | |
| Other name | MK-8835, PF-04971729 |
| Pharmaceutical forms | Tablet |
| Routes of administration | Oral use |

Dosage and administration details:

Ertugliflozin, 5 mg, once daily, orally for 52 weeks

| | |
|--|--------------------------|
| Investigational medicinal product name | Placebo to ertugliflozin |
| Investigational medicinal product code | |
| Other name | |
| Pharmaceutical forms | Tablet |
| Routes of administration | Oral use |

Dosage and administration details:

Placebo to ertugliflozin once daily for 52 weeks

| | |
|--|------------------------|
| Investigational medicinal product name | Placebo to sitagliptin |
| Investigational medicinal product code | |
| Other name | |
| Pharmaceutical forms | Tablet |
| Routes of administration | Oral use |

Dosage and administration details:

Placebo to sitagliptin once daily for 52 weeks

| | |
|--|--------------------------|
| Investigational medicinal product name | Metformin |
| Investigational medicinal product code | |
| Other name | Glucophage Glucophage XR |
| Pharmaceutical forms | Tablet |
| Routes of administration | Oral use |

Dosage and administration details:

For participants requiring metformin dose adjustment, metformin will be titrated over a period of up-to 4 weeks before the required dose-stabilization period (≥ 8 weeks) begins. While receiving blinded investigational product during the double-blind treatment period, participants will also receive metformin ≥ 1500 mg/day, tablets, oral, for 52 weeks.

| | |
|--|------------------------------------|
| Investigational medicinal product name | Insulin Glargine Rescue Medication |
| Investigational medicinal product code | |
| Other name | Lantus |
| Pharmaceutical forms | Solution for injection |
| Routes of administration | Subcutaneous use |

Dosage and administration details:

Open-label insulin glargine, subcutaneous injection, as required as a rescue medication; dose determined per the investigator's discretion

| | |
|--|-------------------------------|
| Investigational medicinal product name | Glimepiride Rescue Medication |
| Investigational medicinal product code | |
| Other name | AMARYL |
| Pharmaceutical forms | Tablet |
| Routes of administration | Oral use |

Dosage and administration details:

Open-label glimepiride tablets, oral, as required as a rescue medication, dose determined per the investigator's discretion

| | |
|------------------|---------------------|
| Arm title | Ertugliflozin 15 mg |
|------------------|---------------------|

Arm description:

Ertugliflozin 15 mg once daily, placebo to sitagliptin once daily, and metformin ≥ 1500 mg/day, all for 52 weeks

| | |
|--|----------------------|
| Arm type | Experimental |
| Investigational medicinal product name | Ertugliflozin |
| Investigational medicinal product code | |
| Other name | MK-8835, PF-04971729 |
| Pharmaceutical forms | Tablet |
| Routes of administration | Oral use |

Dosage and administration details:

Ertugliflozin 15 mg once daily, for 52 weeks

| | |
|--|------------------------|
| Investigational medicinal product name | Placebo to sitagliptin |
| Investigational medicinal product code | |
| Other name | |
| Pharmaceutical forms | Tablet |
| Routes of administration | Oral use |

Dosage and administration details:

Placebo to sitagliptin once daily for 52 weeks

| | |
|--|--------------------------|
| Investigational medicinal product name | Metformin |
| Investigational medicinal product code | |
| Other name | Glucophage Glucophage XR |
| Pharmaceutical forms | Tablet |
| Routes of administration | Oral use |

Dosage and administration details:

For participants requiring metformin dose adjustment, metformin will be titrated over a period of up-to 4 weeks before the required dose-stabilization period (≥ 8 weeks) begins. While receiving blinded investigational product during the double-blind treatment period, participants will also receive metformin ≥ 1500 mg/day, tablets, oral, for 52 weeks.

| | |
|--|------------------------------------|
| Investigational medicinal product name | Insulin Glargine Rescue Medication |
| Investigational medicinal product code | |
| Other name | Lantus |
| Pharmaceutical forms | Solution for injection |

| | |
|---|------------------------------------|
| Routes of administration | Subcutaneous use |
| Dosage and administration details: | |
| Open-label insulin glargine, subcutaneous injection, as required as a rescue medication; dose determined per the investigator's discretion | |
| Investigational medicinal product name | Glimepiride Rescue Medication |
| Investigational medicinal product code | |
| Other name | AMARYL |
| Pharmaceutical forms | Tablet |
| Routes of administration | Oral use |
| Dosage and administration details: | |
| Open-label glimepiride tablets, oral, as required as a rescue medication, dose determined per the investigator's discretion | |
| Arm title | Sitagliptin 100 mg |
| Arm description: | |
| Sitagliptin 100 mg once daily, placebo to ertugliflozin once daily, and metformin \geq 1500 mg/day, all for 52 weeks | |
| Arm type | Active comparator |
| Investigational medicinal product name | Sitagliptin |
| Investigational medicinal product code | |
| Other name | JANUVIA® |
| Pharmaceutical forms | Tablet |
| Routes of administration | Oral use |
| Dosage and administration details: | |
| Sitagliptin 100 mg once daily, for 52 weeks | |
| Investigational medicinal product name | Placebo to ertugliflozin |
| Investigational medicinal product code | |
| Other name | |
| Pharmaceutical forms | Tablet |
| Routes of administration | Oral use |
| Dosage and administration details: | |
| Placebo to ertugliflozin once daily for 52 weeks | |
| Investigational medicinal product name | Metformin |
| Investigational medicinal product code | |
| Other name | Glucophage Glucophage XR |
| Pharmaceutical forms | Tablet |
| Routes of administration | Oral use |
| Dosage and administration details: | |
| For participants requiring metformin dose adjustment, metformin will be titrated over a period of up-to 4 weeks before the required dose-stabilization period (\geq 8 weeks) begins. While receiving blinded investigational product during the double-blind treatment period, participants will also receive metformin \geq 1500 mg/day, tablets, oral, for 52 weeks. | |
| Investigational medicinal product name | Insulin Glargine Rescue Medication |
| Investigational medicinal product code | |
| Other name | Lantus |
| Pharmaceutical forms | Solution for injection |
| Routes of administration | Subcutaneous use |
| Dosage and administration details: | |
| Open-label insulin glargine, subcutaneous injection, as required as a rescue medication; dose determined per the investigator's discretion | |
| Investigational medicinal product name | Glimepiride Rescue Medication |
| Investigational medicinal product code | |
| Other name | AMARYL |
| Pharmaceutical forms | Tablet |
| Routes of administration | Oral use |

Dosage and administration details:

Open-label glimepiride tablets, oral, as required as a rescue medication, dose determined per the investigator's discretion

| | |
|------------------|---|
| Arm title | Ertugliflozin 5 mg + Sitagliptin 100 mg |
|------------------|---|

Arm description:

Ertugliflozin 5 mg once daily, sitagliptin 100 mg once daily, placebo to ertugliflozin once daily, and metformin \geq 1500 mg/day, all for 52 weeks

| | |
|--|----------------------|
| Arm type | Experimental |
| Investigational medicinal product name | Ertugliflozin |
| Investigational medicinal product code | |
| Other name | MK-8835, PF-04971729 |
| Pharmaceutical forms | Tablet |
| Routes of administration | Oral use |

Dosage and administration details:

Ertugliflozin 5 mg once daily for 52 weeks

| | |
|--|-------------|
| Investigational medicinal product name | Sitagliptin |
| Investigational medicinal product code | |
| Other name | JANUVIA® |
| Pharmaceutical forms | Tablet |
| Routes of administration | Oral use |

Dosage and administration details:

Sitagliptin 100 mg once daily, for 52 weeks

| | |
|--|--------------------------|
| Investigational medicinal product name | Placebo to ertugliflozin |
| Investigational medicinal product code | |
| Other name | |
| Pharmaceutical forms | Tablet |
| Routes of administration | Oral use |

Dosage and administration details:

Placebo to ertugliflozin once daily for 52 weeks

| | |
|--|--------------------------|
| Investigational medicinal product name | Metformin |
| Investigational medicinal product code | |
| Other name | Glucophage Glucophage XR |
| Pharmaceutical forms | Tablet |
| Routes of administration | Oral use |

Dosage and administration details:

For participants requiring metformin dose adjustment, metformin will be titrated over a period of up-to 4 weeks before the required dose-stabilization period (\geq 8 weeks) begins. While receiving blinded investigational product during the double-blind treatment period, participants will also receive metformin \geq 1500 mg/day, tablets, oral, for 52 weeks.

| | |
|--|------------------------------------|
| Investigational medicinal product name | Insulin Glargine Rescue Medication |
| Investigational medicinal product code | |
| Other name | Lantus |
| Pharmaceutical forms | Solution for injection |
| Routes of administration | Subcutaneous use |

Dosage and administration details:

Open-label insulin glargine, subcutaneous injection, as required as a rescue medication; dose determined per the investigator's discretion

| | |
|--|-------------------------------|
| Investigational medicinal product name | Glimepiride Rescue Medication |
| Investigational medicinal product code | |
| Other name | AMARYL |
| Pharmaceutical forms | Tablet |

| | |
|--------------------------|----------|
| Routes of administration | Oral use |
|--------------------------|----------|

Dosage and administration details:

Open-label glimepiride tablets, oral, as required as a rescue medication, dose determined per the investigator's discretion

| | |
|------------------|--|
| Arm title | Ertugliflozin 15 mg + Sitagliptin 100 mg |
|------------------|--|

Arm description:

Ertugliflozin 15 mg once daily, sitagliptin 100 mg once daily, and metformin \geq 1500 mg/day, all for 52 weeks

| | |
|--|----------------------|
| Arm type | Experimental |
| Investigational medicinal product name | Ertugliflozin |
| Investigational medicinal product code | |
| Other name | MK-8835, PF-04971729 |
| Pharmaceutical forms | Tablet |
| Routes of administration | Oral use |

Dosage and administration details:

Ertugliflozin 15 mg once daily, for 52 weeks

| | |
|--|-------------|
| Investigational medicinal product name | Sitagliptin |
| Investigational medicinal product code | |
| Other name | JANUVIA® |
| Pharmaceutical forms | Tablet |
| Routes of administration | Oral use |

Dosage and administration details:

Sitagliptin 100 mg once daily, for 52 weeks

| | |
|--|--------------------------|
| Investigational medicinal product name | Metformin |
| Investigational medicinal product code | |
| Other name | Glucophage Glucophage XR |
| Pharmaceutical forms | Tablet |
| Routes of administration | Oral use |

Dosage and administration details:

For participants requiring metformin dose adjustment, metformin will be titrated over a period of up-to 4 weeks before the required dose-stabilization period (\geq 8 weeks) begins. While receiving blinded investigational product during the double-blind treatment period, participants will also receive metformin \geq 1500 mg/day, tablets, oral, for 52 weeks.

| | |
|--|------------------------------------|
| Investigational medicinal product name | Insulin Glargine Rescue Medication |
| Investigational medicinal product code | |
| Other name | Lantus |
| Pharmaceutical forms | Solution for injection |
| Routes of administration | Subcutaneous use |

Dosage and administration details:

Open-label insulin glargine, subcutaneous injection, as required as a rescue medication; dose determined per the investigator's discretion

| | |
|--|-------------------------------|
| Investigational medicinal product name | Glimepiride Rescue Medication |
| Investigational medicinal product code | |
| Other name | AMARYL |
| Pharmaceutical forms | Tablet |
| Routes of administration | Oral use |

Dosage and administration details:

Open-label glimepiride tablets, oral, as required as a rescue medication, dose determined per the investigator's discretion

| Number of subjects in period 1 | Ertugliflozin 5 mg | Ertugliflozin 15 mg | Sitagliptin 100 mg |
|---------------------------------------|--------------------|---------------------|--------------------|
| Started | 250 | 248 | 247 |
| Treated | 250 | 248 | 247 |
| Completed | 226 | 217 | 219 |
| Not completed | 24 | 31 | 28 |
| Consent withdrawn by subject | 7 | 11 | 13 |
| Physician decision | 3 | - | 1 |
| Screen Failure | - | - | - |
| Non-Compliance with Study Drug | 2 | - | - |
| Adverse event, non-fatal | 3 | 5 | 2 |
| Death | - | 1 | - |
| Participant Moved | 1 | 1 | 1 |
| Lost to follow-up | 6 | 12 | 11 |
| Protocol deviation | 2 | 1 | - |

| Number of subjects in period 1 | Ertugliflozin 5 mg + Sitagliptin 100 mg | Ertugliflozin 15 mg + Sitagliptin 100 mg |
|---------------------------------------|---|--|
| Started | 243 | 245 |
| Treated | 243 | 244 |
| Completed | 221 | 218 |
| Not completed | 22 | 27 |
| Consent withdrawn by subject | 9 | 13 |
| Physician decision | 2 | 1 |
| Screen Failure | - | 1 |
| Non-Compliance with Study Drug | - | 1 |
| Adverse event, non-fatal | 3 | 2 |
| Death | - | - |
| Participant Moved | - | 2 |
| Lost to follow-up | 5 | 6 |
| Protocol deviation | 3 | 1 |

Baseline characteristics

Reporting groups

| | |
|---|--|
| Reporting group title | Ertugliflozin 5 mg |
| Reporting group description: Ertugliflozin 5 mg once daily, placebo to ertugliflozin once daily, placebo to sitagliptin once daily, and metformin \geq 1500 mg/day, all for 52 weeks | |
| Reporting group title | Ertugliflozin 15 mg |
| Reporting group description: Ertugliflozin 15 mg once daily, placebo to sitagliptin once daily, and metformin \geq 1500 mg/day, all for 52 weeks | |
| Reporting group title | Sitagliptin 100 mg |
| Reporting group description: Sitagliptin 100 mg once daily, placebo to ertugliflozin once daily, and metformin \geq 1500 mg/day, all for 52 weeks | |
| Reporting group title | Ertugliflozin 5 mg + Sitagliptin 100 mg |
| Reporting group description: Ertugliflozin 5 mg once daily, sitagliptin 100 mg once daily, placebo to ertugliflozin once daily, and metformin \geq 1500 mg/day, all for 52 weeks | |
| Reporting group title | Ertugliflozin 15 mg + Sitagliptin 100 mg |
| Reporting group description: Ertugliflozin 15 mg once daily, sitagliptin 100 mg once daily, and metformin \geq 1500 mg/day, all for 52 weeks | |

| Reporting group values | Ertugliflozin 5 mg | Ertugliflozin 15 mg | Sitagliptin 100 mg |
|---|--------------------|---------------------|--------------------|
| Number of subjects | 250 | 248 | 247 |
| Age Categorical Units: Subjects | | | |
| In utero | 0 | 0 | 0 |
| Preterm newborn infants (gestational age < 37 wks) | 0 | 0 | 0 |
| Newborns (0-27 days) | 0 | 0 | 0 |
| Infants and toddlers (28 days-23 months) | 0 | 0 | 0 |
| Children (2-11 years) | 0 | 0 | 0 |
| Adolescents (12-17 years) | 0 | 0 | 0 |
| Adults (18-64 years) | 214 | 205 | 205 |
| From 65-84 years | 35 | 43 | 42 |
| 85 years and over | 1 | 0 | 0 |
| Age Continuous Units: years | | | |
| arithmetic mean | 55.1 | 55.3 | 54.8 |
| standard deviation | \pm 10.1 | \pm 9.5 | \pm 10.7 |
| Gender Categorical Units: Subjects | | | |
| Female | 123 | 114 | 93 |
| Male | 127 | 134 | 154 |
| Baseline Hemoglobin A1C % | | | |
| A1C is blood marker used to report average blood glucose levels over prolonged periods of time and is reported as a percentage (%). n=244, 247, 242, 237, 241 | | | |
| Units: Percent glycated hemoglobin | | | |

| | | | |
|--|--------|--------|--------|
| arithmetic mean | 8.6 | 8.6 | 8.5 |
| standard deviation | ± 1 | ± 1 | ± 1 |
| Baseline Fasting Plasma Glucose (FPG) | | | |
| Blood glucose was measured on a fasting basis after at least a 10-hour fast. n=250, 247, 246, 240, 241 | | | |
| Units: mg/dL | | | |
| arithmetic mean | 184.1 | 179.5 | 177.4 |
| standard deviation | ± 52.2 | ± 45.6 | ± 46.6 |
| Baseline Body Weight | | | |
| Units: Kilograms | | | |
| arithmetic mean | 88.6 | 88 | 89.8 |
| standard deviation | ± 22.2 | ± 20.3 | ± 23.4 |
| Baseline Beta-Cell Responsivity Static Component | | | |
| Beta-Cell Responsivity Static Component is a parameter used in assessing Beta-cell function. A frequently sampled 8-point MMTT was performed. Blood samples were collected before and after a standard meal and urine samples during the MMTT to measure urinary glucose excretion. Glucose, insulin, and C-peptide were analyzed in the blood samples. Analysis included both non-model-based [including insulinogenic index with C-peptide, glucose area under the curve (AUC)/insulin AUC] and model-based [beta cell function and insulin secretion rate at 9 mM glucose] testing. n= 58, 58, 55, 48, 50 | | | |
| Units: 10 ⁻⁹ min ⁻¹ | | | |
| arithmetic mean | 20.9 | 18 | 20.2 |
| standard deviation | ± 26.1 | ± 16.3 | ± 21.2 |
| Baseline Sitting Systolic Blood Pressure | | | |
| Units: mm Hg | | | |
| arithmetic mean | 129.7 | 128.9 | 128.3 |
| standard deviation | ± 12.5 | ± 12.5 | ± 12.2 |
| Baseline Estimated Glomerular Filtration Rate, eGFR | | | |
| eGFR is a parameter used to assess kidney function. n =250, 248, 247, 242, 244 | | | |
| Units: mL/min/1.73m ² | | | |
| arithmetic mean | 91.9 | 92.8 | 92.6 |
| standard deviation | ± 20.6 | ± 21.4 | ± 18.2 |

| Reporting group values | Ertugliflozin 5 mg + Sitagliptin 100 mg | Ertugliflozin 15 mg + Sitagliptin 100 mg | Total |
|--|---|--|-------|
| Number of subjects | 243 | 245 | 1233 |
| Age Categorical | | | |
| Units: Subjects | | | |
| In utero | 0 | 0 | 0 |
| Preterm newborn infants (gestational age < 37 wks) | 0 | 0 | 0 |
| Newborns (0-27 days) | 0 | 0 | 0 |
| Infants and toddlers (28 days-23 months) | 0 | 0 | 0 |
| Children (2-11 years) | 0 | 0 | 0 |
| Adolescents (12-17 years) | 0 | 0 | 0 |
| Adults (18-64 years) | 199 | 211 | 1034 |
| From 65-84 years | 44 | 34 | 198 |
| 85 years and over | 0 | 0 | 1 |
| Age Continuous | | | |
| Units: years | | | |
| arithmetic mean | 55.2 | 55.1 | - |
| standard deviation | ± 10.4 | ± 9.8 | - |

| | | | |
|--|--------|--------|-----|
| Gender Categorical Units: Subjects | | | |
| Female | 120 | 118 | 568 |
| Male | 123 | 127 | 665 |
| Baseline Hemoglobin A1C % | | | |
| A1C is blood marker used to report average blood glucose levels over prolonged periods of time and is reported as a percentage (%). n=244, 247, 242, 237, 241 | | | |
| Units: Percent glycated hemoglobin | | | |
| arithmetic mean | 8.6 | 8.6 | |
| standard deviation | ± 1 | ± 1 | - |
| Baseline Fasting Plasma Glucose (FPG) | | | |
| Blood glucose was measured on a fasting basis after at least a 10-hour fast. n=250, 247, 246, 240, 241 | | | |
| Units: mg/dL | | | |
| arithmetic mean | 183.8 | 177.2 | |
| standard deviation | ± 44.3 | ± 49.4 | - |
| Baseline Body Weight | | | |
| Units: Kilograms | | | |
| arithmetic mean | 89.5 | 87.5 | |
| standard deviation | ± 20.8 | ± 20.5 | - |
| Baseline Beta-Cell Responsivity Static Component | | | |
| Beta-Cell Responsivity Static Component is a parameter used in assessing Beta-cell function. A frequently sampled 8-point MMTT was performed. Blood samples were collected before and after a standard meal and urine samples during the MMTT to measure urinary glucose excretion. Glucose, insulin, and C-peptide were analyzed in the blood samples. Analysis included both non-model-based [including insulinogenic index with C-peptide, glucose area under the curve (AUC)/insulin AUC] and model-based [beta cell function and insulin secretion rate at 9 mM glucose] testing. n= 58, 58, 55, 48, 50 | | | |
| Units: 10 ⁻⁹ min ⁻¹ | | | |
| arithmetic mean | 20 | 19.3 | |
| standard deviation | ± 16.6 | ± 21 | - |
| Baseline Sitting Systolic Blood Pressure | | | |
| Units: mm Hg | | | |
| arithmetic mean | 130.2 | 129.1 | |
| standard deviation | ± 12.6 | ± 13.3 | - |
| Baseline Estimated Glomerular Filtration Rate, eGFR | | | |
| eGFR is a parameter used to assess kidney function. n =250, 248, 247, 242, 244 | | | |
| Units: mL/min/1.73m ² | | | |
| arithmetic mean | 91.9 | 92.6 | |
| standard deviation | ± 20.4 | ± 19.2 | - |

End points

End points reporting groups

| | |
|--|--|
| Reporting group title | Ertugliflozin 5 mg |
| Reporting group description: Ertugliflozin 5 mg once daily, placebo to ertugliflozin once daily, placebo to sitagliptin once daily, and metformin \geq 1500 mg/day, all for 52 weeks | |
| Reporting group title | Ertugliflozin 15 mg |
| Reporting group description: Ertugliflozin 15 mg once daily, placebo to sitagliptin once daily, and metformin \geq 1500 mg/day, all for 52 weeks | |
| Reporting group title | Sitagliptin 100 mg |
| Reporting group description: Sitagliptin 100 mg once daily, placebo to ertugliflozin once daily, and metformin \geq 1500 mg/day, all for 52 weeks | |
| Reporting group title | Ertugliflozin 5 mg + Sitagliptin 100 mg |
| Reporting group description: Ertugliflozin 5 mg once daily, sitagliptin 100 mg once daily, placebo to ertugliflozin once daily, and metformin \geq 1500 mg/day, all for 52 weeks | |
| Reporting group title | Ertugliflozin 15 mg + Sitagliptin 100 mg |
| Reporting group description: Ertugliflozin 15 mg once daily, sitagliptin 100 mg once daily, and metformin \geq 1500 mg/day, all for 52 weeks | |
| Subject analysis set title | Ertugliflozin 5 mg |
| Subject analysis set type | Full analysis |
| Subject analysis set description: Ertugliflozin 5 mg once daily, placebo to ertugliflozin once daily, placebo to sitagliptin once daily, and metformin \geq 1500 mg/day, all for 52 weeks | |
| Subject analysis set title | Ertugliflozin 15 mg |
| Subject analysis set type | Full analysis |
| Subject analysis set description: Ertugliflozin 15 mg once daily, placebo to sitagliptin once daily, and metformin \geq 1500 mg/day, all for 52 weeks | |
| Subject analysis set title | Sitagliptin 100 mg |
| Subject analysis set type | Full analysis |
| Subject analysis set description: Sitagliptin 100 mg once daily, placebo to ertugliflozin once daily, and metformin \geq 1500 mg/day, all for 52 weeks | |
| Subject analysis set title | Ertugliflozin 5 mg + Sitagliptin 100 mg |
| Subject analysis set type | Full analysis |
| Subject analysis set description: Ertugliflozin 5 mg once daily, sitagliptin 100 mg once daily, placebo to ertugliflozin once daily, and metformin \geq 1500 mg/day, all for 52 weeks | |
| Subject analysis set title | Ertugliflozin 15 mg + Sitagliptin 100 mg |
| Subject analysis set type | Full analysis |
| Subject analysis set description: Ertugliflozin 15 mg once daily, sitagliptin 100 mg once daily, and metformin \geq 1500 mg/day, all for 52 weeks | |

Primary: Change from Baseline in Hemoglobin A1C (A1C) at Week 26 Excluding Data After Initiation of Rescue Therapy

| | |
|-----------------|---|
| End point title | Change from Baseline in Hemoglobin A1C (A1C) at Week 26 Excluding Data After Initiation of Rescue Therapy |
|-----------------|---|

End point description:

Hemoglobin A1C is blood marker used to report average blood glucose levels over prolonged periods of time and is reported as a percentage (% glycated hemoglobin). This change from baseline reflects the Week 26 A1C minus the Week 0 A1C. Excluding rescue approach data analysis excluded all data following the initiation of rescue therapy at any time point, in order to avoid the confounding influence of the rescue therapy. The analysis population consisted of all randomized participants who received at least one dose of study treatment, had a baseline measurement or a post-randomization measurement for the A1C change from baseline at Week 26 analysis endpoint subsequent to at least one dose of study treatment.

| | |
|----------------------|---------|
| End point type | Primary |
| End point timeframe: | |
| Baseline and Week 26 | |

| End point values | Ertugliflozin 5 mg | Ertugliflozin 15 mg | Sitagliptin 100 mg | Ertugliflozin 5 mg + Sitagliptin 100 mg |
|--|-----------------------|-----------------------|------------------------|---|
| Subject group type | Subject analysis set | Subject analysis set | Subject analysis set | Subject analysis set |
| Number of subjects analysed | 250 | 248 | 247 | 243 |
| Units: Percent glycated hemoglobin | | | | |
| least squares mean (confidence interval 95%) | -1.02 (-1.14 to -0.9) | -1.08 (-1.2 to -0.96) | -1.05 (-1.17 to -0.93) | -1.49 (-1.61 to -1.36) |

| End point values | Ertugliflozin 15 mg + Sitagliptin 100 mg | | | |
|--|--|--|--|--|
| Subject group type | Subject analysis set | | | |
| Number of subjects analysed | 244 | | | |
| Units: Percent glycated hemoglobin | | | | |
| least squares mean (confidence interval 95%) | -1.52 (-1.64 to -1.4) | | | |

Statistical analyses

| | |
|--|--|
| Statistical analysis title | Difference in the Least Squares Means |
| Statistical analysis description: | |
| Based on Constrained Longitudinal Data Analysis (cLDA) model with fixed effects for treatment, time, baseline eGFR (continuous), and the interaction of time by treatment. Time was treated as a categorical variable. | |
| Comparison groups | Ertugliflozin 5 mg v Ertugliflozin 5 mg + Sitagliptin 100 mg |
| Number of subjects included in analysis | 493 |
| Analysis specification | Pre-specified |
| Analysis type | other |
| P-value | < 0.001 |
| Method | Constrained Longitudinal Data Analysis |
| Parameter estimate | Difference in the Least Squares Means |
| Point estimate | -0.46 |

| | |
|---------------------|---------|
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | -0.63 |
| upper limit | -0.3 |

| | |
|-----------------------------------|---------------------------------------|
| Statistical analysis title | Difference in the Least Squares Means |
|-----------------------------------|---------------------------------------|

Statistical analysis description:

Based on cLDA model with fixed effects for treatment, time, baseline eGFR (continuous), and the interaction of time by treatment. Time was treated as a categorical variable.

| | |
|---|--|
| Comparison groups | Sitagliptin 100 mg v Ertugliflozin 5 mg + Sitagliptin 100 mg |
| Number of subjects included in analysis | 490 |
| Analysis specification | Pre-specified |
| Analysis type | other |
| P-value | < 0.001 |
| Method | Constrained Longitudinal Data Analysis |
| Parameter estimate | Difference in the Least Squares Means |
| Point estimate | -0.43 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | -0.6 |
| upper limit | -0.27 |

| | |
|-----------------------------------|---------------------------------------|
| Statistical analysis title | Difference in the Least Squares Means |
|-----------------------------------|---------------------------------------|

Statistical analysis description:

Based on cLDA model with fixed effects for treatment, time, baseline eGFR (continuous), and the interaction of time by treatment. Time was treated as a categorical variable.

| | |
|---|--|
| Comparison groups | Ertugliflozin 15 mg v Ertugliflozin 15 mg + Sitagliptin 100 mg |
| Number of subjects included in analysis | 492 |
| Analysis specification | Pre-specified |
| Analysis type | other |
| P-value | < 0.001 |
| Method | Constrained Longitudinal Data Analysis |
| Parameter estimate | Difference in the Least Squares Means |
| Point estimate | -0.44 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | -0.61 |
| upper limit | -0.27 |

| | |
|-----------------------------------|---------------------------------------|
| Statistical analysis title | Difference in the Least Squares Means |
|-----------------------------------|---------------------------------------|

Statistical analysis description:

Based on cLDA model with fixed effects for treatment, time, baseline eGFR (continuous), and the interaction of time by treatment. Time was treated as a categorical variable.

| | |
|---|---|
| Comparison groups | Sitagliptin 100 mg v Ertugliflozin 15 mg + Sitagliptin 100 mg |
| Number of subjects included in analysis | 491 |
| Analysis specification | Pre-specified |
| Analysis type | other |
| P-value | < 0.001 |
| Method | Constrained Longitudinal Data Analysis |
| Parameter estimate | Difference in the Least Squares Means |
| Point estimate | -0.47 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | -0.63 |
| upper limit | -0.3 |

Primary: Percentage of Participants Who Experienced an Adverse Event (AE)

| | |
|-----------------|--|
| End point title | Percentage of Participants Who Experienced an Adverse Event (AE) |
|-----------------|--|

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 population analyzed included all randomized, treated participants.

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

End point timeframe:

Up to 54 weeks

| End point values | Ertugliflozin 5 mg | Ertugliflozin 15 mg | Sitagliptin 100 mg | Ertugliflozin 5 mg + Sitagliptin 100 mg |
|-----------------------------------|----------------------|----------------------|----------------------|---|
| Subject group type | Subject analysis set | Subject analysis set | Subject analysis set | Subject analysis set |
| Number of subjects analysed | 250 | 248 | 247 | 243 |
| Units: Percentage of Participants | | | | |
| number (not applicable) | 62 | 57.7 | 57.5 | 58.8 |

| End point values | Ertugliflozin 15 mg + Sitagliptin 100 mg | | | |
|-----------------------------------|--|--|--|--|
| Subject group type | Subject analysis set | | | |
| Number of subjects analysed | 244 | | | |
| Units: Percentage of Participants | | | | |
| number (not applicable) | 55.7 | | | |

Statistical analyses

| | |
|--|--|
| Statistical analysis title | Difference in % of Participants |
| Statistical analysis description: Difference in % of Participants | |
| Comparison groups | Ertugliflozin 5 mg v Ertugliflozin 5 mg + Sitagliptin 100 mg |
| Number of subjects included in analysis | 493 |
| Analysis specification | Pre-specified |
| Analysis type | other |
| Method | Miettinen & Nurminen |
| Parameter estimate | Difference in % vs Ertugliflozin 5 mg |
| Point estimate | -3.2 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | -11.7 |
| upper limit | 5.5 |

| | |
|---|--|
| Statistical analysis title | Difference in % vs Ertugliflozin 15 mg |
| Statistical analysis description: Difference in % vs Ertugliflozin 15 mg | |
| Comparison groups | Ertugliflozin 15 mg v Ertugliflozin 15 mg + Sitagliptin 100 mg |
| Number of subjects included in analysis | 492 |
| Analysis specification | Pre-specified |
| Analysis type | other |
| Method | Miettinen & Nurminen |
| Parameter estimate | Difference in % vs Ertugliflozin 5 mg |
| Point estimate | -1.9 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | -10.6 |
| upper limit | 6.8 |

| | |
|--|--|
| Statistical analysis title | Difference in % vs Sitagliptin 100 mg |
| Statistical analysis description: Difference in % vs Sitagliptin 100 mg | |
| Comparison groups | Sitagliptin 100 mg v Ertugliflozin 5 mg + Sitagliptin 100 mg |

| | |
|---|---------------------------------------|
| Number of subjects included in analysis | 490 |
| Analysis specification | Pre-specified |
| Analysis type | other |
| Method | Miettinen & Nurminen |
| Parameter estimate | Difference in % vs Sitagliptin 100 mg |
| Point estimate | 1.4 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | -7.4 |
| upper limit | 10.1 |

| | |
|--|---|
| Statistical analysis title | Difference in % vs Sitagliptin 100 mg |
| Statistical analysis description: Difference in % vs Sitagliptin 100 mg | |
| Comparison groups | Sitagliptin 100 mg v Ertugliflozin 15 mg + Sitagliptin 100 mg |
| Number of subjects included in analysis | 491 |
| Analysis specification | Pre-specified |
| Analysis type | other |
| Method | Miettinen & Nurminen |
| Parameter estimate | Difference in % vs Sitagliptin 100 mg |
| Point estimate | -1.8 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | -10.5 |
| upper limit | 7 |

Primary: Percentage of Participants Who Discontinued Study Medication due to an AE

| | |
|--|---|
| End point title | Percentage of Participants Who Discontinued Study Medication due to an AE |
| 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 population analyzed included all randomized, treated participants. | |
| End point type | Primary |
| End point timeframe: Up to 52 weeks | |

| End point values | Ertugliflozin 5 mg | Ertugliflozin 15 mg | Sitagliptin 100 mg | Ertugliflozin 5 mg + Sitagliptin 100 mg |
|-----------------------------------|----------------------|----------------------|----------------------|---|
| Subject group type | Subject analysis set | Subject analysis set | Subject analysis set | Subject analysis set |
| Number of subjects analysed | 250 | 248 | 247 | 243 |
| Units: Percentage of Participants | | | | |
| number (not applicable) | 3.2 | 3.2 | 2.8 | 3.3 |

| End point values | Ertugliflozin 15 mg + Sitagliptin 100 mg | | | |
|-----------------------------------|--|--|--|--|
| Subject group type | Subject analysis set | | | |
| Number of subjects analysed | 244 | | | |
| Units: Percentage of Participants | | | | |
| number (not applicable) | 3.7 | | | |

Statistical analyses

| Statistical analysis title | Difference in % of Participants |
|--|--|
| Statistical analysis description: Difference in % of Participants | |
| Comparison groups | Ertugliflozin 5 mg v Ertugliflozin 5 mg + Sitagliptin 100 mg |
| Number of subjects included in analysis | 493 |
| Analysis specification | Pre-specified |
| Analysis type | other |
| Parameter estimate | Difference in % vs Ertugliflozin 5 mg |
| Point estimate | 0.1 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | -3.3 |
| upper limit | 3.6 |

| Statistical analysis title | Difference in % of Participants |
|--|--|
| Statistical analysis description: Difference in % of Participants | |
| Comparison groups | Ertugliflozin 15 mg v Ertugliflozin 15 mg + Sitagliptin 100 mg |
| Number of subjects included in analysis | 492 |
| Analysis specification | Pre-specified |
| Analysis type | other |
| Parameter estimate | Difference in % vs Ertugliflozin 15 mg |
| Point estimate | 0.5 |

| | |
|---------------------|---------|
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | -3 |
| upper limit | 4 |

| | |
|--|--|
| Statistical analysis title | Difference in % of Participants |
| Statistical analysis description: Difference in % of Participants | |
| Comparison groups | Sitagliptin 100 mg v Ertugliflozin 5 mg + Sitagliptin 100 mg |
| Number of subjects included in analysis | 490 |
| Analysis specification | Pre-specified |
| Analysis type | other |
| Parameter estimate | Difference in % vs Sitagliptin 100 mg |
| Point estimate | 0.5 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | -2.9 |
| upper limit | 3.9 |

| | |
|--|---|
| Statistical analysis title | Difference in % of Participants |
| Statistical analysis description: Difference in % of Participants | |
| Comparison groups | Sitagliptin 100 mg v Ertugliflozin 15 mg + Sitagliptin 100 mg |
| Number of subjects included in analysis | 491 |
| Analysis specification | Pre-specified |
| Analysis type | other |
| Parameter estimate | Difference in % vs Sitagliptin 100 mg |
| Point estimate | 0.9 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | -2.5 |
| upper limit | 4.4 |

Secondary: Change from Baseline in Body Weight at Week 26 Excluding Data After Initiation of Rescue Therapy

| | |
|-----------------|--|
| End point title | Change from Baseline in Body Weight at Week 26 Excluding Data After Initiation of Rescue Therapy |
|-----------------|--|

End point description:

The change in body weight from baseline reflects the Week 26 body weight minus the Week 0 body weight. Excluding rescue approach data analysis excluded all data following the initiation of rescue therapy at any time point, in order to avoid the confounding influence of the rescue therapy. The analysis population consisted of all randomized participants who received at least one dose of study

treatment, had a baseline measurement or a post-randomization measurement for the body weight change from baseline at Week 26 analysis endpoint subsequent to at least one dose of study treatment.

| | |
|----------------------|-----------|
| End point type | Secondary |
| End point timeframe: | |
| Baseline and Week 26 | |

| End point values | Ertugliflozin 5 mg | Ertugliflozin 15 mg | Sitagliptin 100 mg | Ertugliflozin 5 mg + Sitagliptin 100 mg |
|--|------------------------|------------------------|------------------------|---|
| Subject group type | Subject analysis set | Subject analysis set | Subject analysis set | Subject analysis set |
| Number of subjects analysed | 250 | 248 | 247 | 243 |
| Units: kilograms | | | | |
| least squares mean (confidence interval 95%) | -2.69 (-3.13 to -2.25) | -3.74 (-4.18 to -3.29) | -0.67 (-1.12 to -0.22) | -2.52 (-2.97 to -2.07) |

| End point values | Ertugliflozin 15 mg + Sitagliptin 100 mg | | | |
|--|--|--|--|--|
| Subject group type | Subject analysis set | | | |
| Number of subjects analysed | 244 | | | |
| Units: kilograms | | | | |
| least squares mean (confidence interval 95%) | -2.94 (-3.39 to -2.49) | | | |

Statistical analyses

| | |
|---|---|
| Statistical analysis title | Difference in the Least Squares Means |
| Statistical analysis description: | |
| | Based on cLDA model with fixed effects for treatment, time, baseline eGFR (continuous), and the interaction of time by treatment. Time was treated as a categorical variable. |
| Comparison groups | Sitagliptin 100 mg v Ertugliflozin 5 mg + Sitagliptin 100 mg |
| Number of subjects included in analysis | 490 |
| Analysis specification | Pre-specified |
| Analysis type | other |
| P-value | < 0.001 |
| Method | Constrained Longitudinal Data Analysis |
| Parameter estimate | Difference in the Least Squares Means |
| Point estimate | -1.85 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | -2.48 |
| upper limit | -1.22 |

| | |
|--|---|
| Statistical analysis title | Difference in the Least Squares Means |
| Statistical analysis description: Based on cLDA model with fixed effects for treatment, time, baseline eGFR (continuous), and the interaction of time by treatment. Time was treated as a categorical variable. | |
| Comparison groups | Sitagliptin 100 mg v Ertugliflozin 15 mg + Sitagliptin 100 mg |
| Number of subjects included in analysis | 491 |
| Analysis specification | Pre-specified |
| Analysis type | other |
| P-value | < 0.001 |
| Method | Constrained Longitudinal Data Analysis |
| Parameter estimate | Difference in the Least Squares Means |
| Point estimate | -2.27 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | -2.9 |
| upper limit | -1.64 |

Secondary: Change from Baseline in Fasting Plasma Glucose (FPG) at Week 26 Excluding Data After Initiation of Rescue Therapy

| | |
|---|---|
| End point title | Change from Baseline in Fasting Plasma Glucose (FPG) at Week 26 Excluding Data After Initiation of Rescue Therapy |
| End point description: Blood glucose was measured on a fasting basis. Blood was drawn at predose on Day 1 and after 26 weeks of treatment to determine change in plasma glucose levels (i.e., FPG at Week 26 minus FPG at baseline). Excluding rescue approach data analysis excluded all data following the initiation of rescue therapy at any time point, in order to avoid the confounding influence of the rescue therapy. The analysis population consisted of all randomized participants who received at least one dose of study treatment, had a baseline measurement or a post-randomization measurement for the FPG change from baseline at Week 26 analysis endpoint subsequent to at least one dose of study treatment. | |
| End point type | Secondary |
| End point timeframe: Baseline and Week 26 | |

| End point values | Ertugliflozin 5 mg | Ertugliflozin 15 mg | Sitagliptin 100 mg | Ertugliflozin 5 mg + Sitagliptin 100 mg |
|--|---------------------------|---------------------------|---------------------------|---|
| Subject group type | Subject analysis set | Subject analysis set | Subject analysis set | Subject analysis set |
| Number of subjects analysed | 250 | 248 | 247 | 243 |
| Units: mg/dL | | | | |
| least squares mean (confidence interval 95%) | -35.73 (-40.04 to -31.42) | -36.91 (-41.21 to -32.62) | -25.56 (-29.93 to -21.19) | -43.96 (-48.29 to -39.63) |

| | | | | |
|--|--|--|--|--|
| End point values | Ertugliflozin 15 mg + Sitagliptin 100 mg | | | |
| Subject group type | Subject analysis set | | | |
| Number of subjects analysed | 244 | | | |
| Units: mg/dL | | | | |
| least squares mean (confidence interval 95%) | -48.7 (-53.01 to -44.39) | | | |

Statistical analyses

| | |
|--|--|
| Statistical analysis title | Difference in the Least Squares Means |
| Statistical analysis description: Based on cLDA model with fixed effects for treatment, time, baseline eGFR (continuous), and the interaction of time by treatment. Time was treated as a categorical variable. | |
| Comparison groups | Ertugliflozin 5 mg v Ertugliflozin 5 mg + Sitagliptin 100 mg |
| Number of subjects included in analysis | 493 |
| Analysis specification | Pre-specified |
| Analysis type | other |
| P-value | = 0.004 |
| Method | Constrained Longitudinal Data Analysis |
| Parameter estimate | Difference in the Least Squares Means |
| Point estimate | -8.23 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | -13.82 |
| upper limit | -2.65 |

| | |
|--|--|
| Statistical analysis title | Difference in the Least Squares Means |
| Statistical analysis description: Based on cLDA model with fixed effects for treatment, time, baseline eGFR (continuous), and the interaction of time by treatment. Time was treated as a categorical variable. | |
| Comparison groups | Sitagliptin 100 mg v Ertugliflozin 5 mg + Sitagliptin 100 mg |
| Number of subjects included in analysis | 490 |
| Analysis specification | Pre-specified |
| Analysis type | other |
| P-value | < 0.001 |
| Method | Constrained Longitudinal Data Analysis |
| Parameter estimate | Difference in the Least Squares Means |
| Point estimate | -18.4 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | -24.03 |
| upper limit | -12.77 |

| | |
|--|--|
| Statistical analysis title | Difference in the Least Squares Means |
| Statistical analysis description: Based on cLDA model with fixed effects for treatment, time, baseline eGFR (continuous), and the interaction of time by treatment. Time was treated as a categorical variable. | |
| Comparison groups | Ertugliflozin 15 mg v Ertugliflozin 15 mg + Sitagliptin 100 mg |
| Number of subjects included in analysis | 492 |
| Analysis specification | Pre-specified |
| Analysis type | other |
| P-value | < 0.001 |
| Method | Constrained Longitudinal Data Analysis |
| Parameter estimate | Difference in the Least Squares Means |
| Point estimate | -11.79 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | -17.35 |
| upper limit | -6.23 |

| | |
|--|---|
| Statistical analysis title | Difference in the Least Squares Means |
| Statistical analysis description: Based on cLDA model with fixed effects for treatment, time, baseline eGFR (continuous), and the interaction of time by treatment. Time was treated as a categorical variable. | |
| Comparison groups | Sitagliptin 100 mg v Ertugliflozin 15 mg + Sitagliptin 100 mg |
| Number of subjects included in analysis | 491 |
| Analysis specification | Pre-specified |
| Analysis type | other |
| P-value | < 0.001 |
| Method | Constrained Longitudinal Data Analysis |
| Parameter estimate | Difference in the Least Squares Means |
| Point estimate | -23.14 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | -28.76 |
| upper limit | -17.53 |

Secondary: Change from Baseline in Sitting Systolic Blood Pressure at Week 26 Excluding Data After Initiation of Rescue Therapy

| | |
|-----------------|--|
| End point title | Change from Baseline in Sitting Systolic Blood Pressure at Week 26 Excluding Data After Initiation of Rescue Therapy |
|-----------------|--|

End point description:

This change from baseline reflects the Week 26 sitting systolic blood pressure (SBP) minus the Week 0 sitting SBP. Excluding rescue approach data analysis excluded all data following the initiation of rescue therapy at any time point, in order to avoid the confounding influence of the rescue therapy. The analysis population consisted of all randomized participants who received at least one dose of study

treatment, had a baseline measurement or a post-randomization measurement for the systolic blood pressure change from baseline at Week 26 analysis endpoint subsequent to at least one dose of study treatment.

| | |
|----------------------|-----------|
| End point type | Secondary |
| End point timeframe: | |
| Baseline and Week 26 | |

| End point values | Ertugliflozin 5 mg | Ertugliflozin 15 mg | Sitagliptin 100 mg | Ertugliflozin 5 mg + Sitagliptin 100 mg |
|--|-----------------------|-----------------------|-----------------------|---|
| Subject group type | Subject analysis set | Subject analysis set | Subject analysis set | Subject analysis set |
| Number of subjects analysed | 250 | 248 | 247 | 243 |
| Units: mmHg | | | | |
| least squares mean (confidence interval 95%) | -3.89 (-5.28 to -2.5) | -3.69 (-5.08 to -2.3) | -0.66 (-2.07 to 0.76) | -3.42 (-4.82 to -2.03) |

| End point values | Ertugliflozin 15 mg + Sitagliptin 100 mg | | | |
|--|--|--|--|--|
| Subject group type | Subject analysis set | | | |
| Number of subjects analysed | 244 | | | |
| Units: mmHg | | | | |
| least squares mean (confidence interval 95%) | -3.67 (-5.06 to -2.29) | | | |

Statistical analyses

| | |
|---|--|
| Statistical analysis title | Difference in the Least Squares Means |
| Statistical analysis description: | |
| Based on cLDA model with fixed effects for treatment, time, baseline eGFR (continuous), and the interaction of time by treatment. Time was treated as a categorical variable. | |
| Comparison groups | Sitagliptin 100 mg v Ertugliflozin 5 mg + Sitagliptin 100 mg |
| Number of subjects included in analysis | 490 |
| Analysis specification | Pre-specified |
| Analysis type | other |
| P-value | = 0.005 |
| Method | Constrained Longitudinal Analysis |
| Parameter estimate | Difference in the Least Squares Means |
| Point estimate | -2.76 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | -4.69 |
| upper limit | -0.83 |

| | |
|--|---|
| Statistical analysis title | Difference in the Least Squares Means |
| Statistical analysis description: Based on cLDA model with fixed effects for treatment, time, baseline eGFR (continuous), and the interaction of time by treatment. Time was treated as a categorical variable. | |
| Comparison groups | Sitagliptin 100 mg v Ertugliflozin 15 mg + Sitagliptin 100 mg |
| Number of subjects included in analysis | 491 |
| Analysis specification | Pre-specified |
| Analysis type | other |
| P-value | = 0.002 |
| Method | Constrained Longitudinal Data Analysis |
| Parameter estimate | Difference in the Least Squares Means |
| Point estimate | -3.01 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | -4.94 |
| upper limit | -1.09 |

Secondary: Percentage of Participants Achieving a Hemoglobin A1C of <7% (Raw Proportions) at Week 26 Excluding Data After Initiation of Rescue Therapy

| | |
|-----------------|---|
| End point title | Percentage of Participants Achieving a Hemoglobin A1C of <7% (Raw Proportions) at Week 26 Excluding Data After Initiation of Rescue Therapy |
|-----------------|---|

End point description:

Hemoglobin A1C is blood marker used to report average blood glucose levels over prolonged periods of time and is reported as a percentage (%). Excluding rescue approach data analysis excluded all data following the initiation of rescue therapy at any time point, in order to avoid the confounding influence of the rescue therapy. The analysis population consisted of all randomized participants who received at least one dose of study treatment, had a post-randomization measurement for the A1C change from baseline at Week 26 analysis endpoint subsequent to at least one dose of study treatment.

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

End point timeframe:

Week 26

| End point values | Ertugliflozin 5 mg | Ertugliflozin 15 mg | Sitagliptin 100 mg | Ertugliflozin 5 mg + Sitagliptin 100 mg |
|-----------------------------|----------------------|----------------------|----------------------|---|
| Subject group type | Subject analysis set | Subject analysis set | Subject analysis set | Subject analysis set |
| Number of subjects analysed | 250 | 248 | 247 | 243 |
| Units: Percent | | | | |
| number (not applicable) | 26.4 | 31.9 | 32.8 | 52.3 |

| | | | | |
|-----------------------------|--|--|--|--|
| End point values | Ertugliflozin 15 mg + Sitagliptin 100 mg | | | |
| Subject group type | Subject analysis set | | | |
| Number of subjects analysed | 244 | | | |
| Units: Percent | | | | |
| number (not applicable) | 49.2 | | | |

Statistical analyses

| | |
|---|--|
| Statistical analysis title | Odds Ratio |
| Statistical analysis description: | |
| Logistic regression with multiple imputations based on cLDA model with fixed effects for treatment, time, baseline eGFR (continuous), and the interaction of time by treatment. Time was treated as a categorical variable. | |
| Comparison groups | Ertugliflozin 5 mg v Ertugliflozin 5 mg + Sitagliptin 100 mg |
| Number of subjects included in analysis | 493 |
| Analysis specification | Pre-specified |
| Analysis type | other |
| P-value | < 0.001 |
| Method | Constrained Longitudinal Data Analysis |
| Parameter estimate | Odds ratio (OR) |
| Point estimate | 4.14 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | 2.68 |
| upper limit | 6.4 |

| | |
|---|--|
| Statistical analysis title | Odds Ratio |
| Statistical analysis description: | |
| Logistic regression with multiple imputations based on cLDA model with fixed effects for treatment, time, baseline eGFR (continuous), and the interaction of time by treatment. Time was treated as a categorical variable. | |
| Comparison groups | Ertugliflozin 15 mg v Ertugliflozin 15 mg + Sitagliptin 100 mg |
| Number of subjects included in analysis | 492 |
| Analysis specification | Pre-specified |
| Analysis type | other |
| P-value | < 0.001 |
| Method | Constrained Longitudinal Data Analysis |
| Parameter estimate | Odds ratio (OR) |
| Point estimate | 2.53 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | 1.68 |
| upper limit | 3.83 |

| | |
|--|--|
| Statistical analysis title | Odds Ratio |
| Statistical analysis description: Logistic regression with multiple imputations based on cLDA model with fixed effects for treatment, time, baseline eGFR (continuous), and the interaction of time by treatment. Time was treated as a categorical variable. | |
| Comparison groups | Sitagliptin 100 mg v Ertugliflozin 5 mg + Sitagliptin 100 mg |
| Number of subjects included in analysis | 490 |
| Analysis specification | Pre-specified |
| Analysis type | other |
| P-value | < 0.001 |
| Method | Constrained Longitudinal Data Analysis |
| Parameter estimate | Odds ratio (OR) |
| Point estimate | 2.95 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | 1.92 |
| upper limit | 4.54 |

| | |
|--|---|
| Statistical analysis title | Odds Ratio |
| Statistical analysis description: Logistic regression with multiple imputations based on cLDA model with fixed effects for treatment, time, baseline eGFR (continuous), and the interaction of time by treatment. Time was treated as a categorical variable. | |
| Comparison groups | Sitagliptin 100 mg v Ertugliflozin 15 mg + Sitagliptin 100 mg |
| Number of subjects included in analysis | 491 |
| Analysis specification | Pre-specified |
| Analysis type | other |
| P-value | < 0.001 |
| Method | Constrained Longitudinal Data Analysis |
| Parameter estimate | Odds ratio (OR) |
| Point estimate | 2.56 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | 1.69 |
| upper limit | 3.89 |

Secondary: Change from Baseline in β -cell Responsivity Static Component (Φ_s) (10-9min-1) From the 8-Point Meal Tolerance Test (MMTT at Week 26

| | |
|-----------------|--|
| End point title | Change from Baseline in β -cell Responsivity Static Component (Φ_s) (10-9min-1) From the 8-Point Meal Tolerance Test (MMTT at Week 26 |
|-----------------|--|

End point description:

Measurements of plasma glucose, insulin and C-peptide collected, and urine samples were used to

assess parameters of insulin sensitivity and β -cell function. The analysis model parameters, i.e. α , β , k , (and h) were estimated in Simulation, Analysis, and Modeling Software for tracer and pharmacokinetic studies (SAAM II) using least squares approach. The endpoint Φ_s (β -cell responsivity static component) is a function of α and is calculated inside SAAM II, by specifying the formula in the Equation section of the STU file: $\Phi_s = \beta / 0.05551$, the unit is 10^{-9} min^{-1} . A higher number indicates greater β -cell responsivity. The analysis population consisted of all randomized participants who received at least one dose of study treatment, had a baseline measurement or a post-randomization measurement for the beta-cell responsivity static component change from baseline at Week 26 analysis endpoint subsequent to at least one dose of study treatment.

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

End point timeframe:

Baseline and Week 26, 30 minutes before and immediately prior to administration of the standard meal and 15, 30, 60, 90, 120 and 180 minutes following the start of the administration of the meal

| End point values | Ertugliflozin 5 mg | Ertugliflozin 15 mg | Sitagliptin 100 mg | Ertugliflozin 5 mg + Sitagliptin 100 mg |
|--|----------------------|----------------------|------------------------|---|
| Subject group type | Subject analysis set | Subject analysis set | Subject analysis set | Subject analysis set |
| Number of subjects analysed | 66 | 67 | 63 | 55 |
| Units: 10^{-9} min^{-1} | | | | |
| least squares mean (confidence interval 95%) | 8.62 (1.28 to 15.96) | 9.71 (2.29 to 17.13) | 21.11 (13.55 to 28.67) | 16.24 (8.36 to 24.11) |

| End point values | Ertugliflozin 15 mg + Sitagliptin 100 mg | | | |
|--|--|--|--|--|
| Subject group type | Subject analysis set | | | |
| Number of subjects analysed | 61 | | | |
| Units: 10^{-9} min^{-1} | | | | |
| least squares mean (confidence interval 95%) | 11.51 (3.76 to 19.26) | | | |

Statistical analyses

| | |
|----------------------------|---------------------------------------|
| Statistical analysis title | Difference in the Least Squares Means |
|----------------------------|---------------------------------------|

Statistical analysis description:

Based on cLDA model with fixed effects for treatment, time, baseline eGFR (continuous), and the interaction of time by treatment. Time was treated as a categorical variable.

| | |
|---|--|
| Comparison groups | Ertugliflozin 5 mg v Ertugliflozin 5 mg + Sitagliptin 100 mg |
| Number of subjects included in analysis | 121 |
| Analysis specification | Pre-specified |
| Analysis type | other |
| P-value | = 0.155 |
| Method | Constrained Longitudinal Data Analysis |
| Parameter estimate | Difference in the Least Squares Means |
| Point estimate | 7.61 |

| | |
|---------------------|---------|
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | -2.9 |
| upper limit | 18.13 |

| | |
|-----------------------------------|---------------------------------------|
| Statistical analysis title | Difference in the Least Squares Means |
|-----------------------------------|---------------------------------------|

Statistical analysis description:

Based on cLDA model with fixed effects for treatment, time, baseline eGFR (continuous), and the interaction of time by treatment. Time was treated as a categorical variable.

| | |
|---|--|
| Comparison groups | Ertugliflozin 15 mg v Ertugliflozin 15 mg + Sitagliptin 100 mg |
| Number of subjects included in analysis | 128 |
| Analysis specification | Pre-specified |
| Analysis type | other |
| P-value | = 0.734 |
| Method | Constrained Longitudinal Data Analysis |
| Parameter estimate | Difference in the Least Squares Means |
| Point estimate | 1.81 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | -8.66 |
| upper limit | 12.27 |

| | |
|-----------------------------------|---------------------------------------|
| Statistical analysis title | Difference in the Least Squares Means |
|-----------------------------------|---------------------------------------|

Statistical analysis description:

Based on cLDA model with fixed effects for treatment, time, baseline eGFR (continuous), and the interaction of time by treatment. Time was treated as a categorical variable.

| | |
|---|--|
| Comparison groups | Sitagliptin 100 mg v Ertugliflozin 5 mg + Sitagliptin 100 mg |
| Number of subjects included in analysis | 118 |
| Analysis specification | Pre-specified |
| Analysis type | other |
| P-value | = 0.369 |
| Method | Constrained Longitudinal Data Analysis |
| Parameter estimate | Difference in the Least Squares Means |
| Point estimate | -4.87 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | -15.54 |
| upper limit | 5.8 |

| | |
|-----------------------------------|---------------------------------------|
| Statistical analysis title | Difference in the Least Squares Means |
|-----------------------------------|---------------------------------------|

Statistical analysis description:

Based on cLDA model with fixed effects for treatment, time, baseline eGFR (continuous), and the interaction of time by treatment. Time was treated as a categorical variable.

| | |
|---|---|
| Comparison groups | Sitagliptin 100 mg v Ertugliflozin 15 mg + Sitagliptin 100 mg |
| Number of subjects included in analysis | 124 |
| Analysis specification | Pre-specified |
| Analysis type | other |
| P-value | = 0.075 |
| Method | Constrained Longitudinal Data Analysis |
| Parameter estimate | Difference in the Least Squares Means |
| Point estimate | -9.59 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | -20.17 |
| upper limit | 0.98 |

Adverse events

Adverse events information

Timeframe for reporting adverse events:

Up to 54 weeks

Adverse event reporting additional description:

The safety population consisted of all randomized participants who took at least one dose of trial treatment. Participants were included in the treatment group corresponding to the trial treatment they actually took for the analysis of safety data. This analysis included events that occurred following the initiation of rescue therapy.

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

Dictionary used

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

| | |
|--------------------|------|
| Dictionary version | 19.0 |
|--------------------|------|

Reporting groups

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

Reporting group description:

Ertugliflozin 15 mg once daily, placebo to sitagliptin once daily, and metformin \geq 1500 mg/day, all for 52 weeks

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

Reporting group description:

Ertugliflozin 5 mg once daily, placebo to ertugliflozin once daily, placebo to sitagliptin once daily, and metformin \geq 1500 mg/day, all for 52 weeks

| | |
|-----------------------|---|
| Reporting group title | Ertugliflozin 5 mg + Sitagliptin 100 mg |
|-----------------------|---|

Reporting group description:

Ertugliflozin 5 mg once daily, sitagliptin 100 mg once daily, placebo to ertugliflozin once daily, and metformin \geq 1500 mg/day, all for 52 weeks

| | |
|-----------------------|--|
| Reporting group title | Ertugliflozin 15 mg + Sitagliptin 100 mg |
|-----------------------|--|

Reporting group description:

Ertugliflozin 15 mg once daily, sitagliptin 100 mg once daily, and metformin \geq 1500 mg/day, all for 52 weeks

| | |
|-----------------------|--------------------|
| Reporting group title | Sitagliptin 100 mg |
|-----------------------|--------------------|

Reporting group description:

Sitagliptin 100 mg once daily, placebo to ertugliflozin once daily, and metformin \geq 1500 mg/day, all for 52 weeks

| Serious adverse events | Ertugliflozin 15 mg | Ertugliflozin 5 mg | Ertugliflozin 5 mg + Sitagliptin 100 mg |
|---|---------------------|--------------------|---|
| Total subjects affected by serious adverse events | | | |
| subjects affected / exposed | 5 / 248 (2.02%) | 12 / 250 (4.80%) | 9 / 243 (3.70%) |
| number of deaths (all causes) | 1 | 0 | 0 |
| number of deaths resulting from adverse events | 0 | 0 | 0 |
| Neoplasms benign, malignant and unspecified (incl cysts and polyps) | | | |
| Nodal marginal zone B-cell lymphoma stage III | | | |

| | | | |
|---|-----------------|-----------------|-----------------|
| subjects affected / exposed | 0 / 248 (0.00%) | 0 / 250 (0.00%) | 1 / 243 (0.41%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 1 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Pancreatic carcinoma | | | |
| subjects affected / exposed | 0 / 248 (0.00%) | 0 / 250 (0.00%) | 0 / 243 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Pancreatic neoplasm | | | |
| subjects affected / exposed | 0 / 248 (0.00%) | 0 / 250 (0.00%) | 0 / 243 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Vascular disorders | | | |
| Deep vein thrombosis | | | |
| subjects affected / exposed | 0 / 248 (0.00%) | 1 / 250 (0.40%) | 0 / 243 (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 |
| Hypertension | | | |
| subjects affected / exposed | 0 / 248 (0.00%) | 1 / 250 (0.40%) | 0 / 243 (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 |
| Respiratory, thoracic and mediastinal disorders | | | |
| Bronchial hyperreactivity | | | |
| subjects affected / exposed | 1 / 248 (0.40%) | 0 / 250 (0.00%) | 0 / 243 (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 obstructive pulmonary disease | | | |
| subjects affected / exposed | 1 / 248 (0.40%) | 0 / 250 (0.00%) | 0 / 243 (0.00%) |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Investigations | | | |
| Blood potassium decreased | | | |

| | | | |
|---|-----------------|-----------------|-----------------|
| subjects affected / exposed | 0 / 248 (0.00%) | 0 / 250 (0.00%) | 1 / 243 (0.41%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 1 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Blood sodium decreased | | | |
| subjects affected / exposed | 0 / 248 (0.00%) | 0 / 250 (0.00%) | 1 / 243 (0.41%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 1 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Injury, poisoning and procedural complications | | | |
| Head injury | | | |
| subjects affected / exposed | 0 / 248 (0.00%) | 0 / 250 (0.00%) | 0 / 243 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Joint injury | | | |
| subjects affected / exposed | 0 / 248 (0.00%) | 0 / 250 (0.00%) | 0 / 243 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Overdose | | | |
| subjects affected / exposed | 0 / 248 (0.00%) | 1 / 250 (0.40%) | 0 / 243 (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 |
| Cardiac disorders | | | |
| Acute coronary syndrome | | | |
| subjects affected / exposed | 0 / 248 (0.00%) | 1 / 250 (0.40%) | 1 / 243 (0.41%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | 0 / 1 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Acute myocardial infarction | | | |
| subjects affected / exposed | 0 / 248 (0.00%) | 1 / 250 (0.40%) | 0 / 243 (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 |
| Angina pectoris | | | |
| subjects affected / exposed | 0 / 248 (0.00%) | 1 / 250 (0.40%) | 0 / 243 (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 |

| | | | |
|---|-----------------|-----------------|-----------------|
| Atrial fibrillation | | | |
| subjects affected / exposed | 0 / 248 (0.00%) | 0 / 250 (0.00%) | 0 / 243 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Cardiac failure chronic | | | |
| subjects affected / exposed | 0 / 248 (0.00%) | 1 / 250 (0.40%) | 0 / 243 (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 |
| Cardiac failure congestive | | | |
| subjects affected / exposed | 0 / 248 (0.00%) | 1 / 250 (0.40%) | 0 / 243 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Coronary artery disease | | | |
| subjects affected / exposed | 0 / 248 (0.00%) | 0 / 250 (0.00%) | 0 / 243 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Microvascular coronary artery disease | | | |
| subjects affected / exposed | 0 / 248 (0.00%) | 1 / 250 (0.40%) | 0 / 243 (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 |
| Myocardial infarction | | | |
| subjects affected / exposed | 0 / 248 (0.00%) | 0 / 250 (0.00%) | 1 / 243 (0.41%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 1 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Nervous system disorders | | | |
| Ischaemic stroke | | | |
| subjects affected / exposed | 1 / 248 (0.40%) | 0 / 250 (0.00%) | 1 / 243 (0.41%) |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | 0 / 1 |
| deaths causally related to treatment / all | 0 / 1 | 0 / 0 | 0 / 0 |
| Sciatica | | | |
| subjects affected / exposed | 1 / 248 (0.40%) | 0 / 250 (0.00%) | 0 / 243 (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 |

| | | | |
|---|-----------------|-----------------|-----------------|
| Syncope | | | |
| subjects affected / exposed | 0 / 248 (0.00%) | 1 / 250 (0.40%) | 0 / 243 (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 |
| Blood and lymphatic system disorders | | | |
| Iron deficiency anaemia | | | |
| subjects affected / exposed | 0 / 248 (0.00%) | 0 / 250 (0.00%) | 1 / 243 (0.41%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 1 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Lymphadenopathy | | | |
| subjects affected / exposed | 1 / 248 (0.40%) | 0 / 250 (0.00%) | 0 / 243 (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 disorders | | | |
| Duodenal ulcer haemorrhage | | | |
| subjects affected / exposed | 0 / 248 (0.00%) | 0 / 250 (0.00%) | 1 / 243 (0.41%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 1 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Femoral hernia | | | |
| subjects affected / exposed | 0 / 248 (0.00%) | 1 / 250 (0.40%) | 0 / 243 (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 |
| Gastric ulcer | | | |
| subjects affected / exposed | 0 / 248 (0.00%) | 1 / 250 (0.40%) | 0 / 243 (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 |
| Haematochezia | | | |
| subjects affected / exposed | 0 / 248 (0.00%) | 1 / 250 (0.40%) | 0 / 243 (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 |
| Inguinal hernia | | | |
| subjects affected / exposed | 0 / 248 (0.00%) | 1 / 250 (0.40%) | 0 / 243 (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 |

| | | | |
|---|-----------------|-----------------|-----------------|
| Pancreatitis | | | |
| subjects affected / exposed | 0 / 248 (0.00%) | 1 / 250 (0.40%) | 0 / 243 (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 |
| Small intestinal obstruction | | | |
| subjects affected / exposed | 0 / 248 (0.00%) | 0 / 250 (0.00%) | 0 / 243 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Vomiting | | | |
| subjects affected / exposed | 0 / 248 (0.00%) | 2 / 250 (0.80%) | 0 / 243 (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 |
| Hepatobiliary disorders | | | |
| Cholecystitis | | | |
| subjects affected / exposed | 0 / 248 (0.00%) | 0 / 250 (0.00%) | 0 / 243 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Cholecystitis acute | | | |
| subjects affected / exposed | 0 / 248 (0.00%) | 0 / 250 (0.00%) | 0 / 243 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Cholecystitis chronic | | | |
| subjects affected / exposed | 0 / 248 (0.00%) | 0 / 250 (0.00%) | 0 / 243 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Cholelithiasis | | | |
| subjects affected / exposed | 0 / 248 (0.00%) | 0 / 250 (0.00%) | 0 / 243 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Renal and urinary disorders | | | |
| Acute kidney injury | | | |
| subjects affected / exposed | 0 / 248 (0.00%) | 0 / 250 (0.00%) | 0 / 243 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |

| | | | |
|---|-----------------|-----------------|-----------------|
| Nephrolithiasis | | | |
| subjects affected / exposed | 0 / 248 (0.00%) | 0 / 250 (0.00%) | 1 / 243 (0.41%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 1 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Musculoskeletal and connective tissue disorders | | | |
| Musculoskeletal chest pain | | | |
| subjects affected / exposed | 0 / 248 (0.00%) | 0 / 250 (0.00%) | 0 / 243 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Infections and infestations | | | |
| Cellulitis | | | |
| subjects affected / exposed | 0 / 248 (0.00%) | 0 / 250 (0.00%) | 0 / 243 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Cellulitis orbital | | | |
| subjects affected / exposed | 0 / 248 (0.00%) | 0 / 250 (0.00%) | 1 / 243 (0.41%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 1 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Diverticulitis | | | |
| subjects affected / exposed | 0 / 248 (0.00%) | 0 / 250 (0.00%) | 0 / 243 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Gangrene | | | |
| subjects affected / exposed | 1 / 248 (0.40%) | 0 / 250 (0.00%) | 0 / 243 (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 |
| Gastroenteritis norovirus | | | |
| subjects affected / exposed | 0 / 248 (0.00%) | 0 / 250 (0.00%) | 0 / 243 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Pneumococcal sepsis | | | |
| subjects affected / exposed | 0 / 248 (0.00%) | 0 / 250 (0.00%) | 0 / 243 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |

| | | | |
|---|-----------------|-----------------|-----------------|
| Pneumonia | | | |
| subjects affected / exposed | 0 / 248 (0.00%) | 0 / 250 (0.00%) | 0 / 243 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Pulmonary tuberculosis | | | |
| subjects affected / exposed | 0 / 248 (0.00%) | 0 / 250 (0.00%) | 0 / 243 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Pyelonephritis acute | | | |
| subjects affected / exposed | 0 / 248 (0.00%) | 0 / 250 (0.00%) | 1 / 243 (0.41%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 1 / 1 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Metabolism and nutrition disorders | | | |
| Diabetic ketoacidosis | | | |
| subjects affected / exposed | 0 / 248 (0.00%) | 0 / 250 (0.00%) | 0 / 243 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Obesity | | | |
| subjects affected / exposed | 0 / 248 (0.00%) | 0 / 250 (0.00%) | 1 / 243 (0.41%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 1 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |

| Serious adverse events | Ertugliflozin 15 mg + Sitagliptin 100 mg | Sitagliptin 100 mg | |
|---|---|--------------------|--|
| Total subjects affected by serious adverse events | | | |
| subjects affected / exposed | 12 / 244 (4.92%) | 9 / 247 (3.64%) | |
| number of deaths (all causes) | 1 | 0 | |
| number of deaths resulting from adverse events | 0 | 0 | |
| Neoplasms benign, malignant and unspecified (incl cysts and polyps) | | | |
| Nodal marginal zone B-cell lymphoma stage III | | | |
| subjects affected / exposed | 0 / 244 (0.00%) | 0 / 247 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Pancreatic carcinoma | | | |

| | | | |
|---|-----------------|-----------------|--|
| subjects affected / exposed | 1 / 244 (0.41%) | 0 / 247 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 1 | 0 / 0 | |
| Pancreatic neoplasm | | | |
| subjects affected / exposed | 1 / 244 (0.41%) | 0 / 247 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Vascular disorders | | | |
| Deep vein thrombosis | | | |
| subjects affected / exposed | 0 / 244 (0.00%) | 0 / 247 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Hypertension | | | |
| subjects affected / exposed | 0 / 244 (0.00%) | 0 / 247 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Respiratory, thoracic and mediastinal disorders | | | |
| Bronchial hyperreactivity | | | |
| subjects affected / exposed | 0 / 244 (0.00%) | 0 / 247 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Chronic obstructive pulmonary disease | | | |
| subjects affected / exposed | 0 / 244 (0.00%) | 0 / 247 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Investigations | | | |
| Blood potassium decreased | | | |
| subjects affected / exposed | 0 / 244 (0.00%) | 0 / 247 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Blood sodium decreased | | | |

| | | | |
|---|-----------------|-----------------|--|
| subjects affected / exposed | 0 / 244 (0.00%) | 0 / 247 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Injury, poisoning and procedural complications | | | |
| Head injury | | | |
| subjects affected / exposed | 1 / 244 (0.41%) | 0 / 247 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Joint injury | | | |
| subjects affected / exposed | 1 / 244 (0.41%) | 0 / 247 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Overdose | | | |
| subjects affected / exposed | 0 / 244 (0.00%) | 0 / 247 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Cardiac disorders | | | |
| Acute coronary syndrome | | | |
| subjects affected / exposed | 0 / 244 (0.00%) | 0 / 247 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Acute myocardial infarction | | | |
| subjects affected / exposed | 2 / 244 (0.82%) | 2 / 247 (0.81%) | |
| occurrences causally related to treatment / all | 0 / 2 | 0 / 2 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Angina pectoris | | | |
| subjects affected / exposed | 1 / 244 (0.41%) | 0 / 247 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Atrial fibrillation | | | |
| subjects affected / exposed | 0 / 244 (0.00%) | 1 / 247 (0.40%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |

| | | | |
|---|-----------------|-----------------|--|
| Cardiac failure chronic | | | |
| subjects affected / exposed | 0 / 244 (0.00%) | 0 / 247 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Cardiac failure congestive | | | |
| subjects affected / exposed | 0 / 244 (0.00%) | 0 / 247 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Coronary artery disease | | | |
| subjects affected / exposed | 1 / 244 (0.41%) | 0 / 247 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Microvascular coronary artery disease | | | |
| subjects affected / exposed | 0 / 244 (0.00%) | 0 / 247 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Myocardial infarction | | | |
| subjects affected / exposed | 1 / 244 (0.41%) | 1 / 247 (0.40%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Nervous system disorders | | | |
| Ischaemic stroke | | | |
| subjects affected / exposed | 0 / 244 (0.00%) | 1 / 247 (0.40%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Sciatica | | | |
| subjects affected / exposed | 0 / 244 (0.00%) | 0 / 247 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Syncope | | | |
| subjects affected / exposed | 0 / 244 (0.00%) | 0 / 247 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |

| | | | |
|---|-----------------|-----------------|--|
| Blood and lymphatic system disorders | | | |
| Iron deficiency anaemia | | | |
| subjects affected / exposed | 0 / 244 (0.00%) | 0 / 247 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Lymphadenopathy | | | |
| subjects affected / exposed | 0 / 244 (0.00%) | 0 / 247 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Gastrointestinal disorders | | | |
| Duodenal ulcer haemorrhage | | | |
| subjects affected / exposed | 0 / 244 (0.00%) | 0 / 247 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Femoral hernia | | | |
| subjects affected / exposed | 0 / 244 (0.00%) | 0 / 247 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Gastric ulcer | | | |
| subjects affected / exposed | 0 / 244 (0.00%) | 0 / 247 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Haematochezia | | | |
| subjects affected / exposed | 0 / 244 (0.00%) | 0 / 247 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Inguinal hernia | | | |
| subjects affected / exposed | 0 / 244 (0.00%) | 0 / 247 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Pancreatitis | | | |
| subjects affected / exposed | 0 / 244 (0.00%) | 0 / 247 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |

| | | | |
|---|-----------------|-----------------|--|
| Small intestinal obstruction | | | |
| subjects affected / exposed | 0 / 244 (0.00%) | 1 / 247 (0.40%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Vomiting | | | |
| subjects affected / exposed | 0 / 244 (0.00%) | 0 / 247 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Hepatobiliary disorders | | | |
| Cholecystitis | | | |
| subjects affected / exposed | 0 / 244 (0.00%) | 1 / 247 (0.40%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 2 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Cholecystitis acute | | | |
| subjects affected / exposed | 1 / 244 (0.41%) | 0 / 247 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Cholecystitis chronic | | | |
| subjects affected / exposed | 1 / 244 (0.41%) | 0 / 247 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Cholelithiasis | | | |
| subjects affected / exposed | 1 / 244 (0.41%) | 0 / 247 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Renal and urinary disorders | | | |
| Acute kidney injury | | | |
| subjects affected / exposed | 0 / 244 (0.00%) | 1 / 247 (0.40%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Nephrolithiasis | | | |
| subjects affected / exposed | 0 / 244 (0.00%) | 0 / 247 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |

| | | | |
|---|-----------------|-----------------|--|
| Musculoskeletal and connective tissue disorders | | | |
| Musculoskeletal chest pain | | | |
| subjects affected / exposed | 1 / 244 (0.41%) | 0 / 247 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Infections and infestations | | | |
| Cellulitis | | | |
| subjects affected / exposed | 1 / 244 (0.41%) | 0 / 247 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Cellulitis orbital | | | |
| subjects affected / exposed | 0 / 244 (0.00%) | 0 / 247 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Diverticulitis | | | |
| subjects affected / exposed | 0 / 244 (0.00%) | 1 / 247 (0.40%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Gangrene | | | |
| subjects affected / exposed | 0 / 244 (0.00%) | 0 / 247 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Gastroenteritis norovirus | | | |
| subjects affected / exposed | 0 / 244 (0.00%) | 1 / 247 (0.40%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Pneumococcal sepsis | | | |
| subjects affected / exposed | 1 / 244 (0.41%) | 0 / 247 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Pneumonia | | | |
| subjects affected / exposed | 1 / 244 (0.41%) | 1 / 247 (0.40%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |

| | | | |
|---|-----------------|-----------------|--|
| Pulmonary tuberculosis | | | |
| subjects affected / exposed | 1 / 244 (0.41%) | 0 / 247 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Pyelonephritis acute | | | |
| subjects affected / exposed | 0 / 244 (0.00%) | 0 / 247 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Metabolism and nutrition disorders | | | |
| Diabetic ketoacidosis | | | |
| subjects affected / exposed | 1 / 244 (0.41%) | 0 / 247 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Obesity | | | |
| subjects affected / exposed | 0 / 244 (0.00%) | 0 / 247 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |

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

| Non-serious adverse events | Ertugliflozin 15 mg | Ertugliflozin 5 mg | Ertugliflozin 5 mg + Sitagliptin 100 mg |
|---|---------------------|--------------------|---|
| Total subjects affected by non-serious adverse events | | | |
| subjects affected / exposed | 43 / 248 (17.34%) | 36 / 250 (14.40%) | 31 / 243 (12.76%) |
| Infections and infestations | | | |
| Nasopharyngitis | | | |
| subjects affected / exposed | 13 / 248 (5.24%) | 6 / 250 (2.40%) | 12 / 243 (4.94%) |
| occurrences (all) | 14 | 6 | 14 |
| Urinary tract infection | | | |
| subjects affected / exposed | 19 / 248 (7.66%) | 20 / 250 (8.00%) | 14 / 243 (5.76%) |
| occurrences (all) | 23 | 24 | 18 |
| Metabolism and nutrition disorders | | | |
| Hypoglycaemia | | | |
| subjects affected / exposed | 13 / 248 (5.24%) | 12 / 250 (4.80%) | 9 / 243 (3.70%) |
| occurrences (all) | 29 | 25 | 17 |

| Non-serious adverse events | Ertugliflozin 15 mg | Sitagliptin 100 mg | |
|----------------------------|---------------------|--------------------|--|
|----------------------------|---------------------|--------------------|--|

| | + Sitagliptin 100 mg | | |
|---|----------------------|-------------------|--|
| Total subjects affected by non-serious adverse events | | | |
| subjects affected / exposed | 38 / 244 (15.57%) | 28 / 247 (11.34%) | |
| Infections and infestations | | | |
| Nasopharyngitis | | | |
| subjects affected / exposed | 12 / 244 (4.92%) | 6 / 247 (2.43%) | |
| occurrences (all) | 13 | 7 | |
| Urinary tract infection | | | |
| subjects affected / exposed | 8 / 244 (3.28%) | 13 / 247 (5.26%) | |
| occurrences (all) | 12 | 13 | |
| Metabolism and nutrition disorders | | | |
| Hypoglycaemia | | | |
| subjects affected / exposed | 20 / 244 (8.20%) | 11 / 247 (4.45%) | |
| occurrences (all) | 42 | 22 | |

More information

Substantial protocol amendments (globally)

Were there any global substantial amendments to the protocol? No

Interruptions (globally)

Were there any global interruptions to the trial? No

Limitations and caveats

None reported