

ClinicalTrials.gov Protocol and Results Registration System (PRS) Receipt  
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## Study Identification

Unique Protocol ID: D1690C00006

Brief Title: Efficacy and Safety of Dapagliflozin, Added to Therapy of Patients With Type 2 Diabetes With Inadequate Glycemic Control on Insulin

Official Title: A 24-week International, Randomized, Parallel-group, Double-blind, Placebo-controlled Phase III Study With a 80-week Extension Period to Evaluate the Efficacy and Safety of Dapagliflozin Therapy When Added to the Therapy of Patients With Type 2 Diabetes With Inadequate Glycaemic Control on Insulin

Secondary IDs:

## Study Status

Record Verification: September 2013

Overall Status: Completed

Study Start: April 2008

Primary Completion: May 2009 [Actual]

Study Completion: January 2011 [Actual]

## Sponsor/Collaborators

Sponsor: AstraZeneca

Responsible Party: Sponsor

Collaborators: Bristol-Myers Squibb

## Oversight

FDA Regulated?: Yes

Applicable Trial?: Section 801 Clinical Trial? Yes  
Delayed Posting? No

IND/IDE Protocol?: No

Review Board: Approval Status: Approved

Approval Number: 3K-33090

Board Name: Ethics Committee in the Federal Body Of a Quality Assurance in Health Care and Social Development Area

Board Affiliation: Ethics Committee in the Federal Body Of a Quality Assurance in Health Care and Social Development Area

Phone: 81-049-5628-2319

Email:

Data Monitoring?: No

Plan to Share Data?:

Oversight Authorities: Austria: Agency for Health and Food Safety

Bulgaria: Ministry of Health

Canada: Health Canada

Finland: Finnish Medicines Agency

Germany: Federal Institute for Drugs and Medical Devices

Hungary: National Institute of Pharmacy

Netherlands: The Central Committee on Research Involving Human Subjects (CCMO)

Romania: National Medicines Agency

Russia: Ministry of Health of the Russian Federation

Slovakia: State Institute for Drug Control

Spain: Spanish Agency of Medicines

United Kingdom: Medicines and Healthcare Products Regulatory Agency

United States: Food and Drug Administration

## Study Description

Brief Summary: This study is being carried out to see if Dapagliflozin in addition to insulin is effective and safe in treating patients with type 2 diabetes when compared to placebo (identical looking inactive treatment) in addition to insulin

Detailed Description:

## Conditions

Conditions: Type 2 Diabetes

Keywords: Dapagliflozin

efficacy  
safety  
add on to insulin  
Oral AntiDiabetic  
Type 2 diabetes

## Study Design

Study Type: Interventional

Primary Purpose: Treatment

Study Phase: Phase 3

Intervention Model: Parallel Assignment

Number of Arms: 4

Masking: Double Blind (Subject, Caregiver, Investigator, Outcomes Assessor)

Allocation: Randomized

Endpoint Classification: Safety/Efficacy Study

Enrollment: 1240 [Actual]

## Arms and Interventions

Arms	Assigned Interventions
Experimental: 1 2.5mg	Drug: Dapagliflozin tablet oral 2.5 mg total daily dose once daily 48 weeks (= 24 week randomised treatment period + 24 week study extension period I) Drug: Dapagliflozin tablet oral 2.5 total daily dose once daily 56 weeks (= 56 week study extension period II)
Experimental: 2 5mg	Drug: Dapagliflozin Tablet oral 5 mg total daily dose once daily 48 weeks (= 24 week randomised treatment period + 24 week study extension period I)
Experimental: 3 10mg	Drug: Dapagliflozin Tablet oral 10 mg total daily dose once daily 48 weeks (= 24 week randomised treatment period + 24 week study extension period I) Drug: Dapagliflozin tablet oral 10 mg total daily dose once daily 56 weeks (= 56 week study extension period II)patients that have been treated with 5 mg during the 24 week randomised treatment period and extension I period will during extension II period switched to 10 mg
Placebo Comparator: 4	Drug: Placebo

Arms

Assigned Interventions

Placebo

## Outcome Measures

[See Results Section.]

## Eligibility

Minimum Age: 18 Years

Maximum Age: 80 Years

Gender: Both

Accepts Healthy Volunteers?: No

Criteria: Inclusion Criteria:

- Type 2 Diabetes
- Patients with HbA1c  $\geq 7.5\%$  and  $\leq 10.5\%$  and who are on a stable insulin regimen of at least 30 IU of injectable insulin per day either without any other oral antidiabetic drug or with a stable dose of oral antidiabetic drugs

Exclusion Criteria:

- Type 1 Diabetes
- Treatment with more than two additional oral antidiabetic drugs
- Moderate and severe renal (kidney) failure or dysfunction

## Contacts/Locations

Study Officials: John Wilding, MD  
Study Principal Investigator  
Clinical Sciences Centre University Hospital Aintree Longmoor Lane Liverpool, UK

Locations: Austria  
Research Site  
Salzburg, Austria

Research Site  
Wien, Austria

Bulgaria  
Research Site  
Pleven, Bulgaria

Research Site  
Russe, Bulgaria

Research Site  
Sofia, Bulgaria

Research Site  
Varna, Bulgaria

Canada, Alberta  
Research Site  
Calgary, Alberta, Canada

Canada, British Columbia  
Research Site  
Kelowna, British Columbia, Canada

Research Site  
Langley, British Columbia, Canada

Canada, Manitoba  
Research Site  
Winnipeg, Manitoba, Canada

Canada, New Brunswick  
Research Site  
Moncton, New Brunswick, Canada

Canada, Newfoundland and Labrador  
Research Site  
Mount Pearl, Newfoundland and Labrador, Canada

Research Site  
St. John's, Newfoundland and Labrador, Canada

Canada, Nova Scotia  
Research Site  
Halifax, Nova Scotia, Canada

Canada, Ontario  
Research Site  
Etobicoke, Ontario, Canada

Research Site  
Kingston, Ontario, Canada

Research Site  
London, Ontario, Canada

Research Site  
Oakville, Ontario, Canada

Research Site  
Scarborough, Ontario, Canada

Research Site  
Thornhill, Ontario, Canada

Canada, Quebec  
Research Site  
Chicoutimi, Quebec, Canada

Research Site  
Longueuil, Quebec, Canada

Research Site  
Mirabel, Quebec, Canada

Research Site  
Sherbrooke, Quebec, Canada

Finland  
Research Site  
Lahti, Finland, Finland

Research Site  
Helsinki, Finland

Research Site  
Joensuu, Finland

Research Site  
Jyvaskyla, Finland

Research Site  
Kuopio, Finland

Research Site  
Oulu, Finland

Research Site  
Seinajoki, Finland

Research Site  
Turku, Finland

Germany  
Research Site  
Bad Oeynhausen, Germany

Research Site  
Dortmund, Germany

Research Site  
Dresden, Germany

Research Site  
Essen, Germany

Research Site  
Frankfurt, Germany

Research Site  
Magdeburg, Germany

Research Site  
Münster, Germany

Research Site  
Riesa, Germany

Research Site  
Wolmirstedt, Germany

United Kingdom  
Research Site  
Reading, Berks, United Kingdom

Research Site  
Aylesbury, Bucks, United Kingdom

Research Site  
Ashford, United Kingdom

Research Site  
Birmingham, United Kingdom

Research Site  
Cardiff, United Kingdom

Research Site  
Liverpool, United Kingdom

Research Site  
Reading, United Kingdom

Research Site  
Swansea, United Kingdom

Hungary  
Research Site  
Csongrad, Hungary

Research Site  
Esztergom, Hungary

Research Site  
Gyor, Hungary

Research Site  
Kaposvar, Hungary

Research Site  
Kecskemet, Hungary

Research Site  
Komarom, Hungary

Research Site  
Miskolc, Hungary

Research Site  
Szekesfehervar, Hungary

Research Site  
Veszprem, Hungary

Netherlands  
Research Site  
Amersfoort, Netherlands

Research Site  
Den Helder, Netherlands

Research Site  
Leiden, Netherlands

Research Site  
Rotterdam, Netherlands

Romania  
Research Site  
Brasov, Brasov, Romania

Research Site  
Tg Mures, Mures, Romania

Research Site  
Bucuresti, Romania

Russian Federation  
Research Site  
Moscow, Russian Federation

Research Site  
Nizhnii Novgorod, Russian Federation

Research Site  
Saint- Petersburg, Russian Federation

Research Site  
St Petersburg, Russian Federation

Research Site  
St. Petersburg, Russian Federation

Research Site  
St.petersburg, Russian Federation

Research Site  
St.-petersburg, Russian Federation

Slovakia  
Research Site  
Kosice, Slovakia

Research Site  
Bratislava, Slovakia

Research Site  
Dolny Kubin, Slovakia

Research Site

Levice, Slovakia

Research Site

Lucenec, Slovakia

Research Site

Povazska Bystrica, Slovakia

Research Site

Presov, Slovakia

Spain

Research Site

Sevilla, Andalucia, Spain

Research Site

Sabadell (barcelona), Cataluna, Spain

Research Site

Madrid, Comunidad de Madrid, Spain

Research Site

Alicante, Comunidad Valenciana, Spain

United States, California

Research Site

Fresno, California, United States

Research Site

Greenbrae, California, United States

United States, Georgia

Research Site

Roswell, Georgia, United States

United States, Illinois

Research Site

Chicago, Illinois, United States

Research Site

Springfield, Illinois, United States

United States, Indiana

Research Site

Indianapolis, Indiana, United States

United States, Nebraska  
Research Site  
Omaha, Nebraska, United States

United States, Pennsylvania  
Research Site  
Philadelphia, Pennsylvania, United States

United States, Texas  
Research Site  
Corpus Christi, Texas, United States

Research Site  
Dallas, Texas, United States

United States, Virginia  
Research Site  
Norfolk, Virginia, United States

Research Site  
Richmond, Virginia, United States

United States, Washington  
Research Site  
Tacoma, Washington, United States

## References

Citations:

Links:

Study Data/Documents:

## Study Results

### Participant Flow

Recruitment Details	First participant enrolled: 30 April 2008, Last participant completed 24 week period: 19 May 2009. 1240 enrolled at 126 centres in 13 countries. Men and women aged $\geq 18$ - $\leq 80$ years at time of consenting who have inadequate glycaemic control (HbA1c $\geq 7.5\%$ and $\leq 10.5\%$ ) and are on a stable insulin regimen ( $\geq 30$ IU of injectable insulin per day for 8 weeks).
Pre-Assignment Details	For two weeks prior to randomization, participants recorded their daily self monitored plasma glucose and insulin use. At randomization, qualified participants were stratified according to their use of other anti-diabetic (OAD) medication or not. No more than 60% of enrolled participants were to take insulin plus OADs.

### Reporting Groups

	Description
Placebo	Placebo
Dapagliflozin 2.5mg	Dapagliflozin tablet oral 2.5 mg total daily dose once daily 24 weeks
Dapagliflozin 5mg	Dapagliflozin tablet oral 5 mg total daily dose once daily 24 weeks
Dapagliflozin 10mg	Dapagliflozin tablet oral 10 mg total daily dose once daily 24 weeks

### Overall Study

	Placebo	Dapagliflozin 2.5mg	Dapagliflozin 5mg	Dapagliflozin 10mg
Started	197 <sup>[1]</sup>	202 <sup>[2]</sup>	212 <sup>[3]</sup>	196 <sup>[4]</sup>
Completed	168	180	186	178
Not Completed	29	22	26	18
Withdrawal by Subject	14	10	8	6
Adverse Event	6	5	9	6
Lost to Follow-up	1	2	1	2
Death	0	0	1	0
Study criteria, compliance, safety, other	8	5	7	4

[1] Of the 197 randomized participants only 193 were included in the full analysis set

[2] All 202 were included in the full analysis set

[3] Of the 212 randomized participants only 211 were included in the full analysis set

[4] Of the 196 randomized participants only 194 were included in the full analysis set

## ▶ Baseline Characteristics

### Analysis Population Description

Full Analysis Set defined as all randomized participants (as randomized) who received at least one dose of double-blind study medication, who have a non-missing baseline value and at least one post-baseline efficacy value for at least one efficacy variable during double-blind treatment period.

### Reporting Groups

	Description
Placebo	Placebo
Dapagliflozin 2.5mg	Dapagliflozin tablet oral 2.5 mg total daily dose once daily 24 weeks
Dapagliflozin 5mg	Dapagliflozin tablet oral 5 mg total daily dose once daily 24 weeks
Dapagliflozin 10mg	Dapagliflozin tablet oral 10 mg total daily dose once daily 24 weeks

### Baseline Measures

	Placebo	Dapagliflozin 2.5mg	Dapagliflozin 5mg	Dapagliflozin 10mg	Total
Number of Participants	193	202	211	194	800
Age, Continuous [units: Years] Mean (Standard Deviation)	58.8 (8.61)	59.8 (7.64)	59.3 (7.91)	59.3 (8.75)	59.3 (8.22)
Gender, Male/Female [units: Participants]					
Female	98	102	111	107	418
Male	95	100	100	87	382
Race/Ethnicity, Customized [units: Participants]					
White	186	190	200	184	760
Black/African American	6	3	5	5	19
Asian	0	7	3	3	13
Other	1	2	3	2	8
Body Mass Index [units: kg/m <sup>2</sup> ] Mean (Standard Deviation)	33.14 (5.862)	32.95 (5.032)	32.97 (5.261)	33.41 (5.061)	33.11 (5.303)
HbA1C [units: Percent] Mean (Standard Deviation)	8.47 (0.768)	8.46 (0.780)	8.62 (0.892)	8.57 (0.820)	8.53 (0.819)

	Placebo	Dapagliflozin 2.5mg	Dapagliflozin 5mg	Dapagliflozin 10mg	Total
Fasting plasma glucose [units: mg/dl] Mean (Standard Deviation)	170.62 (57.165)	180.11 (59.9)	185.38 (58.712)	173.09 (54.916)	177.58 (57.950)

## Outcome Measures

### 1. Primary Outcome Measure:

Measure Title	Adjusted Mean Change in HbA1c Levels
Measure Description	To assess the efficacy of 2.5 mg, 5 mg and 10 mg dapagliflozin compared to placebo as add-on therapy to insulin in improving glycaemic control in participants with type 2 diabetes who have inadequate glycaemic control on $\geq 30$ IU injectable insulin daily for at least 8 weeks prior to enrolment, as determined by the change in HbA1c levels from baseline to Week 24, excluding data after insulin up-titration.
Time Frame	Baseline to Week 24
Safety Issue?	No

### Analysis Population Description

Full Analysis Set, participants with non-missing baseline and Week 24 (LOCF) values

### Reporting Groups

	Description
Placebo	Placebo
Dapagliflozin 2.5mg	Dapagliflozin tablet oral 2.5 mg total daily dose once daily 24 weeks
Dapagliflozin 5mg	Dapagliflozin tablet oral 5 mg total daily dose once daily 24 weeks
Dapagliflozin 10mg	Dapagliflozin tablet oral 10 mg total daily dose once daily 24 weeks

### Measured Values

	Placebo	Dapagliflozin 2.5mg	Dapagliflozin 5mg	Dapagliflozin 10mg
Number of Participants Analyzed	188	198	210	192
Adjusted Mean Change in HbA1c Levels [units: Percent] Least Squares Mean (95% Confidence Interval)	-0.30 (-0.40 to -0.20)	-0.75 (-0.85 to -0.65)	-0.82 (-0.92 to -0.73)	-0.90 (-1.00 to -0.80)

Statistical Analysis 1 for Adjusted Mean Change in HbA1c Levels

Statistical Analysis Overview	Comparison Groups	Placebo, Dapagliflozin 2.5mg
	Comments	The null hypothesis is given as $H_0: \text{mean}(\text{treat}) - \text{mean}(\text{placebo}) = 0$ versus $H_A: \text{mean}(\text{treat}) - \text{mean}(\text{placebo}) \neq 0$ (with $\alpha = 0.019$ applying Dunnett's adjustment, two-sided)
	Non-Inferiority or Equivalence Analysis?	No
	Comments	[Not specified]

Statistical Test of Hypothesis	P-Value	<0.0001
	Comments	significant at $\alpha=0.019$ (2-sided) applying Dunnett's adjustment. A hierarchical closed testing procedure was used to control the Type I error rate across the primary and key secondary endpoints.
	Method	ANCOVA
	Comments	with treatment group (all treatment groups included) and stratum (other oral anti-diabetic med use) as effect and baseline value as covariate.

Method of Estimation	Estimation Parameter	Mean Difference (Final Values)
	Estimated Value	-0.45
	Confidence Interval	(2-Sided) 95% -0.59 to -0.31
	Parameter Dispersion	Type: Standard Error of the mean Value: 0.0726
	Estimation Comments	[Not specified]

Statistical Analysis 2 for Adjusted Mean Change in HbA1c Levels

Statistical Analysis Overview	Comparison Groups	Placebo, Dapagliflozin 5mg
	Comments	The null hypothesis is given as $H_0: \text{mean}(\text{treat}) - \text{mean}(\text{placebo}) = 0$ versus $H_A: \text{mean}(\text{treat}) - \text{mean}(\text{placebo}) \neq 0$ (with $\alpha = 0.019$ applying Dunnett's adjustment, two-sided)
	Non-Inferiority or Equivalence Analysis?	No
	Comments	[Not specified]

Statistical Test of Hypothesis	P-Value	<0.0001
	Comments	significant at alpha=0.019 (2-sided) applying Dunnett's adjustment. A hierarchical closed testing procedure was used to control the Type I error rate across the primary and key secondary endpoints.
	Method	ANCOVA
	Comments	with treatment group (all treatment groups included) and stratum (other oral anti-diabetic med use) as effect and baseline value as covariate.

Method of Estimation	Estimation Parameter	Mean Difference (Final Values)
	Estimated Value	-0.52
	Confidence Interval	(2-Sided) 95% -0.66 to -0.38
	Parameter Dispersion	Type: Standard Error of the mean Value: 0.0718
	Estimation Comments	[Not specified]

#### Statistical Analysis 3 for Adjusted Mean Change in HbA1c Levels

Statistical Analysis Overview	Comparison Groups	Placebo, Dapagliflozin 10mg
	Comments	The null hypothesis is given as $H_0: \text{mean}(\text{treat}) - \text{mean}(\text{placebo}) = 0$ versus $H_A: \text{mean}(\text{treat}) - \text{mean}(\text{placebo}) \neq 0$ (with alpha = 0.019 applying Dunnett's adjustment, two-sided)
	Non-Inferiority or Equivalence Analysis?	No
	Comments	[Not specified]

Statistical Test of Hypothesis	P-Value	<0.0001
	Comments	significant at alpha=0.019 (2-sided) applying Dunnett's adjustment. A hierarchical closed testing procedure was used to control the Type I error rate across the primary and key secondary endpoints.
	Method	ANCOVA
	Comments	with treatment group (all treatment groups included) and stratum (other oral anti-diabetic med use) as effect and baseline value as covariate.

Method of Estimation	Estimation Parameter	Mean Difference (Final Values)
	Estimated Value	-0.60

Confidence Interval	(2-Sided) 95% -0.74 to -0.45
Parameter Dispersion	Type: Standard Error of the mean Value: 0.0733
Estimation Comments	[Not specified]

## 2. Secondary Outcome Measure:

Measure Title	Adjusted Mean Change in Body Weight
Measure Description	To examine whether treatment with dapagliflozin in combination with insulin is superior in reducing body weight or causing less weight gain as compared to placebo added to insulin treatment after 24 weeks of treatment (LOCF), excluding data after insulin up-titration.
Time Frame	Baseline to Week 24
Safety Issue?	No

### Analysis Population Description

Full Analysis Set, participants with non-missing baseline and Week 24 (LOCF) values

### Reporting Groups

	Description
Placebo	Placebo
Dapagliflozin 2.5mg	Dapagliflozin tablet oral 2.5 mg total daily dose once daily 24 weeks
Dapagliflozin 5mg	Dapagliflozin tablet oral 5 mg total daily dose once daily 24 weeks
Dapagliflozin 10mg	Dapagliflozin tablet oral 10 mg total daily dose once daily 24 weeks

### Measured Values

	Placebo	Dapagliflozin 2.5mg	Dapagliflozin 5mg	Dapagliflozin 10mg
Number of Participants Analyzed	188	198	210	192
Adjusted Mean Change in Body Weight [units: kg] Least Squares Mean (95% Confidence Interval)	0.02 (-0.34 to 0.38)	-0.98 (-1.33 to -0.63)	-0.98 (-1.32 to -0.64)	-1.67 (-2.02 to -1.31)

Statistical Analysis 1 for Adjusted Mean Change in Body Weight

Statistical Analysis Overview	Comparison Groups	Placebo, Dapagliflozin 2.5mg
	Comments	The null hypothesis is given as $H_0: \text{mean}(\text{treat}) - \text{mean}(\text{placebo}) = 0$ versus $H_A: \text{mean}(\text{treat}) - \text{mean}(\text{placebo}) \neq 0$
	Non-Inferiority or Equivalence Analysis?	No
	Comments	[Not specified]

Statistical Test of Hypothesis	P-Value	0.0001
	Comments	significant at $\alpha=0.05$ (2-sided). Primary and key secondary endpoints are tested following a hierarchical closed testing procedure within treatment group.
	Method	ANCOVA
	Comments	with treatment group (all treatment groups included) and stratum (other oral anti-diabetic med use) as effect and baseline value as covariate.

Method of Estimation	Estimation Parameter	Mean Difference (Final Values)
	Estimated Value	-1.00
	Confidence Interval	(2-Sided) 95% -1.50 to -0.49
	Parameter Dispersion	Type: Standard Error of the mean Value: 0.2560
	Estimation Comments	[Not specified]

Statistical Analysis 2 for Adjusted Mean Change in Body Weight

Statistical Analysis Overview	Comparison Groups	Placebo, Dapagliflozin 5mg
	Comments	The null hypothesis is given as $H_0: \text{mean}(\text{treat}) - \text{mean}(\text{placebo}) = 0$ versus $H_A: \text{mean}(\text{treat}) - \text{mean}(\text{placebo}) \neq 0$
	Non-Inferiority or Equivalence Analysis?	No
	Comments	[Not specified]

Statistical Test of Hypothesis	P-Value	<0.0001
	Comments	significant at $\alpha=0.05$ (2-sided). Primary and key secondary endpoints are tested following a hierarchical closed testing procedure within treatment group.
	Method	ANCOVA

	Comments	[Not specified]
Method of Estimation	Estimation Parameter	Mean Difference (Final Values)
	Estimated Value	-1.00
	Confidence Interval	(2-Sided) 95% -1.50 to -0.50
	Parameter Dispersion	Type: Standard Error of the mean Value: 0.2523
	Estimation Comments	[Not specified]

Statistical Analysis 3 for Adjusted Mean Change in Body Weight

Statistical Analysis Overview	Comparison Groups	Placebo, Dapagliflozin 10mg
	Comments	The null hypothesis is given as $H_0: \text{mean}(\text{treat}) - \text{mean}(\text{placebo}) = 0$ versus $H_A: \text{mean}(\text{treat}) - \text{mean}(\text{placebo}) \neq 0$
	Non-Inferiority or Equivalence Analysis?	No
	Comments	[Not specified]

Statistical Test of Hypothesis	P-Value	<0.0001
	Comments	significant at $\alpha=0.05$ (2-sided). Primary and key secondary endpoints are tested following a hierarchical closed testing procedure within treatment group.
	Method	ANCOVA
	Comments	with treatment group (all treatment groups included) and stratum (other oral anti-diabetic med use) as effect and baseline value as covariate.

Method of Estimation	Estimation Parameter	Mean Difference (Final Values)
	Estimated Value	-1.68
	Confidence Interval	(2-Sided) 95% -2.19 to -1.18
	Parameter Dispersion	Type: Standard Error of the mean Value: 0.2578
	Estimation Comments	[Not specified]

### 3. Secondary Outcome Measure:

Measure Title	Adjusted Mean Change in Calculated Mean Daily Insulin Dose
Measure Description	To examine whether treatment with dapagliflozin in combination with insulin leads to a lower absolute calculated mean daily insulin dose as compared to placebo added to insulin treatment alone, from baseline to week 24, including data after insulin up-titration.
Time Frame	Baseline to Week 24
Safety Issue?	No

#### Analysis Population Description

Full Analysis Set, participants with non-missing baseline and Week 24 (LOCF) values

#### Reporting Groups

	Description
Placebo	Placebo
Dapagliflozin 2.5mg	Dapagliflozin tablet oral 2.5 mg total daily dose once daily 24 weeks
Dapagliflozin 5mg	Dapagliflozin tablet oral 5 mg total daily dose once daily 24 weeks
Dapagliflozin 10mg	Dapagliflozin tablet oral 10 mg total daily dose once daily 24 weeks

#### Measured Values

	Placebo	Dapagliflozin 2.5mg	Dapagliflozin 5mg	Dapagliflozin 10mg
Number of Participants Analyzed	191	200	209	194
Adjusted Mean Change in Calculated Mean Daily Insulin Dose [units: IU/day] Least Squares Mean (95% Confidence Interval)	5.08 (3.23 to 6.93)	-1.80 (-3.60 to 0.01)	-0.61 (-2.38 to 1.15)	-1.16 (-2.99 to 0.68)

#### Statistical Analysis 1 for Adjusted Mean Change in Calculated Mean Daily Insulin Dose

Statistical Analysis Overview	Comparison Groups	Placebo, Dapagliflozin 2.5mg
	Comments	The null hypothesis is given as $H_0: \text{mean}(\text{treat}) - \text{mean}(\text{placebo}) = 0$ versus $H_A: \text{mean}(\text{treat}) - \text{mean}(\text{placebo}) \neq 0$
	Non-Inferiority or Equivalence Analysis?	No
	Comments	[Not specified]

Statistical Test of Hypothesis	P-Value	<0.0001
	Comments	significant at alpha=0.05 (2-sided). Primary and key secondary endpoints are tested following a hierarchical closed testing procedure within treatment group.
	Method	ANCOVA
	Comments	with treatment group (all treatment groups included) and stratum (other oral anti-diabetic med use) as effect and baseline value as covariate.

Method of Estimation	Estimation Parameter	Mean Difference (Final Values)
	Estimated Value	-6.87
	Confidence Interval	(2-Sided) 95% -9.46 to -4.28
	Parameter Dispersion	Type: Standard Error of the mean Value: 1.3195
	Estimation Comments	[Not specified]

Statistical Analysis 2 for Adjusted Mean Change in Calculated Mean Daily Insulin Dose

Statistical Analysis Overview	Comparison Groups	Placebo, Dapagliflozin 5mg
	Comments	The null hypothesis is given as $H_0: \text{mean}(\text{treat}) - \text{mean}(\text{placebo}) = 0$ versus $H_A: \text{mean}(\text{treat}) - \text{mean}(\text{placebo}) \neq 0$
	Non-Inferiority or Equivalence Analysis?	No
	Comments	[Not specified]

Statistical Test of Hypothesis	P-Value	<0.0001
	Comments	significant at alpha=0.05 (2-sided). Primary and key secondary endpoints are tested following a hierarchical closed testing procedure within treatment group.
	Method	ANCOVA
	Comments	with treatment group (all treatment groups included) and stratum (other oral anti-diabetic med use) as effect and baseline value as covariate.

Method of Estimation	Estimation Parameter	Mean Difference (Final Values)
	Estimated Value	-5.69
	Confidence Interval	(2-Sided) 95% -8.25 to -3.13
	Parameter Dispersion	Type: Standard Error of the mean

		Value: 1.3045
	Estimation Comments	[Not specified]

#### Statistical Analysis 3 for Adjusted Mean Change in Calculated Mean Daily Insulin Dose

Statistical Analysis Overview	Comparison Groups	Placebo, Dapagliflozin 10mg
	Comments	The null hypothesis is given as $H_0$ : mean(treat) minus mean(placebo) = 0 versus $H_A$ : mean(treat) minus mean(placebo) $\neq$ 0
	Non-Inferiority or Equivalence Analysis?	No
	Comments	[Not specified]

Statistical Test of Hypothesis	P-Value	<0.0001
	Comments	significant at alpha=0.05 (2-sided). Primary and key secondary endpoints are tested following a hierarchical closed testing procedure within treatment group.
	Method	ANCOVA
	Comments	with treatment group (all treatment groups included) and stratum (other oral anti-diabetic med use) as effect and baseline value as covariate.

Method of Estimation	Estimation Parameter	Mean Difference (Final Values)
	Estimated Value	-6.23
	Confidence Interval	(2-Sided) 95% -8.84 to -3.63
	Parameter Dispersion	Type: Standard Error of the mean Value: 1.3286
	Estimation Comments	[Not specified]

#### 4. Secondary Outcome Measure:

Measure Title	Proportion of Participants With Calculated Mean Daily Insulin Dose Reduction
Measure Description	To examine whether treatment with dapagliflozin in combination with insulin leads to higher percentage of participants with calculated mean daily insulin dose reduction from baseline to week 24 (i.e. reduction $\geq$ 10%) as compared to placebo added to insulin treatment.
Time Frame	Baseline to Week 24
Safety Issue?	No

Analysis Population Description

Full Analysis Set, participants with non-missing baseline and Week 24 (LOCF) values

Reporting Groups

	Description
Placebo	Placebo
Dapagliflozin 2.5mg	Dapagliflozin tablet oral 2.5 mg total daily dose once daily 24 weeks
Dapagliflozin 5mg	Dapagliflozin tablet oral 5 mg total daily dose once daily 24 weeks
Dapagliflozin 10mg	Dapagliflozin tablet oral 10 mg total daily dose once daily 24 weeks

Measured Values

	Placebo	Dapagliflozin 2.5mg	Dapagliflozin 5mg	Dapagliflozin 10mg
Number of Participants Analyzed	191	200	209	194
Proportion of Participants With Calculated Mean Daily Insulin Dose Reduction [units: Percentage of participants] Least Squares Mean (95% Confidence Interval)	11.0 (6.5 to 15.4)	18.1 (12.8 to 23.4)	16.8 (11.7 to 21.8)	19.7 (14.1 to 25.2)

Statistical Analysis 1 for Proportion of Participants With Calculated Mean Daily Insulin Dose Reduction

Statistical Analysis Overview	Comparison Groups	Placebo, Dapagliflozin 2.5mg
	Comments	H0: proportion(treat) minus proportion(placebo) = 0 versus the alternative HA: proportion(treat) minus proportion(placebo) $\neq$ 0
	Non-Inferiority or Equivalence Analysis?	No
	Comments	[Not specified]
Statistical Test of Hypothesis	P-Value	0.0427
	Comments	significant at alpha=0.05 (2-sided). Primary and key secondary endpoints are tested following a hierarchical closed testing procedure within treatment group.
	Method	Regression, Logistic
	Comments	Methodology of Zhang, Tsiatis & Davidian and Davidian, Tsiatis, Zhang & Lu, adjustment for stratum (other oral anti-diab med use) and baseline value.
Method of Estimation	Estimation Parameter	Risk Difference (RD)

	Estimated Value	7.2
	Confidence Interval	(2-Sided) 95% 0.2 to 14.1
	Parameter Dispersion	Type: Standard Error of the mean Value: 3.536
	Estimation Comments	[Not specified]

Statistical Analysis 2 for Proportion of Participants With Calculated Mean Daily Insulin Dose Reduction

Statistical Analysis Overview	Comparison Groups	Placebo, Dapagliflozin 5mg
	Comments	H0: proportion(treat) minus proportion(placebo) = 0 versus the alternative HA: proportion(treat) minus proportion(placebo) $\neq$ 0
	Non-Inferiority or Equivalence Analysis?	No
	Comments	[Not specified]

Statistical Test of Hypothesis	P-Value	0.0903
	Comments	not significant at alpha=0.05 (2-sided). Primary and key secondary endpoints are tested following a hierarchical closed testing procedure within treatment group.
	Method	Regression, Logistic
	Comments	Methodology of Zhang, Tsiatis & Davidian and Davidian, Tsiatis, Zhang & Lu, adjustment for stratum (other oral anti-diab med use) and baseline value.

Method of Estimation	Estimation Parameter	Risk Difference (RD)
	Estimated Value	5.8
	Confidence Interval	(2-Sided) 95% -0.9 to 12.5
	Parameter Dispersion	Type: Standard Error of the mean Value: 3.434
	Estimation Comments	[Not specified]

Statistical Analysis 3 for Proportion of Participants With Calculated Mean Daily Insulin Dose Reduction

Statistical Analysis Overview	Comparison Groups	Placebo, Dapagliflozin 10mg
	Comments	H0: proportion(treat) minus proportion(placebo) = 0 versus the alternative HA: proportion(treat) minus proportion(placebo) $\neq$ 0

	Non-Inferiority or Equivalence Analysis?	No
	Comments	[Not specified]
Statistical Test of Hypothesis	P-Value	0.0166
	Comments	significant at alpha=0.05 (2-sided). Primary and key secondary endpoints are tested following a hierarchical closed testing procedure within treatment group.
	Method	Regression, Logistic
	Comments	Methodology of Zhang, Tsiatis & Davidian and Davidian, Tsiatis, Zhang & Lu, adjustment for stratum (other oral anti-diab med use) and baseline value.
Method of Estimation	Estimation Parameter	Risk Difference (RD)
	Estimated Value	8.7
	Confidence Interval	(2-Sided) 95% 1.6 to 15.8
	Parameter Dispersion	Type: Standard Error of the mean Value: 3.634
	Estimation Comments	[Not specified]

#### 5. Secondary Outcome Measure:

Measure Title	Adjusted Mean Change in Fasting Plasma Glucose (FPG)
Measure Description	To examine whether treatment with dapagliflozin in combination with insulin is superior in reducing Fasting Plasma Glucose (FPG) as compared to placebo added to insulin treatment after 24 weeks of treatment, excluding data after insulin up-titration.
Time Frame	Baseline to Week 24
Safety Issue?	No

#### Analysis Population Description

Full Analysis Set, participants with non-missing baseline and Week 24 (LOCF) values

#### Reporting Groups

	Description
Placebo	Placebo
Dapagliflozin 2.5mg	Dapagliflozin tablet oral 2.5 mg total daily dose once daily 24 weeks

	Description
Dapagliflozin 5mg	Dapagliflozin tablet oral 5 mg total daily dose once daily 24 weeks
Dapagliflozin 10mg	Dapagliflozin tablet oral 10 mg total daily dose once daily 24 weeks

#### Measured Values

	Placebo	Dapagliflozin 2.5mg	Dapagliflozin 5mg	Dapagliflozin 10mg
Number of Participants Analyzed	177	190	204	183
Adjusted Mean Change in Fasting Plasma Glucose (FPG) [units: mg/dL] Least Squares Mean (95% Confidence Interval)	3.3 (-3.3 to 9.9)	-12.5 (-18.9 to -6.1)	-18.8 (-25.0 to -12.7)	-21.7 (-28.2 to -15.2)

#### Statistical Analysis 1 for Adjusted Mean Change in Fasting Plasma Glucose (FPG)

Statistical Analysis Overview	Comparison Groups	Placebo, Dapagliflozin 2.5mg
	Comments	The null hypothesis is given as $H_0: \text{mean}(\text{treat}) - \text{mean}(\text{placebo}) = 0$ versus $H_A: \text{mean}(\text{treat}) - \text{mean}(\text{placebo}) \neq 0$
	Non-Inferiority or Equivalence Analysis?	No
	Comments	[Not specified]

Statistical Test of Hypothesis	P-Value	0.0008
	Comments	significant at $\alpha=0.05$ (2-sided). Primary and key secondary endpoints are tested following a hierarchical closed testing procedure within treatment group.
	Method	ANCOVA
	Comments	with treatment group (all treatment groups included) and stratum (other oral anti-diabetic med use) as effect and baseline value as covariate.

Method of Estimation	Estimation Parameter	Mean Difference (Final Values)
	Estimated Value	-15.8
	Confidence Interval	(2-Sided) 95% -25.0 to -6.6
	Parameter Dispersion	Type: Standard Error of the mean Value: 4.684
	Estimation Comments	[Not specified]

Statistical Analysis 2 for Adjusted Mean Change in Fasting Plasma Glucose (FPG)

Statistical Analysis Overview	Comparison Groups	Placebo, Dapagliflozin 5mg
	Comments	The null hypothesis is given as $H_0: \text{mean}(\text{treat}) - \text{mean}(\text{placebo}) = 0$ versus $H_A: \text{mean}(\text{treat}) - \text{mean}(\text{placebo}) \neq 0$
	Non-Inferiority or Equivalence Analysis?	No
	Comments	[Not specified]

Statistical Test of Hypothesis	P-Value	
	Comments	Not significant. Hierarchical closed testing procedure within treatment group stopped at previous endpoint.
	Method	ANCOVA
	Comments	with treatment group (all treatment groups included) and stratum (other oral anti-diabetic med use) as effect and baseline value as covariate.

Method of Estimation	Estimation Parameter	Mean Difference (Final Values)
	Estimated Value	-22.1
	Confidence Interval	(2-Sided) 95% -31.2 to -13.1
	Parameter Dispersion	Type: Standard Error of the mean Value: 4.616
	Estimation Comments	[Not specified]

Statistical Analysis 3 for Adjusted Mean Change in Fasting Plasma Glucose (FPG)

Statistical Analysis Overview	Comparison Groups	Placebo, Dapagliflozin 10mg
	Comments	The null hypothesis is given as $H_0: \text{mean}(\text{treat}) - \text{mean}(\text{placebo}) = 0$ versus $H_A: \text{mean}(\text{treat}) - \text{mean}(\text{placebo}) \neq 0$
	Non-Inferiority or Equivalence Analysis?	No
	Comments	[Not specified]

Statistical Test of Hypothesis	P-Value	<0.0001
	Comments	significant at $\alpha=0.05$ (2-sided). Primary and key secondary endpoints are tested following a hierarchical closed testing procedure within treatment group.

	Method	ANCOVA
	Comments	with treatment group (all treatment groups included) and stratum (other oral anti-diabetic med use) as effect and baseline value as covariate.
Method of Estimation	Estimation Parameter	Mean Difference (Final Values)
	Estimated Value	-25.0
	Confidence Interval	(2-Sided) 95% -34.3 to -15.8
	Parameter Dispersion	Type: Standard Error of the mean Value: 4.718
	Estimation Comments	[Not specified]

6. Other Pre-specified Outcome Measure:

Measure Title	Proportion of Participants With Lack of Glycemic Control
Measure Description	Participants with lack of glycemic control or insulin up-titration for failing to achieve pre-specified glycemic targets
Time Frame	Baseline to Week 24
Safety Issue?	No

Analysis Population Description  
Full Analysis Set

Reporting Groups

	Description
Placebo	Placebo
Dapagliflozin 2.5mg	Dapagliflozin tablet oral 2.5 mg total daily dose once daily 24 weeks
Dapagliflozin 5mg	Dapagliflozin tablet oral 5 mg total daily dose once daily 24 weeks
Dapagliflozin 10mg	Dapagliflozin tablet oral 10 mg total daily dose once daily 24 weeks

Measured Values

	Placebo	Dapagliflozin 2.5mg	Dapagliflozin 5mg	Dapagliflozin 10mg
Number of Participants Analyzed	193	202	211	194
Proportion of Participants With Lack of Glycemic Control [units: Participants]	54	22	24	19

## ▶ Reported Adverse Events

Time Frame	Non-serious/serious adverse events on or after the first day and on or prior to the last day of the 24-week double-blind treatment period plus 4/30 days or up to follow-up visit if earlier, or up to and incl the start date of extension period if earlier.
Additional Description	Participants were questioned at each study visit about the occurrence of any health problems and any examination conducted at a study visit was assessed in comparison to the status at study entry.

### Reporting Groups

	Description
Placebo	Placebo
Dapagliflozin 2.5mg	Dapagliflozin tablet oral 2.5 mg total daily dose once daily 24 weeks
Dapagliflozin 5mg	Dapagliflozin tablet oral 5 mg total daily dose once daily 24 weeks
Dapagliflozin 10mg	Dapagliflozin tablet oral 10 mg total daily dose once daily 24 weeks

### Serious Adverse Events

	Placebo	Dapagliflozin 2.5mg	Dapagliflozin 5mg	Dapagliflozin 10mg
	Affected/At Risk (%)	Affected/At Risk (%)	Affected/At Risk (%)	Affected/At Risk (%)
Total	14/197 (7.11%)	15/202 (7.43%)	10/212 (4.72%)	14/196 (7.14%)
Cardiac disorders				
Angina Pectoris <sup>A</sup> †	0/197 (0%)	1/202 (0.5%)	1/212 (0.47%)	0/196 (0%)
Atrial Fibrillation <sup>A</sup> †	1/197 (0.51%)	0/202 (0%)	0/212 (0%)	0/196 (0%)
Cardiogenic Shock <sup>A</sup> †	0/197 (0%)	0/202 (0%)	1/212 (0.47%)	0/196 (0%)
Sick Sinus Syndrome <sup>A</sup> †	0/197 (0%)	1/202 (0.5%)	0/212 (0%)	0/196 (0%)
Ear and labyrinth disorders				
Vertigo Positional <sup>A</sup> †	2/197 (1.02%)	1/202 (0.5%)	0/212 (0%)	0/196 (0%)
Eye disorders				

	Placebo	Dapagliflozin 2.5mg	Dapagliflozin 5mg	Dapagliflozin 10mg
	Affected/At Risk (%)	Affected/At Risk (%)	Affected/At Risk (%)	Affected/At Risk (%)
Glaucoma <sup>A</sup> †	0/197 (0%)	1/202 (0.5%)	0/212 (0%)	0/196 (0%)
Gastrointestinal disorders				
Change Of Bowel Habit <sup>A</sup> †	0/197 (0%)	0/202 (0%)	1/212 (0.47%)	0/196 (0%)
Constipation <sup>A</sup> †	0/197 (0%)	0/202 (0%)	0/212 (0%)	1/196 (0.51%)
Small Intestinal Obstruction <sup>A</sup> †	0/197 (0%)	1/202 (0.5%)	0/212 (0%)	0/196 (0%)
General disorders				
Non-Cardiac Chest Pain <sup>A</sup> †	0/197 (0%)	1/202 (0.5%)	0/212 (0%)	0/196 (0%)
Hepatobiliary disorders				
Cholelithiasis <sup>A</sup> †	0/197 (0%)	1/202 (0.5%)	0/212 (0%)	0/196 (0%)
Infections and infestations				
Abscess Limb <sup>A</sup> †	0/197 (0%)	0/202 (0%)	0/212 (0%)	1/196 (0.51%)
Ear Infection <sup>A</sup> †	0/197 (0%)	1/202 (0.5%)	0/212 (0%)	0/196 (0%)
Erysipelas <sup>A</sup> †	0/197 (0%)	0/202 (0%)	1/212 (0.47%)	0/196 (0%)
Laryngitis <sup>A</sup> †	1/197 (0.51%)	0/202 (0%)	0/212 (0%)	0/196 (0%)
Pneumonia <sup>A</sup> †	0/197 (0%)	0/202 (0%)	0/212 (0%)	2/196 (1.02%)
Injury, poisoning and procedural complications				
Ankle Fracture <sup>A</sup> †	1/197 (0.51%)	0/202 (0%)	0/212 (0%)	1/196 (0.51%)
Dislocation Of Joint Prosthesis <sup>A</sup> †	0/197 (0%)	0/202 (0%)	1/212 (0.47%)	0/196 (0%)
Fall <sup>A</sup> †	0/197 (0%)	0/202 (0%)	0/212 (0%)	1/196 (0.51%)
Hip Fracture <sup>A</sup> †	0/197 (0%)	0/202 (0%)	0/212 (0%)	1/196 (0.51%)
Thrombosis In Device <sup>A</sup> †	0/197 (0%)	0/202 (0%)	1/212 (0.47%)	0/196 (0%)
Tibia Fracture <sup>A</sup> †	0/197 (0%)	0/202 (0%)	1/212 (0.47%)	0/196 (0%)
Metabolism and nutrition disorders				

	Placebo	Dapagliflozin 2.5mg	Dapagliflozin 5mg	Dapagliflozin 10mg
	Affected/At Risk (%)	Affected/At Risk (%)	Affected/At Risk (%)	Affected/At Risk (%)
Hyperglycaemia <sup>A †</sup>	0/197 (0%)	1/202 (0.5%)	0/212 (0%)	0/196 (0%)
Hypoglycaemia <sup>A †</sup>	0/197 (0%)	0/202 (0%)	2/212 (0.94%)	0/196 (0%)
<b>Musculoskeletal and connective tissue disorders</b>				
Arthralgia <sup>A †</sup>	0/197 (0%)	0/202 (0%)	0/212 (0%)	1/196 (0.51%)
Back Pain <sup>A †</sup>	1/197 (0.51%)	1/202 (0.5%)	0/212 (0%)	0/196 (0%)
Musculoskeletal Pain <sup>A †</sup>	1/197 (0.51%)	0/202 (0%)	0/212 (0%)	0/196 (0%)
Rotator Cuff Syndrome <sup>A †</sup>	0/197 (0%)	0/202 (0%)	0/212 (0%)	1/196 (0.51%)
Tenosynovitis <sup>A †</sup>	0/197 (0%)	0/202 (0%)	0/212 (0%)	1/196 (0.51%)
<b>Neoplasms benign, malignant and unspecified (incl cysts and polyps)</b>				
Bile Duct Cancer <sup>A †</sup>	0/197 (0%)	0/202 (0%)	0/212 (0%)	1/196 (0.51%)
Breast Cancer <sup>A †</sup>	0/197 (0%)	1/202 (0.5%)	0/212 (0%)	0/196 (0%)
Chronic Lymphocytic Leukaemia <sup>A †</sup>	1/197 (0.51%)	0/202 (0%)	0/212 (0%)	0/196 (0%)
Hepatic Neoplasm Malignant <sup>A †</sup>	0/197 (0%)	0/202 (0%)	0/212 (0%)	1/196 (0.51%)
Pancreatic Carcinoma <sup>A †</sup>	0/197 (0%)	0/202 (0%)	0/212 (0%)	1/196 (0.51%)
Pancreatic Neoplasm <sup>A †</sup>	0/197 (0%)	0/202 (0%)	1/212 (0.47%)	0/196 (0%)
Prostate Cancer Recurrent <sup>A †</sup>	0/197 (0%)	1/202 (0.5%)	0/212 (0%)	0/196 (0%)
<b>Nervous system disorders</b>				
Burning Sensation <sup>A †</sup>	0/197 (0%)	0/202 (0%)	0/212 (0%)	1/196 (0.51%)
Carotid Artery Occlusion <sup>A †</sup>	0/197 (0%)	1/202 (0.5%)	0/212 (0%)	0/196 (0%)
Cerebrovascular Accident <sup>A †</sup>	1/197 (0.51%)	1/202 (0.5%)	0/212 (0%)	1/196 (0.51%)
Hypoglycaemic Coma <sup>A †</sup>	1/197 (0.51%)	0/202 (0%)	0/212 (0%)	0/196 (0%)
Neuropathy Peripheral <sup>A †</sup>	0/197 (0%)	1/202 (0.5%)	0/212 (0%)	0/196 (0%)

	Placebo	Dapagliflozin 2.5mg	Dapagliflozin 5mg	Dapagliflozin 10mg
	Affected/At Risk (%)	Affected/At Risk (%)	Affected/At Risk (%)	Affected/At Risk (%)
Transient Ischaemic Attack <sup>A †</sup>	2/197 (1.02%)	0/202 (0%)	0/212 (0%)	0/196 (0%)
Respiratory, thoracic and mediastinal disorders				
Asthma <sup>A †</sup>	0/197 (0%)	1/202 (0.5%)	0/212 (0%)	0/196 (0%)
Interstitial Lung Disease <sup>A †</sup>	1/197 (0.51%)	0/202 (0%)	0/212 (0%)	0/196 (0%)
Pulmonary Embolism <sup>A †</sup>	1/197 (0.51%)	0/202 (0%)	0/212 (0%)	0/196 (0%)
Surgical and medical procedures				
Aortic Valve Replacement <sup>A †</sup>	0/197 (0%)	0/202 (0%)	1/212 (0.47%)	0/196 (0%)
Vascular disorders				
Diabetic Microangiopathy <sup>A †</sup>	0/197 (0%)	0/202 (0%)	1/212 (0.47%)	0/196 (0%)
Hypertension <sup>A †</sup>	0/197 (0%)	0/202 (0%)	0/212 (0%)	1/196 (0.51%)
Thrombophlebitis Superficial <sup>A †</sup>	0/197 (0%)	0/202 (0%)	0/212 (0%)	1/196 (0.51%)

† Indicates events were collected by systematic assessment.

A Term from vocabulary, MedDRA 12.0

#### Other Adverse Events

Frequency Threshold Above Which Other Adverse Events are Reported: 5%

	Placebo	Dapagliflozin 2.5mg	Dapagliflozin 5mg	Dapagliflozin 10mg
	Affected/At Risk (%)	Affected/At Risk (%)	Affected/At Risk (%)	Affected/At Risk (%)
Total	115/197 (58.38%)	135/202 (66.83%)	128/212 (60.38%)	107/196 (54.59%)
Endocrine disorders				
Hypoglycemia <sup>A †</sup>	83/197 (42.13%)	111/202 (54.95%)	101/212 (47.64%)	88/196 (44.9%)
Infections and infestations				
Nasopharyngitis <sup>A †</sup>	22/197 (11.17%)	28/202 (13.86%)	29/212 (13.68%)	17/196 (8.67%)
Upper Respiratory Tract Infection <sup>A †</sup>	10/197 (5.08%)	5/202 (2.48%)	6/212 (2.83%)	6/196 (3.06%)
Urinary Tract Infection <sup>A †</sup>	6/197 (3.05%)	10/202 (4.95%)	12/212 (5.66%)	11/196 (5.61%)

	Placebo	Dapagliflozin 2.5mg	Dapagliflozin 5mg	Dapagliflozin 10mg
	Affected/At Risk (%)	Affected/At Risk (%)	Affected/At Risk (%)	Affected/At Risk (%)
Musculoskeletal and connective tissue disorders				
Back Pain <sup>A †</sup>	10/197 (5.08%)	8/202 (3.96%)	4/212 (1.89%)	9/196 (4.59%)
Nervous system disorders				
Headache <sup>A †</sup>	14/197 (7.11%)	8/202 (3.96%)	9/212 (4.25%)	2/196 (1.02%)
Vascular disorders				
Hypertension <sup>A †</sup>	16/197 (8.12%)	11/202 (5.45%)	13/212 (6.13%)	7/196 (3.57%)

† Indicates events were collected by systematic assessment.

A Term from vocabulary, MedDRA 12.0

## ▶ Limitations and Caveats

For participants who did not complete 24 weeks LOCF (last observation carried forward) was used. Only values prior to insulin up-titration were used for outcome measures except for mean daily insulin dose which was evaluated regardless of.

## ▶ More Information

Certain Agreements:

Principal Investigators are NOT employed by the organization sponsoring the study.

There IS an agreement between the Principal Investigator and the Sponsor (or its agents) that restricts the PI's rights to discuss or publish trial results after the trial is completed.

If an Investigator requests permission to publish data from this study any such publication is to be agreed with AstraZeneca (AZ) in advance. The investigator agrees to provide AZ as soon as possible with drafts of proposed publications. Unless otherwise agreed, AZ shall have a period of 60 days from receipt of the proposed final manuscript to review it and may within such time require that submission for publication of the manuscript be delayed in order for AZ to file patent applications.

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