

**Clinical trial results:****A Phase 3, Randomized, Double-blind, Active-controlled Study to Evaluate the Effects of Bexagliflozin versus Glimepiride in Subjects with Type 2 Diabetes Mellitus Who Have Inadequate Glycemic Control by Metformin****Summary**

|                          |                |
|--------------------------|----------------|
| EudraCT number           | 2016-002013-21 |
| Trial protocol           | ES PL          |
| Global end of trial date | 19 June 2019   |

**Results information**

|                                |                   |
|--------------------------------|-------------------|
| Result version number          | v1 (current)      |
| This version publication date  | 09 September 2021 |
| First version publication date | 09 September 2021 |

**Trial information****Trial identification**

|                       |                |
|-----------------------|----------------|
| Sponsor protocol code | THR-1442-C-480 |
|-----------------------|----------------|

**Additional study identifiers**

|                                    |             |
|------------------------------------|-------------|
| ISRCTN number                      | -           |
| ClinicalTrials.gov id (NCT number) | NCT02769481 |
| WHO universal trial number (UTN)   | -           |

Notes:

**Sponsors**

|                              |  |
|------------------------------|--|
| Sponsor organisation name    | Theracos Sub, LLC  |
| Sponsor organisation address | 225 Cedar Hill Road, Suite 200, Marlborough, United States, 01752                |
| Public contact               | Geoffrey Walford, M.D., Theracos Sub, LLC, 001 6176434986, gwalford@partners.org |
| Scientific contact           | Geoffrey Walford, M.D., Theracos Sub, LLC, 001 6176434986, gwalford@partners.org |

Notes:

**Paediatric regulatory details**

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

Notes:

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**Results analysis stage**

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|  |                 |
|--|-----------------|
| Analysis stage                                       | Final           |
| Date of interim/final analysis                       | 19 July 2019    |
| Is this the analysis of the primary completion data? | Yes             |
| Primary completion date                              | 09 October 2018 |
| Global end of trial reached?                         | Yes             |
| Global end of trial date                             | 19 June 2019    |
| Was the trial ended prematurely?                     | No              |

Notes:

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**General information about the trial**

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Main objective of the trial:

The primary efficacy objective is to demonstrate that bexagliflozin is non-inferior to glimepiride by evaluating the treatment effect on hemoglobin A1c (HbA1c) reduction at week 60 in subjects whose type 2 diabetes mellitus (T2DM) is inadequately controlled by metformin.

Protection of trial subjects:

Subjects were advised to continue daily, fasting SMBG measurements and contact the clinic if any fasting SMBG is  $\geq 270$  mg/dL from baseline to Week 6,  $\geq 240$  mg/dL after Week 6 to Week 12, or  $\geq 200$  mg/dL after Week 12. Hyperglycemia were monitored by FPG at scheduled visits. Hyperglycemia was managed first with diet and exercise counseling. If this failed, medical therapy was intensified at the investigator's discretion for the well-being of the subject, including up-titration of glimepiride dose and addition of rescue medication. The investigator had the ability to provide rescue treatment with any approved medication for diabetes that is not otherwise contraindicated, with the exception of SGLT2 inhibitor, sulfonylurea and metformin. The study drug could be discontinued at the discretion of the investigator if symptomatic hypoglycemia occurs in subjects not prescribed rescue medication. Other safety monitoring activities included assessments of vital signs, 12-lead ECG, physical examinations, urinalysis, blood chemistry, hematology, adverse events and concomitant medication use. An independent Data and Safety Monitoring Board (DSMB) will monitor overall safety information during the bexagliflozin development program. An independent adjudication committee was established to review all potential cardiovascular events and all potential diabetic ketoacidosis events.

Background therapy:

The study will enroll T2DM patients who are treated with only metformin or who are treated with metformin and one additional oral hypoglycemic agent. All subjects must have taken metformin at a stable dose of  $\geq 1500$  mg/day for  $\geq 8$  weeks prior to screening. Study subjects will continue receiving open-labeled metformin background medication during the entire study at a stable dose and frequency.

Evidence for comparator:

Metformin is the most commonly prescribed oral hypoglycemic agent and is recommended as the first-line therapy for the treatment for T2DM. Subjects with T2DM often require multiple anti-diabetic medications for glycemic control. Sulfonylureas are often prescribed with metformin as a combination therapy for treating T2DM. Sulfonylureas can reduce the risk of long-term microvascular complications via effective glycemic control. Common side effects of sulfonylureas include weight gain and increased risk of hypoglycemia. Glimepiride is one of the most commonly prescribed second-generation sulfonylureas. Therefore, it is an appropriate active comparator in the subject population studied during the treatment period (96 weeks).

|   |                |
|---|----------------|
| Actual start date of recruitment                          | 10 August 2016 |
| Long term follow-up planned                               | No             |
| Independent data monitoring committee (IDMC) involvement? | Yes            |

Notes:

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**Population of trial subjects**

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**Subjects enrolled per country**

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|                                      |             |
|--------------------------------------|-------------|
| Country: Number of subjects enrolled | Poland: 153 |
|--------------------------------------|-------------|

|                                      |                    |
|--------------------------------------|--------------------|
| Country: Number of subjects enrolled | Spain: 88          |
| Country: Number of subjects enrolled | Germany: 57        |
| Country: Number of subjects enrolled | United States: 128 |
| Worldwide total number of subjects   | 426                |
| EEA total number of subjects         | 298                |

Notes:

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

|   |     |
|---|-----|
| In utero                                  | 0   |
| Preterm newborn - gestational age < 37 wk | 0   |
| Newborns (0-27 days)                      | 0   |
| Infants and toddlers (28 days-23 months)  | 0   |
| Children (2-11 years)                     | 0   |
| Adolescents (12-17 years)                 | 0   |
| Adults (18-64 years)                      | 296 |
| From 65 to 84 years                       | 128 |
| 85 years and over                         | 2   |

## Subject disposition

### Recruitment

Recruitment details:

The study population included ~420 subjects whose T2DM was inadequately controlled by metformin and who met all of the inclusion criteria and none of the exclusion criteria. Clinical sites in the North America and Europe participated and recruited subjects. Clinical sites in other continents were also allowed to participate in the trial.

### Pre-assignment

Screening details:

Subjects who were treated with metformin + OHA will undergo a 6-week wash-out of the non-metformin OHA to exclude the potential influence of other OHAs on the study outcomes. Subjects continued to take metformin at the same dose and frequency. Subjects in the glimepiride arm started at 2 mg daily and underwent dose up-titration.

### Pre-assignment period milestones

|  |                     |
|--|---------------------|
| Number of subjects started                 | 812 <sup>[1]</sup>  |
| Intermediate milestone: Number of subjects | Entered Run-In: 539 |
| Intermediate milestone: Number of subjects | Randomized: 427     |
| Number of subjects completed               | 426                 |

### Pre-assignment subject non-completion reasons

|                            |  |
|----------------------------|--|
| Reason: Number of subjects | Screen fails prior to Run-In: 273        |
| Reason: Number of subjects | Screen fails prior to randomization: 112 |
| Reason: Number of subjects | Excluded due to duplicate enrollment: 1  |

Notes:

[1] - The number of subjects reported to have started the pre-assignment period are not the same as the worldwide number enrolled in the trial. It is expected that these numbers will be the same. Justification: The number of subjects (812) who started the pre-assignment period included those who signed the informed consent form. However, only 426 subjects were included in the intention-to-treat analysis set. Others were excluded due to screen fails prior to Run-in and screen fails prior to randomization. The worldwide number enrolled in the trial (426) included all those who were successfully randomized, except for one randomized subject who was excluded due to duplicate enrollment.

### Period 1

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

### Arms

|                              |               |
|------------------------------|---------------|
| Are arms mutually exclusive? | Yes           |
| Arm title                    | Bexagliflozin |

Arm description:

Subjects will receive a bexagliflozin tablet, 20 mg, once daily for the duration of the study. Subjects will continue taking metformin and receive placebo for glimepiride for the duration of the study. Glimepiride capsules are inactive and their appearance are made to match the active comparator.

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

|  |               |
|--|---------------|
| Investigational medicinal product name   | Bexagliflozin |
| Investigational medicinal product code   |               |
| Other name   |               |
| Pharmaceutical forms   | Tablet        |
| Routes of administration   | Oral use      |
| Dosage and administration details:   |               |
| Bexagliflozin tablet, 20 mg, is to be administered once daily to subjects in the active arm. |               |
| <b>Arm title</b>   | Glimepiride   |

Arm description:

Subjects received a glimepiride capsule at different dose of 2, 4 or 6 mg, once daily for the duration of the study. Subjects continued to take metformin and receive placebo for bexagliflozin for the duration of the study. The placebo tablets are inactive and their appearances are made to match the active comparator.

|  |                   |
|--|-------------------|
| Arm type                               | Active comparator |
| Investigational medicinal product name | Glimepiride       |
| Investigational medicinal product code |                   |
| Other name                             |                   |
| Pharmaceutical forms                   | Capsule           |
| Routes of administration               | Oral use          |

Dosage and administration details:

Glimepiride capsules, 2, 4, or 6 mg or placebo, were taken once daily with the first meal. Subjects will receive the starting dose of glimepiride at 2 mg or placebo at week 0 (V6). At weeks 2, 4, and 6, subjects will return to the clinic for the assessment of glimepiride dose up-titration and safety evaluation. If a subject had  $\geq 50\%$  of documented fasting SMBG measurements  $> 110$  mg/dL and no severe or documented symptomatic hypoglycemia events in the preceding 2 weeks, glimepiride dose was increased to the next level. During weeks 0 to 6, each up-titration visit was conducted no more than 2 weeks after the prior visit. If subjects did not meet up-titration glycemic criteria, subjects continued glimepiride at the same dose prescribed to them at the previous visit. Subjects assigned to receive placebo glimepiride received mock titrations at Week 2, 4, and 6. No dose changes in glimepiride occurred after 6 weeks of treatment.

| <b>Number of subjects in period 1</b> | Bexagliflozin | Glimepiride |
|---------------------------------------|---------------|-------------|
| Started                               | 213           | 213         |
| Study complete at Week 60             | 193           | 192         |
| Completed                             | 180           | 177         |
| Not completed                         | 33            | 36          |
| Consent withdrawn by subject          | 14            | 16          |
| Physician decision                    | -             | 1           |
| Adverse event, non-fatal              | 3             | 6           |
| Death                                 | -             | 1           |
| Terminated by sponsor                 | 1             | -           |
| Undefined                             | 4             | 1           |
| Lost to follow-up                     | 9             | 9           |
| Entry criteria not met                | 1             | 2           |
| Protocol deviation                    | 1             | -           |



## Baseline characteristics

### Reporting groups

|                       |               |
|-----------------------|---------------|
| Reporting group title | Bexagliflozin |
|-----------------------|---------------|

Reporting group description:

Subjects will receive a bexagliflozin tablet, 20 mg, once daily for the duration of the study. Subjects will continue taking metformin and receive placebo for glimepiride for the duration of the study. Glimepiride capsules are inactive and their appearance are made to match the active comparator.

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

Reporting group description:

Subjects received a glimepiride capsule at different dose of 2, 4 or 6 mg, once daily for the duration of the study. Subjects continued to take metformin and receive placebo for bexagliflozin for the duration of the study. The placebo tablets are inactive and their appearances are made to match the active comparator.

| Reporting group values                                | Bexagliflozin | Glimepiride | Total |
|---|---------------|-------------|-------|
| Number of subjects                                    | 213           | 213         | 426   |
| Age categorical<br>Units: Subjects                    |               |             |       |
| In utero  |               |             | 0     |
| Preterm newborn infants<br>(gestational age < 37 wks) |               |             | 0     |
| Newborns (0-27 days)                                  |               |             | 0     |
| Infants and toddlers (28 days-23<br>months)           |               |             | 0     |
| Children (2-11 years)                                 |               |             | 0     |
| Adolescents (12-17 years)                             |               |             | 0     |
| Adults (18-64 years)                                  |               |             | 0     |
| From 65-84 years                                      |               |             | 0     |
| 85 years and over                                     |               |             | 0     |
| Age continuous<br>Units: years                        |               |             |       |
| arithmetic mean                                       | 59.5          | 59.7        |       |
| standard deviation                                    | ± 9.06        | ± 10.35     | -     |
| Gender categorical<br>Units: Subjects                 |               |             |       |
| Female  | 95            | 83          | 178   |
| Male  | 118           | 130         | 248   |
| Ethnicity<br>Units: Subjects                          |               |             |       |
| Hispanic or Latino                                    | 46            | 47          | 93    |
| Not Hispanic or Latino                                | 167           | 166         | 333   |
| Unknown or Not Reported                               | 0             | 0           | 0     |
| Race<br>Units: Subjects                               |               |             |       |
| American Indian or Alaska Native                      | 0             | 0           | 0     |
| Asian   | 9             | 4           | 13    |
| Native Hawaiian or Other Pacific<br>Islander          | 1             | 0           | 1     |
| Black or African American                             | 5             | 4           | 9     |
| White   | 198           | 204         | 402   |

|   |          |          |     |
|---|----------|----------|-----|
| More than one race                                    | 0        | 0        | 0   |
| Unknown or Not Reported                               | 0        | 1        | 1   |
| Region of Enrollment<br>Units: Subjects               |          |          |     |
| United States   | 65       | 63       | 128 |
| Poland  | 74       | 79       | 153 |
| Germany   | 28       | 29       | 57  |
| Spain   | 46       | 42       | 88  |
| Systolic Blood Pressure Categories<br>Units: Subjects |          |          |     |
| < 140 mm Hg   | 135      | 138      | 273 |
| > 140 mm Hg   | 78       | 75       | 153 |
| Height<br>Units: cm                                   |          |          |     |
| arithmetic mean                                       | 166.7    | 167.1    | -   |
| standard deviation                                    | ± 11.13  | ± 9.53   | -   |
| Body Weight at Baseline<br>Units: kg                  |          |          |     |
| arithmetic mean                                       | 87.95    | 90.23    | -   |
| standard deviation                                    | ± 19.122 | ± 17.616 | -   |
| BMI<br>Units: kg/m <sup>2</sup>                       |          |          |     |
| arithmetic mean                                       | 31.45    | 32.22    | -   |
| standard deviation                                    | ± 4.861  | ± 5.155  | -   |
| Systolic Blood Pressure at Baseline<br>Units: mm Hg   |          |          |     |
| arithmetic mean                                       | 133.3    | 134.2    | -   |
| standard deviation                                    | ± 14.88  | ± 14.37  | -   |

## End points

### End points reporting groups

|                       |               |
|-----------------------|---------------|
| Reporting group title | Bexagliflozin |
|-----------------------|---------------|

Reporting group description:

Subjects will receive a bexagliflozin tablet, 20 mg, once daily for the duration of the study. Subjects will continue taking metformin and receive placebo for glimepiride for the duration of the study. Glimepiride capsules are inactive and their appearance are made to match the active comparator.

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

Reporting group description:

Subjects received a glimepiride capsule at different dose of 2, 4 or 6 mg, once daily for the duration of the study. Subjects continued to take metformin and receive placebo for bexagliflozin for the duration of the study. The placebo tablets are inactive and their appearances are made to match the active comparator.

### Primary: Change from Baseline in HbA1c at Week 60

|                 |  |
|-----------------|--|
| End point title | Change from Baseline in HbA1c at Week 60 |
|-----------------|--|

End point description:

The primary objective is to demonstrate that bexagliflozin is non-inferior to glimepiride by evaluating the treatment effect on HbA1c reduction at week 60 in subjects whose T2DM is inadequately controlled by metformin. The least square mean (LSM) change from baseline to Week 60 was analyzed using a mixed model repeated measures (MMRM) analysis of covariance model (ANCOVA).

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

End point timeframe:

Baseline to Week 60

| End point values                         | Bexagliflozin   | Glimepiride     |  |  |
|--|-----------------|-----------------|--|--|
| Subject group type                       | Reporting group | Reporting group |  |  |
| Number of subjects analysed              | 193             | 191             |  |  |
| Units: Percentage of glycated hemoglobin |                 |                 |  |  |
| least squares mean (standard error)      | -0.70 (± 0.058) | -0.66 (± 0.058) |  |  |

### Statistical analyses

|                            |  |
|----------------------------|--|
| Statistical analysis title | Comparing bexagliflozin to glimepiride |
|----------------------------|--|

Statistical analysis description:

The primary objective is to demonstrate that bexagliflozin is non-inferior to glimepiride by evaluating the treatment effect on HbA1c reduction at week 60 in subjects whose T2DM is inadequately controlled by metformin. The least square mean (LSM) change from baseline to Week 60 was analyzed using a mixed model repeated measures (MMRM) analysis of covariance model (ANCOVA).

|                   |                             |
|-------------------|-----------------------------|
| Comparison groups | Bexagliflozin v Glimepiride |
|-------------------|-----------------------------|

|   |                                |
|---|--------------------------------|
| Number of subjects included in analysis | 384                            |
| Analysis specification                  | Pre-specified                  |
| Analysis type                           | non-inferiority <sup>[1]</sup> |
| Parameter estimate                      | Mean difference (final values) |
| Point estimate                          | 0.05                           |
| Confidence interval                     |                                |
| level                                   | 95 %                           |
| sides                                   | 2-sided                        |
| lower limit                             | -0.21                          |
| upper limit                             | 0.11                           |

Notes:

[1] - The null hypothesis for the primary endpoint was that the change in HbA1c from baseline to week 60 in the bexagliflozin arm would be greater than change in the glimepiride arm by greater than 0.35%. A 95% CI was calculated to estimate the range of values in which the treatment difference was likely to lie. If the 95% CI fell below the specified non inferiority margin of 0.35%, the non inferiority of bexagliflozin to glimepiride would be demonstrated and the null hypothesis would be rejected.

### **Secondary: Change from Baseline in Body Weight at Week 60 for Subjects with Baseline BMI $\geq$ 25 kg/m<sup>2</sup>**

|                 |   |
|-----------------|---|
| End point title | Change from Baseline in Body Weight at Week 60 for Subjects with Baseline BMI $\geq$ 25 kg/m <sup>2</sup> |
|-----------------|---|

End point description:

Least squares (LS) mean treatment difference between the bexagliflozin group and placebo group in the change of body weight in subjects with baseline BMI  $\geq$  25 kg/m<sup>2</sup> at week 60 is analyzed using ANCOVA.

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

End point timeframe:

Baseline to Week 60

| <b>End point values</b>             | Bexagliflozin        | Glimepiride         |  |  |
|-------------------------------------|----------------------|---------------------|--|--|
| Subject group type                  | Reporting group      | Reporting group     |  |  |
| Number of subjects analysed         | 182                  | 182                 |  |  |
| Units: kg                           |                      |                     |  |  |
| least squares mean (standard error) | -3.71 ( $\pm$ 0.285) | 0.59 ( $\pm$ 0.284) |  |  |

### **Statistical analyses**

|                                   |  |
|-----------------------------------|--|
| <b>Statistical analysis title</b> | Comparing bexagliflozin to glimepiride |
|-----------------------------------|--|

Statistical analysis description:

Least squares (LS) mean treatment difference between the bexagliflozin group and placebo group in the change of body weight in subjects with baseline BMI  $\geq$  25 kg/m<sup>2</sup> at week 60 is analyzed using ANCOVA.

|                   |                             |
|-------------------|-----------------------------|
| Comparison groups | Bexagliflozin v Glimepiride |
|-------------------|-----------------------------|

|   |                                 |
|---|---------------------------------|
| Number of subjects included in analysis | 364                             |
| Analysis specification                  | Pre-specified                   |
| Analysis type                           | superiority                     |
| P-value                                 | < 0.0001 [2]                    |
| Method                                  | Mixed-effects repeated measures |
| Parameter estimate                      | Difference of LS Means          |
| Point estimate                          | -4.31                           |
| Confidence interval                     |                                 |
| level                                   | 95 %                            |
| sides                                   | 2-sided                         |
| lower limit                             | -5.1                            |
| upper limit                             | -3.52                           |

Notes:

[2] - P-value is based on one sided statistical tests using a 0.025 level of significance.

### Secondary: Change From Baseline in Systolic Blood Pressure (SBP) at Week 60 for Subjects With Baseline SBP $\geq$ 140 mmHg

|                 |   |
|-----------------|---|
| End point title | Change From Baseline in Systolic Blood Pressure (SBP) at Week 60 for Subjects With Baseline SBP $\geq$ 140 mmHg |
|-----------------|---|

End point description:

Least squares (LS) mean treatment difference between the bexagliflozin group and placebo group in the change of SBP in subjects with baseline SBP  $\geq$  140 mmHg at week 60 is analyzed using ANCOVA.

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

End point timeframe:

Baseline to Week 60

| End point values                    | Bexagliflozin         | Glimepiride          |  |  |
|-------------------------------------|-----------------------|----------------------|--|--|
| Subject group type                  | Reporting group       | Reporting group      |  |  |
| Number of subjects analysed         | 74                    | 68                   |  |  |
| Units: mm Hg                        |                       |                      |  |  |
| least squares mean (standard error) | -13.48 ( $\pm$ 1.404) | -6.95 ( $\pm$ 1.460) |  |  |

### Statistical analyses

|                                   |  |
|-----------------------------------|--|
| <b>Statistical analysis title</b> | Comparing bexagliflozin to glimepiride |
|-----------------------------------|--|

Statistical analysis description:

Least squares (LS) mean treatment difference between the bexagliflozin group and placebo group in the change of SBP in subjects with baseline SBP  $\geq$  140 mmHg at week 60 is analyzed using ANCOVA.

|   |                                 |
|---|---------------------------------|
| Comparison groups                       | Bexagliflozin v Glimepiride     |
| Number of subjects included in analysis | 142                             |
| Analysis specification                  | Pre-specified                   |
| Analysis type                           | superiority                     |
| P-value                                 | = 0.0008 [3]                    |
| Method                                  | Mixed-effects repeated measures |
| Parameter estimate                      | Difference of LS Means          |
| Point estimate                          | -6.53                           |

| Confidence interval |         |
|---------------------|---------|
| level               | 95 %    |
| sides               | 2-sided |
| lower limit         | -10.56  |
| upper limit         | -2.51   |

Notes:

[3] - P-value is based on one sided statistical tests using a 0.025 level of significance.

### Secondary: Difference in Proportion of Subjects With $\geq 1$ Severe or Documented Symptomatic Hypoglycemia Events Over 96 Weeks

|                 |   |
|-----------------|---|
| End point title | Difference in Proportion of Subjects With $\geq 1$ Severe or Documented Symptomatic Hypoglycemia Events Over 96 Weeks |
|-----------------|---|

End point description:

The difference in proportion of subjects with  $\geq 1$  severe or documented symptomatic hypoglycemia events in the bexagliflozin group compared with glimepiride group over 96 weeks is analyzed using a logistic regression model. The full model included region, baseline HbA1c value, background treatment status (metformin or metformin + OHA), eGFR at baseline  $\geq 90$  or  $< 90$  mL min<sup>-1</sup> per 1.73 m<sup>2</sup>, treatment as a fixed effect covariate.

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

End point timeframe:

During the 96 week treatment period

| End point values                  | Bexagliflozin       | Glimepiride         |  |  |
|-----------------------------------|---------------------|---------------------|--|--|
| Subject group type                | Reporting group     | Reporting group     |  |  |
| Number of subjects analysed       | 213                 | 212                 |  |  |
| Units: Proportion of participants |                     |                     |  |  |
| number (confidence interval 95%)  | 0.02 (0.01 to 0.05) | 0.15 (0.10 to 0.22) |  |  |

### Statistical analyses

|                            |  |
|----------------------------|--|
| Statistical analysis title | Comparing bexagliflozin to glimepiride |
|----------------------------|--|

Statistical analysis description:

The difference in proportion of subjects with  $\geq 1$  severe or documented symptomatic hypoglycemia events in the bexagliflozin group compared with glimepiride group over 96 weeks is analyzed using a logistic regression model. The full model included region, baseline HbA1c value, background treatment status (metformin or metformin + OHA), eGFR at baseline  $\geq 90$  or  $< 90$  mL min<sup>-1</sup> per 1.73 m<sup>2</sup>, treatment as a fixed effect covariate.

|   |                             |
|---|-----------------------------|
| Comparison groups                       | Bexagliflozin v Glimepiride |
| Number of subjects included in analysis | 425                         |
| Analysis specification                  | Pre-specified               |
| Analysis type                           | superiority                 |
| P-value                                 | $< 0.0001$ <sup>[4]</sup>   |
| Method                                  | Regression, Logistic        |
| Parameter estimate                      | Odds ratio (OR)             |
| Point estimate                          | 0.12                        |

| Confidence interval |         |
|---------------------|---------|
| level               | 95 %    |
| sides               | 2-sided |
| lower limit         | 0.05    |
| upper limit         | 0.28    |

Notes:

[4] - P-value is based on one sided statistical tests using a 0.025 level of significance.

### Secondary: Superiority of Bexagliflozin Over Glimepiride in HbA1c Reduction at Week 60

|                        |   |
|------------------------|---|
| End point title        | Superiority of Bexagliflozin Over Glimepiride in HbA1c Reduction at Week 60   |
| End point description: | Superiority of bexagliflozin over glimepiride in HbA1c reduction from baseline to week 60 will be declared if the upper bound of 95% CI is less than 0. |
| End point type         | Secondary   |
| End point timeframe:   | Baseline to Week 60   |

| End point values                         | Bexagliflozin   | Glimepiride     |  |  |
|--|-----------------|-----------------|--|--|
| Subject group type                       | Reporting group | Reporting group |  |  |
| Number of subjects analysed              | 193             | 191             |  |  |
| Units: Percentage of glycated hemoglobin |                 |                 |  |  |
| least squares mean (standard error)      | -0.70 (± 0.058) | -0.66 (± 0.058) |  |  |

### Statistical analyses

|   |   |
|---|---|
| Statistical analysis title              | Comparing bexagliflozin to glimepiride  |
| Statistical analysis description:       | Superiority of bexagliflozin over glimepiride in HbA1c reduction from baseline to week 60 will be declared if the upper bound of 95% CI is less than 0. |
| Comparison groups                       | Bexagliflozin v Glimepiride   |
| Number of subjects included in analysis | 384   |
| Analysis specification                  | Pre-specified   |
| Analysis type                           | superiority   |
| Parameter estimate                      | Difference of LS Means  |
| Point estimate                          | -0.05   |
| Confidence interval                     |   |
| level                                   | 95 %  |
| sides                                   | 2-sided   |
| lower limit                             | -0.21   |
| upper limit                             | 0.11  |

## Adverse events

### Adverse events information

Timeframe for reporting adverse events:

Adverse event data was collected from Week -8 (V2, wash-out) to Week 98 (V18, follow-up).

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

### Dictionary used

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

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

### Reporting groups

|                       |               |
|-----------------------|---------------|
| Reporting group title | Bexagliflozin |
|-----------------------|---------------|

Reporting group description: -

|                       |         |
|-----------------------|---------|
| Reporting group title | Placebo |
|-----------------------|---------|

Reporting group description: -

| <b>Serious adverse events</b>                                       | Bexagliflozin     | Placebo           |  |
|---|-------------------|-------------------|--|
| Total subjects affected by serious adverse events                   |                   |                   |  |
| subjects affected / exposed   | 25 / 213 (11.74%) | 26 / 213 (12.21%) |  |
| number of deaths (all causes)                                       | 0                 | 1                 |  |
| number of deaths resulting from adverse events                      | 0                 | 0                 |  |
| Neoplasms benign, malignant and unspecified (incl cysts and polyps) |                   |                   |  |
| Rectal adenocarcinoma   |                   |                   |  |
| subjects affected / exposed   | 1 / 213 (0.47%)   | 0 / 213 (0.00%)   |  |
| occurrences causally related to treatment / all                     | 0 / 1             | 0 / 0             |  |
| deaths causally related to treatment / all                          | 0 / 0             | 0 / 0             |  |
| Small cell lung cancer  |                   |                   |  |
| subjects affected / exposed   | 0 / 213 (0.00%)   | 1 / 213 (0.47%)   |  |
| occurrences causally related to treatment / all                     | 0 / 0             | 0 / 1             |  |
| deaths causally related to treatment / all                          | 0 / 0             | 0 / 0             |  |
| Vascular disorders  |                   |                   |  |
| Arterial occlusive disease  |                   |                   |  |
| subjects affected / exposed   | 0 / 213 (0.00%)   | 1 / 213 (0.47%)   |  |
| occurrences causally related to treatment / all                     | 0 / 0             | 0 / 1             |  |
| deaths causally related to treatment / all                          | 0 / 0             | 0 / 0             |  |
| General disorders and administration site conditions                |                   |                   |  |
| Non-cardiac chest pain  |                   |                   |  |

|   |                 |                 |  |
|---|-----------------|-----------------|--|
| subjects affected / exposed                       | 1 / 213 (0.47%) | 0 / 213 (0.00%) |  |
| occurrences causally related to treatment / all   | 0 / 1           | 0 / 0           |  |
| deaths causally related to treatment / all        | 0 / 0           | 0 / 0           |  |
| <b>Reproductive system and breast disorders</b>   |                 |                 |  |
| Genital hemorrhage                                |                 |                 |  |
| subjects affected / exposed                       | 0 / 213 (0.00%) | 1 / 213 (0.47%) |  |
| occurrences causally related to treatment / all   | 0 / 0           | 0 / 1           |  |
| deaths causally related to treatment / all        | 0 / 0           | 0 / 0           |  |
| Uterine prolapse                                  |                 |                 |  |
| subjects affected / exposed                       | 1 / 213 (0.47%) | 0 / 213 (0.00%) |  |
| occurrences causally related to treatment / all   | 0 / 1           | 0 / 0           |  |
| deaths causally related to treatment / all        | 0 / 0           | 0 / 0           |  |
| <b>Congenital, familial and genetic disorders</b> |                 |                 |  |
| Phimosi   |                 |                 |  |
| subjects affected / exposed                       | 1 / 213 (0.47%) | 0 / 213 (0.00%) |  |
| occurrences causally related to treatment / all   | 0 / 1           | 0 / 0           |  |
| deaths causally related to treatment / all        | 0 / 0           | 0 / 0           |  |
| <b>Cardiac disorders</b>                          |                 |                 |  |
| Acute myocardial infarction                       |                 |                 |  |
| subjects affected / exposed                       | 2 / 213 (0.94%) | 1 / 213 (0.47%) |  |
| occurrences causally related to treatment / all   | 0 / 2           | 0 / 1           |  |
| deaths causally related to treatment / all        | 0 / 0           | 0 / 0           |  |
| Myocardial ischemia                               |                 |                 |  |
| subjects affected / exposed                       | 1 / 213 (0.47%) | 2 / 213 (0.94%) |  |
| occurrences causally related to treatment / all   | 0 / 1           | 0 / 2           |  |
| deaths causally related to treatment / all        | 0 / 0           | 0 / 0           |  |
| Acute coronary syndrome                           |                 |                 |  |
| subjects affected / exposed                       | 1 / 213 (0.47%) | 1 / 213 (0.47%) |  |
| occurrences causally related to treatment / all   | 0 / 1           | 0 / 1           |  |
| deaths causally related to treatment / all        | 0 / 0           | 0 / 0           |  |
| Angina unstable                                   |                 |                 |  |

|   |                 |                 |  |
|---|-----------------|-----------------|--|
| subjects affected / exposed                     | 0 / 213 (0.00%) | 1 / 213 (0.47%) |  |
| occurrences causally related to treatment / all | 0 / 0           | 0 / 1           |  |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           |  |
| <b>Bradycardia</b>                              |                 |                 |  |
| subjects affected / exposed                     | 0 / 213 (0.00%) | 1 / 213 (0.47%) |  |
| occurrences causally related to treatment / all | 0 / 0           | 0 / 1           |  |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           |  |
| <b>Cardiac failure congestive</b>               |                 |                 |  |
| subjects affected / exposed                     | 0 / 213 (0.00%) | 1 / 213 (0.47%) |  |
| occurrences causally related to treatment / all | 0 / 0           | 0 / 1           |  |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           |  |
| <b>Myocardial infarction</b>                    |                 |                 |  |
| subjects affected / exposed                     | 0 / 213 (0.00%) | 1 / 213 (0.47%) |  |
| occurrences causally related to treatment / all | 0 / 0           | 0 / 1           |  |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           |  |
| <b>Myocarditis</b>                              |                 |                 |  |
| subjects affected / exposed                     | 1 / 213 (0.47%) | 0 / 213 (0.00%) |  |
| occurrences causally related to treatment / all | 0 / 1           | 0 / 0           |  |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           |  |
| <b>Palpitation</b>                              |                 |                 |  |
| subjects affected / exposed                     | 1 / 213 (0.47%) | 0 / 213 (0.00%) |  |
| occurrences causally related to treatment / all | 0 / 1           | 0 / 0           |  |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           |  |
| <b>Nervous system disorders</b>                 |                 |                 |  |
| <b>Transient ischemic attack</b>                |                 |                 |  |
| subjects affected / exposed                     | 1 / 213 (0.47%) | 1 / 213 (0.47%) |  |
| occurrences causally related to treatment / all | 0 / 1           | 0 / 1           |  |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           |  |
| <b>Carotid artery stenosis</b>                  |                 |                 |  |
| subjects affected / exposed                     | 1 / 213 (0.47%) | 0 / 213 (0.00%) |  |
| occurrences causally related to treatment / all | 0 / 1           | 0 / 0           |  |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           |  |
| <b>Cerebrovascular accident</b>                 |                 |                 |  |

|   |                 |                 |  |
|---|-----------------|-----------------|--|
| subjects affected / exposed                     | 1 / 213 (0.47%) | 0 / 213 (0.00%) |  |
| occurrences causally related to treatment / all | 0 / 1           | 0 / 0           |  |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           |  |
| Ischemic stroke                                 |                 |                 |  |
| subjects affected / exposed                     | 0 / 213 (0.00%) | 1 / 213 (0.47%) |  |
| occurrences causally related to treatment / all | 0 / 0           | 1 / 1           |  |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           |  |
| Nervous system disorder                         |                 |                 |  |
| subjects affected / exposed                     | 0 / 213 (0.00%) | 1 / 213 (0.47%) |  |
| occurrences causally related to treatment / all | 0 / 0           | 0 / 1           |  |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           |  |
| Thalamic infarction                             |                 |                 |  |
| subjects affected / exposed                     | 1 / 213 (0.47%) | 0 / 213 (0.00%) |  |
| occurrences causally related to treatment / all | 0 / 1           | 0 / 0           |  |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           |  |
| Ear and labyrinth disorders                     |                 |                 |  |
| Deafness unilateral                             |                 |                 |  |
| subjects affected / exposed                     | 0 / 213 (0.00%) | 1 / 213 (0.47%) |  |
| occurrences causally related to treatment / all | 0 / 0           | 0 / 1           |  |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           |  |
| Eye disorders                                   |                 |                 |  |
| Ectropion                                       |                 |                 |  |
| subjects affected / exposed                     | 1 / 213 (0.47%) | 0 / 213 (0.00%) |  |
| occurrences causally related to treatment / all | 0 / 1           | 0 / 0           |  |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           |  |
| Entropion                                       |                 |                 |  |
| subjects affected / exposed                     | 1 / 213 (0.47%) | 0 / 213 (0.00%) |  |
| occurrences causally related to treatment / all | 0 / 1           | 0 / 0           |  |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           |  |
| Retinal detachment                              |                 |                 |  |
| subjects affected / exposed                     | 0 / 213 (0.00%) | 1 / 213 (0.47%) |  |
| occurrences causally related to treatment / all | 0 / 0           | 0 / 1           |  |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           |  |
| Gastrointestinal disorders                      |                 |                 |  |

|   |                 |                 |  |
|---|-----------------|-----------------|--|
| Faecaloma                                       |                 |                 |  |
| subjects affected / exposed                     | 1 / 213 (0.47%) | 0 / 213 (0.00%) |  |
| occurrences causally related to treatment / all | 0 / 1           | 0 / 0           |  |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           |  |
| Inguinal hernia                                 |                 |                 |  |
| subjects affected / exposed                     | 1 / 213 (0.47%) | 0 / 213 (0.00%) |  |
| occurrences causally related to treatment / all | 0 / 1           | 0 / 0           |  |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           |  |
| Small intestinal obstruction                    |                 |                 |  |
| subjects affected / exposed                     | 0 / 213 (0.00%) | 1 / 213 (0.47%) |  |
| occurrences causally related to treatment / all | 0 / 0           | 0 / 1           |  |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           |  |
| Hepatobiliary disorders                         |                 |                 |  |
| Cholelithiasis                                  |                 |                 |  |
| subjects affected / exposed                     | 1 / 213 (0.47%) | 1 / 213 (0.47%) |  |
| occurrences causally related to treatment / all | 0 / 1           | 0 / 1           |  |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           |  |
| Skin and subcutaneous tissue disorders          |                 |                 |  |
| Dermatitis                                      |                 |                 |  |
| subjects affected / exposed                     | 0 / 213 (0.00%) | 1 / 213 (0.47%) |  |
| occurrences causally related to treatment / all | 0 / 0           | 0 / 1           |  |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           |  |
| Ecchymosis                                      |                 |                 |  |
| subjects affected / exposed                     | 0 / 213 (0.00%) | 1 / 213 (0.47%) |  |
| occurrences causally related to treatment / all | 0 / 0           | 0 / 1           |  |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           |  |
| Renal and urinary disorders                     |                 |                 |  |
| Nephrolithiasis                                 |                 |                 |  |
| subjects affected / exposed                     | 0 / 213 (0.00%) | 2 / 213 (0.94%) |  |
| occurrences causally related to treatment / all | 0 / 0           | 0 / 2           |  |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           |  |
| Bladder disorder                                |                 |                 |  |

|  |                 |                 |  |
|--|-----------------|-----------------|--|
| subjects affected / exposed                            | 0 / 213 (0.00%) | 1 / 213 (0.47%) |  |
| occurrences causally related to treatment / all        | 0 / 0           | 0 / 1           |  |
| deaths causally related to treatment / all             | 0 / 0           | 0 / 0           |  |
| <b>Musculoskeletal and connective tissue disorders</b> |                 |                 |  |
| <b>Osteoarthritis</b>                                  |                 |                 |  |
| subjects affected / exposed                            | 1 / 213 (0.47%) | 1 / 213 (0.47%) |  |
| occurrences causally related to treatment / all        | 0 / 1           | 0 / 1           |  |
| deaths causally related to treatment / all             | 0 / 0           | 0 / 0           |  |
| <b>Osteochondrosis</b>                                 |                 |                 |  |
| subjects affected / exposed                            | 0 / 213 (0.00%) | 1 / 213 (0.47%) |  |
| occurrences causally related to treatment / all        | 0 / 0           | 0 / 1           |  |
| deaths causally related to treatment / all             | 0 / 0           | 0 / 0           |  |
| <b>Polyarthritis</b>                                   |                 |                 |  |
| subjects affected / exposed                            | 1 / 213 (0.47%) | 0 / 213 (0.00%) |  |
| occurrences causally related to treatment / all        | 0 / 1           | 0 / 0           |  |
| deaths causally related to treatment / all             | 0 / 0           | 0 / 0           |  |
| <b>Spinal osteoarthritis</b>                           |                 |                 |  |
| subjects affected / exposed                            | 1 / 213 (0.47%) | 0 / 213 (0.00%) |  |
| occurrences causally related to treatment / all        | 0 / 1           | 0 / 0           |  |
| deaths causally related to treatment / all             | 0 / 0           | 0 / 0           |  |
| <b>Ankle fracture</b>                                  |                 |                 |  |
| subjects affected / exposed                            | 0 / 213 (0.00%) | 1 / 213 (0.47%) |  |
| occurrences causally related to treatment / all        | 0 / 0           | 0 / 1           |  |
| deaths causally related to treatment / all             | 0 / 0           | 0 / 0           |  |
| <b>Contusion</b>                                       |                 |                 |  |
| subjects affected / exposed                            | 1 / 213 (0.47%) | 0 / 213 (0.00%) |  |
| occurrences causally related to treatment / all        | 0 / 1           | 0 / 0           |  |
| deaths causally related to treatment / all             | 0 / 0           | 0 / 0           |  |
| <b>Muscle rupture</b>                                  |                 |                 |  |
| subjects affected / exposed                            | 1 / 213 (0.47%) | 0 / 213 (0.00%) |  |
| occurrences causally related to treatment / all        | 0 / 1           | 0 / 0           |  |
| deaths causally related to treatment / all             | 0 / 0           | 0 / 0           |  |
| <b>Tibia fracture</b>                                  |                 |                 |  |

|   |                 |                 |  |
|---|-----------------|-----------------|--|
| subjects affected / exposed                     | 0 / 213 (0.00%) | 1 / 213 (0.47%) |  |
| occurrences causally related to treatment / all | 0 / 0           | 0 / 1           |  |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           |  |
| <b>Infections and infestations</b>              |                 |                 |  |
| Pneumonia                                       |                 |                 |  |
| subjects affected / exposed                     | 2 / 213 (0.94%) | 2 / 213 (0.94%) |  |
| occurrences causally related to treatment / all | 0 / 2           | 0 / 2           |  |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           |  |
| Erysipelas                                      |                 |                 |  |
| subjects affected / exposed                     | 0 / 213 (0.00%) | 1 / 213 (0.47%) |  |
| occurrences causally related to treatment / all | 0 / 0           | 0 / 1           |  |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           |  |
| Otitis media chronic                            |                 |                 |  |
| subjects affected / exposed                     | 0 / 213 (0.00%) | 1 / 213 (0.47%) |  |
| occurrences causally related to treatment / all | 0 / 0           | 0 / 1           |  |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           |  |
| Pyelonephritis acute                            |                 |                 |  |
| subjects affected / exposed                     | 1 / 213 (0.47%) | 0 / 213 (0.00%) |  |
| occurrences causally related to treatment / all | 0 / 1           | 0 / 0           |  |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           |  |
| <b>Metabolism and nutrition disorders</b>       |                 |                 |  |
| Hyponatremia                                    |                 |                 |  |
| subjects affected / exposed                     | 0 / 213 (0.00%) | 1 / 213 (0.47%) |  |
| occurrences causally related to treatment / all | 0 / 0           | 0 / 1           |  |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           |  |

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

| <b>Non-serious adverse events</b>                      | Bexagliflozin     | Placebo            |  |
|--|-------------------|--------------------|--|
| Total subjects affected by non-serious adverse events  |                   |                    |  |
| subjects affected / exposed                            | 98 / 213 (46.01%) | 112 / 213 (52.58%) |  |
| <b>Musculoskeletal and connective tissue disorders</b> |                   |                    |  |
| Back pain  |                   |                    |  |

|  |                         |                         |  |
|--|-------------------------|-------------------------|--|
| subjects affected / exposed<br>occurrences (all)   | 6 / 213 (2.82%)<br>6    | 16 / 213 (7.51%)<br>16  |  |
| Arthralgia<br>subjects affected / exposed<br>occurrences (all)                           | 13 / 213 (6.10%)<br>13  | 4 / 213 (1.88%)<br>4    |  |
| <b>Infections and infestations</b>   |                         |                         |  |
| Nasopharyngitis<br>subjects affected / exposed<br>occurrences (all)                      | 29 / 213 (13.62%)<br>29 | 29 / 213 (13.62%)<br>29 |  |
| Urinary Tract Infection<br>subjects affected / exposed<br>occurrences (all)              | 25 / 213 (11.74%)<br>25 | 10 / 213 (4.69%)<br>10  |  |
| Bronchitis<br>subjects affected / exposed<br>occurrences (all)                           | 14 / 213 (6.57%)<br>14  | 16 / 213 (7.51%)<br>16  |  |
| <b>Metabolism and nutrition disorders</b>  |                         |                         |  |
| Hypoglycemia<br>subjects affected / exposed<br>occurrences (all)                         | 36 / 213 (16.90%)<br>36 | 71 / 213 (33.33%)<br>71 |  |
| Diabetes mellitus inadequate control<br>subjects affected / exposed<br>occurrences (all) | 1 / 213 (0.47%)<br>1    | 17 / 213 (7.98%)<br>17  |  |

## More information

### Substantial protocol amendments (globally)

Were there any global substantial amendments to the protocol? Yes

| Date            | Amendment  |
|-----------------|--|
| 27 October 2016 | <ol style="list-style-type: none"><li>1. The Sponsor Contact and Medical Monitor were changed.</li><li>2. Language regarding persistent hyperglycemia and up-titration visits was updated to include all scheduled visits instead of only V8 and V9.</li><li>3. Amputation was added to the list of AESI following a potential safety issue of amputation identified from another SGLT2 inhibitor canagliflozin in 2016.</li><li>4. Language regarding OHAs was revised to prevent confusion regarding the number of oral medications that were allowed to be taken.</li><li>5. Metformin was included in the safe use of OHAs to ensure subject safety as subjects were required to be on a stable background of metformin to participate in the study.</li><li>6. Correction of error in protocol to maintain consistency with synopsis inclusion criteria: adhere to the investigational product administration requirements evidenced by missing no more than 2 doses of run-in medications.</li><li>7. Modification to exclusion criteria to include metformin to ensure subject safety as subjects are required to be on a stable background of metformin to participate in the study.</li><li>8. Modification to include any increase in LFTs <math>\geq 3</math> times the ULN be automatically considered as a laboratory AE unless diagnosed otherwise by the investigator. Any increase in LFTs that are <math>&lt; 3</math> times could also be considered as an AE if the change was determined to be clinically significant by investigators.</li><li>9. Languages regarding any amputation and related adverse events and procedures were added in Section 6.14.14. Investigators were reminded to counsel appropriate foot care to avoid cuts or sores and to treat even minor cuts/sores to prevent infection and ulceration. Special attention to be paid for patients who were also receiving thiazide diuretics as these have been shown to increase the risk of amputation in diabetes.</li></ol> |

Notes:

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### Interruptions (globally)

Were there any global interruptions to the trial? No

### Limitations and caveats

None reported