

PRODUCT MONOGRAPH
INCLUDING PATIENT MEDICATION INFORMATION

PrAG-Dapagliflozin

Dapagliflozin Tablets

Tablets, 5 mg and 10 mg, Oral

ATC Code: A10BK01

Sodium-glucose co-transporter 2 (SGLT2) inhibitors

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RECENT MAJOR LABEL CHANGES

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PART I: HEALTH PROFESSIONAL INFORMATION

1 INDICATIONS

Type 2 Diabetes Mellitus (T2DM)

Monotherapy: AG-Dapagliflozin (dapagliflozin) is indicated for use as an adjunct to diet and exercise to improve glycemic control in adult patients with T2DM for whom metformin is inappropriate due to contraindications or intolerance.

Add-on combination: AG-Dapagliflozin is indicated in adult patients with T2DM to improve glycemic control in combination with

- metformin
- a sulfonylurea
- metformin and a sulfonylurea
- sitagliptin (alone or with metformin)
- insulin (alone or with metformin)

when metformin alone or the existing therapy listed above, along with diet and exercise, do not provide adequate glycemic control.

Add-On Combination in Patients with Cardiovascular Risk Factors or Established

Cardiovascular Disease: AG-Dapagliflozin is indicated as an adjunct to diet, exercise, and standard of care therapy to reduce the risk of hospitalization for heart failure in adults with type 2 diabetes mellitus and CV risk factors or established CV disease.

Heart Failure

AG-Dapagliflozin is indicated in adults, as an adjunct to standard of care therapy, for the treatment of heart failure to reduce the risk of cardiovascular (CV) death, hospitalization for heart failure and urgent heart failure visit.

Limitations of Use: AG-Dapagliflozin is not indicated for the emergency treatment of acute heart failure.

Chronic Kidney Disease

AG-Dapagliflozin is indicated to reduce the risk of sustained eGFR decline, end-stage kidney disease, and cardiovascular and renal death in adults with chronic kidney disease (CKD).

1.1 Pediatrics

Pediatrics (<18 years of age): Safety and efficacy of dapagliflozin have not been established in patients under 18 years of age; therefore, Health Canada has not authorized an indication for pediatric use.

1.2 Geriatrics

Type 2 Diabetes Mellitus (T2DM)

Geriatrics (≥65 years of age): AG-Dapagliflozin should be used with caution in this population as a higher proportion of patients ≥65 years of age treated with dapagliflozin had adverse reactions related to volume depletion and renal impairment or failure, compared to patients treated with placebo. See [7.1.4 Geriatrics](#) and [8 ADVERSE REACTIONS](#).

Heart Failure

In the DAPA-HF study, 2714 (57%) patients were older than 65 years of age. In the DELIVER study, a total of 4759 (76%) patients were older than 65 years of age. Safety and efficacy in both studies were similar for patients 65 years and younger and those older than 65.

2 CONTRAINDICATIONS

- AG-Dapagliflozin is contraindicated in patients who are hypersensitive to this drug or to any ingredient in the formulation, including any non-medicinal ingredient, or component of the container. For a complete listing, see [6 DOSAGE FORMS, STRENGTH, COMPOSITION AND PACKAGING](#).
- AG-Dapagliflozin is contraindicated in patients on dialysis. See [7 WARNINGS AND PRECAUTIONS](#).

3 SERIOUS WARNINGS AND PRECAUTIONS BOX

Serious Warnings and Precautions

Diabetic Ketoacidosis in Patients with Diabetes

- Clinical trial and post-market cases of diabetic ketoacidosis (DKA), a serious life-threatening condition requiring urgent hospitalization, have been reported in patients with T2DM treated with dapagliflozin and other sodium-glucose co-transporter 2 (SGLT2) inhibitors. A number of these cases have been atypical with blood glucose values below 13.9 mmol/L (250 mg/dL). Some cases of DKA have been fatal. See [8 ADVERSE REACTIONS](#).
- Patients should be assessed for DKA immediately if non-specific symptoms such as difficulty breathing, nausea, vomiting, abdominal pain, confusion, anorexia, excessive thirst and unusual fatigue or sleepiness occur, regardless of blood glucose level. If DKA is suspected or diagnosed, AG-Dapagliflozin should be **discontinued immediately**.
- AG-Dapagliflozin should not be used for the treatment of DKA or in patients with a history of DKA.
- AG-Dapagliflozin is not indicated, and should not be used, in patients with type 1 diabetes.

4 DOSAGE AND ADMINISTRATION

4.1 Dosing Considerations

- AG-Dapagliflozin may be taken at any time of the day with or without food.
- Assess renal function prior to initiation of AG-Dapagliflozin therapy and regularly thereafter. See [7 WARNINGS AND PRECAUTIONS](#).
- Assess volume status and, if necessary, correct volume depletion prior to initiation of AG-Dapagliflozin therapy. See [7 WARNINGS AND PRECAUTIONS](#).
- **Concomitant use with insulin or an insulin secretagogue (e.g., sulfonylurea):** When AG-Dapagliflozin is used as add-on therapy with insulin or an insulin secretagogue (e.g., sulfonylurea), a lower dose of insulin or the insulin secretagogue may be considered to reduce the risk of hypoglycemia. See [7 WARNINGS AND PRECAUTIONS](#) and [8 ADVERSE REACTIONS](#).
- **Temporary interruption for surgery:** Dapagliflozin treatment should be interrupted for a minimum of 3 days, when possible, prior to major surgical procedures or procedures associated with prolonged fasting. Monitor for DKA in the post-procedural period. Ensure risk factors for ketoacidosis are resolved and that the patient is clinically stable and has resumed oral intake before considering dapagliflozin treatment re-initiation. See Endocrine and Metabolism.

4.2 Recommended Dose and Dosage Adjustment

Type 2 Diabetes Mellitus (T2DM)

To improve glycemic control, the recommended starting dose of AG-Dapagliflozin is 5 mg taken orally once daily. In patients tolerating AG-Dapagliflozin 5 mg once daily and who require additional glycemic control, the dose can be increased to 10 mg daily.

To reduce the risk of hospitalization due to HF, the recommended dose of AG-Dapagliflozin is 10 mg once daily.

Heart Failure

In patients with heart failure the recommended dose of AG-Dapagliflozin is 10 mg taken orally once daily.

Chronic Kidney Disease

In patients with chronic kidney disease, the recommended dose of AG-Dapagliflozin is 10 mg taken orally once daily.

Considerations for Special Populations

Renal impairment:

The glucose-lowering efficacy of AG-Dapagliflozin is dependent on renal function and declines with decreasing renal function. Monitoring of renal function is required prior to initiation of AG-Dapagliflozin therapy and regularly thereafter. In patients with eGFR less than 60 mL/min/1.73 m², more frequent monitoring of renal dysfunction is recommended. See [7 WARNINGS AND PRECAUTIONS](#).

Based on estimated glomerular filtration rate (eGFR; mL/min/1.73 m²), the dosage recommendations are:

eGFR 25 to less than 45

AG-Dapagliflozin is likely to be ineffective in improving glycemic control in adults with T2DM with an eGFR <45 mL/min/1.73 m². Therefore, AG-Dapagliflozin is not recommended for use to improve glycemic control in T2DM patients with an eGFR persistently <45 mL/min/1.73 m².

eGFR less than 25

Initiation of treatment with AG-Dapagliflozin is not recommended in patients with an eGFR less than 25 mL/min/1.73 m².

On dialysis

AG-Dapagliflozin is contraindicated in patients on dialysis. See [2 CONTRAINDICATIONS](#).

Hepatic impairment: No dosage adjustment for AG-Dapagliflozin is required for patients with mild or moderate hepatic impairment. Dapagliflozin exposure is increased in patients with severe hepatic impairment. See [10 CLINICAL PHARMACOLOGY](#). Therefore, AG-Dapagliflozin is not recommended for use in this population.

Pediatrics (<18 years of age): Safety and effectiveness of dapagliflozin in pediatric and adolescent patients have not been established; therefore, Health Canada has not authorized an indication for pediatric use.

Geriatrics (≥65 years of age): No dosage adjustment for AG-Dapagliflozin is required based on age; however renal function and risk of volume depletion should be taken into account. See 7.1.4 Geriatrics.

4.5 Missed Dose

If a dose of AG-Dapagliflozin is missed, it should be taken as soon as the patient remembers. A double dose of AG-Dapagliflozin should not be taken on the same day.

5 OVERDOSAGE

It is reasonable to employ supportive measures, as dictated by the patient's clinical status. The removal of dapagliflozin by hemodialysis has not been studied.

For the most recent information in the management of a suspected drug overdose, contact your regional poison control centre or Health Canada's toll-free number, 1-844 POISON-X (1-844-764-7669).

6 DOSAGE FORMS, STRENGTHS, COMPOSITION AND PACKAGING

Table 1 Dosage Forms, Strengths, Composition and Packaging

Route of Administration	Dosage Form / Strength / Composition	Non-medicinal Ingredients
Oral	Tablets 5 mg, 10 mg	<p>Tablet: anhydrous lactose, colloidal silicon dioxide-aerosil, low substituted hydroxypropyl cellulose, magnesium stearate, microcrystalline cellulose and sepiatrap 80 (magnesium aluminometasilicate and polysorbate 80).</p> <p>Film coat: iron oxide yellow, partially hydrolyzed polyvinyl alcohol, titanium dioxide, macrogol and talc.</p>

AG-Dapagliflozin is available as a film-coated tablet for oral administration containing 5 mg and 10 mg of dapagliflozin.

AG-Dapagliflozin 5 mg tablets are yellow coloured biconvex, round shaped, film coated tablets with “DA5” engraved on one side and “JP” engraved on another side. Available in bottles of 30 and 100 tablets.

AG-Dapagliflozin 10 mg tablets are yellow coloured biconvex, diamond-shaped, film coated tablets with “DA10” engraved on one side and “JP” engraved on another side. Available in bottles of 30, 100 and 500 tablets.

7 WARNINGS AND PRECAUTIONS

Please see [3 SERIOUS WARNINGS AND PRECAUTIONS BOX](#).

Cardiovascular

Use in patients at risk for volume depletion, hypotension and/or electrolyte imbalances: Due to its mechanism of action, dapagliflozin causes osmotic diuresis that may be associated with decreases in blood pressure, which may be more pronounced in patients with high blood glucose concentrations.

Dapagliflozin is not recommended for use in patients who are volume depleted.

Caution should be exercised in patients for whom a dapagliflozin induced drop in blood pressure could pose a risk, such as elderly patients, patients with low systolic blood pressure or moderate renal impairment, or in case of intercurrent conditions that may lead to volume depletion (such as gastrointestinal illness).

Careful monitoring of volume status is recommended. Temporary interruption of AG-Dapagliflozin may be considered for patients who develop volume depletion until the depletion is corrected. See [7 WARNINGS AND PRECAUTIONS, Monitoring and Laboratory Tests](#), and [8 ADVERSE REACTIONS](#).

Driving and Operating Machinery

No studies on the effects on the ability to drive and use machines have been performed. However, patients should be advised to take precautions when driving or operating a vehicle or potentially dangerous machinery due to the elevated risk of adverse reactions related to reduced intravascular volume, such as postural dizziness, and to the risk of hypoglycemia when AG-Dapagliflozin is used as add-on therapy with insulin or an insulin secretagogue.

Endocrine and Metabolism

Diabetic ketoacidosis (DKA) in patients with diabetes: Clinical trial and post-market cases of DKA, a serious life-threatening condition requiring urgent hospitalization, have been reported in patients with T2DM treated with dapagliflozin and other SGLT2 inhibitors. In a number of reported cases, the presentation of the condition was atypical with only moderately increased blood glucose values below 13.9 mmol/L (250 mg/dL). Some cases of DKA have been fatal. See [8 ADVERSE REACTIONS](#).

AG-Dapagliflozin is not indicated, and should not be used, in patients with type 1 diabetes. The diagnosis of T2DM should therefore be confirmed before initiating AG-Dapagliflozin as a treatment to improve glycemic control.

DKA must be considered in the event of non-specific symptoms such as difficulty breathing, nausea, vomiting, abdominal pain, confusion, anorexia, excessive thirst, and unusual fatigue or sleepiness. **If DKA is suspected, regardless of blood glucose level, patients should discontinue AG-Dapagliflozin treatment and be assessed for DKA immediately.**

Conditions that can precipitate DKA while taking AG-Dapagliflozin include a very low carbohydrate diet (as the combination may further increase ketone body production), dehydration, high alcohol consumption and a low beta-cell function reserve. These patients should be monitored closely. Caution should also be taken when reducing the insulin dose in patients requiring insulin. See [4 DOSAGE AND ADMINISTRATION](#).

Prolonged diabetic ketoacidosis: Diabetic ketoacidosis may be prolonged in some patients. In most post-marketing adverse event reports where dapagliflozin treatment was stopped at or before diagnosis, ketoacidosis lasted for 3 days or more despite dapagliflozin discontinuation and standard treatment of diabetic ketoacidosis.

Treatment interruption considerations: Temporarily discontinue treatment with dapagliflozin in T2DM patients who are hospitalized for major surgical procedures, or will undergo scheduled surgery, and in patients who are hospitalized for serious infections or acute serious medical illnesses. Withhold dapagliflozin treatment for at least 3 days, if possible, prior to major surgery or any other procedures associated with prolonged fasting, when, based on the drug pharmacology, most of dapagliflozin would be expected to be eliminated. Monitoring for DKA is recommended in these patients even if drug treatment has been interrupted or discontinued. Ensure risk factors for ketoacidosis are resolved prior to considering dapagliflozin treatment re-initiation. See [4.1 Dosing Considerations](#).

Use with medications known to cause hypoglycemia: Insulin and insulin secretagogues, such as sulfonylureas, cause hypoglycemia. Therefore, a lower dose of insulin or the insulin

secretagogue may be required to reduce the risk of hypoglycemia when used in combination with AG-Dapagliflozin. See [4 DOSAGE AND ADMINISTRATION](#) and [8 ADVERSE REACTIONS](#).

Increases in Low-Density Lipoprotein (LDL-C): Dose-related increases in LDL-C are seen with dapagliflozin treatment. See [8 ADVERSE REACTIONS](#). LDL-C levels should be monitored.

Genitourinary

Genital mycotic infections: Patients, particularly those with a history of genital mycotic infections, should be advised that AG-Dapagliflozin increases the risk of genital mycotic infections. See [8 ADVERSE REACTIONS](#).

Urinary tract infections (including urosepsis and pyelonephritis): Treatment with AG-Dapagliflozin increases the risk for urinary tract infections. See [8 ADVERSE REACTIONS](#).

There have been post-marketing reports of serious urinary tract infections, including urosepsis and pyelonephritis, requiring hospitalization in patients treated with dapagliflozin. Evaluate patients for signs and symptoms of urinary tract infections and treat promptly, if indicated.

Necrotizing fasciitis of the perineum (Fournier’s gangrene): Post-marketing cases of necrotizing fasciitis of perineum (Fournier’s gangrene), a rare but serious and potentially life-threatening necrotizing infection requiring urgent surgical intervention, have been reported in female and male patients with diabetes mellitus receiving SGLT2 inhibitors, including dapagliflozin. Serious outcomes have included hospitalization, multiple surgeries, and death. See [8.5 Post-Market Adverse Reactions](#).

Patients treated with AG-Dapagliflozin who present with pain or tenderness, erythema, or swelling in the genital or perineal area, with or without fever or malaise, should be evaluated for necrotizing fasciitis. If suspected, AG-Dapagliflozin should be discontinued and prompt treatment should be instituted (including broad-spectrum antibiotics and surgical debridement if necessary).

Hematologic

Elevated hemoglobin and hematocrit: Mean hemoglobin and hematocrit increased in patients administered dapagliflozin, as did the number of patients with abnormally elevated values for hemoglobin/hematocrit. See [8 ADVERSE REACTIONS](#).

AG-Dapagliflozin should be used with caution in patients with an elevated hematocrit.

Hepatic/Biliary/Pancreatic

Elevations in hepatic transaminases have been reported in dapagliflozin treated patients in clinical trials; however, a causal relationship with dapagliflozin has not been established.

Dapagliflozin exposure is increased in patients with severe hepatic impairment. Use of AG-Dapagliflozin is not recommended in patients with severe hepatic impairment. See [4 DOSAGE AND ADMINISTRATION](#) and [10 CLINICAL PHARMACOLOGY](#).

Monitoring and Laboratory Tests

Blood glucose and HbA1c: Response to AG-Dapagliflozin treatment in T2DM patients should be

monitored by periodic measurements of blood glucose and HbA1c levels.

Due to its mechanism of action, patients taking AG-Dapagliflozin will test positive for glucose in their urine. See 9.7 Drug-Laboratory Test Interactions.

Renal function: Renal function should be assessed prior to initiation of AG-Dapagliflozin therapy and regularly thereafter, with more frequent monitoring in patients whose eGFR is less than 60 mL/min/1.73 m².

Monitoring of renal function is recommended prior to and following initiation of any concomitant drug which might have an impact on renal function.

Reduced intravascular volume: AG-Dapagliflozin is not recommended for use in patients who are volume depleted. Before initiating AG-Dapagliflozin, assess volume status, particularly in patients at risk as well as in case of intercurrent conditions that may lead to fluid loss (such as a gastrointestinal illness) for patients already taking AG-Dapagliflozin.

In these patients, careful monitoring of volume status (e.g., physical examination, blood pressure measurements, laboratory tests, including hematocrit, serum electrolytes and renal function tests) is recommended. If volume depletion develops, temporary interruption of treatment with AG-Dapagliflozin may be considered until fluid loss is corrected.

LDL-cholesterol: LDL-C levels should be measured at baseline and at regular intervals during treatment with dapagliflozin tablets due to dose-dependent increases in LDL-C seen with therapy.

Peri-Operative Considerations

Temporarily discontinue treatment with dapagliflozin in T2DM patients who are hospitalized for major surgical procedures, or will undergo scheduled surgery. Ensure risk factors for ketoacidosis are resolved and that the patient is clinically stable and has resumed oral intake before considering dapagliflozin treatment re-initiation. Monitoring for DKA is recommended in these patients. See Endocrine and Metabolism, [4.1 Dosing Considerations](#).

Renal

The glucose-lowering benefit of AG-Dapagliflozin decreases with declining renal function. AG-Dapagliflozin may be insufficient to improve glycemic control in patients with T2DM with an eGFR persistently <45 mL/min/1.73 m². Renal function should be assessed prior to initiation of AG-Dapagliflozin and regularly thereafter. In patients with eGFR less than 60 mL/min/1.73 m², more frequent monitoring for glycemic and renal biomarkers and signs and symptoms of renal dysfunction is recommended. There are insufficient data to support dosing recommendations for initiation of therapy in patients with an eGFR <25 mL/min/1.73 m². AG-Dapagliflozin should be discontinued if dialysis is initiated. See [2 CONTRAINDICATIONS](#) and [4 DOSAGE AND ADMINISTRATION](#).

Safety and efficacy of dapagliflozin have not been established in CKD patients with polycystic kidney disease, lupus nephritis, anti-neutrophil cytoplasmic antibody (ANCA)-associated vasculitis, or patients requiring or with a recent history of immunosuppressive therapy for the

treatment of kidney disease. AG-Dapagliflozin is not recommended for the treatment of CKD in these patients.

Impairment of renal function: Initiation of AG-Dapagliflozin may transiently increase serum creatinine and decreases eGFR in a dose dependent fashion. In clinical trials, renal function abnormalities have occurred after initiating dapagliflozin.

Post-marketing cases of acute kidney injury, including acute renal failure, shortly after the initiation of dapagliflozin treatment have been reported in T2DM patients. See [8.5 Post-Market Adverse Reactions](#). Patients with hypovolemia may be more susceptible to these changes. See [8 ADVERSE REACTIONS](#).

Before initiating AG-Dapagliflozin, consider factors that may predispose patients to acute kidney injury including hypovolemia and concomitant medications (diuretics, NSAIDs). Consider temporarily discontinuing AG-Dapagliflozin in any setting of reduced oral intake (such as acute illness or fasting) or fluid losses (such as gastrointestinal illness or excessive heat exposure); monitor patients for signs and symptoms of acute kidney injury. If acute kidney injury occurs, discontinue AG-Dapagliflozin promptly and institute treatment.

7.1 Special Populations

7.1.1 Pregnant Women

AG-Dapagliflozin must not be used in pregnancy. In the time period corresponding to second and third trimesters of pregnancy with respect to human renal maturation, maternal exposure to dapagliflozin in rat studies was associated with increased incidence and/or severity of renal pelvic and tubular dilatations in progeny. See [16 NON-CLINICAL TOXICOLOGY](#).

The extent of exposure in pregnancy during clinical trials is very limited.

There are no adequate and well-controlled studies of dapagliflozin tablets in pregnant women. When pregnancy is detected, dapagliflozin tablets should be discontinued.

7.1.2 Breast-feeding

AG-Dapagliflozin must not be used by a nursing woman. Studies in rats have shown excretion of dapagliflozin in milk. Direct and indirect exposure of dapagliflozin to weanling juvenile rats and during late pregnancy are each associated with increased incidence and/or severity of renal pelvic and tubular dilatations in progeny, although the long-term functional consequences of these effects are unknown. These periods of exposure coincide with a critical window of renal maturation in rats. As functional maturation of the kidneys in humans continues in the first 2 years of life, dapagliflozin-associated dilated renal pelvis and tubules noted in juvenile rats could constitute potential risk for human renal maturation during the first 2 years of life. Additionally, the negative effects on body weight gain associated with lactational exposure in weanling juvenile rats suggest that dapagliflozin must be avoided during the first 2 years of life. See [16 NON-CLINICAL TOXICOLOGY](#).

It is unknown whether dapagliflozin and/or its metabolite are excreted in human milk.

Precaution should be exercised because many drugs can be excreted in human milk.

7.1.3 Pediatrics

Pediatrics (<18 years of age): Safety and effectiveness of dapagliflozin in pediatric patients have not been established; therefore, Health Canada has not authorized an indication for pediatric use.

7.1.4 Geriatrics

Geriatrics (≥65 years of age): A total of 2403 (26%) of the 9339 treated patients were 65 years and over and 327 (3.5%) patients were 75 years and over in the pool of 21 double-blind, controlled clinical safety and efficacy studies of dapagliflozin in patients with T2DM for improving glycemic control. After controlling for renal function (eGFR), there was no conclusive evidence suggesting that age is an independent factor affecting efficacy. No dosage adjustment is required in patients ≥65 years of age. However, in patients ≥65 years of age, a higher proportion of patients treated with dapagliflozin had adverse events related to volume depletion and renal impairment or failure compared with placebo. The most commonly reported adverse events related to renal impairment or failure in patients ≥65 years of age in any treatment group were creatinine renal clearance decreased, renal impairment, and increased blood creatinine.

Older patients are more likely to have impaired renal function. See [7 WARNINGS AND PRECAUTIONS, Monitoring and Laboratory Tests](#) and [8 ADVERSE REACTIONS](#).

In DAPA-HF, DELIVER and DAPA-CKD studies, the safety and efficacy were similar for patients age 65 years and younger and those older than 65. In the DAPA-HF study, 2714 (57%) out of 4744 patients with heart failure with reduced ejection fraction (HFrEF) were older than 65 years. In the DELIVER study, 4759 (76%) out of 6263 patients with heart failure with left ventricular ejection fraction (LVEF) >40% were older than 65 years. In the DAPA-CKD study, 1818 (42%) out of 4304 patients with CKD were older than 65 years.

8 ADVERSE REACTIONS

8.1 Adverse Reaction Overview

Clinical trials of dapagliflozin to improve glycemic control

The overall incidence of adverse events in a 12-study, short-term, placebo-controlled pool (short-term treatment) in T2DM patients treated with dapagliflozin 5 mg and 10 mg for glycemic control was 61.9% and 61.5%, respectively compared to 56.9% for the placebo group.

The most commonly reported adverse events during treatment with dapagliflozin 5 mg or 10 mg (≥5%) were female genital mycotic infections, nasopharyngitis and urinary tract infections. Discontinuation of therapy due to adverse events in patients who received dapagliflozin 5 mg and 10 mg was 2.8% and 3.2%, respectively, compared to 2.5% for the placebo group. The most commonly reported events leading to discontinuation and reported in at least three (3) dapagliflozin 10 mg-treated patients were renal impairment (0.8%), decrease in creatinine clearance (0.6%), increased blood creatinine (0.3%), urinary tract infections (0.2%), and

vulvovaginal mycotic infection (0.1%).

A total of 10 serious adverse drug events, assessed as related by the investigator, were reported in 9 patients in the short-term, placebo-controlled pool: 2 reports from patients taking dapagliflozin 5 mg daily (change of bowel habit, hypoglycemia), 2 reports from patients taking dapagliflozin 10 mg daily (constipation, rotator cuff syndrome) and 6 reports from patients in the placebo group (thrombocytopenia, acute myocardial infarction, cystitis, pyelonephritis, overdose and loss of consciousness).

Cardiovascular outcomes trial (DECLARE-TIMI 58)

The overall incidence of serious adverse events (SAEs) in DECLARE-TIMI 58 was 34.1% in the dapagliflozin group and 36.2% in the placebo group. The most commonly reported SAEs were angina unstable (2.8% dapagliflozin vs 2.8% placebo), acute myocardial infarction (2.7% vs 2.3%), and pneumonia (1.9% vs 2.1%). Discontinuations of study drug due to an AE were reported in 8.1% and 6.9% of patients in the dapagliflozin and placebo groups, respectively. The most common events leading to discontinuation were urinary tract infection (0.5% vs 0.3%), balanoposthitis (0.3% vs <0.1%), and pollakiuria (0.2% vs 0.2%).

Heart Failure (DAPA-HF and DELIVER)

In the dapagliflozin CV outcome study in patients with HFrEF (DAPA-HF), 2368 patients were treated with dapagliflozin 10 mg and 2368 patients with placebo for a median exposure time of 18 months.

The number of patients with SAEs was fewer in the dapagliflozin treatment group compared with the placebo group: 35.7% vs 40.2%, respectively. The three most commonly reported SAEs in both treatment groups were cardiac failure, pneumonia and cardiac failure congestive. Discontinuations due to adverse events were low and balanced between patients on dapagliflozin treatment versus placebo (4.7% vs. 4.9%, respectively). The most common adverse events leading to permanent discontinuation of dapagliflozin 10 mg were cardiac failure, dizziness and hypotension for the dapagliflozin treatment group and cardiac failure, cardiac failure congestive and renal impairment for the placebo group.

In the dapagliflozin cardiovascular outcome study in patients with heart failure with LVEF >40% (DELIVER), 3126 patients were treated with dapagliflozin 10 mg and 3127 patients with placebo for a median exposure time of 27 months. The proportion of patients with SAEs were balanced between the dapagliflozin treatment group and the placebo group: 43.5% and 45.5%, respectively. The three most commonly reported SAEs in both treatment groups were cardiac failure, COVID- 19, and pneumonia. Discontinuations due to adverse events were low and balanced between treatment groups: 5.8% in the dapagliflozin treatment group and 5.8% in the placebo group. The most common adverse events that led to permanent discontinuation of dapagliflozin 10 mg were urinary tract infection, renal impairment, and cardiac failure in the dapagliflozin treatment group and cardiac failure, acute kidney injury, and chronic kidney disease in the placebo group.

The overall safety profile of dapagliflozin seen in DAPA-HF and DELIVER was generally consistent with the known safety profile of dapagliflozin. No new safety concerns were identified in the

heart failure studies.

Chronic Kidney Disease (DAPA-CKD)

In the dapagliflozin renal outcome study in patients with chronic kidney disease (DAPA CKD), 2149 patients were treated with dapagliflozin 10 mg and 2149 patients with placebo for a median exposure of 27 months. The patient population included patients with type 2 diabetes mellitus and without diabetes, with eGFR ≥ 25 and ≤ 75 mL/min/1.73 m². Treatment was continued if eGFR fell to levels below 25 mL/min/1.73 m².

On treatment, there were fewer patients with SAEs in the dapagliflozin treatment group compared with the placebo group: 27.6% vs 31.4%, respectively. The three most commonly reported SAEs were acute kidney injury (1.7% dapagliflozin vs 2.0% placebo), pneumonia (1.7% vs 2.7%), and cardiac failure (1.6% vs 2.2%). Discontinuations due to AEs were low and balanced between patients in the dapagliflozin and placebo groups (5.5% vs 5.7%, respectively). The most commonly reported AEs that led to permanent discontinuation of treatment (dapagliflozin versus placebo) were chronic kidney disease (0.5% vs 0.3%), glomerular filtration rate decreased (0.4% vs 0.5%), renal impairment (0.4% vs 0.6%), and urinary tract infection (0.3% vs 0.1%).

The overall safety profile in patients with chronic kidney disease was consistent with the known safety profile of dapagliflozin in other patient populations.

8.2 Clinical Trial Adverse Reactions

Clinical trials are conducted under very specific conditions. The adverse reaction rates observed in the clinical trials; therefore, may not reflect the rates observed in practice and should not be compared to the rates in the clinical trials of another drug. Adverse reaction information from clinical trials may be useful in identifying and approximating rates of adverse drug reactions in real-world use.

Dapagliflozin has been evaluated in clinical trials in patients with T2DM, in patients with HFrEF, and in patients with CKD. The overall safety profile of dapagliflozin was consistent across the studied dapagliflozin indications. DKA was observed only in patients with T2DM.

Clinical Trials in Patients with T2DM Treated for Glycemic Control

Three major pools of patients with T2DM, who were being treated for glycemic control, were used to evaluate adverse reactions with dapagliflozin 5 mg and 10 mg versus control, including two placebo-controlled study pools and a larger pool of active- and placebo-controlled studies. In addition, adverse reactions were evaluated with dapagliflozin 10 mg versus placebo in a dedicated CV outcomes trial (DECLARE-TIMI 58).

Placebo-Controlled Studies for dapagliflozin 5 mg and 10 mg: The first pool of patients was derived from 12 placebo-controlled studies ranging from 12 to 24 weeks. In 4 studies dapagliflozin was used as monotherapy, and in 8 studies dapagliflozin was used as add-on to background antidiabetic therapy or as combination therapy with metformin. These data reflect exposure of 2338 patients to dapagliflozin with a mean exposure duration of 21 weeks. Patients received placebo (N=1393), dapagliflozin 5 mg (N=1145), or dapagliflozin 10 mg (N=1193) once

daily.

Pool of 13 Placebo-Controlled Studies for dapagliflozin 10 mg: The safety and tolerability of dapagliflozin 10 mg was also evaluated in a larger placebo-controlled study pool. This pool combined 13 placebo-controlled studies, including 3 monotherapy studies, 9 add-on to background antidiabetic therapy studies, and an initial combination with metformin study. Across these 13 studies, 2360 patients were treated once daily with dapagliflozin 10 mg for a mean duration of exposure of 22 weeks.

Active- and Placebo-Controlled Studies: The third pool of patients was derived from 21 active- and placebo-controlled studies used to evaluate and present data for malignancies and liver tests. In this pool, 5936 patients were treated with dapagliflozin and 3403 were treated with control (either as monotherapy or in combination with other antidiabetic therapies).

Cardiovascular Outcomes Trial (DECLARE-TIMI 58): The safety and tolerability of dapagliflozin 10 mg, as add-on to standard of care therapy, was also evaluated in a dedicated CV outcomes study in adult patients with T2DM and CV risk factors or established cardiovascular disease. In this study, 8574 patients received dapagliflozin 10 mg and 8569 received placebo for a mean exposure time of 42 months.

The adverse events in the 12-study placebo-controlled pooled analysis reported in $\geq 2\%$ of T2DM patients treated with dapagliflozin 5 mg or 10 mg for glycemic control, and occurring more frequently than in patients treated with placebo, are shown in Table 2.

Table 2 Adverse Events Reported in $\geq 2\%$ of T2DM Patients Treated for Glycemic Control with Dapagliflozin 5 mg or 10 mg and More Frequently than in Patients Treated with Placebo

System organ class Preferred term	% of Patients (Pool of 12 Placebo-controlled Studies)		
	Dapagliflozin 5 mg N=1145	Dapagliflozin 10 mg N=1193	Placebo N=1393
Gastrointestinal disorders			
Constipation	2.2	1.9	1.5
Nausea	2.8	2.5	2.4
Infections and infestations			
Influenza	2.7	2.3	2.3
Nasopharyngitis	6.6	6.3	6.2
Female genital mycotic infection [†]	8.4	6.9	1.5
Male genital mycotic infection [‡]	2.8	2.7	0.3

System organ class Preferred term	% of Patients (Pool of 12 Placebo-controlled Studies)		
	Dapagliflozin 5 mg N=1145	Dapagliflozin 10 mg N=1193	Placebo N=1393
Urinary Tract Infection [§]	5.7	4.3	3.7
Metabolism and nutrition disorders			
Dyslipidemia	2.1	2.5	1.5
Musculoskeletal and Connective Tissue Disorders			
Back pain	3.1	4.2	3.2
Pain in extremity	2.0	1.7	1.4
Renal and Urinary disorders			
Increased urination [¶]	2.9	3.8	1.7
Discomfort with urination	1.6	2.1	0.7

† Genital mycotic infections include the following preferred terms, listed in order of frequency reported for females: vulvovaginal mycotic infection, vaginal infection, vulvovaginal candidiasis, vulvovaginitis, genital infection, genital candidiasis, fungal genital infection, vulvitis, genitourinary tract infection, vulval abscess, and vaginitis bacterial (N for females: dapagliflozin 5 mg=581, dapagliflozin 10 mg=598, Placebo=677).

‡ Genital mycotic infections include the following preferred terms, listed in order of frequency reported for males: balanitis, fungal genital infection, balanitis candida, genital candidiasis, genital infection male, penile infection, balanoposthitis, balanoposthitis infective, genital infection and posthitis (N for males: dapagliflozin 5 mg=564, dapagliflozin 10 mg=595, Placebo=716).

§ Urinary tract infections include the following preferred terms, listed in order of frequency reported: urinary tract infection, cystitis, Escherichia urinary tract infection, genitourinary tract infection, pyelonephritis, trigonitis, urethritis, kidney infection, and prostatitis.

¶ Increased urination includes the following preferred terms, listed in order of frequency reported: pollakiuria, polyuria, and urine output increased.

Additional adverse events in ≥5% of T2DM patients, treated with dapagliflozin for glycemic control, seen more frequently than in patients in the placebo/comparator group, and reported in at least three or more patients treated with dapagliflozin 5 mg or 10 mg are described below by treatment regimen.

Table 3 Adverse Events Reported in ≥5% of T2DM Patients Treated with dapagliflozin 5 mg or 10 mg for Glycemic Control and Observed More Frequently than in Patients Treated with Placebo/Comparator and Reported in at least Three or More Patients Treated with dapagliflozin 5 mg or 10 mg

Treatment Regimen	n (%) of Patients		
	Dapagliflozin 5 mg	Dapagliflozin 10 mg	Placebo/Comparator
Monotherapy	N=132	N=146	N=75
Diarrhea	8 (6.1)	4 (2.7)	1 (1.3)
Upper respiratory infection	2 (1.5)	9 (6.2)	1 (1.3)
Arthralgia	8 (6.1)	7 (4.8)	1 (1.3)
Headache	12 (9.1)	13 (8.9)	5 (6.7)
Add-on to Metformin	N=137	N=135	N=137
Diarrhea	5 (3.6)	10 (7.4)	7 (5.1)
Headache	10 (7.3)	11 (8.1)	6 (4.4)
Add-on to Metformin versus Glipizide	Dapagliflozin (any dose)		N=408
	N=406		
Headache	21 (5.2)		17 (4.2)

Description of Selected Adverse Reactions in T2DM Patients Being Treated for Glycemic Control:

Volume Depletion and Hypotension

Events related to volume depletion (including reports of dehydration, hypovolemia, orthostatic hypotension, or hypotension) were reported in 0.6%, 0.8% and 0.4% of patients who received dapagliflozin 5 mg, dapagliflozin 10 mg and placebo, respectively, in the 12-study, short-term, placebo-controlled pool. Serious events occurred in ≤0.2% of patients across the 21 active- and placebo-controlled studies and were balanced between dapagliflozin 10 mg and comparator.

Postural blood pressure measurement revealed orthostatic hypotension in 13.1% of patients treated with dapagliflozin 10 mg vs. 11.3% of patients treated with placebo over the 24-week treatment period. In addition, in two studies with patients with T2DM and hypertension, postural blood pressure measurement revealed orthostatic hypotension in 3.2% of dapagliflozin 10 mg- treated patients vs. 1.7% of placebo-treated patients across the two studies over the 12-week treatment period.

Genital Mycotic Infections

Events of genital mycotic infections were reported in 5.7% (65/1145), 4.8% (57/1193) and 0.9% (12/1393) of patients who received dapagliflozin 5 mg, dapagliflozin 10 mg and placebo,

respectively, in the 12-study, short-term, placebo-controlled pool. Infections were more frequently reported in females (8.4% [49/581], 6.9% [41/598] dapagliflozin 5 mg and 10 mg, respectively, vs. 1.5% [10/677] placebo) than in males (2.8% [16/564], 2.7% [16/595] dapagliflozin 5 mg and 10 mg, respectively vs. 0.3% [2/716] placebo). The most frequently reported genital infections were vulvovaginal mycotic infections in females, and balanitis in males (see Table 2).

Patients who had a previous history of recurrent genital mycotic infections, were more likely to have an event of genital infection during the study than those without a history of infection (23.1%, [3/13] 25.0% [3/12] and 10.0% [1/10] versus 5.9% [60/1013], 5.0% [53/1053] and 0.8% [10/1247] on dapagliflozin 5 mg, dapagliflozin 10 mg and placebo, respectively).

Urinary Tract Infections

Events of urinary tract infections (UTI) were reported in 5.7% (65/1145), 4.3% (51/1193), and 3.7% (52/1393) of patients who received dapagliflozin 5 mg, dapagliflozin 10 mg and placebo, respectively, in the 12-study, short term, placebo-controlled pool. Infections were more frequently reported in females (9.6% [56/581] and 7.7% [46/598] dapagliflozin 5 mg and 10 mg, respectively, vs. 6.6% [45/677] placebo) than in males (1.6% [9/564] and 0.8% [5/595] dapagliflozin 5 mg and 10 mg, respectively, vs. 1.0% [7/716] placebo).

In 9 of the 13 studies in the dapagliflozin 10 mg placebo-controlled pool for which long-term treatment data were available (mean duration of treatment 439.5 days for dapagliflozin 10 mg and 419.0 days for placebo), of the 174 patients treated with dapagliflozin 10 mg who experienced an infection, 135 (77.6%) had only one and 11 (6.3%) had 3 or more. Of the 121 patients treated with placebo who experienced an infection, 94 (77.7%) had only one and 12 (9.9%) had 3 or more.

In the 13-study, short-term, placebo-controlled pool, patients who had a previous history of recurrent urinary tract infection, were more likely to have an event of urinary tract infection (6.0% [26/436] of patients with history of infection treated with dapagliflozin 10 mg and 5.9% [24/407] of patients with history of infection on placebo) during the study than those without a history of infection (4.4% [84/1924] on dapagliflozin 10 mg and 3.0% [57/1888] on placebo).

Hypoglycemia

The frequency of hypoglycemia depended on the type of background therapy used in each study (see Table 4). Studies of dapagliflozin as an add-on to sulfonylurea or as an add-on to insulin therapy had higher rates of hypoglycemia with dapagliflozin treatment than with placebo treatment. See [7 WARNINGS AND PRECAUTIONS](#).

Table 4 Incidence of Major* and Minor† Hypoglycemia in Placebo-Controlled Studies in T2DM Patients Being Treated for Glycemic Control

	Dapagliflozin 5 mg	Dapagliflozin 10 mg	Placebo
Monotherapy (24 weeks)	N=64	N=70	N=75
Major [n (%)]	0	0	0
Minor [n (%)]	0	0	0
Add-on to Metformin (24 weeks)	N=137	N=135	N=137
Major [n (%)]	0	0	0
Minor [n (%)]	2 (1.5)	1 (0.7)	0
Active Control Add-on to Metformin vs. Glipizide (52 weeks)	-	N=406	N=408
Major [n (%)]	-	0	3 (0.7)
Minor [n (%)]	-	7 (1.7)	147 (36.0)
Add-on to Glimepiride (24 weeks)	N=145	N=151	N=146
Major [n (%)]	0	0	0
Minor [n (%)]	8 (5.5)	9 (6.0)	3 (2.1)
Add-on to Metformin and Sulfonylurea (24 weeks)	-	N=109	N=109
Major [n (%)]	-	0	0
Minor [n (%)]	-	14 (12.8)	4 (3.7)
Add-on to Sitagliptin alone or with metformin (24 weeks)	-	N=225	N=226
Major [n (%)]	-	1 (0.4)	0
Minor [n (%)]	-	4 (1.8)	3 (1.3)
Add-on to Insulin with or without other OADs (24 weeks)	N=212	N=196	N=197
Major [n (%)]	1 (0.5)	1 (0.5)	1 (0.5)
Minor [n (%)]	92 (43.4)	79 (40.3)	67 (34.0)
CV outcomes study (42 months mean exposure) §			

Table 4 Incidence of Major* and Minor† Hypoglycemia in Placebo-Controlled Studies in T2DM Patients Being Treated for Glycemic Control

	Dapagliflozin 5 mg	Dapagliflozin 10 mg	Placebo
All Patients	-	N=8574	N=8569
Major [n (%)]	-	58 (0.7)	83 (1.0)
Minor [n (%)]	-	Not collected	Not collected
Patients treated with Insulin	-	N=4177	N=4606
Major [n (%)]	-	52 (1.2)	64 (1.4)
Patients treated with a Sulfonylurea	-	N=4118	N=4521
Major [n(%)]	-	14 (0.3)	23 (0.5)

- * Major episodes of hypoglycemia were defined as symptomatic episodes requiring external (third party) assistance due to severe impairment in consciousness or behavior with a capillary or plasma glucose value <3 mmol/L and prompt recovery after glucose or glucagons administration.
- † Minor episodes of hypoglycemia were defined as either a symptomatic episode with a capillary or plasma glucose measurement <3.5 mmol/L regardless of need for external assistance or an asymptomatic capillary or plasma glucose measurement <3.5 mmol/L which did not qualify as a major episode.
- ‡ OAD = oral antidiabetic therapy.
- § Patients were on treatment at the time of the events.

Monotherapy and add-on to metformin: In studies with dapagliflozin used as monotherapy, add-on to metformin, and initial combination with metformin for up to 102 weeks, there were no major episodes of hypoglycemia reported. In these studies, the frequency of minor episodes of hypoglycemia was similar (<5%) across the treatment groups, including placebo.

In an add-on to metformin study that compared dapagliflozin to glipizide up to 104 weeks, there were 3 episodes (0.7%) of major hypoglycemia in patients treated with glipizide plus metformin and none in patients treated with dapagliflozin plus metformin. Minor episodes of hypoglycemia were reported in 2.5% of patients treated with dapagliflozin plus metformin and 42.4% of patients treated with glipizide plus metformin.

Add-on to sulfonylureas: In a study with dapagliflozin added on to glimepiride for up to 48 weeks there was one episode of major hypoglycemia reported in a patient treated with dapagliflozin 2.5 mg plus glimepiride. Minor episodes of hypoglycemia were reported in 8.3% and 7.9% of patients treated with dapagliflozin 5 mg and 10 mg plus glimepiride, respectively, and 2.1% of patients treated with placebo plus glimepiride.

Add-on to metformin and to a sulfonylurea: In the add-on to combination study with metformin and a sulfonylurea up to 52 weeks, there were no episodes of major hypoglycemia reported. Minor episodes of hypoglycemia were reported for 15.6% of patients treated with dapagliflozin 10 mg plus metformin and a sulfonylurea and 4.6% of patients treated with placebo plus metformin and a sulfonylurea.

Add-on to sitagliptin alone or with metformin: In a study of dapagliflozin 10 mg added on to sitagliptin (with or without metformin) for up to 48 weeks, one major episode of hypoglycemia was reported in a patient treated with dapagliflozin 10 mg plus sitagliptin (without metformin). Minor episodes of hypoglycemia were reported in 2.2% and 1.3% of patients treated with dapagliflozin 10 mg or placebo added on to sitagliptin (with or without metformin), respectively.

Add-on to insulin: At Week 104, major episodes of hypoglycemia were reported in 1.4%, 1.0% and 0.5% of patients treated with dapagliflozin 5 mg and 10 mg or placebo added on to insulin, respectively. Minor episodes were reported in 52.8%, 53.1% and 41.6% of patients treated with dapagliflozin 5 mg or 10 mg or placebo added on to insulin, respectively. In two additional studies that also included a large proportion of patients who received insulin as background therapy (alone or with one or more oral antidiabetic treatments), the rate of minor episodes of hypoglycemia was also increased in patients treated with dapagliflozin 10 mg compared with those treated with placebo. See [14 CLINICAL TRIALS](#).

CV outcomes study (DECLARE-TIMI 58): Major events of hypoglycemia were reported in 58 patients (0.7%) treated with dapagliflozin 10 mg and 83 (1.0%) patients treated with placebo. Major events of hypoglycemia were reported in 52 patients (1.2%) and 64 patients (1.4%) treated with dapagliflozin 10 mg or placebo added on to insulin, respectively. Major events of hypoglycemia were reported in 14 patients (0.3%) and 23 patients (0.5%) treated with dapagliflozin or placebo added on to sulfonylurea, respectively. Major events of hypoglycemia leading to hospitalization occurred in 13 patients (0.2%) and 22 patients (0.3%) treated with dapagliflozin or placebo, respectively.

Patients with Renal Impairment

Safety was also assessed in two dedicated studies of T2DM patients being treated for glycemic control, with moderate renal impairment (eGFR ≥ 45 to < 60 mL/min/1.73 m² and eGFR ≥ 30 to < 60 mL/min/1.73 m², respectively).

In the study of patients with eGFR ≥ 45 to < 60 mL/min/1.73 m², at Week 24 dapagliflozin was associated with changes in mean eGFR (dapagliflozin: -3.39 mL/min/1.73 m² and placebo: -0.90 mL/min/1.73 m²). The mean eGFR in the dapagliflozin group decreased initially (during the first 4 weeks of treatment) and remained steady for the remaining 20 weeks of treatment. At 3 weeks after termination of dapagliflozin, the mean change from baseline in eGFR in the dapagliflozin group was similar to the mean change in the placebo group (dapagliflozin: 0.57 mL/min/1.73 m² and placebo: -0.04 mL/min/1.73 m²). A higher proportion of subjects treated with dapagliflozin had adverse reactions of hypotension, compared with placebo.

In the study of patients with eGFR ≥ 30 to < 60 mL/min/1.73 m², at Week 52, dapagliflozin was associated with changes from baseline in mean eGFR (eGFR: dapagliflozin 5 mg: -2.08 mL/min/1.73 m², dapagliflozin 10 mg -4.46 mL/min/1.73 m² and placebo -2.58 mL/min/1.73 m²). At Week 104, these changes persisted (eGFR: dapagliflozin 5 mg -1.71 mL/min/1.73 m², dapagliflozin 10 mg -3.50 mL/min/1.73 m² and placebo -2.38 mL/min/1.73 m²). With dapagliflozin 5 mg and 10 mg, these eGFR reductions were evident at Week 1 while placebo

treated patients had a slow continuous decline through Week 104.

Diabetic Ketoacidosis (DKA) in Patients with Diabetes

Cases of DKA, a serious life-threatening condition requiring urgent hospitalization, have been reported in patients with T2DM treated with dapagliflozin and other SGLT2 inhibitors. Some cases of DKA have been fatal. AG-Dapagliflozin is not indicated, and should not be used, in patients with type 1 diabetes. In some cases, the presentation of the condition was atypical, with blood glucose values only moderately elevated (<13.9 mmol/L (250 mg/dL). See [7 WARNINGS AND PRECAUTIONS](#).

Cardiovascular Outcomes Study (DECLARE-TIMI 58)

DECLARE-TIMI 58 evaluated the safety and tolerability of dapagliflozin 10 mg (n=8574) versus placebo (n=8569) in adult patients with T2DM and CV risk factors or established cardiovascular disease. The mean exposure time was 42 months. In total, there were 30623 patient-years of exposure to dapagliflozin. The safety variables collected in DECLARE-TIMI 58 included: serious adverse events (SAE), adverse events leading to discontinuation of study drug (DAE), CV events, amputation events, DKA events, and adverse events of special interest. Adverse events of special interest consisted of: malignancies, hepatic events, major hypoglycemic events, fractures, renal events, symptoms of volume depletion, hypersensitivity reactions, urinary tract infections, and genital infections.

Events related to volume depletion were reported in 2.5% and 2.4% of patients in the dapagliflozin and placebo groups, respectively. Serious adverse events (SAE) of volume depletion were reported in 0.9% and 0.8% of patients in the dapagliflozin and placebo groups, respectively. In patients with eGFR <60mL/min/1.73 m² at baseline, SAEs were reported in 3.1% and 2.0% of patients in the dapagliflozin and placebo groups, respectively. In patients ≥65 years, SAEs were reported in 1.3% and 1.1% of patients in the dapagliflozin and placebo groups, respectively.

Events of genital infection leading to discontinuation of study drug occurred in 0.9% and <0.1% of patients in the dapagliflozin and placebo groups, respectively. SAEs of genital infection occurred in 2 patients (<0.1%) in each of the dapagliflozin and placebo groups.

Events of UTI leading to discontinuation of study drug occurred in 0.7% and 0.4% of patients in the dapagliflozin and placebo groups, respectively. SAEs of UTI occurred 0.9% and 1.3% of patients in the dapagliflozin and placebo groups, respectively. In patients ≥75 years of age, events of UTI leading to discontinuation of study drug occurred in 1.7% and 0.4% of patients in the dapagliflozin and placebo groups, respectively; SAEs of UTI occurred in 2.0% and 1.4% of patients in the dapagliflozin and placebo groups, respectively.

Adjudicated events of DKA were reported in 27 patients (0.3%) in the dapagliflozin 10 mg group and 12 patients (0.1%) in the placebo groups (0.04 and 0.09 events per 100 patient-years, respectively). The events were evenly distributed throughout the study period. Of the 27 patients with DKA events in the dapagliflozin group, 22 had concomitant insulin treatment at the time of the event.

Renal events (e.g., decreased renal creatinine clearance, renal impairment, increased blood creatinine, and decreased glomerular filtration rate) were reported in 4.9% and 6.1% of patients in the dapagliflozin and placebo groups, respectively.

Events of acute kidney injury were reported in 1.5% and 2.0% of patients in the dapagliflozin and placebo groups, respectively. SAEs of renal events occurred in 0.9% and 1.6% of patients in the dapagliflozin and placebo groups, respectively.

Events of fractures occurred in 7.4% and 5.8% of patients ≥ 75 years of age in the dapagliflozin and placebo groups, respectively.

Clinical Trials in Patients with Heart Failure (DAPA-HF and DELIVER)

The DAPA-HF study was a dedicated CV outcomes study in adult patients with HFrEF which assessed the safety and tolerability of dapagliflozin 10 mg, as add-on to standard of care therapy for heart failure. See [14 CLINICAL TRIALS](#).

These data reflect exposure of 2368 patients to dapagliflozin 10 mg and a median exposure time of 18 months. In total, there were 3310 patient-years of exposure to dapagliflozin.

The DELIVER study evaluated the effect of dapagliflozin 10 mg once daily in adult patients with heart failure and LVEF $> 40\%$. See [14 CLINICAL TRIALS](#).

These data reflect exposure of 3126 patients to dapagliflozin 10 mg with a median exposure time of 27 months. In total, there were 6426 patient-years of exposure to dapagliflozin.

The DAPA-HF study included 1926 (41%) patients with eGFR below 60 mL/min/1.73 m² and 719 (15%) with eGFR below 45 mL/min/1.73 m². In the DELIVER study 1410 patients (22.5%) had an eGFR < 45 mL/min/1.73m², 1655 patients (26.5%) had an eGFR ≥ 45 to < 60 mL/min/1.73m², and 3187 patients (50.9%) had an eGFR ≥ 60 mL/min/1.73m². In both studies, no overall differences in safety were seen in these patients compared to patients with normal renal function. Patients with eGFR < 30 mL/min/1.73 m² were excluded from DAPA-HF and patients with eGFR < 25 mL/min/1.73 m² were excluded from DELIVER.

There were 2714 (57%) out of 4744 patients older than 65 years with HFrEF included in the DAPA-HF study. In the DELIVER study, 4751 (76.0%) patients out of 6253 were > 65 years old. Safety was similar for patients age 65 years and younger and those older than 65 in both studies. There was no increased risk in events of volume depletion or acute kidney injury.

The number of patients with events related to volume depletion (including reports of hypotension, hypovolemia, dehydration, or orthostatic hypotension) were 170 (7.2%) and 153 (6.5%) in the dapagliflozin-treated and placebo groups, respectively in the DAPA-HF study. Serious events of symptoms suggestive of volume depletion were reported in 23 (1.0%) patients in the dapagliflozin-treated group and in 38 (1.6%) patients in the placebo group in the DAPA-HF study, and 35 patients (1.1%) in the dapagliflozin-treated group and 31 patients (1.0%) in the placebo group in the DELIVER study.

In the DAPA-HF study the number of patients with renal adverse events were 141 (6.0%) and 158 (6.7%) in the dapagliflozin-treated and the placebo group, respectively. Serious renal

adverse events were reported in 34 (1.4%) patients in the dapagliflozin-treated group and 58 (2.4%) patients in the placebo group. In the DELIVER study, there were 57 patients (1.8%) with serious renal adverse events in the dapagliflozin treatment group and 68 patients (2.2%) in the placebo group.

Major hypoglycemia and DKA events were observed only in patients with T2DM. In the DAPA-HF study, the number of patients with major hypoglycemia events were 4 (0.2%) in the dapagliflozin-treated and 4 (0.2%) in the placebo group. The number of patients with DKA events were 3 (0.1%) in the dapagliflozin-treated group and none in the placebo group. In the DELIVER study, 6 patients (0.2%) in the dapagliflozin group and 7 patients (0.2%) in the placebo group reported major hypoglycemic events. Events of DKA were reported in 2 (0.1%) patients with type 2 diabetes mellitus in the dapagliflozin group and none in the placebo group.

In the DAPA-HF study there were no patients with serious events of genital infections in the dapagliflozin-treated group and one in the placebo group. There were 7 (0.3%) patients with adverse events leading to discontinuations of study treatment due to genital infections in the dapagliflozin-treated group and none in the placebo group. In the DELIVER study, one (<0.1%) patient in each treatment group reported a serious adverse event of genital infections. There were 3 (0.1%) patients with discontinuations of study treatment due to genital infection in the dapagliflozin treatment group and none in the placebo group.

The number of patients with SAEs of urinary tract infections were low and balanced in the DAPA-HF and DELIVER studies. In DAPA-HF there were 14 (0.6%) patients with serious events of urinary tract infections in the dapagliflozin-treated group and 17 (0.7%) patients in the placebo group. There were 5 (0.2%) patients with adverse events leading to discontinuations of study treatment due to urinary tract infections in the dapagliflozin-treated group and 5 (0.2%) patients in the placebo group. In the DELIVER study there were 41 (1.3%) patients in the dapagliflozin group and 37 (1.2%) in the placebo group with serious events of urinary tract infection. There were 13 (0.4%) patients with discontinuations of study treatment due to urinary tract infections in the dapagliflozin group and 9 (0.3%) in the placebo group.

Clinical Trial in Patients with Chronic Kidney Disease (DAPA-CKD)

The DAPA-CKD study evaluated the safety and tolerability of dapagliflozin 10 mg in adult patients with chronic kidney disease. The data reflect exposure of 2149 patients to dapagliflozin 10 mg with a median exposure of 27.3 months. In total, there were 4448 patient-years of exposure to dapagliflozin.

AEs of symptoms of volume depletion were reported in 120 (5.6%) patients in the dapagliflozin and 84 (3.9%) in the placebo group. SAEs of symptoms of volume depletion were reported in 16 (0.7%) patients in the dapagliflozin and 15 (0.7%) patients in the placebo group.

Renal AEs were reported in 144 (6.7%) of patients in the dapagliflozin and 169 (7.9%) of patients in the placebo group. Renal SAEs were reported in 54 (2.5%) of patients in the dapagliflozin group and 69 (3.2%) in the placebo group.

There were 3 (0.1%) patients with SAE of genital infections in the dapagliflozin group and none in the placebo group. There were 3 (0.1%) patients with DAEs due to genital infections in the

dapagliflozin group and none in the placebo group.

There were 29 (1.3%) patients with SAEs of UTI in the dapagliflozin group and 18 (0.8%) patients in the placebo group. There were 8 (0.4%) patients with DAEs due to urinary tract infections in the dapagliflozin group and 3 (0.1%) in the placebo group.

Major events of hypoglycaemia were reported in 14 (0.7%) patients in the dapagliflozin group and 28 (1.3%) patients in the placebo group and were observed only in patients with type 2 diabetes mellitus. Events of DKA were not reported in any patient in the dapagliflozin group while events of DKA were reported in 2 patients with type 2 diabetes mellitus in the placebo group.

8.3 Less Common Clinical Trial Adverse Reactions

Patients with T2DM Being Treated for Glycemic Control (<2%)¹

Gastrointestinal disorder: dry mouth

Investigations: weight decreased

Metabolism and nutrition disorders: dehydration, hypotension, thirst

Renal and urinary disorders: glomerular filtration rate decreased, nocturia

Reproductive and breast disorders: pruritus genital, vulvovaginal pruritus

8.4 Abnormal Laboratory Findings: Hematologic, Clinical Chemistry and Other Quantitative Data

Patients with T2DM Being Treated for Glycemic Control

Increases in Serum Creatinine, Blood Urea Nitrogen (BUN) and Decreased eGFR

In the pool of 13 placebo-controlled studies, in dapagliflozin-treated patients, mean eGFR decreased by Week 1 and then increased toward eGFR baseline values over time to Week 24.

Changes from baseline in serum creatinine were consistent with changes in eGFR. Mean serum creatinine levels increased at Week 1 and decreased toward baseline at Week 24. There were small increases in BUN. Mean BUN levels increased at Week 1 and values remained stable through Weeks 24 and 102.

¹ Based on medical assessment (including biological plausibility/mechanism of action) of adverse events reported in <2% of subjects in the 12- study placebo-controlled pool.

Table 5 Mean Changes from Baseline for Serum Creatinine and eGFR at Week 1 and Week 24

Study Week/ Treatment Group	Week 1*		Week 24*	
	Dapagliflozin 10 mg	Placebo	Dapagliflozin 10 mg	Placebo
Serum creatinine, mcmol/L (mg/dL)				
Mean Changes from Baseline	-3.62 (-0.041) N=1112	-0.71 (-0.008) N=1057	1.68 (0.019) N=1954	0.71 (0.008) N=1844
eGFR, mL/min/1.73 m²				
Mean Changes from Baseline	-4.174 N=1102	0.490 N=1048	-1.446 N=1954	-0.665 N=1844

* Pool of 13 placebo-controlled studies in patients with T2DM being treated for glycemic control.

Increases in Hemoglobin/Hematocrit

In the pool of 13 placebo-controlled studies, increases from baseline in mean hemoglobin values were observed and increases from baseline in mean hematocrit values were observed in dapagliflozin-treated patients starting at Week 1 and continuing up to Week 16, when the maximum mean difference from baseline was observed. The mean changes from baseline in hemoglobin and hematocrit at Weeks 24 and 102 are presented below.

Table 6 Mean Changes from Baseline for Hemoglobin and Hematocrit at Week 24 and Week 102

Study Week/ Treatment Group	Week 24*		Week 102**	
	Dapagliflozin 10 mg	Placebo	Dapagliflozin 10 mg	Placebo
Hemoglobin, g/L (g/dL)				
Mean Changes from Baseline	6.21 (0.621) N=1934	- 1.38 (-0.138) N=1828	7.0 (0.70) N=621	-2.1 (-0.21) N=515
Hematocrit, %				
Mean Changes from Baseline	2.30 N=1908	-0.33 N=1796	2.68 N=616	-0.46 N=510

* Pool of 13 placebo-controlled studies in patients with T2DM being treated for glycemic control.

** Pool of 9 placebo-controlled studies in patients with T2DM being treated for glycemic control.

By Week 24, hematocrit values >55% were reported in 1.3% of dapagliflozin 10 mg-treated patients vs. 0.4% of placebo-treated patients. Results were similar during the short-term plus long-term phase (the majority of patients were exposed to treatment for more than one year).

Increases in Serum Inorganic Phosphorus

In the pool of 13 placebo-controlled studies, increases from baseline in mean serum phosphorus levels were reported at Week 24 in dapagliflozin 10 mg-treated patients compared with placebo-treated patients. Similar results were seen at Week 102 (see below). Higher proportions of patients with marked laboratory abnormalities of hyperphosphatemia were reported in dapagliflozin 10 mg group vs. placebo at Week 24 and during the short-term plus long-term phase. The clinical relevance of these findings is unknown.

Table 7 Mean Changes from Baseline for Serum Inorganic Phosphorus and Proportion of Patients with Hyperphosphatemia at Week 24 and Week 102

Study Week/ Treatment Group	Week 24*		Week 102**	
	Dapagliflozin 10 mg	Placebo	Dapagliflozin 10 mg	Placebo
Serum Inorganic Phosphorus, mcmol/L (mg/dL)				
Mean Changes from Baseline	42.0 (0.13) N=1954	-12.9 (-0.04) N=1844	38.7 (0.12) N=627	6.5 (0.02) N=522
Hyperphosphatemia[†]				
Proportion of Patients	1.7% N=1178	0.7% N=1381	3.0% N=2001	1.6% N=1940

* Pool of 13 placebo-controlled studies in patients with T2DM being treated for glycemic control.

** Pool of 9 placebo-controlled studies in patients with T2DM being treated for glycemic control.

† Defined as ≥ 1.81 mmol/L (≥ 5.6 mg/dL) if age 17-65 or ≥ 1.65 mmol/L (≥ 5.1 mg/dL) if \geq age 66.

Lipids

In the pool of 13 placebo-controlled studies, increases from baseline were noted in levels of total cholesterol, LDL- and HDL-cholesterol, and decreases from baseline were noted for triglycerides at Week 24 and Week 102 in dapagliflozin 10 mg-treated patients compared with placebo-treated patients (see below).

Table 8 Mean Changes from Baseline for Lipid Parameters at Week 24 and Week 102

Study Week/ Treatment Group	Week 24*		Week 102**	
	Dapagliflozin 10 mg	Placebo	Dapagliflozin 10 mg	Placebo
Mean Percent Changes from Baseline				
Total Cholesterol	2.5% N=1851	0.0% N=1747	2.1% N=550	-1.5% N=446
HDL-cholesterol	6.0% N=1851	2.7% N=1748	6.6% N=549	2.1% N=447
LDL-cholesterol	2.9% N=1840	-1.0% N=1736	2.9% N=542	-2.2% N=442
Triglycerides	-2.7% N=1844	-0.7% N=1736	-1.8% N=545	-1.8% N=444

* Pool of 13 placebo-controlled studies in patients with T2DM being treated for glycemic control.

** Pool of 9 placebo-controlled studies in patients with T2DM being treated for glycemic control.

The ratio between LDL-cholesterol and HDL-cholesterol decreased for both treatment groups at Week 24 and at Week 102.

8.5 Post-Market Adverse Reactions

The following adverse reactions have been identified during post-approval use of dapagliflozin in patients with T2DM. Because these reactions are reported voluntarily from a population of uncertain size, it is generally not possible to reliably estimate their frequency or establish a causal relationship to drug exposure.

Genitourinary: severe urinary tract infections; urosepsis and pyelonephritis

Hepatic/Biliary/Pancreatic: acute pancreatitis

Infection and Infestations: necrotizing fasciitis of the perineum (Fournier’s gangrene). See [7 WARNINGS AND PRECAUTIONS](#).

Metabolism: diabetic ketoacidosis

Renal and Urinary Disorders: acute kidney injury, including acute renal failure

Skin and Subcutaneous Tissue Disorders: rash (including rash generalized, rash pruritic, rash macular, rash macular-papular, rash pustular and rash vesicular)

9 DRUG INTERACTIONS

9.2 Drug Interactions Overview

The excipient Polysorbate 80 may influence the pharmacokinetics of concomitant oral drugs (e.g. enhancement of gastrointestinal absorption).

***In vitro* assessment of interactions**

The metabolism of dapagliflozin is primarily mediated by UGT1A9-dependent glucuronide conjugation. The major metabolite, dapagliflozin 3-O-glucuronide, is not an SGLT2 inhibitor.

In *in vitro* studies, dapagliflozin and dapagliflozin 3-O-glucuronide neither inhibited CYP 1A2, 2C9, 2C19, 2D6, 3A4, nor induced CYP1A2, 2B6 or 3A4. Dapagliflozin is a weak substrate of the P-glycoprotein (P-gp) active transporter and dapagliflozin 3-O-glucuronide is a substrate for the OAT3 active transporter. Dapagliflozin or dapagliflozin 3-O-glucuronide did not meaningfully inhibit P-gp, OCT2, OAT1, or OAT3 active transporters. Overall, dapagliflozin is unlikely to affect the pharmacokinetics of concurrently administered medications that are P-gp, OCT2, OAT1, or OAT3 substrates.

9.3 Drug-Behavioural Interactions

The effects of smoking, diet, and alcohol use on the pharmacokinetics of dapagliflozin have not been specifically studied.

9.4 Drug-Drug Interactions

Pharmacokinetic Interactions

Effect of other drugs on dapagliflozin: In studies conducted in healthy subjects, the pharmacokinetics of dapagliflozin were not altered by the coadministered drugs (see Table 9).

Table 9 Effects of Coadministered Drugs on Dapagliflozin Systemic Exposure

Coadministered Drug (Dose Regimen)*	Dapagliflozin (Dose Regimen)*	Effect on Dapagliflozin Exposure Ratio of Adjusted Geometric Means (90% CI)		Clinical Comment
		C _{max}	AUC [†]	
Oral Antidiabetic Agents				
Metformin (1000 mg)	20 mg	0.932 (0.848, 1.024)	0.995 (0.945, 1.053)	No dosing adjustment required
Pioglitazone (45 mg)	50 mg	1.09	1.03	No dosing

Table 9 Effects of Coadministered Drugs on Dapagliflozin Systemic Exposure

Coadministered Drug (Dose Regimen)*	Dapagliflozin (Dose Regimen)*	Effect on Dapagliflozin Exposure Ratio of Adjusted Geometric Means (90% CI)		Clinical Comment
		C _{max} (1.00, 1.18)	AUC [†] (0.98, 1.08)	
Sitagliptin (100 mg)	20 mg	0.958 (0.875, 1.049)	1.081 (1.031, 1.133)	adjustment required No dosing adjustment required
Glimepiride (4 mg)	20 mg	1.006 (0.921, 1.097)	0.989 (0.958, 1.020)	No dosing adjustment required
Voglibose (0.2 mg three times daily)	10 mg	1.040 (0.899, 1.204)	1.009 (0.954, 1.067)	No dosing adjustment required
Other Medications				
Hydrochlorothiazide (25 mg)	50 mg	NC	1.07 (1.04, 1.11)	No dosing adjustment required
Bumetanide (1 mg)	10 mg once daily for 7 – 14 days	1.080 (0.953, 1.222)	1.047 (0.991, 1.106)	No dosing adjustment required
Valsartan (320 mg)	20 mg	0.881 (0.796, 0.975)	1.024 (1.000, 1.049)	No dosing adjustment required
Simvastatin (40 mg)	20 mg	0.978 (0.887, 1.078)	0.986 (0.957, 1.017)	No dosing adjustment required
Mefenamic acid (250 mg every 6 hours)	10 mg	1.13 (1.03, 1.24)	1.51 (1.44, 1.58)	No dosing adjustment required
Anti-infective Agent				
Rifampin (600 mg once daily for 6 days)**	10 mg	0.931 (0.779, 1.112)	0.780 (0.731, 0.832)	No dosing adjustment required

- Single dose unless otherwise noted.
- NC No apparent change, ratio and 90% CI were not calculated.
- † AUC = AUC(INF) for drugs given as single dose and AUC = AUC(TAU) for drugs given in multiple doses.
- ** The mean amount of glucose excreted in the urine over 24 h following administration of dapagliflozin alone (51 g) was not markedly affected by rifampin coadministration (45 g).

Effect of dapagliflozin on other drugs: In studies conducted in healthy subjects, as described below, dapagliflozin did not alter the pharmacokinetics of the coadministered drugs (see Table 10).

Table 10 Effects of Dapagliflozin on the Systemic Exposures of Coadministered Drugs

Coadministered Drug (Dose Regimen)*	Dapagliflozin (Dose Regimen)*	Effect on Coadministered Drug Exposure Ratio of Adjusted Geometric Means (90% CI)		Clinical Comment
		C _{max}	AUC [†]	
Oral Antidiabetic Agents				
Metformin (1000 mg)	20 mg	0.953 (0.866, 1.049)	1.001 (0.933, 1.075)	No dosing adjustment required
Pioglitazone (45 mg)	50 mg	0.93 (0.75, 1.15)	1.00 (0.90, 1.13)	No dosing adjustment required
Sitagliptin (100 mg)	20 mg	0.887 (0.807, 0.974)	1.012 (0.985, 1.040)	No dosing adjustment required
Glimepiride (4 mg)	20 mg	1.043 (0.905, 1.201)	1.132 (0.996, 1.287)	No dosing adjustment required
Other Medications				
Hydrochlorothiazide (25 mg)	50 mg	NC	0.99 (0.95, 1.04)	No dosing adjustment required
Bumetanide (1 mg)**	10 mg once daily for 7 days	1.132 (0.979, 1.310)	1.132 (0.985, 1.302)	No dosing adjustment required
Valsartan (320 mg)	20 mg	0.938 (0.762, 1.156)	1.046 (0.850, 1.286)	No dosing adjustment required
Simvastatin (40 mg)	20 mg	0.936 (0.816, 1.073)	1.193 (1.018, 1.399)	No dosing adjustment required
Digoxin (0.25 mg)	20 mg loading dose then 10 mg once daily for 7 days	0.990 (0.843, 1.162)	1.002 (0.860, 1.167)	No dosing adjustment required
Warfarin (25 mg)***	20 mg loading dose then 10 mg once daily for 7 days		S-warfarin	No dosing adjustment required
		1.030 (0.994, 1.124)	1.068 (1.002, 1.138)	

Table 10 Effects of Dapagliflozin on the Systemic Exposures of Coadministered Drugs

Coadministered Drug (Dose Regimen)*	Dapagliflozin (Dose Regimen)*	Effect on Coadministered Drug Exposure Ratio of Adjusted Geometric Means (90% CI)		Clinical Comment
		C _{max}	AUC [†]	
		R-warfarin		
		1.057	1.079	
		(0.977, 1.145)	(1.030, 1.130)	

* Single dose unless otherwise noted.

NC No apparent change, ratio and 90% CI were not calculated.

† AUC = AUC(INF) for drugs given as single dose and AUC = AUC(TAU) for drugs given in multiple doses.

** Coadministration of dapagliflozin did not meaningfully alter the steady-state pharmacodynamic responses (urinary sodium excretion, urine volume) to bumetanide in healthy subjects.

*** Dapagliflozin also did not affect the anticoagulant activity of warfarin as measured by the prothrombin time (International Normalized Ratio; [INR]).

Effect of dapagliflozin on other drugs: Concomitant use of dapagliflozin and lithium may lead to a reduction in serum lithium concentrations due to a possible increased urinary clearance of lithium. The dose of lithium may need to be adjusted.

Pharmacodynamic Interactions

Diuretics: Dapagliflozin may add to the diuretic effect of loop diuretics and may increase the risk of dehydration and hypotension. See [7 WARNINGS AND PRECAUTIONS](#).

9.5 Drug-Food Interactions

Interactions with food have not been studied.

9.6 Drug-Herb Interactions

The effects of herbal products on the pharmacokinetics of dapagliflozin have not been studied.

9.7 Drug-Laboratory Test Interactions

Due to its mechanism of action, patients taking dapagliflozin will test positive for glucose in their urine. Monitoring glycemic control with 1,5-AG assay is not recommended as measurements of 1,5-AG are unreliable in assessing glycemic control in patients taking SGLT2 inhibitors. Use alternative methods to monitor glycemic control.

10 CLINICAL PHARMACOLOGY

10.1 Mechanism of Action

Dapagliflozin has been shown *in vitro* to be a potent, competitive and reversible inhibitor of sodium-glucose co-transporter 2 (SGLT2). Dapagliflozin improves glycemic control in patients with T2DM by reducing renal glucose reabsorption leading to urinary excretion of excess glucose (glucuresis) and provides cardio-renal benefits. The major human metabolite of dapagliflozin, dapagliflozin 3-O-glucuronide, is 2500-fold less active at SGLT2 and is not expected to have pharmacologic activity at clinical relevant doses.

Effect on Blood Glucose

SGLT2 is selectively expressed in the kidney. SGLT2 is the predominant transporter responsible for reabsorption of glucose from the glomerular filtrate back into the circulation. In patients with T2DM, dapagliflozin improves both fasting and post-prandial plasma glucose levels by reducing renal glucose reabsorption leading to urinary excretion of excess glucose. The amount of glucose removed by the kidney through this mechanism is dependent upon the blood glucose concentration and GFR. Dapagliflozin does not impair normal endogenous glucose production in response to hypoglycemia. Dapagliflozin acts independently of insulin secretion and insulin action.

Urinary glucose excretion (glucuresis) induced by dapagliflozin is associated with caloric loss and reduction in weight. Inhibition of glucose and sodium co-transport by dapagliflozin is also associated with mild diuresis and transient natriuresis.

The K_i (inhibition constant) value for human SGLT2 is 0.2 nM. Dapagliflozin does not inhibit other glucose transporters important for glucose transport into peripheral tissues and is greater than 1400 times more selective for SGLT2 vs. SGLT1, the major transporter in the gut responsible for glucose absorption. Dapagliflozin is also highly selective for SGLT2 vs. the facilitative glucose transporters GLUT1, GLUT2 and GLUT4.

Cardio-Renal Benefits

Dapagliflozin increases the delivery of sodium to the distal tubule which increases tubuloglomerular feedback and reduces intraglomerular pressure. This effect combined with osmotic diuresis leads to a reduction in volume overload, reduced blood pressure, and lower preload and afterload of the heart, which may have beneficial effects on cardiac remodelling and diastolic function, and preserve renal function. Other effects include an increase in hematocrit and reduction in body weight.

The cardiovascular and renal benefits of dapagliflozin appear to go beyond the blood glucose-lowering effect and are not limited to patients with diabetes.

10.2 Pharmacodynamics

Increases in the amount of glucose excreted in the urine were observed in healthy subjects and in patients with T2DM following the administration of dapagliflozin. Approximately 70 g of glucose was excreted in the urine per day (corresponding to 280 kcal/day) at a dapagliflozin dose of 10 mg/day in patients with T2DM for 12 weeks. This glucose elimination rate

approached the maximum glucose excretion observed at 20 mg/day of dapagliflozin. Evidence of sustained glucose excretion was seen in patients with T2DM given dapagliflozin 10 mg/day for up to 2 years.

This urinary glucose excretion with dapagliflozin also results in osmotic diuresis and increases in urinary volume. Urinary volume increases in patients with T2DM treated with dapagliflozin 10 mg were sustained at 12 weeks and amounted to approximately 375 mL/day. The increase in urinary volume was associated with a small and transient increase in urinary sodium excretion that was not associated with changes in serum sodium concentrations.

Urinary uric acid excretion was also increased transiently (for 3-7 days) and accompanied by a reduction in serum uric acid concentration. At 24 weeks, reductions in serum uric acid concentrations ranged from 18.3 to 48.3 $\mu\text{mol/L}$ (0.33 mg/dL to 0.87 mg/dL).

N-terminal pro-B-type natriuretic peptide (NT-proBNP): In the DAPA-HF study, the mean change from baseline for NT-proBNP at 8 months was -196 pg/mL in the dapagliflozin-treated group and 101 pg/mL in the placebo group. See [14 CLINICAL TRIALS](#).

Cardiac electrophysiology: In a double-blind, randomized, placebo- and positive-controlled crossover study, single oral doses of dapagliflozin 20 mg and 150 mg were not associated with clinically or statistically significant effects on the QTc interval, the QRS duration, the PR interval, or heart rate in healthy subjects (n=36).

10.3 Pharmacokinetics

Absorption: Dapagliflozin was rapidly and well absorbed after oral administration and can be administered with or without food. Geometric mean steady-state dapagliflozin C_{max} and AUC_t values following once daily 10 mg doses of dapagliflozin were 158 ng/mL and 628 ng.h/mL, respectively. Maximum dapagliflozin plasma concentrations (C_{max}) were usually attained within 2 hours after administration in the fasted state. The C_{max} and AUC values increased proportionally to the increment in dapagliflozin dose. The absolute oral bioavailability of dapagliflozin following the administration of a 10 mg dose is 78%. Food had relatively modest effects on the pharmacokinetics of dapagliflozin in healthy subjects. Administration with a high-fat meal decreased dapagliflozin C_{max} by up to 50% and prolonged T_{max} by approximately 1 hour, but did not alter AUC as compared with the fasted state. These changes are not considered to be clinically meaningful.

Distribution: Dapagliflozin is approximately 91% protein bound. Protein binding was not altered in various disease states (e.g., renal or hepatic impairment).

Metabolism: Dapagliflozin is a C-linked glucoside, meaning the aglycone component is attached to glucose by a carbon-carbon bond, thereby conferring stability against glucosidase enzymes. The mean plasma terminal half-life (t_{1/2}) for dapagliflozin was 12.9 hours following a single oral dose of dapagliflozin 10 mg to healthy subjects. Dapagliflozin is extensively metabolized, primarily to yield dapagliflozin 3-O-glucuronide, which is an inactive metabolite. Dapagliflozin 3-O-glucuronide accounted for 61% of a 50 mg [¹⁴C]-dapagliflozin dose and was the predominant drug-related component in human plasma, accounting for 42% (based on AUC[0-12 h]) of total plasma radioactivity, similar to the 39% contribution by parent drug. Based

on AUC, no other metabolite accounted for >5% of the total plasma radioactivity at any time point measured. Dapagliflozin 3-O-glucuronide or other metabolites do not contribute to the glucose-lowering effects. The formation of dapagliflozin 3-O-glucuronide is mediated by UGT1A9, an enzyme present in the liver and kidney, and CYP-mediated metabolism was a minor clearance pathway in humans.

Excretion: Dapagliflozin and related metabolites are primarily eliminated via urinary excretion, of which less than 2% is unchanged dapagliflozin. After administration of 50 mg [14C]-dapagliflozin dose, 96% was recovered, 75% in urine and 21% in feces. In feces, approximately 15% of the dose was excreted as parent drug.

Special Populations and Conditions

- **Pediatrics:** Pharmacokinetics in the pediatric and adolescent population have not been studied.
- **Age/Geriatrics:** No dosage adjustment for dapagliflozin is recommended on the basis of age. The effect of age (young: ≥ 18 to < 40 years [$n=105$] and elderly: ≥ 65 years [$n=224$]) was evaluated as a covariate in a population pharmacokinetic model and compared to patients ≥ 40 to < 65 years using data from healthy subject and T2DM patient studies). The mean dapagliflozin systemic exposure (AUC) in young patients was estimated to be 10.4% lower than in the reference group (90% CI: 87.9, 92.2%) and 25% higher in elderly patients compared to the reference group (90% CI: 123, 129%). These differences in systemic exposure were considered not to be clinically meaningful.
- **Gender:** No dosage adjustment is recommended for dapagliflozin on the basis of gender. Gender was evaluated as a covariate in a population pharmacokinetic model using data from healthy subject and T2DM patient studies. The mean dapagliflozin AUCs in females ($n=619$) was estimated to be 22% higher than in males ($n=634$) (90% CI: 117,124).
- **Ethnic origin:** No dosage adjustment is recommended on the basis of race. Race (white, black or Asian) was evaluated as a covariate in a population pharmacokinetic model using data from healthy subject and T2DM patient studies. Differences in systemic exposures between these races were small. Compared to whites ($n=1147$), Asian subjects ($n=47$) had no difference in estimated mean dapagliflozin systemic exposures (90% CI range 3.7% lower, 1% higher). Compared to whites, black subjects ($n=43$) had 4.9% lower estimated mean dapagliflozin systemic exposures (90% CI range 7.7% lower, 3.7% lower).
- **Body weight:** No dose adjustment is recommended in patients with diabetes mellitus or in patients without diabetes on the basis of weight. In a population pharmacokinetic analysis using data from healthy subject and T2DM patient studies, systemic exposures in high body weight subjects (≥ 120 kg, $n=91$) were estimated to be 78.3% (90% CI: 78.2, 83.2%) of those of reference subjects with body weight between 75 and 100 kg. No dose adjustment from the proposed dose of 10 mg dapagliflozin once daily in T2DM patients with high body weight (≥ 120 kg) is recommended. Subjects with low body weights (< 50 kg) were not well represented in the healthy subject and patient studies used in the

population pharmacokinetic analysis. Therefore, dapagliflozin systemic exposures were simulated with a large number of subjects. The simulated mean dapagliflozin systemic exposures in low body weight subjects were estimated to be 29% higher than subjects with the reference group body weight. Based on these findings no dose adjustment from the proposed dose of 10 mg dapagliflozin once daily in T2DM patients with low body weight (<50 kg) is recommended.

- **Renal insufficiency:** At steady-state (20 mg once-daily dapagliflozin for 7 days), patients with T2DM and mild, moderate or severe renal impairment (as determined by iohexol clearance) had mean systemic exposures of dapagliflozin that were 32%, 60% and 87% higher, respectively, than those of patients with T2DM and normal renal function. Higher systemic exposures to dapagliflozin in patients with T2DM and renal impairment did not result in a correspondingly higher renal glucose clearance or total cumulative glucose excretion. The renal glucose clearance and 24-hour glucose excretion were lower in patients with moderate or severe renal impairment as compared to patients with normal and mild renal impairment. The steady-state 24-hour urinary glucose excretion was highly dependent on renal function and 85, 52, 18 and 11 g of glucose/day was excreted by patients with T2DM and normal renal function or mild, moderate or severe renal impairment, respectively. There were no differences in the protein binding of dapagliflozin between renal impairment groups or compared to healthy subjects. The impact of hemodialysis on dapagliflozin exposure is not known. The effect of reduced renal function on systemic exposure was evaluated in a population pharmacokinetic model. Consistent with previous results, model predicted AUC was higher in patients with chronic kidney disease compared with patients with normal renal function, and was not meaningfully different between chronic kidney disease patients with type 2 diabetes mellitus and without diabetes.
- **Hepatic insufficiency:** A single dose (10 mg) dapagliflozin clinical pharmacology study was conducted in patients with mild, moderate or severe hepatic impairment (Child-Pugh classes A, B, and C, respectively) and healthy matched controls. There were no differences in the protein binding of dapagliflozin between patients with hepatic impairment compared to healthy subjects. In patients with mild or moderate hepatic impairment mean C_{max} and AUC of dapagliflozin were up to 12% and 36% higher, respectively, compared to healthy matched control subjects. In patients with severe hepatic impairment (Child-Pugh class C) mean C_{max} and AUC of dapagliflozin were up to 40% and 67% higher than matched healthy controls, respectively.

11 STORAGE, STABILITY AND DISPOSAL

Store at room temperature, 15-30°C.

Protect from moisture. Keep in tightly closed bottles.

12 SPECIAL HANDLING INSTRUCTIONS

Store in a safe place and out of the reach of children.

PART II: SCIENTIFIC INFORMATION

13 PHARMACEUTICAL INFORMATION

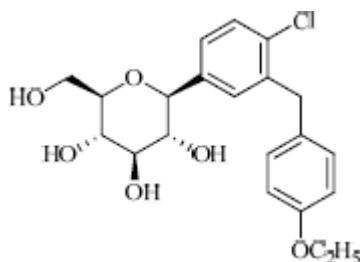
Drug Substance

Proper name: dapagliflozin

Chemical name: (1S)-1,5-Anhydro-1-C-[4-chloro-3-[(4-ethoxyphenyl)methyl]phenyl]-D-glucitol; (2S,3R,4R,5S,6R)-2-(3-(4-ethoxybenzyl)-4-chlorophenyl)-6-hydroxymethyltetrahydro-2H-pyran-3,4,5-triol

Molecular formula and molecular mass: C₂₁H₂₅ClO₆; 408.87 g/mol (dapagliflozin)

Structural formula:



Physicochemical properties: Dapagliflozin is a white to off-white amorphous powder. It is Soluble in methanol and practically insoluble in cyclohexane and water.

14 CLINICAL TRIALS

14.1 Trial Design and Study Demographics

Table 11 Summary of patient demographics for clinical trials in specific indications

Study #	Trial design	Dosage, route of administration and duration	N per group/ N treated with dapagliflozin/ Total	Mean age	Gender (% M/F)
Clinical Trials in Patients with T2DM Treated for Glycemic Control					
Monotherapy					
1	Multicentre, randomized, double-blind, placebo-controlled	Group 1: dapagliflozin 2.5, 5 or 10 mg, QAM or QPM, vs. placebo Oral, 24 weeks + 78 weeks Group 2: dapagliflozin 5 or 10 mg, QAM Oral, 24 weeks + 78 weeks	64 - 76/ 410/ 485 (ST) 34, 39/ 73/ 73 (ST)	52.6 48.1	47/53 64/36
Add-on Combination Therapy with Metformin					

Study #	Trial design	Dosage, route of administration and duration	N per group/ N treated with dapagliflozin/ Total	Mean age	Gender (% M/F)
Clinical Trials in Patients with T2DM Treated for Glycemic Control					
2	Multicentre, randomized, double-blind, placebo-controlled	4 groups: dapagliflozin 2.5, 5, or 10 mg or placebo Background therapy: Metformin \geq 1500 mg/day Oral, 24 weeks + 78 weeks	135 - 137/ 409/ 546 (ST)	53.9	53/47
3	Multicentre, randomized, double-blind, active-controlled	2 groups: dapagliflozin titrated dose of 2.5, 5, or 10 mg or glipizide titrated dose of 5, 10, or 20 mg Background therapy: metformin \geq 1500 mg Oral, 52 weeks + 52 weeks + 52 weeks	406 - 408/ 406/ 814 (ST)	58.4	55/45
Add-on Combination Therapy with a Sulfonylurea					
4	Multicentre, randomized, double-blind, placebo-controlled	4 groups: dapagliflozin 2.5, 5, or 10 mg or placebo Background therapy: glimepiride 4 mg/day Oral, 24 weeks + 24 weeks	146 - 154/ 450/ 596 (ST)	59.8	48/52
Add-on Combination Therapy with Metformin and a Sulfonylurea					
5	Multicentre, randomized, double-blind, placebo-controlled	2 groups: dapagliflozin 10 mg or placebo Background therapy: metformin \geq 1500 mg and a sulfonylurea (at maximum tolerated dose and \geq 50% of maximum recommended dose) Oral, 24 weeks + 28 weeks	109/ 109/ 218 (ST)	61.0	49/51
Add-on Combination Therapy with Sitagliptin Alone or with Metformin					
6	Multicentre, randomized,	2 groups: dapagliflozin 10 mg or placebo	225 - 226/ 225/	55.0	55/45

Study #	Trial design	Dosage, route of administration and duration	N per group/ N treated with dapagliflozin/ Total	Mean age	Gender (% M/F)
Clinical Trials in Patients with T2DM Treated for Glycemic Control					
	double-blind, placebo-controlled	Background therapy: Sitagliptin 100 mg/day (+/- metformin ≥1500 mg) Oral, 24 weeks + 24 weeks	451 (ST)		
Add-on Combination Therapy with Insulin					
7	Multicentre, randomized, double-blind, placebo-controlled	4 groups: dapagliflozin 2.5, 5, or 10 mg or placebo Background therapy: insulin ≥30 IU/day ± maximum 2 OAD In LT, forced titration of dapagliflozin 5 mg to 10 mg Oral, 24 weeks + 24 weeks + 56 weeks	196 - 212/ 610/ 807 (ST)	59.3	48/52
Cardiovascular Outcomes in Patients with T2DM					
8	Multicentre, randomized, double-blind, placebo-controlled	2 groups: dapagliflozin 10 mg or placebo Oral, mean follow-up time of 4.1 years	8578-8582/ 8582/ 17160	63.9	63/37
Clinical Trials in Patients with Heart Failure					
9	Multicentre, randomized, double-blind, placebo-controlled	Dapagliflozin 10 mg or Placebo	2373 – 2371/ 2368/ 4744	66	77/23
10	Multicentre, randomized, double-blind, placebo-controlled	Dapagliflozin 10 mg or Placebo	3131 – 3132/ 3126/ 6263	72	56/44
Clinical Trial in Patients with Chronic Kidney Disease					
11	Multicentre, randomized, double-blind, placebo-controlled	Dapagliflozin 10 mg or Placebo	2152/ 2152/ 4304	61.8	67/33

LT = long-term; OAD = oral anti-diabetic drug; QAM = once in the morning; QPM = once in the evening; ST = short-term.

Clinical Trials in Patients with T2DM Treated for Glycemic Control

Dapagliflozin was studied as monotherapy and in combination with other antidiabetic medications, including metformin, glimepiride, or insulin. Dapagliflozin was also studied in

patients with T2DM and CV disease and in patients with mild to moderate renal impairment. Treatment with dapagliflozin as monotherapy and in combination with metformin, glimepiride, or insulin produced clinically relevant and statistically significant improvements in mean change from baseline at Week 24 in HbA1c, fasting plasma glucose (FPG), and 2-hour post-prandial glucose (PPG) (where measured), compared to placebo or control. The estimated, placebo-adjusted, HbA1c reduction across trials and doses ranged from 0.40% to 0.84%. These glycemic effects were sustained in long-term extensions up to 104 weeks. HbA1c reductions were seen across subgroups including gender, age, race, duration of disease, and baseline body mass index (BMI). In addition, patients treated with dapagliflozin compared to placebo or control achieved greater HbA1c reductions in patients with a baseline HbA1c \geq 9%.

Cardiovascular Outcomes Trial in Patients with T2DM

A large CV outcomes study (DECLARE-TIMI 58) assessed the effect of dapagliflozin on CV outcomes in patients with T2DM with and without established CV disease. Treatment with dapagliflozin 10 mg once daily resulted in a statistically significant and clinically relevant reduction in the risk of hospitalization for HF in patients with type 2 diabetes with and without established CV disease.

Clinical Trials in Patients with Heart Failure (DAPA-HF and DELIVER)

DAPA-HF

The effect of dapagliflozin 10 mg once daily versus placebo, on top of standard of care, on CV death, hospitalization for heart failure (HF) and urgent HF visits in patients with HFrEF (New York Heart Association [NYHA] II-IV) was assessed in a Phase III study. Dapagliflozin demonstrated a statistically significant reduction in the incidence of the primary composite endpoint of CV death, hospitalization for heart failure or urgent heart failure visit compared with placebo, with all three components individually contributing to the treatment effect.

DELIVER

DELIVER evaluated the effect of dapagliflozin 10 mg once daily compared with placebo on the composite endpoint of CV death, hospitalisation for HF or an urgent HF visit (hereafter referred to as CV death or an HF event) in patients with HF and LVEF > 40% (NYHA class II-IV). Compared to placebo, dapagliflozin demonstrated a statistically significant reduction in the incidence of the primary composite endpoint of CV death or an HF event in the full study population and in the subpopulation with LVEF < 60%.

Clinical Trial in Patients with Chronic Kidney Disease (DAPA-CKD)

The DAPA-CKD study evaluated the effect of dapagliflozin 10 mg once daily versus placebo, on top of standard of care, in patients with chronic kidney disease. Dapagliflozin demonstrated a statistically significant reduction in the incidence of the primary composite endpoint of \geq 50% sustained eGFR decline, reaching end-stage kidney disease (ESKD), CV or renal death.

14.2 Study Results

Clinical Trials in Patients with T2DM Treated for Glycemic Control

Monotherapy (Study 1)

The efficacy and safety of dapagliflozin as monotherapy was evaluated in a double-blind, placebo- controlled study of 24 weeks duration in treatment-naïve patients. Following a 2-week diet and exercise placebo lead-in period, 485 patients with HbA1c $\geq 7\%$ and $\leq 10\%$ were randomized to dapagliflozin 2.5 mg, dapagliflozin 5 mg, or 10 mg once daily in either the morning (QAM, main cohort) or evening (QPM), or placebo in the morning only.

As shown in Table 12, statistically significant reductions ($p < 0.001$) in HbA1c and FPG relative to placebo were observed with dapagliflozin 5 mg and 10 mg QAM at Week 24 which were sustained long term. Overall, the PM administration of dapagliflozin had a comparable safety and efficacy profile to dapagliflozin administered in the AM.

Table 12 Results at Week 24 (LOCF^{*}) in a Placebo-Controlled Study of Dapagliflozin Monotherapy in Patients with Type 2 Diabetes (Main Cohort AM Doses)

Efficacy Parameter	Dapagliflozin 5 mg N=64[†]	Dapagliflozin 10 mg N=70[†]	Placebo N=75[†]
HbA1c (%)			
Baseline (mean)	7.83	8.01	7.79
Change from baseline (adjusted mean [†])	-0.77	-0.89	-0.23
Difference from placebo (adjusted mean [†]) (95% CI)	-0.54 [§] (-0.84, -0.24)	-0.66 [§] (-0.96, -0.36)	
Patients (%) achieving HbA1c <7% adjusted for baseline	44.2 [¶]	50.8 [¶]	31.6
FPG (mmol/L)			
Baseline (mean)	8.7	9.3	8.9
Change from baseline (adjusted mean [†])	-1.3	-1.6	-0.2
Difference from placebo (adjusted mean [†]) (95% CI)	-1.1 [§] (-1.7, -0.5)	-1.4 [§] (-2.0, -0.8)	
Body Weight (kg)			
Baseline (mean)	87.17	94.13	88.77
Change from baseline (adjusted mean [†])	-2.83	-3.16	-2.19
Difference from placebo (adjusted mean [†]) (95% CI)	-0.65 (-1.90, 0.61)	-0.97 (-2.20, 0.25)	

* LOCF: last observation (prior to rescue for rescued patients) carried forward.

† All randomized patients who took at least one dose of double-blind study medication during the

- short-term double-blind period.
- ‡ Least squares mean adjusted for baseline value.
- § p-value <0.001 vs. placebo.
- ¶ Not evaluated for statistical significance as a result of the sequential testing procedure for the secondary endpoints.

Combination Therapy:

Add-On Therapy with Metformin (Study 2)

A 24-week double-blind, placebo-controlled study was conducted to evaluate dapagliflozin in combination with metformin in patients with T2DM with inadequate glycemic control (HbA1c $\geq 7\%$ and $\leq 10\%$). Patients on metformin at a dose of at least 1500 mg per day were randomized after completing a 2-week single-blind placebo lead-in period. Following the lead-in period, eligible patients were randomized to dapagliflozin 2.5 mg, dapagliflozin 5 mg, or 10 mg, or placebo in addition to their current dose of metformin.

As shown in Table 13, statistically significant ($p < 0.0001$) reductions in HbA1c, FPG and body weight relative to placebo were observed with dapagliflozin 5 mg and 10 mg at Week 24 which were sustained long term.

Table 13 Results of a 24-Week (LOCF*) Placebo-Controlled Study of Dapagliflozin in Add-On Combination with Metformin

Efficacy Parameter	Dapagliflozin 5 mg + Metformin N=137 [‡]	Dapagliflozin 10 mg + Metformin N=135 [‡]	Placebo + Metformin N=137 [‡]
HbA1c (%)			
Baseline mean	8.17	7.92	8.11
Change from baseline (adjusted mean [‡])	-0.70	-0.84	-0.30
Difference from placebo (adjusted mean [‡]) (95% CI)	-0.41 [§] (-0.61, -0.21)	-0.54 [§] (-0.74, -0.34)	
Patients (%) achieving HbA1c <7% adjusted for baseline	37.5 [¶]	40.6 [¶]	25.9
FPG (mmol/L)			
Baseline mean	9.4	8.7	9.2
Change from baseline at week 24 (adjusted mean [‡])	-1.2	-1.3	-0.3
Difference from placebo (adjusted mean [‡]) (95% CI)	-0.9 [§] (-1.3, -0.5)	-1.0 [§] (-1.4, -0.6)	

Efficacy Parameter	Dapagliflozin 5 mg + Metformin N=137 [†]	Dapagliflozin 10 mg + Metformin N=135 [†]	Placebo + Metformin N=137 [†]
Body Weight (kg)			
Baseline mean	84.73	86.28	87.74
Change from baseline (adjusted mean [‡])	-3.04	-2.86	-0.89
Difference from placebo (adjusted mean [‡]) (95% CI)	-2.16 [§] (-2.81, -1.50)	-1.97 [§] (-2.63, -1.31)	

* LOCF: last observation (prior to rescue for rescued patients) carried forward.

[†] All randomized patients who took at least one dose of double-blind study medication during the short-term double-blind period.

[‡] Least squares mean adjusted for baseline value.

[§] p-value <0.0001 vs. placebo + metformin.

[¶] p-value <0.05 vs. placebo + metformin.

Add-On Therapy with Metformin – Active-Controlled Study versus Glipizide (Study 3) Patients with T2DM with inadequate glycemic control (HbA1c >6.5% and ≤10%) were randomized in a 52-week, double-blind, glipizide-controlled non-inferiority study to evaluate dapagliflozin as add-on therapy to metformin. Patients on metformin at a dose of at least 1500 mg per day were randomized following a 2-week placebo lead-in period to glipizide or dapagliflozin (5 mg or 2.5 mg, respectively) and were up-titrated over 18 weeks to optimal glycemic effect (FPG <110 mg/dL, <6.1 mmol/L) or to the highest dose level (up to glipizide 20 mg and dapagliflozin 10 mg) as tolerated by patients. Thereafter, doses were kept constant, except for down-titration to prevent hypoglycemia.

At the end of the titration period, 87% of patients treated with dapagliflozin had been titrated to the maximum study dose (10 mg), versus 73% treated with glipizide (20 mg). As shown in Table 14, treatment with dapagliflozin provided similar reductions in HbA1c from baseline compared to glipizide (with the upper bound of the 95% confidence interval around the between-group difference less than the pre-specified non-inferiority margin of 0.35%). Statistically significant (p<0.0001) reductions in body weight were observed with dapagliflozin compared to glipizide.

Table 14 Results at Week 52 (LOCF*) in an Active-Controlled Study comparing Dapagliflozin to Glipizide as Add-on to Metformin

Efficacy Parameter	Dapagliflozin + Metformin N=400 [†]	Glipizide + Metformin N=401 [†]
HbA1c (%)		
Baseline (mean)	7.69	7.74
Change from baseline (adjusted mean [‡])	-0.52	-0.52

Efficacy Parameter	Dapagliflozin + Metformin N=400[†]	Glipizide + Metformin N=401[†]
Difference from Glipizide+Metformin (adjusted mean [‡]) (95% CI)	0.00 [¶] (-0.11, 0.11)	
Body Weight (kg)		
Baseline (mean)	88.44	87.60
Change from baseline (adjusted mean [‡])	-3.22	1.44
Difference from Glipizide+Metformin (adjusted mean [‡]) (95% CI)	-4.65 [§] (-5.14, -4.17)	

* LOCF: last observation carried forward.

[†] Randomized and treated patients with baseline and at least 1 post-baseline efficacy measurement.

[‡] Least squares mean adjusted for baseline value.

[§] p-value <0.0001.

[¶] non-inferior to glipizide + metformin.

Add-On Therapy with a Sulfonylurea (Study 4)

Patients with T2DM and inadequate glycemic control (HbA1c ≥7% and ≤10%) were randomized in a 24-week, double-blind, placebo-controlled study to evaluate dapagliflozin in combination with glimepiride (a sulfonylurea). Patients on at least half the maximum recommended dose of a glimepiride as monotherapy (4 mg) for at least 8 weeks lead-in were randomized to dapagliflozin 2.5 mg, dapagliflozin 5 mg, or 10 mg or placebo in addition to glimepiride 4 mg per day. Down-titration of glimepiride to 2 mg or 0 mg was allowed for hypoglycemia during the treatment period; no up-titration of glimepiride was allowed.

As shown in Table 15, treatment with dapagliflozin 5 mg and 10 mg in combination with glimepiride provided significant reductions in HbA1c, FPG, 2-hour PPG, and body weight relative to placebo plus glimepiride at Week 24 which were sustained long term.

Table 15 Results of 24 Week (LOCF^{*}) Placebo-Controlled Study of Dapagliflozin in Combination with a Sulfonylurea (Glimepiride)

Efficacy Parameter	Dapagliflozin 5 mg + Glimepiride N=142[†]	Dapagliflozin 10 mg + Glimepiride N=151[†]	Placebo + Glimepiride N=145[†]
HbA1c (%)			
Baseline mean	8.12	8.07	8.15
Change from baseline (adjusted mean [‡])	-0.63	-0.82	-0.13

Efficacy Parameter	Dapagliflozin 5 mg + Glimepiride N=142[†]	Dapagliflozin 10 mg + Glimepiride N=151[†]	Placebo + Glimepiride N=145[†]
Difference from placebo + glimepiride (adjusted mean [‡]) (95% CI)	-0.49 [§] (-0.67, -0.32)	-0.68 [§] (-0.86, -0.51)	
Patients (%) achieving HbA1c <7% adjusted for baseline	30.3 [§]	31.7 [§]	13.0
FPG (mmol/L)			
Baseline mean	9.7	9.6	9.6
Change from baseline (adjusted mean [‡])	-1.2	-1.6	-0.1
Difference from placebo + glimepiride (adjusted mean [‡]) (95% CI)	-1.1 [§] (-1.5, -0.7)	-1.5 [§] (-1.9, -1.1)	
2-hour PPG[¶] (mmol/L)			
Baseline (mean)	17.9	18.3	18.0
Change from baseline (adjusted mean [‡])	-3.0	-3.4	-0.6
Difference from placebo + glimepiride (adjusted mean [‡]) (95% CI)	-2.4 [§] (-3.2, -1.5)	-2.7 [§] (-3.6, -1.9)	
Body Weight (kg)			
Baseline mean	81.00	80.56	80.94
Change from baseline (adjusted mean [‡])	-1.56	-2.26	-0.72
Difference from placebo + glimepiride (adjusted mean [‡]) (95% CI)	-0.84 ^{§§} (-1.47, -0.21)	-1.54 [§] (-2.17, -0.92)	

- * LOCF: last observation (prior to rescue for rescued patients) carried forward.
† Randomized and treated patients with baseline and at least 1 post-baseline efficacy measurement.
‡ Least squares mean adjusted for baseline value.
§ p-value <0.0001 versus placebo.
§§ p-value 0.0091 versus placebo.
¶ 2-hour PPG level as a response to a 75 g oral glucose tolerance test (OGTT).

Add-On Therapy with Metformin and a Sulfonylurea (Study 5)

Patients with T2DM and inadequate glycemic control (HbA1c ≥7% and ≤10.5%) participated in a 24-week, double-blind, placebo-controlled study to evaluate dapagliflozin in combination with metformin and a sulfonylurea. Patients on a stable dose of metformin (immediate- or extended-

release formulations) ≥ 1500 mg/day plus maximum tolerated dose, which must be at least half maximum dose, of a sulfonylurea for at least 8 weeks prior to enrolment were randomized after an 8-week placebo lead-in period to dapagliflozin 10 mg or placebo. Dose-titration of dapagliflozin or metformin was not permitted during the 24-week treatment period. Down-titration of sulfonylurea was permitted to prevent hypoglycemia during the treatment period; no up-titration of sulfonylurea was allowed.

As shown in Table 16, treatment with dapagliflozin 10 mg in combination with metformin and a sulfonylurea provided significant reductions in HbA1c, FPG and body weight relative to placebo at Week 24 which were sustained long term. At Week 8, statistically significant changes from baseline in systolic blood pressure (SBP, mmHg) of -4.0, and -0.3 were observed dapagliflozin 10 mg, and placebo, respectively ($p < 0.05$).

Table 16 Results of 24-Week (LOCF*) Placebo-Controlled Study of Dapagliflozin in Combination with Metformin and Sulfonylurea

Efficacy Parameter	Dapagliflozin 10 mg + Metformin + Sulphonylurea N=108[†]	Placebo + Metformin + Sulphonylurea N=108[†]
HbA1c (%)		
Baseline mean	8.08	8.24
Change from baseline (adjusted mean ^{‡,‡‡})	-0.86	-0.17
Difference from placebo (adjusted mean ^{‡,‡‡}) (95% CI)	-0.69 [§] (-0.89, -0.49)	
Patients (%) achieving HbA1c <7% adjusted for baseline	31.8 [§]	11.1
FPG (mmol/L)		
Baseline mean	9.3	10.0
Change from baseline at Week 24 (adjusted mean [‡])	-1.9	-0.04
Difference from placebo (adjusted mean [‡]) (95% CI)	-1.86 [§] (-2.4, -1.3)	
Body Weight (kg)		
Baseline mean	88.57	90.07

Efficacy Parameter	Dapagliflozin 10 mg + Metformin + Sulphonylurea N=108 [†]	Placebo + Metformin + Sulphonylurea N=108 [†]
Change from baseline (adjusted mean [‡])	-2.65	-0.58
Difference from placebo (adjusted mean [‡]) (95% CI)	-2.07 [§] (-2.79, -1.35)	

- * LOCF: last observation (prior to rescue for rescued patients) carried forward.
† Randomized and treated patients with baseline and at least 1 post-baseline efficacy measurement.
‡ Least squares mean adjusted for baseline value based on ANCOVA model.
‡‡ Least squares mean adjusted for baseline value based on a longitudinal repeated measures model
§ p-value <0.0001 versus placebo.

Add-On Combination Therapy with Sitagliptin Alone or in Combination with Metformin (Study 6)

A total of 452 patients with T2DM who were drug naive, or who were treated at entry with metformin or sitagliptin alone or in combination, and had inadequate glycemic control (HbA1c ≥7.0% and ≤10.0% at randomization), participated in a 24-week, placebo-controlled study with a 24-week extension.

Patients were stratified based on background metformin use (≥1500 mg/day) and within each stratum were randomized to either dapagliflozin 10 mg plus sitagliptin 100 mg once daily or placebo plus sitagliptin 100 mg once daily. Endpoints were tested for dapagliflozin 10 mg versus placebo for the total study group (sitagliptin with and without metformin) and for each stratum (sitagliptin alone or sitagliptin with metformin).

As shown in Table 17, statistically significant (p<0.0001) reductions in HbA1c, FPG and body weight relative to placebo were observed with dapagliflozin 10 mg treatment for the total study group (sitagliptin with and without metformin) and for each stratum (sitagliptin alone or sitagliptin with metformin) at Week 24.

Table 17 Results of a 24-Week (LOCF*) Placebo-Controlled Study of Dapagliflozin in Add-On Combination with Sitagliptin with or without Metformin (Full Analysis Set and Strata without or with Metformin)

Efficacy Parameter	Dapagliflozin 10 mg + Sitagliptin + or -Met N=223 [†]	Placebo + Sitagliptin + or -Met N=224 [†]	Dapagliflozin 10 mg + Sitagliptin N=110 [†]	Placebo + Sitagliptin N=111 [†]	Dapagliflozin 10 mg + Sitagliptin +Met N=113 [†]	Placebo + Sitagliptin +Met N=113 [†]

Efficacy Parameter	Dapagliflozin 10 mg + Sitagliptin + or –Met N=223[†]	Placebo + Sitagliptin + or –Met N=224[†]	Dapagliflozin 10 mg + Sitagliptin N=110[†]	Placebo + Sitagliptin N=111[†]	Dapagliflozin 10 mg + Sitagliptin +Met N=113[†]	Placebo + Sitagliptin +Met N=113[†]
HbA1c (%)	N=223	N=223	N=110	N=110	N=113	N=113
Baseline (mean)	7.90	7.97	7.99	8.07	7.80	7.87
Change from baseline (adjusted mean [‡])	-0.45	0.04	-0.47	0.10	-0.43	-0.02
Difference from placebo (adjusted mean [‡]) (95% CI)	-0.48 [§] (-0.62, -0.34)		-0.56 [§] (-0.79, -0.34)		-0.40 [§] (-0.58, -0.23)	
FPG (mmol/L)	N=222	N=222	N=110	N=110	N=112	N=112
Baseline (mean)	8.97	9.05	8.73	8.96	9.21	9.14
Change from baseline at Week 24 (adjusted mean [‡])	-1.34	0.21	-1.22	0.26	-1.45	0.17
Difference from placebo (adjusted mean [‡]) (95% CI)	-1.55 [§] (-1.91, -1.19)		-1.47 [§] (-2.01, -0.94)		-1.62 [§] (-2.11, -1.13)	
Body Weight (kg)	N=223	N=224	N=110	N=111	N=113	N=113
Baseline (mean)	91.02	89.23	88.01	84.20	93.95	94.17
Change from baseline (adjusted mean [‡])	-2.14	-0.26	-1.91	-0.06	-2.35	-0.47
Difference from placebo (adjusted mean [‡]) (95% CI)	-1.89 [§] (-2.37, -1.40)		-1.85 [§] (-2.47, -1.23)		-1.87 [§] (-2.61, -1.13)	

* LOCF: last observation (prior to rescue for rescued patients) carried forward.

† Randomized and treated patients with baseline and at least 1 post-baseline efficacy measurement.

‡ Least squares mean adjusted for baseline value.

§ p-value <0.0001 versus placebo.

Add-On Therapy with Insulin (Study 7)

Patients with T2DM who had inadequate glycemic control (HbA1c ≥7.5% and ≤10.5%) were randomized in a 24-week, double-blind, placebo-controlled study to evaluate dapagliflozin as add-on therapy to insulin. Patients on a stable insulin regimen, with a mean dose of at least 30

IU of injectable insulin per day, for a period of at least 8 weeks prior and on a maximum of two oral antidiabetic medications (OADs) were randomized after completing a 2-week enrolment period to receive dapagliflozin 2.5 mg, dapagliflozin 5 mg, or 10 mg, or placebo in addition to their current dose of insulin and other OADs, if applicable. Patients were stratified according to the presence or absence of background OADs. Up- or down-titration of insulin was only permitted during the treatment phase in patients who failed to meet specific glycemic goals. Subjects on metformin were to be on ≥ 1500 mg/day.

In this study, 50% (N=392) of patients were on insulin monotherapy at baseline, while 50% were on 1 or 2 OADs in addition to insulin. Of the latter, 80% (N=319) were on a background of insulin and metformin dual therapy. An inadequate number of patients on other OAD combinations were included for evaluative purposes; therefore, use with OAD combinations other than metformin alone is not indicated. In the overall patient sample 48% of patients were taking sliding scale and basal insulin, 35% were taking sliding scale insulin alone and 17% were taking basal insulin. Approximately 88% of patients completed up to Week 24. At Week 24, dapagliflozin 5 mg and 10 mg doses provided significant improvement in HbA1c and mean insulin dose, and a significant reduction in body weight compared with placebo (Table 18); the effect of dapagliflozin on HbA1c was similar in patients in both strata.

Table 18 Results of 24 Week (LOCF*) Placebo-Controlled Study of Dapagliflozin in Combination with Insulin with or without up to 2 Oral Antidiabetic Therapies^{§§}

Efficacy Parameter	Dapagliflozin 5 mg + Insulin N=211[†]	Dapagliflozin 10 mg + Insulin N=194[†]	Placebo + Insulin N=193[†]
HbA1c (%)			
Baseline mean	8.61	8.58	8.46
Change from baseline (adjusted mean [‡])	-0.82	-0.90	-0.30
Difference from placebo (adjusted mean [‡]) (95% CI)	-0.52 [§] (-0.66, -0.38)	-0.60 [§] (-0.74, -0.45)	
FPG (mmol/L)			
Baseline mean	10.3	9.6	9.4
Change from baseline (adjusted mean [‡])	-1.0	-1.2	0.2
Difference from placebo (adjusted mean [‡]) (95% CI)	-1.2 (-1.7, -0.7)	-1.4 [§] (-1.9, -0.9)	
Body Weight (kg)			
Baseline mean	93.20	94.63	94.21

Efficacy Parameter	Dapagliflozin 5 mg + Insulin N=211[†]	Dapagliflozin 10 mg + Insulin N=194[†]	Placebo + Insulin N=193[†]
Change from baseline (adjusted mean [‡])	-0.98	-1.67	0.02
Difference from placebo (adjusted mean [‡]) (95% CI)	-1.00 [§] (-1.50, -0.50)	-1.68 [§] (-2.19, -1.18)	

* LOCF: last observation (prior to rescue for rescued patients) carried forward.

† Randomized and treated patients with baseline and at least 1 post-baseline efficacy measurement.

‡ Least squares mean adjusted for baseline value.

§ p-value <0.0001 versus placebo.

§§ Use with oral antidiabetic combinations other than metformin alone is not indicated.

Cardiovascular Outcomes Trial in Patients with T2DM

DECLARE-TIMI 58 (Study 8)

Dapagliflozin Effect on Cardiovascular Events-Thrombolysis in Myocardial Infarction 58 (DECLARE-TIMI 58) was an international, multicentre, randomized, double-blind, placebo-controlled, event-driven clinical study conducted to evaluate the effect of dapagliflozin compared with placebo on CV outcomes when added to current background therapy in patients with T2DM and either CV risk factors or established CV disease. The objective was to be evaluated in two steps. First, non-inferiority between dapagliflozin and placebo was evaluated for the primary safety composite endpoint of CV death, myocardial infarction, and ischemic stroke, referred to as Major Adverse Cardiovascular Events (MACE). If non-inferiority for MACE was demonstrated, the study then tested superiority of the dual primary efficacy endpoints of MACE and the composite of hospitalization for heart failure or cardiovascular death, in parallel².

All patients had T2DM and either multiple risk factors (at least two additional CV risk factors [age ≥55 years in men or ≥60 years in women and one or more of dyslipidemia, hypertension, or current tobacco use]) without having had a CV event at baseline (primary prevention) or established CV disease (secondary prevention). DECLARE-TIMI 58 was designed to ensure inclusion of a broad patient population. Concomitant antidiabetic and atherosclerotic therapies could be adjusted at the discretion of investigators according to the standard care for these diseases.

² Dual primary efficacy endpoints may be used when success on either endpoint could independently support a conclusion of effectiveness. The dual primary efficacy endpoints in DECLARE-TIMI 58 were tested independently and in parallel. Type I error was controlled by splitting the α between the dual primary endpoints.

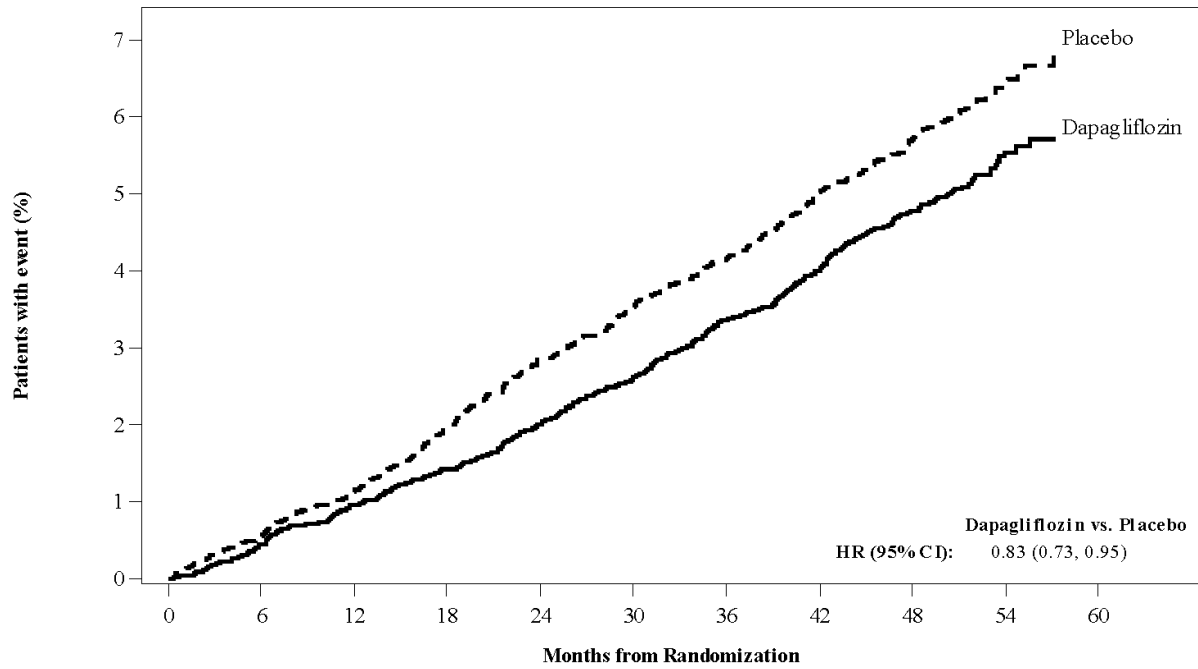
Of 17160 randomized patients, 10186 (59.4%) did not have established CV disease and 6974 (40.6%) had established CV disease. A total of 8582 patients were randomized to dapagliflozin 10 mg, 8578 to placebo, and patients were followed for a mean of 4.1 years. The study was completed by 98.5% of subjects with vital status available for 99.3%, and 13181 (76.8%) subjects completed the study on study drug.

The mean age of the study population was 63.9 years, 37.4% were female, 79.6% were White, 3.5% Black or African-American, and 13.4% Asian. Approximately 46% of patients treated with dapagliflozin were 65 years and older and 6.3% were 75 years and older. In total, 22.4% had had diabetes for ≤ 5 years, and the mean duration of diabetes was 11.9 years. Mean HbA1c was 8.3% and mean BMI was 32.0 kg/ m². At baseline, 10.0% of patients had a history of HF. Mean eGFR was 85.2 mL/min/1.73 m², 7.4% of patients had eGFR <60 mL/min/1.73 m² and 45.1% had eGFR ≥ 60 to <90 mL/min/1.73 m². At baseline, 30.3% of patients had micro- or macroalbuminuria (urine albumin to creatinine ratio ≥ 3.39 to ≤ 33.9 mg/mmol or >33.9 mg/mmol, respectively). Most patients (98.1%) used one or more diabetic medications at baseline: 82.0% of the patients were being treated with metformin, 40.9% with insulin, 42.7% with a sulfonylurea, 16.8% with a DPP-4 inhibitor, and 4.4% with a GLP-1 receptor agonist. Approximately 81.3% of patients were treated with angiotensin-converting enzyme (ACE) inhibitors or angiotensin receptor blocker (ARB), 75.0% with statins, 61.1% with antiplatelet therapy, 55.5% with acetylsalicylic acid, 52.6% with beta-blockers, 34.9% with calcium channel blockers, 22.0% with thiazide diuretics, and 10.5% with loop diuretics.

Dapagliflozin demonstrated CV safety (tested against a non-inferiority margin of 1.3 versus placebo for the composite of CV death, MI or ischemic stroke [MACE]; one-sided $p < 0.001$).

Dapagliflozin was superior to placebo in reducing the incidence of the primary composite endpoint of hospitalization for HF or CV death, representing a 17% reduction in risk (HR 0.83 [95% CI 0.73, 0.95]; $p = 0.005$) (Figure 1). Analyses of the single components suggest that the difference in treatment effect was driven by hospitalization for HF (HR 0.73 [95% CI 0.61, 0.88]), with no clear difference in CV death (HR 0.98 [95% CI 0.82 to 1.17]) (Figure 2).

Figure 1 Time to First Occurrence of Hospitalization for Heart Failure or Cardiovascular Death in the DECLARE-TIMI 58 Study

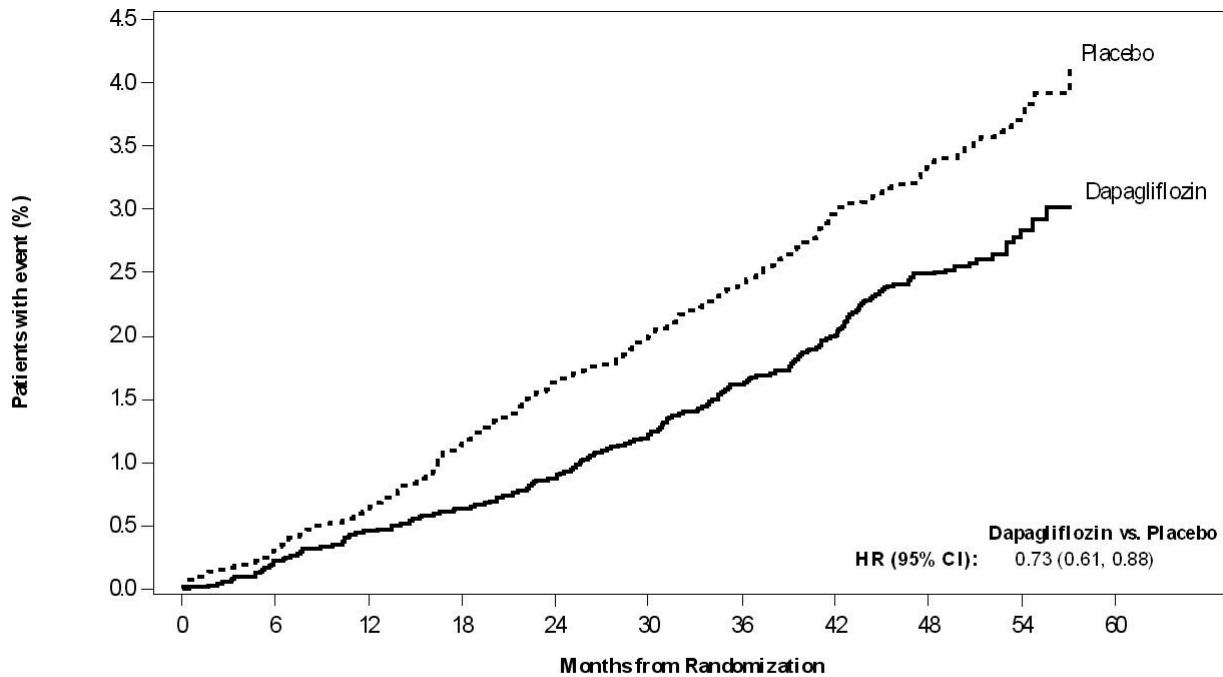


Patients at risk

Dapagliflozin:	8582	8517	8415	8322	8224	8110	7970	7497	5445	1626
Placebo:	8578	8485	8387	8259	8127	8003	7880	7367	5362	1573

Patients at risk is the number of patients at risk at the beginning of the period. CI = confidence interval; HR = hazard ratio.

Figure 2 Time to First Occurrence of Hospitalization for Heart Failure in the DECLARE-TIMI 58 Study



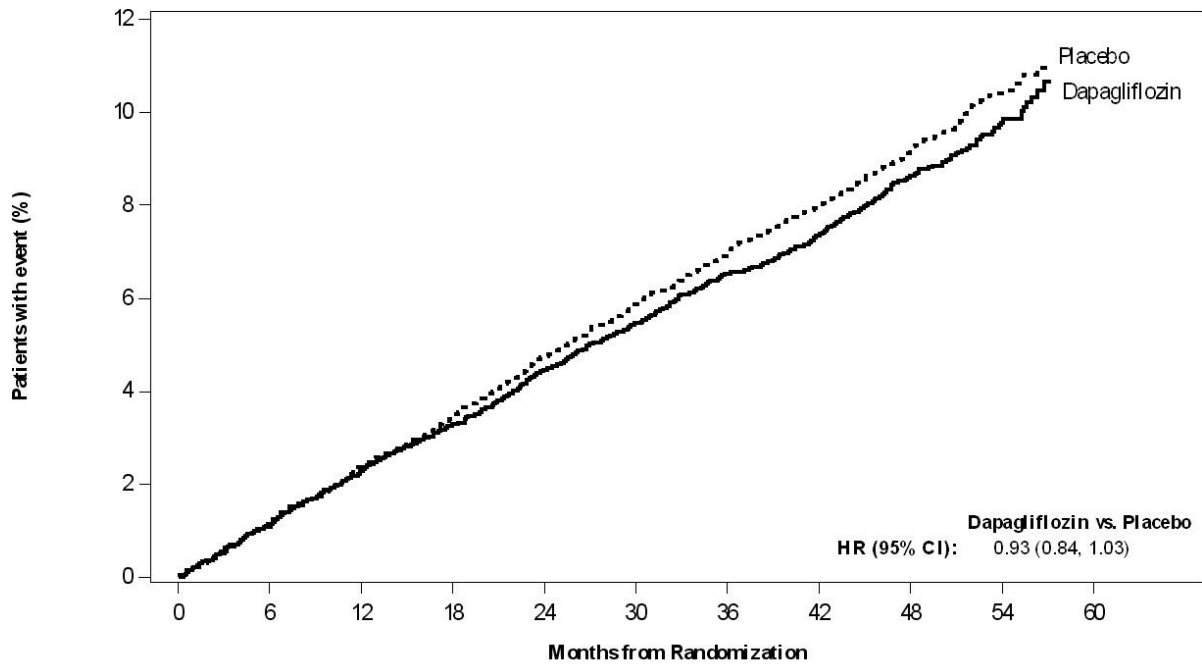
Patients at risk

Dapagliflozin:	8582	8509	8403	8315	8218	8101	7965	7489	5439	1626
Placebo:	8578	8482	8380	8256	8121	7998	7874	7360	5358	1572

Patients at risk is the number of patients at risk at the beginning of the period. CI = confidence interval; HR = hazard ratio.

Superiority of dapagliflozin over placebo was not demonstrated for MACE (HR 0.93 [95% CI 0.84, 1.03]; $p=0.172$) (Figure 3, Table 19). Analyses of the single components of MACE show that the incidence of MI was numerically lower in the dapagliflozin group compared with the placebo group (HR 0.89 [95% CI 0.77 to 1.01]), with no clear difference observed for CV death or ischemic stroke.

Figure 3 Time to First Occurrence of MACE in the DECLARE-TIMI 58 Study



Patients at risk

Dapagliflozin:	8582	8466	8303	8166	8017	7873	7708	7237	5225	1548
Placebo:	8578	8433	8281	8129	7969	7805	7649	7137	5158	1501

Patients at risk is the number of patients at risk at the beginning of the period. CI = confidence interval; HR = hazard ratio.

As MACE was not statistically significant, the secondary endpoints renal composite (time to first confirmed sustained eGFR decrease, ESKD, renal or CV death) and all-cause mortality were not tested as part of the confirmatory testing.

Table 19 Treatment Effects for the Composite Endpoints* and Their Components in the DECLARE-TIMI 58 Study

Efficacy Parameter	Patients with events, n (%)		Hazard ratio (95% CI) [†]	p-value [‡]
	Dapagliflozin 10 mg N=8582	Placebo N=8578		
Composite of Hospitalization for HF, CV Death	417 (4.9)	496 (5.8)	0.83 (0.73, 0.95)	0.005
Hospitalization for HF [§]	212 (2.5)	286 (3.3)	0.73 (0.61, 0.88)	<0.001
CV Death [§]	245 (2.9)	249 (2.9)	0.98	0.830

Efficacy Parameter	Patients with events, n (%)		Hazard ratio (95% CI) [†]	p- value [‡]
	Dapagliflozin 10 mg N=8582	Placebo N=8578		
			(0.82, 1.17)	
Composite Endpoint of CV Death, MI, Ischemic Stroke	756 (8.8)	803 (9.4)	0.93 (0.84, 1.03)	0.172
CV Death [§]	245 (2.9)	249 (2.9)	0.98 (0.82, 1.17)	0.830
Myocardial Infarction [§]	393 (4.6)	441 (5.1)	0.89 (0.77, 1.01)	0.080
Ischemic Stroke [§]	235 (2.7)	231 (2.7)	1.01 (0.84, 1.21)	0.916
Renal Composite Endpoint^{§§}	370 (4.3)	480 (5.6)	0.76 (0.67, 0.87)	
All-Cause Mortality	529 (6.2)	570 (6.6)	0.93 (0.82, 1.04)	

N = number of patients; CI = confidence interval; HF = heart failure; CV = cardiovascular; MI = myocardial infarction; eGFR = estimated glomerular filtration rate; ESKD=End stage kidney disease.

* Full analysis set.

† Hazard ratio, CI, and p-values for each efficacy parameter calculated from Cox proportional hazards model (Wald test) based on time to first occurrence, stratified by baseline CV risk and hematuria with treatment as a model term.

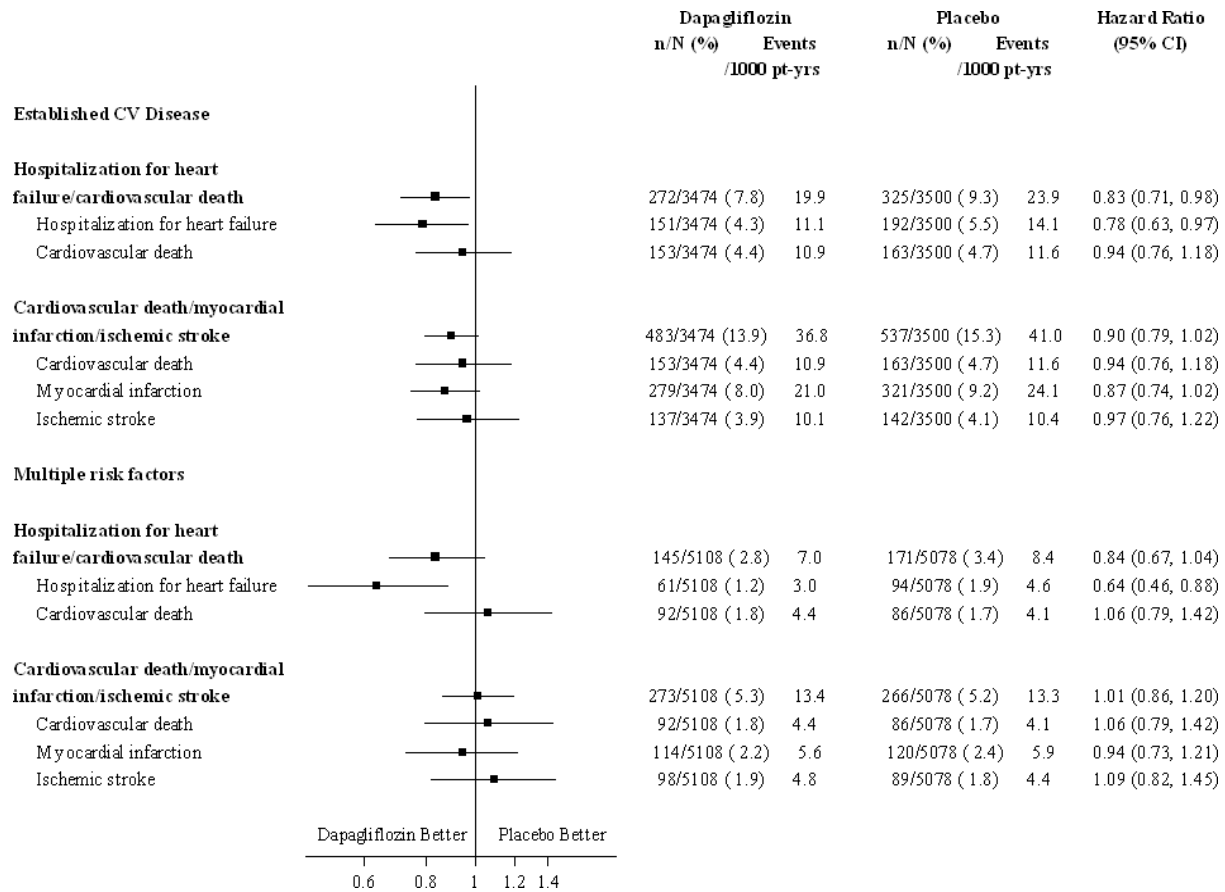
‡ Superiority versus placebo for hospitalization for heart failure or CV death, and superiority versus placebo for MACE were tested in parallel following closed testing procedure at $\alpha=0.0231$ (two-sided). As the composite of hospitalization for heart failure and CV was statistically significant, the full α was recycled to test MACE at $\alpha=0.0462$ (two-sided). As MACE was not statistically significant, the secondary endpoints of renal composite and all-cause mortality were not tested as part of the confirmatory testing procedure.

§ The components of the composite endpoints were exploratory variables.

§§ Confirmed sustained $\geq 40\%$ decrease in eGFR to eGFR < 60 mL/min/1.73 m², ESKD (dialysis ≥ 90 days or kidney transplantation, confirmed sustained eGFR < 15 mL/min/1.73 m²), renal or CV death.

Patients in DECLARE-TIMI 58 were stratified by CV risk category (CV risk factors or established CV disease). The benefit of dapagliflozin over placebo in reducing the risk of hospitalization for heart failure was observed both in patients with and without established CV disease (Figure 4) and was consistent across key subgroups including age (>65 and ≥ 65 years, and <75 and ≥ 75 years), gender, renal function (eGFR), and region. There was a trend towards an effect of dapagliflozin on MACE in patients with established CV disease at baseline and neutral results in patients with CV risk factors (Figure 4).

Figure 4 Cardiovascular Outcomes in Patients with and without Established CV Disease in the DECLARE-TIMI 58 Study



Time to first event was analysed in a Cox proportional hazards model. CI = confidence interval.

Other Studies in Patients with T2DM Treated for Glycemic Control Use in Patients with Type 2 Diabetes and Renal Impairment

Mild renal impairment (eGFR ≥60 to <90 mL/min/1.73 m²): Efficacy was assessed in a pooled analysis across 9 clinical studies consisting of 2226 patients with mild renal impairment. The mean change from baseline in HbA1c and the placebo-corrected mean HbA1c reduction at 24 weeks was -1.03% and -0.54%, respectively for dapagliflozin 5 mg (n=545) and -1.03% and -0.54%, respectively for dapagliflozin 10 mg (n=562). The safety profile in patients with mild renal impairment is similar to that in the overall population.

The efficacy of dapagliflozin was assessed in two dedicated studies of patients with moderate renal impairment and in a pooled analysis.

Moderate renal impairment CKD 3A (eGFR ≥45 to <60 mL/min/1.73 m²): The efficacy of dapagliflozin was assessed in a dedicated study in diabetic patients with an eGFR ≥45 to <60 mL/min/1.73 m² who had inadequate glycemic control. In a randomized, double blind, placebo-controlled trial a total of 321 adult patients with T2DM and eGFR ≥45 to <60 mL/min/1.73 m²

(moderate renal impairment subgroup CKD 3A), with inadequate glycemic control, were treated with dapagliflozin 10 mg or placebo. At Week 24, dapagliflozin 10 mg (n=159) resulted in statistically significant reductions in HbA1c and body weight compared with placebo (n=161) (Table 20).

Table 20 Results at Week 24 in a Placebo-Controlled Study of Dapagliflozin Treatment in Diabetic Patients with Moderate Renal Impairment (CKD 3A, eGFR \geq 45 to <60 mL/min/1.73 m²)

Efficacy Parameter	Dapagliflozin 10 mg N=159	Placebo N=161
HbA1c (%)		
Baseline (mean)	8.35	8.03
Change from baseline (adjusted mean [*])	-0.37 [§]	-0.03
Difference from placebo (adjusted mean [*]) (95% CI)	-0.34 [§] (-0.53, -0.15)	
Body Weight (kg)		
Baseline (mean)	92.51	88.30
% Change from baseline (adjusted mean [*])	-3.42 [§]	-2.02
Difference from placebo (adjusted mean [*]) (95% CI)	-1.43 [§] (-2.15, -0.69)	

* Least squares mean adjusted for baseline value.

§ p-value <0.001.

Moderate renal impairment (eGFR \geq 30 to <60 mL/min/1.73 m²): The efficacy of dapagliflozin was assessed in a study of 252 diabetic patients with eGFR \geq 30 to <60 mL/min/1.73 m². Dapagliflozin treatment did not show a significant placebo corrected change in HbA1c in the overall study population at 24 weeks. In an additional analysis of the subgroup CKD 3A (eGFR \geq 45 to <60 mL/min/1.73 m²), dapagliflozin 5 mg (n=35) provided a placebo-corrected mean HbA1c change at 24 weeks of -0.37% (95% CI: -0.83, 0.10), and dapagliflozin 10 mg (n=32) provided a placebo-corrected mean HbA1c change at 24 weeks of -0.33% (95% CI: -0.80, 0.14).

Efficacy in patients with moderate renal impairment was assessed in a pooled analysis across 9 clinical studies (366 patients, 87% with eGFR \geq 45 to <60 mL/min/1.73 m²); this pool did not include the two dedicated studies of diabetic patients with moderate renal impairment. The mean change from baseline in HbA1c and the placebo-corrected mean HbA1c reduction at 24 weeks was -0.71% (95% CI: -0.89, -0.53) and -0.23% (95% CI: -0.47, 0.02), respectively, for dapagliflozin 5 mg (n=102) and -0.87% (95% CI: -1.07, -0.68) and -0.39% (95% CI: -0.65, -0.14),

respectively, for dapagliflozin 10 mg (n=85).

Use in Patients with Type 2 Diabetes and Cardiovascular Disease (CVD)

In two 24-week, placebo-controlled studies with 80-week extension periods, a total of 1876 patients with T2DM and CVD were randomized and treated with dapagliflozin 10 mg (N=935) or placebo (N=941).

Patients had established CVD and inadequate glycemic control (HbA1c $\geq 7.0\%$ and $\leq 10.0\%$), despite stable treatment with OADs and/or insulin. Ninety-six percent of patients treated with dapagliflozin 10 mg had hypertension at entry, and the most common qualifying CV events were coronary heart disease (76%) or stroke (20%). Approximately 19% of patients received loop diuretics during the studies and 14% had congestive heart failure (1% had NYHA Class III). Approximately 37% of patients received metformin plus one additional OAD (sulfonylurea, thiazolidinedione, DPP4-inhibitor, or other OAD with or without insulin at entry), 38% received insulin plus at least one OAD, and 18% received insulin alone.

For both studies, at Week 24 treatment with dapagliflozin 10 mg provided significant improvement in HbA1c compared with placebo (Table 21). Significant reductions in total body weight and seated systolic blood pressure were also seen in patients treated with dapagliflozin 10 mg compared with placebo. For both studies, reductions in HbA1c and body weight were generally maintained at Week 52 and Week 104.

Table 21 Results at Week 24 (LOCF*) in Two Placebo-Controlled Studies Comparing Dapagliflozin to Placebo in Patients with Type 2 Diabetes and Cardiovascular Disease

Efficacy Parameter	Study 8		Study 9	
	Dapagliflozin 10 mg + Usual Treatment N=455 ¹	Placebo + Usual Treatment N=459 [†]	Dapagliflozin 10 mg + Usual Treatment N=480 ¹	Placebo + Usual Treatment N=482 [†]
HbA1c (%)				
Baseline mean	8.18	8.08	8.04	8.07
Change from baseline (adjusted mean [‡])	-0.38	0.08	-0.33	0.07
Difference from placebo (adjusted mean [‡]) (95% CI)	-0.46 [§] (-0.56, -0.37)		-0.40 [§] (-0.50, -0.30)	
Body Weight (kg)				
Baseline mean	92.63	93.59	94.53	93.22

	Study 8		Study 9	
Change from baseline (adjusted percent [†])	-2.56	-0.30	-2.53	-0.61
Difference from placebo (adjusted percent [‡])	-2.27 [§]		-1.93 [§]	
(95% CI)	(-2.64, -1.89)		(-2.31, -1.54)	

* LOCF: last observation carried forward.

† Randomized and treated patients with baseline and at least 1 post-baseline efficacy measurement.

‡ Least squares mean adjusted for baseline value.

§ p-value <0.0001.

Blood Pressure

At Week 24 across 11 clinical studies, treatment with dapagliflozin 10 mg decreased the placebo- corrected systolic blood pressure an average of -1.3 to -5.3 mmHg from baseline in all of the monotherapy and placebo-controlled add-on combination therapy studies.

Bone Mineral Density and Body Composition in Type 2 Diabetic Patients

A 24-week study (n=182) found a greater reduction in total body weight from baseline to Week 24 in patients taking dapagliflozin 10 mg plus metformin (-2.96 kg), versus placebo plus metformin (-0.88 kg), with a significant interaction for gender [greater weight loss for males (-2.76 kg) than females (-1.22 kg)]. The reduction in total body fat mass from baseline to Week 24 was -2.22 kg for dapagliflozin and -0.74 kg for placebo with a reduction in percentage total body fat mass from baseline to Week 24 in the dapagliflozin group of 1%, whereas there was little change in the placebo group, as evaluated by dual energy x-ray absorptiometry (DXA).

In an extension of this study to week 102 there was no change in bone mineral density for the lumbar spine, femoral neck, or total hip seen in either treatment group (mean decrease from baseline for all anatomical regions <0.5%).

Clinical Trials in Patients with Heart Failure

DAPA-HF (Study 9)

Dapagliflozin And Prevention of Adverse outcomes in Heart Failure (DAPA-HF) was an international, multicenter, randomized, double-blind, placebo-controlled study in patients with heart failure (New York Heart Association [NYHA] functional class II-IV) with reduced ejection fraction (LVEF ≤40%) to determine the effect of dapagliflozin compared with placebo, when added to background standard of care therapy, on the incidence of CV death, hospitalization for heart failure or urgent heart failure visit.

Of 4744 patients, 2373 were randomized to dapagliflozin 10 mg and 2371 to placebo and followed for a median of 18 months. The mean age of the study population was 66 years (36% of patients were between the ages of 66-75 years and 21% of patients were over 75 years), 77% were male, 70% White, 5% Black or African-American and 24% Asian.

At baseline, 67.5% patients were classified as NYHA class II, 31.6% class III and 0.9% class IV, median LVEF was 32%, 42% of the patients in each treatment group had a history of T2DM, and

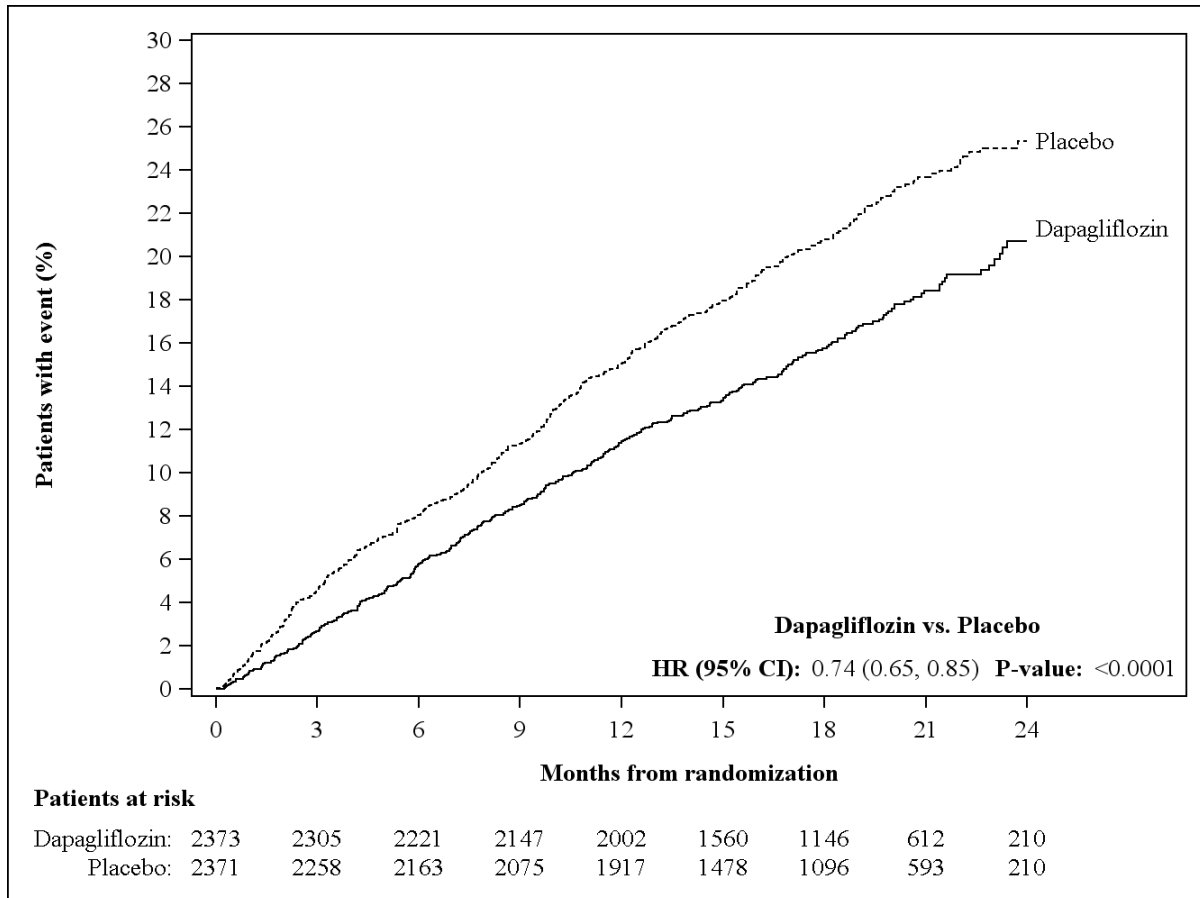
an additional 3% of the patients in each group were classified as having T2DM based on an HbA1c $\geq 6.5\%$ at both enrollment and randomization.

At baseline all patients were on standard of care therapy. Ninety four percent of patients were treated with ACE inhibitor, ARB, or angiotensin receptor-neprilysin inhibitor (ARNI, 11%), 96% with beta-blocker, 71% with mineralocorticoid receptor antagonist (MRA), 93% with diuretic and 26% had an implantable device (with defibrillator function).

Patients with eGFR ≥ 30 mL/min/1.73 m² at enrollment were included in the study. The mean eGFR was 66 mL/min/1.73 m², 41% of patients had eGFR < 60 mL/min/1.73 m² and 15% had eGFR < 45 mL/min/1.73 m².

Dapagliflozin demonstrated a statistically significant reduction in the incidence of the primary composite endpoint of CV death, hospitalization for heart failure or urgent heart failure visit vs placebo (HR 0.74 [95% CI 0.65, 0.85]; $p < 0.0001$). The dapagliflozin and placebo event curves separated early and continued to diverge over the study period (Figure 5).

Figure 5 Time to First Occurrence of the Composite of Cardiovascular Death, Hospitalization for Heart Failure or Urgent Heart Failure Visit



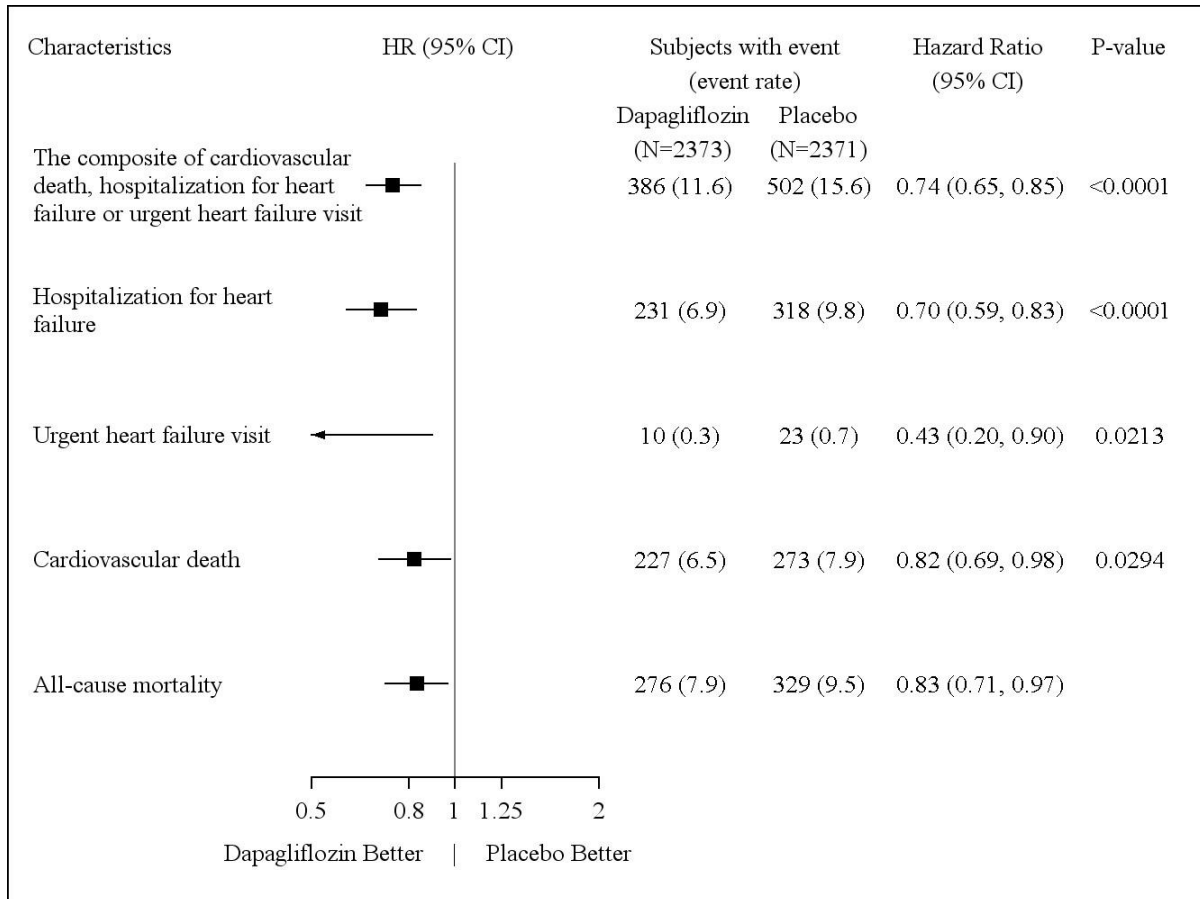
An urgent heart failure visit was defined as an urgent, unplanned, assessment by a physician,

e.g. in an Emergency department, and requiring treatment for worsening heart failure (other than just an increase in oral diuretics).

Patients at risk is the number of patients at risk at the beginning of the period.

All three components of the primary composite endpoint individually contributed to the treatment effect (Figure 6). There were few urgent heart failure visits. Dapagliflozin also reduced the incidence of CV death or hospitalization for heart failure (HR 0.75 [95% CI 0.65, 0.85], $p < 0.0001$).

Figure 6 Treatment Effects for the Primary Composite Endpoint and its Components



An urgent heart failure visit was defined as an urgent, unplanned, assessment by a physician, e.g. in an Emergency Department, and requiring treatment for worsening heart failure (other than just an increase in oral diuretics).

The number of first events for the single components are the actual number of first events for each component and does not add up to the number of events in the composite endpoint.

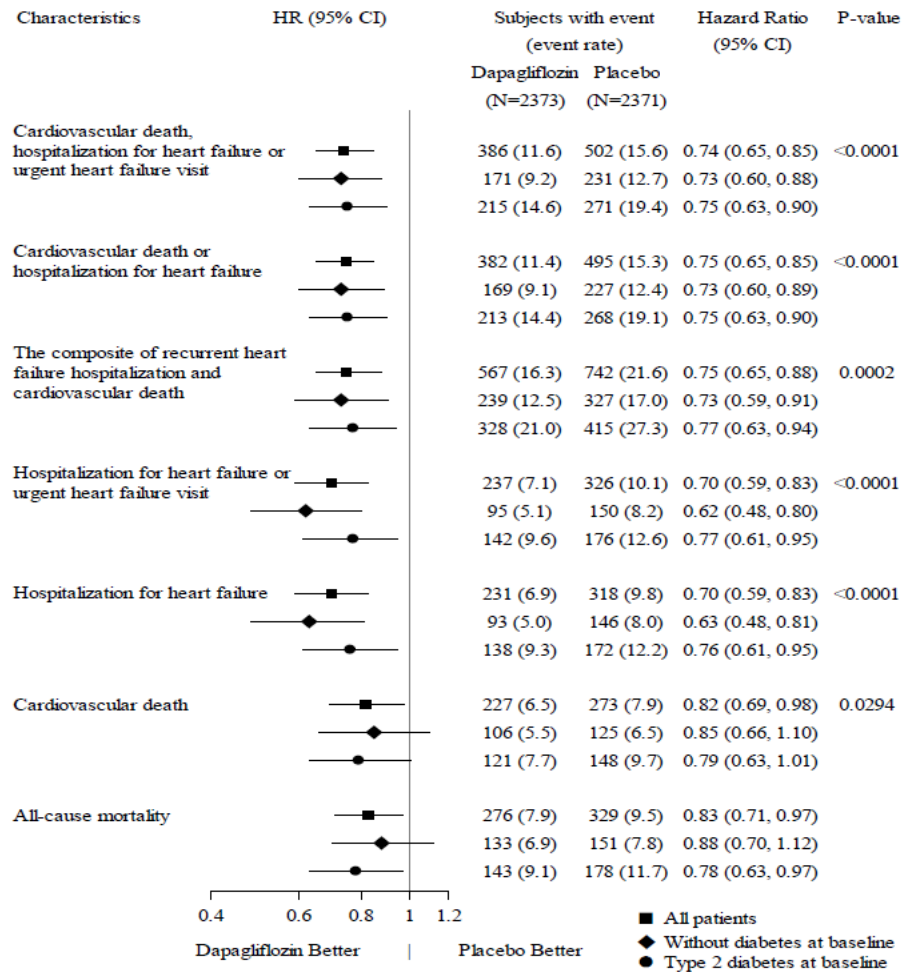
Event rates are presented as the number of subjects with event per 100 patient years of follow-up. p-values for single components are nominal.

Superiority of dapagliflozin versus placebo for secondary endpoints was tested in a hierarchical testing sequence. As the renal composite endpoint, preceding all-cause mortality in the sequence, was not statistically significant, all-cause mortality was not tested as part of the confirmatory testing.

Dapagliflozin also reduced the total number of events of hospitalizations for heart failure (first and recurrent) and CV death; there were 567 events in the dapagliflozin group versus 742 events in the placebo group (Rate Ratio 0.75 [95% CI 0.65, 0.88]; p=0.0002).

The treatment benefit of dapagliflozin was observed in heart failure patients both with T2DM and without diabetes (Figure 7).

Figure 7 Treatment Effects in all Patients, in Patients with T2DM and in Patients without Diabetes



An urgent heart failure visit was defined as an urgent, unplanned, assessment by a physician, e.g. in an Emergency Department, and requiring treatment for worsening heart failure (other than just an increase in oral diuretics).

For the composite of recurrent hospitalizations for heart failure and cardiovascular death, rate ratios are presented rather than hazard ratios and the numbers of events are shown rather than subjects with event.

The number of first events for the single components are the actual number of first events for each component and does not add up to the number of events in the composite endpoint.

Event rates are presented as the number of subjects with event per 100 patient years of follow-up, or,

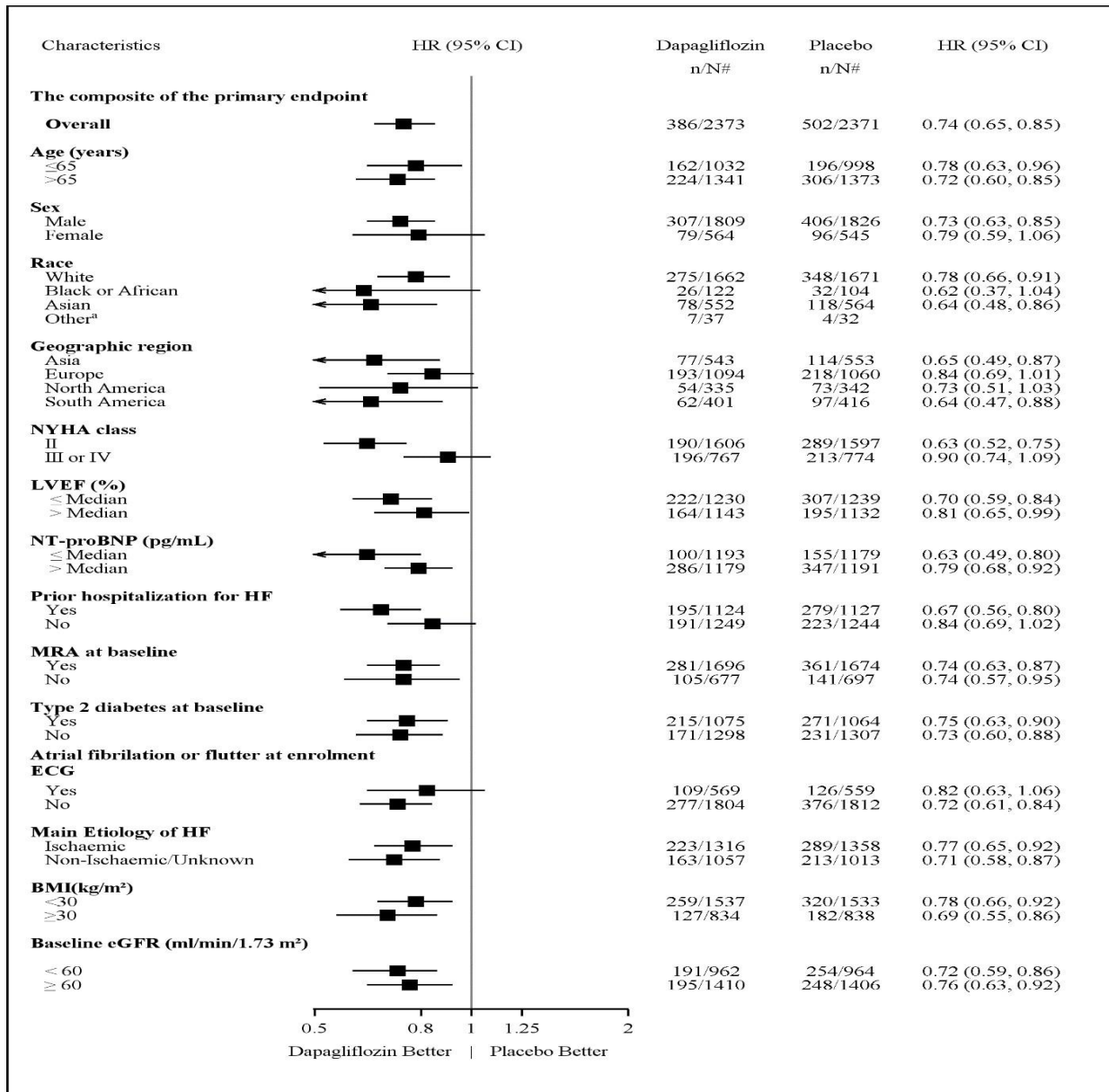
for the composite of recurrent heart failure hospitalizations and CV death, as the average number of events per 100 patient years.

p-values for components of the primary composite endpoint are nominal.

Superiority of dapagliflozin versus placebo for secondary endpoints was tested in a hierarchical testing sequence. As the renal composite endpoint, preceding all-cause mortality in the sequence, was not statistically significant, all-cause mortality was not tested as part of the confirmatory testing.

The treatment benefit of dapagliflozin over placebo on the primary endpoint was also consistent across other key subgroups (Figure 8).

Figure 8 Treatment Effects for the Primary Composite Endpoint by Subgroups



a Hazard ratio estimates are not presented for subgroups with less than 15 events in total, both arms combined.

n/N# Number of subjects with event/number of subjects in the subgroup.

NT-proBNP = N-terminal pro b-type natriuretic peptide; HF = heart failure.

Patient Report Outcomes – heart failure symptoms

The treatment effect of dapagliflozin on heart failure symptoms was assessed by the Total Symptom Score of the Kansas City Cardiomyopathy Questionnaire (KCCQ-TSS), which quantifies heart failure symptom frequency and severity, including fatigue, peripheral edema, dyspnea and orthopnea. The score ranges from 0 to 100, with higher scores representing better health status.

Treatment with dapagliflozin resulted in a statistically significant and clinically meaningful benefit over placebo in heart failure symptoms, as measured by change from baseline to Month 8 in the KCCQ-TSS, (Win Ratio 1.18 [95% CI 1.11, 1.26]; $p < 0.0001$). Both symptom frequency and symptom burden contributed to the results. Benefit was seen both in improving heart failure symptoms and in preventing deterioration of heart failure symptoms.

In responder analyses, the proportion of patients with a clinically meaningful improvement on the KCCQ-TSS from baseline at 8 months, defined as 5 points or more, was higher for the dapagliflozin treatment group compared with placebo (adjusted odds ratio [OR] 1.15, 95% CI 1.08- 1.23). The proportion of patients with a clinically meaningful deterioration, defined as 5 points or more, was lower for the dapagliflozin treatment group compared to placebo (OR 0.84, 95% CI 0.78-0.90). The benefits observed with dapagliflozin remained when applying more conservative cut-offs for larger clinically meaningful change, 10-point increase (OR 1.15, 95% CI 1.08-1.22), 15-point increase (OR 1.14, 95% CI 1.07-1.22) and 10-point decrease (OR 0.85, 95% CI 0.79-0.92).

DELIVER (Study 10)

Dapagliflozin Evaluation to Improve the LIVEs of Patients with PReserved Ejection Fraction Heart Failure (DELIVER) was an international, multicenter, randomized, double-blind, placebo-controlled study in patients aged ≥ 40 years with heart failure (NYHA class II-IV) with LVEF $> 40\%$ and evidence of structural heart disease to determine the effect of dapagliflozin 10 mg once daily compared with placebo, as an adjunct to standard of care therapy, on the incidence of the composite outcome of CV death, hospitalization for heart failure and urgent heart failure visits. Patients with a known history of infiltrative cardiomyopathy (eg, amyloidosis) were excluded from the study. Patients included in DELIVER had NT-proBNP ≥ 300 pg/mL (or NT-proBNP ≥ 600 pg/mL for patients with ongoing atrial fibrillation/flutter).

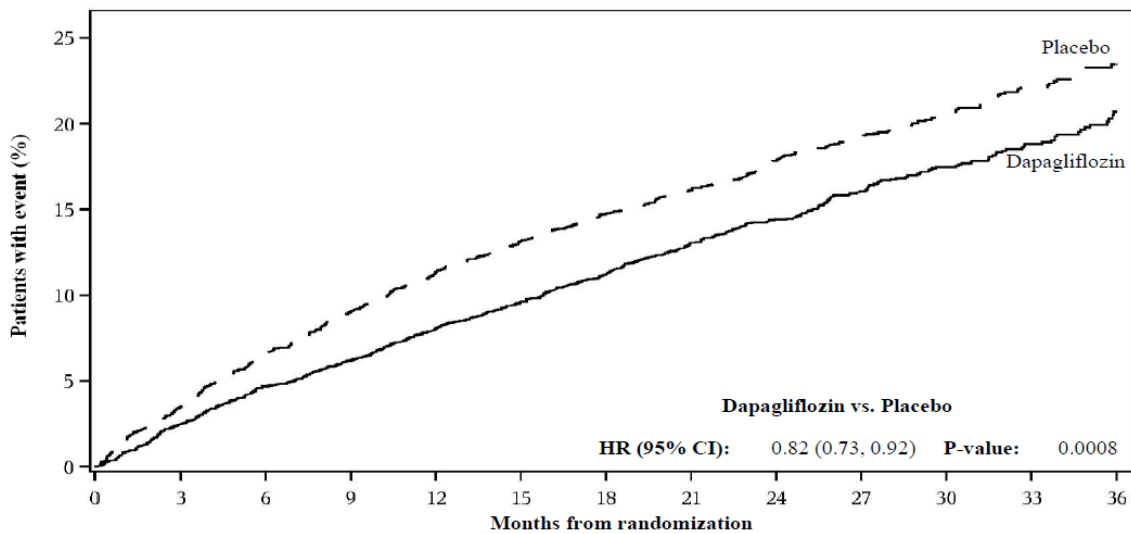
Of 6263 patients, 3131 were randomized to dapagliflozin 10 mg and 3132 to placebo and followed for a median of 28 months. The study included 654 (10%) subacute heart failure patients (defined as randomized during hospitalization for heart failure or within 30 days of discharge), with patients having to be off intravenous heart failure treatment for at least 12 hours prior to enrolment and 24 hours prior to randomization. The mean age of the study population was 72 years, 56% were male, 71% White, 3% Black or African-American and 20% Asian.

At baseline, 75% patients were classified as NYHA class II, 24% class III and 0.3% class IV. Median LVEF was 54%, 34% of the patients had LVEF \leq 49%, 36% had LVEF 50-59% and 30% had LVEF \geq 60%. In each treatment group, 45% had a history of type 2 diabetes mellitus. Baseline therapy included ACEi/ARB/ARNI (77%), beta-blockers (83%) diuretics (98%) and MRA (43%).

Patients with eGFR \geq 25 mL/min/1.73 m² at enrollment were included in the study. The mean eGFR was 61 mL/min/1.73 m², 49% of patients had eGFR $<$ 60 mL/min/1.73 m², 23% had eGFR $<$ 45 mL/min/1.73 m², and 3% had eGFR $<$ 30 mL/min/1.73 m².

Dapagliflozin was superior to placebo in reducing the incidence of the primary composite endpoint of cardiovascular death, hospitalization for heart failure or urgent heart failure visit (HR 0.82 [95% CI 0.73, 0.92]; p=0.0008). The number needed to treat per study duration (median follow-up 28 months) was 32 (95% CI 20,82). The dapagliflozin and placebo event curves diverged early and the separation was maintained throughout the study (Figure 9).

Figure 9 Time to first occurrence of the composite of cardiovascular death, hospitalization for heart failure or urgent heart failure visit



Patients at risk

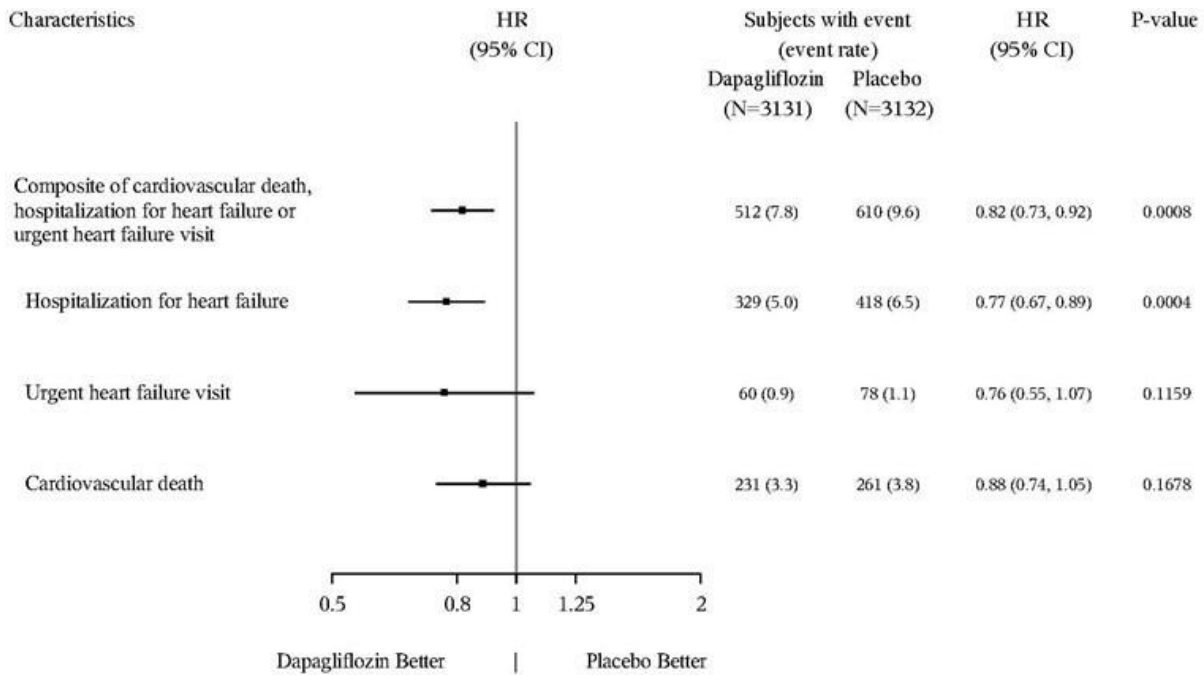
Dapagliflozin:	3131	3040	2949	2885	2807	2716	2401	2147	1982	1603	1181	801	389
Placebo:	3132	3007	2896	2799	2710	2608	2318	2080	1923	1554	1140	772	383

An urgent heart failure visit was defined as an urgent, unplanned, assessment by a physician, e.g. in an Emergency Department, and requiring treatment for worsening heart failure (other than just an increase in oral diuretics).

Patients at risk is the number of patients at risk at the beginning of the period.

All three components of the primary composite endpoint individually contributed to the treatment effect (Figure 10).

Figure 10 Treatment effects for the primary composite endpoint and its components



An urgent heart failure visit was defined as an urgent, unplanned, assessment by a physician, e.g. in an Emergency Department, and requiring treatment for worsening heart failure (other than just an increase in oral diuretics).

The CV death component of the primary endpoint excluded death of undetermined cause.

The number of first events for the single components are the actual number of first events for each component and does not add up to the number of events in the composite endpoint.

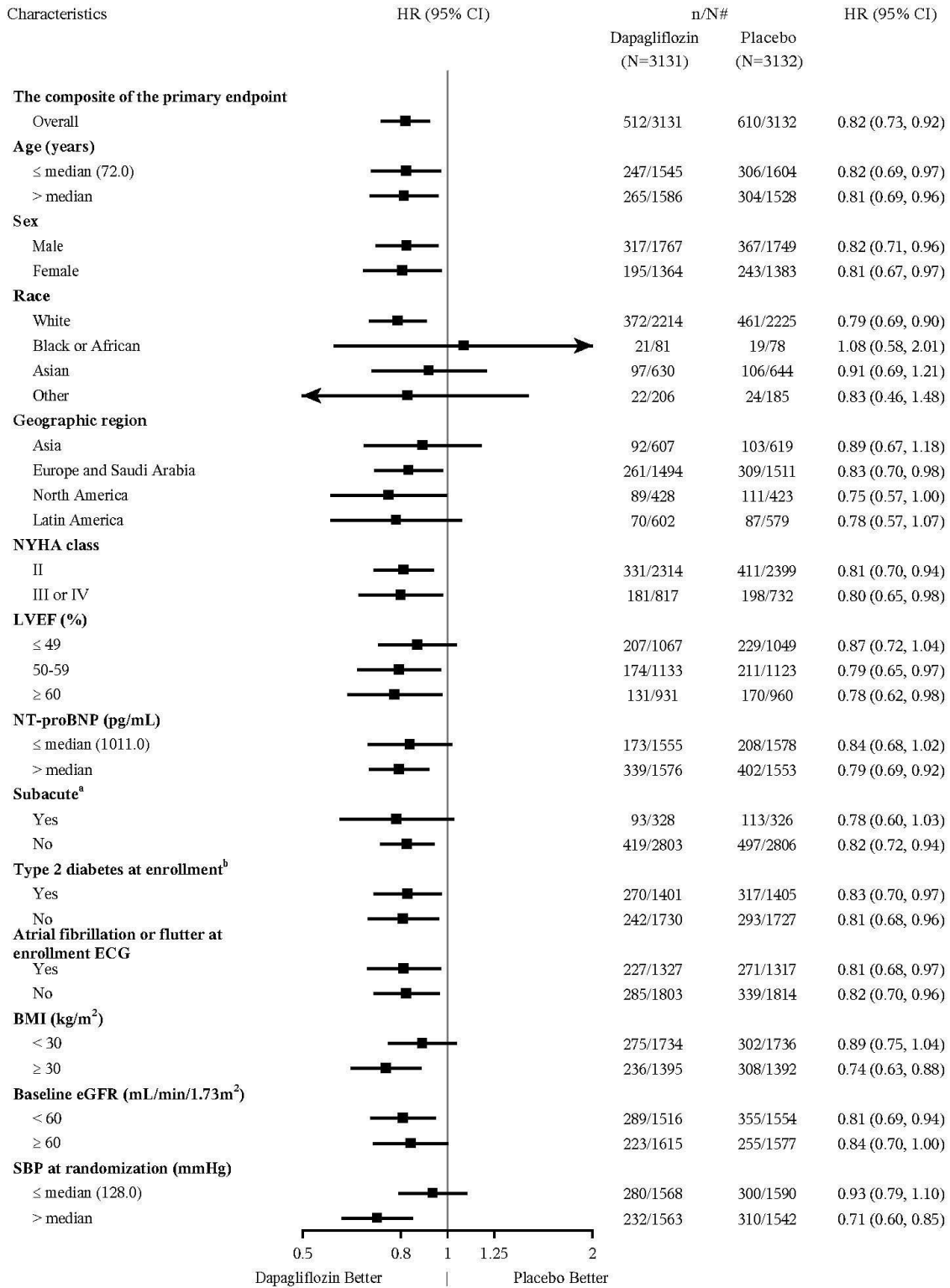
Event rates are presented as the number of subjects with event per 100 patient years of follow-up.

p-values for single components are nominal. Cardiovascular death, here presented as a component of the primary endpoint, was also tested under formal Type 1 error control as a secondary endpoint.

Dapagliflozin was superior to placebo in reducing the total number of heart failure events (first and recurrent hospitalization for heart failure or urgent heart failure visits) and cardiovascular death; there were 815 events in the dapagliflozin group versus 1057 events in the placebo group (Rate Ratio 0.77 [95% CI 0.67, 0.89]; p=0.0003).

The treatment benefit of dapagliflozin over placebo on the primary endpoint was observed across subgroups of patients with LVEF ≤49%, 50–59%, and ≥60%. Effects were also consistent across other key subgroups (Figure 11).

Figure 11 Treatment effects for the primary composite endpoint by sub-groups



^a Defined as randomized during hospitalization for heart failure or within 30 days of discharge.

^b Defined as history of type 2 diabetes mellitus. This analysis does not include type 2 diabetes mellitus as

a stratification factor.

n/N# Number of subjects with event/number of subjects in the subgroup.

Patient reported outcome – heart failure symptoms

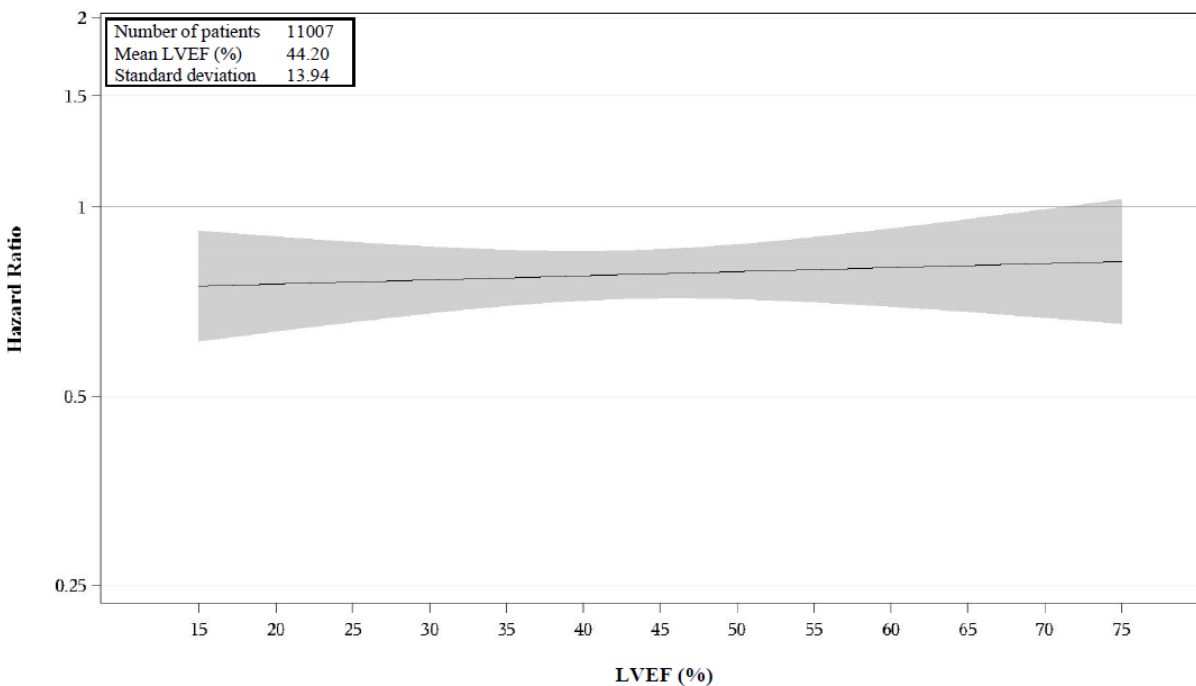
Treatment with dapagliflozin resulted in a statistically significant benefit over placebo in heart failure symptoms, as measured by change from baseline at Month 8 in the KCCQ-TSS, (Win Ratio 1.11 [95% CI 1.03, 1.21]; p=0.0086). Both symptom frequency and symptom burden contributed to the results.

In responder analyses, clinically meaningful deterioration, defined as 5 points or more, was lower for the dapagliflozin treatment group compared with placebo (odds ratio [OR] 0.78, 95% CI 0.64, 0.95). The benefit observed with dapagliflozin remained when applying a more conservative cut-off for deterioration of 14 points or more (OR 0.70, 95% CI 0.55, 0.88). The proportion of patients with a clinically meaningful improvement on the KCCQ-TSS from baseline at 8 months did not differ between treatment groups.

Heart failure across DAPA-HF and DELIVER studies

In a pooled analysis of DAPA-HF and DELIVER, the treatment effect of dapagliflozin on the composite endpoint of cardiovascular death, hospitalization for heart failure or urgent heart failure visit was consistent across the LVEF range (Figure 12).

Figure 12 Treatment effect for the primary composite endpoint (cardiovascular death, hospitalization for heart failure or urgent heart failure visit) by baseline LVEF



Definitions of the primary endpoints from each study are used. In DAPA-HF the primary endpoint included death with undetermined cause of death. In DELIVER the primary endpoint did not include death with undetermined cause of death.

Data for LVEF between 15% and 75% are presented in the figure. At baseline, 0.5% of patients had LVEF <15% and 0.7% had LVEF >75%.

In a pre-specified subject level pooled analysis of the DAPA-HF and DELIVER studies, dapagliflozin compared with placebo reduced the risk of cardiovascular death (HR 0.85 [95% CI 0.75, 0.96], $p=0.0115$). Both studies contributed to the effect.

Clinical Trial in Patients with Chronic Kidney Disease

DAPA-CKD (Study 11)

The Study to Evaluate the Effect of Dapagliflozin on Renal Outcomes and Cardiovascular Mortality in Patients with Chronic Kidney Disease (DAPA-CKD) was an international, multicenter, randomized, double-blind, placebo-controlled study comparing dapagliflozin with placebo, when added to background standard of care therapy, in chronic kidney disease (CKD) patients with eGFR ≥ 25 to ≤ 75 mL/min/1.73 m² and albuminuria (urine albumin creatinine ratio [UACR] ≥ 22.6 to ≤ 565 mg/mmol). Patients with polycystic kidney disease, lupus nephritis or anti-neutrophil cytoplasmic antibody (ANCA)-associated vasculitis were excluded from the study. Patients who had received immunotherapy for primary or secondary kidney disease within 6 months prior to enrollment were also excluded. The primary objective was to determine the effect of dapagliflozin compared with placebo in reducing the incidence of the composite endpoint of $\geq 50\%$ sustained decline in eGFR, deterioration to end stage kidney disease (ESKD) (defined as sustained eGFR < 15 mL/min/1.73 m², chronic dialysis treatment or receiving a renal transplant), CV or renal death.

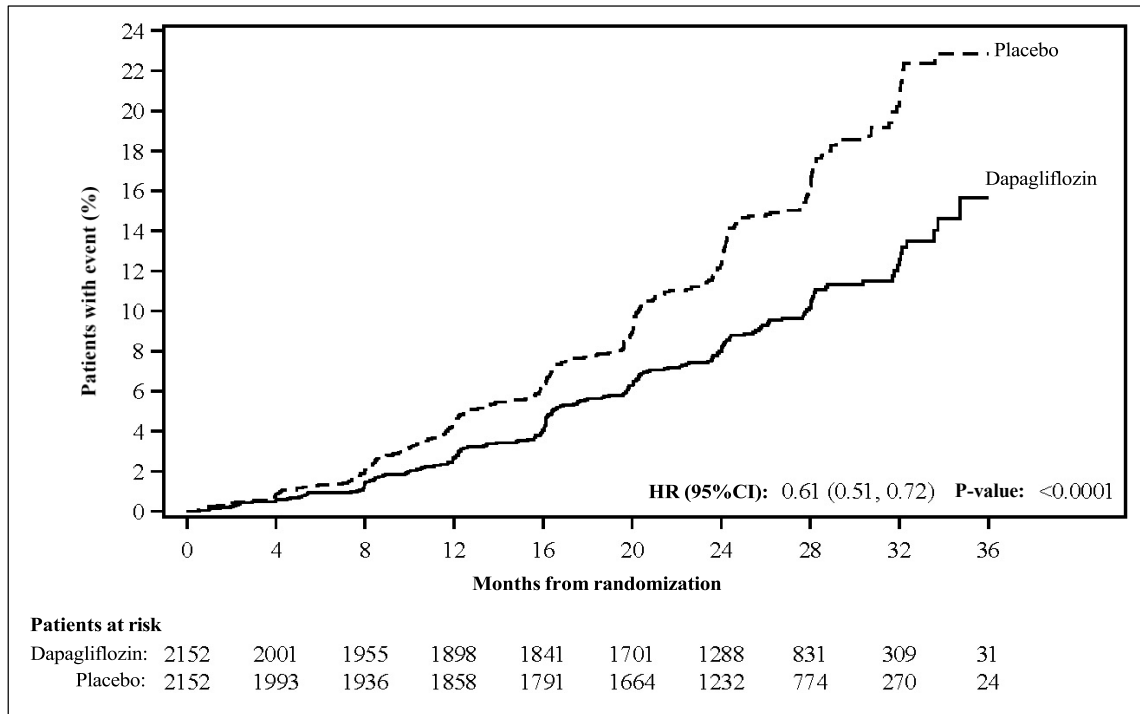
A total of 4304 patients were randomised to dapagliflozin 10 mg (N=2152) or placebo (N=2152) once daily and followed for a median of 28.5 months. Treatment was continued if eGFR fell to levels below 25 mL/min/1.73 m² during the study and could be continued in cases when dialysis was needed.

The mean age of the study population was 61.8 years, 66.9% were male, 53.2% White, 4.4% Black or African-American, and 34.1% Asian.

At baseline, the mean eGFR was 43.1 mL/min/1.73 m² and median UACR was 107.3 mg/mmol; 10.5% of patients had eGFR ≥ 60 mL/min/1.73 m², 30.9% had eGFR 45 to < 60 mL/min/1.73 m², 44.1% had eGFR 30 to < 45 mL/min/1.73 m² and 14.5% had eGFR < 30 mL/min/1.73 m². 67.5% of the patients had type 2 diabetes mellitus. The most common causes of CKD were diabetic nephropathy (58.3%), ischemic/hypertensive nephropathy (16.0%), and chronic glomerulonephritis (16.1%; IgA nephropathy: 6.3%, focal segmental glomerulosclerosis: 2.7%). The mean systolic blood pressure was 137.1 mmHg. Overall, 37.4% of patients had a history of CV disease and 10.9% had a history of heart failure. 97.0% of patients were treated with an ACE inhibitor or ARB.

Dapagliflozin was superior to placebo in reducing the incidence of the primary composite endpoint of $\geq 50\%$ sustained decline in eGFR, deterioration to ESKD, CV or renal death (HR 0.61 [95% CI 0.51, 0.72]; $p < 0.0001$). The Kaplan-Meier plot demonstrated that the dapagliflozin and placebo event curves began to separate at 4 months and continued to diverge over the study period (Figure 13).

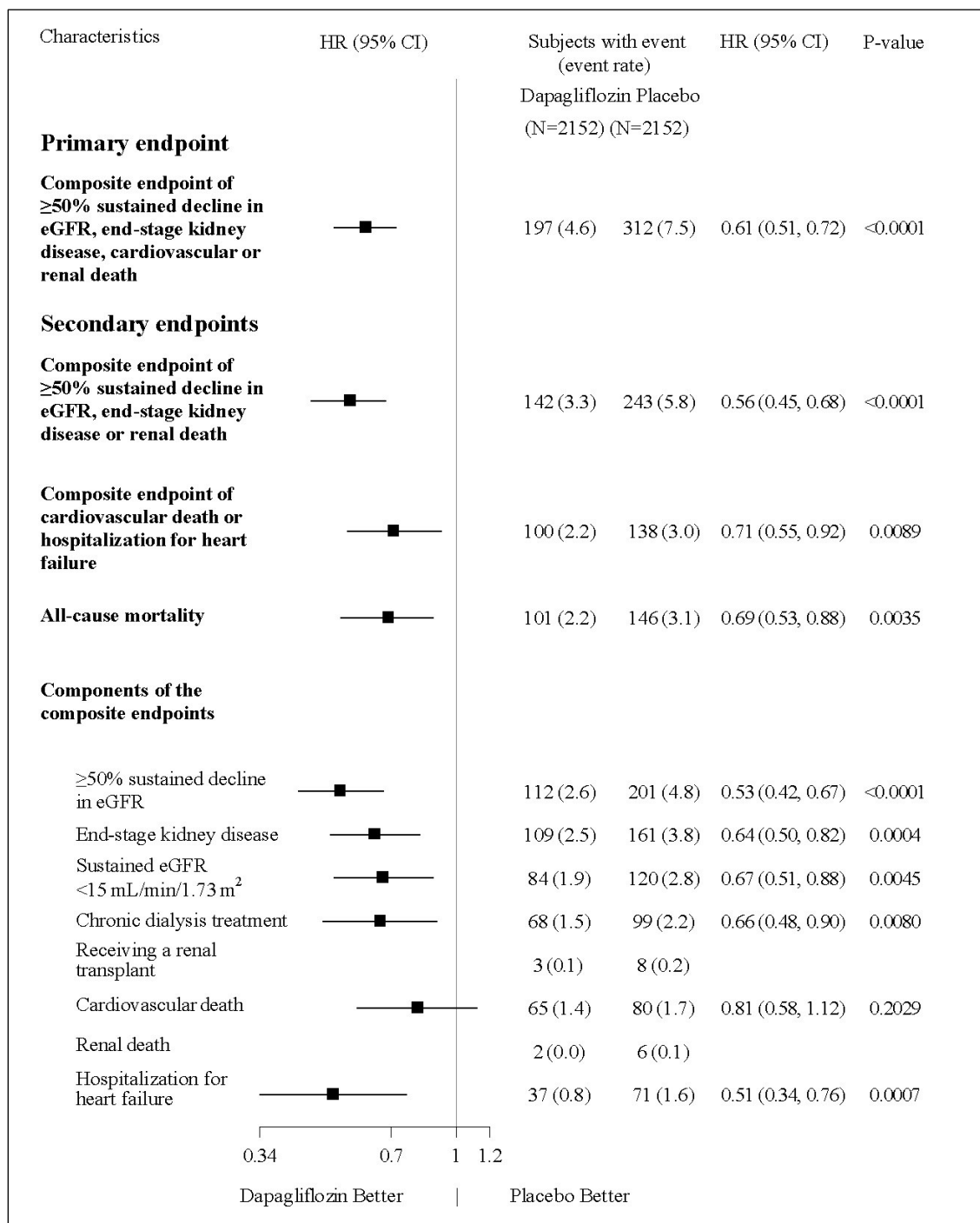
Figure 13 Time to First Occurrence of the Primary Composite Endpoint, $\geq 50\%$ Sustained Decline in eGFR, ESKD, CV or Renal Death



Patients at risk is the number of patients at risk at the beginning of the period. 1 month corresponds to 30 days. 2- sided p-value is displayed. HR, CI and P-value are from the Cox proportional hazard model.

Dapagliflozin also reduced the incidence of the composite endpoint of $\geq 50\%$ sustained decline in eGFR, ESKD or renal death (HR 0.56 [95% CI 0.45, 0.68], $p < 0.0001$), the composite endpoint of CV death or hospitalization for heart failure (HR 0.71 [95% CI 0.55, 0.92], $p = 0.0089$), and all-cause mortality (HR 0.69 [95% CI 0.53, 0.88], $p = 0.0035$).

Figure 14 Treatment effects for the primary and secondary endpoints and individual components of composite endpoints



The number of first events for the single components are the actual number of first events for each component and does not add up to the number of events in the composite endpoint. Event rates are presented as the number of subjects with event per 100 patient years of follow-up.

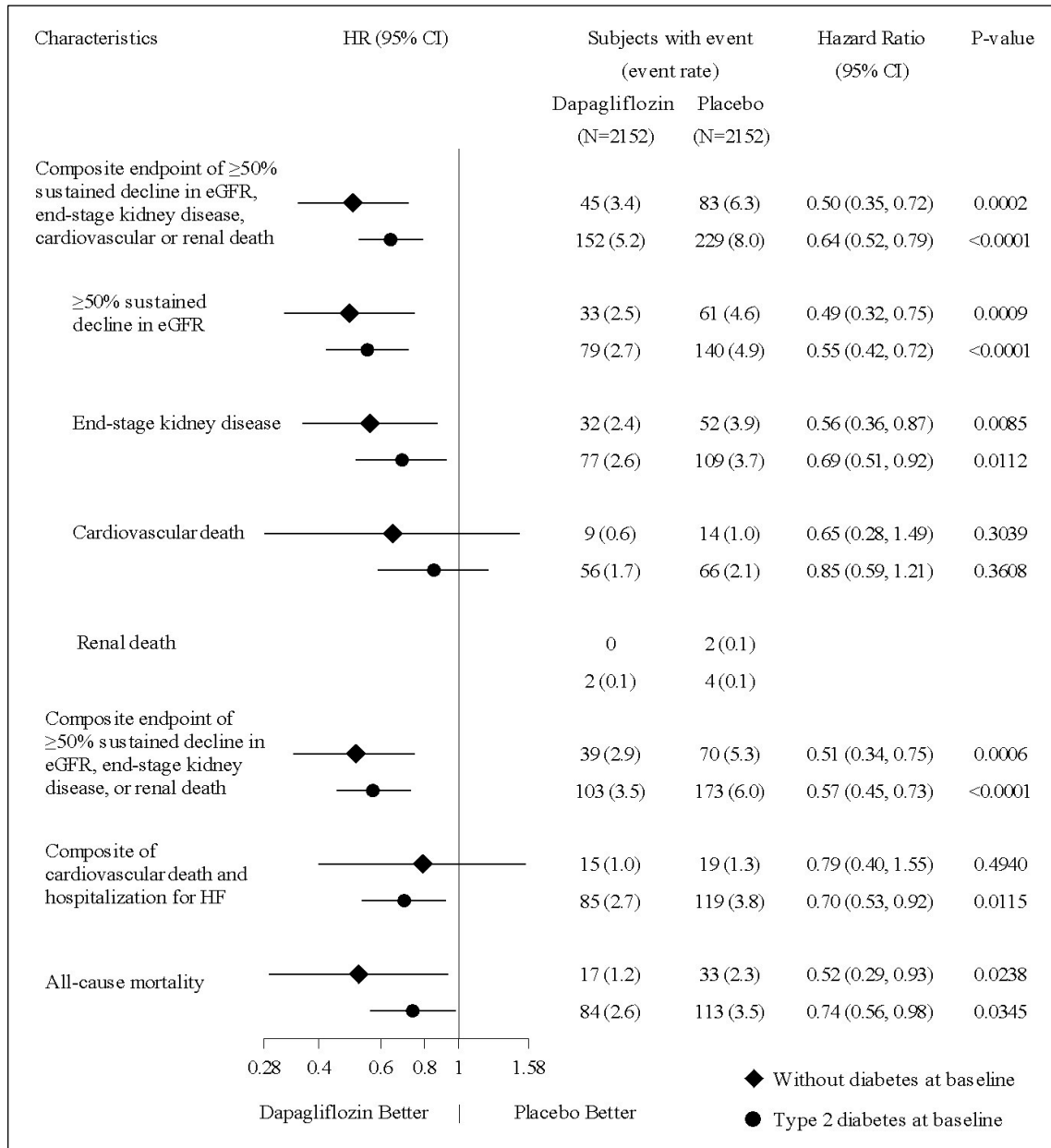
Hazard ratio, CI and P-value are calculated from a Cox proportional hazards model (score test) with a

factor for treatment group, stratified by randomisation stratification of T2DM status and UACR, and adjusting for baseline eGFR.

P-values for components of the composite endpoints are nominal.

The treatment effect of dapagliflozin was consistent in CKD patients with type 2 diabetes mellitus and without diabetes (Figure 15).

Figure 15 Treatment Effects in CKD Patients Without Diabetes and in Patients with Type 2 Diabetes



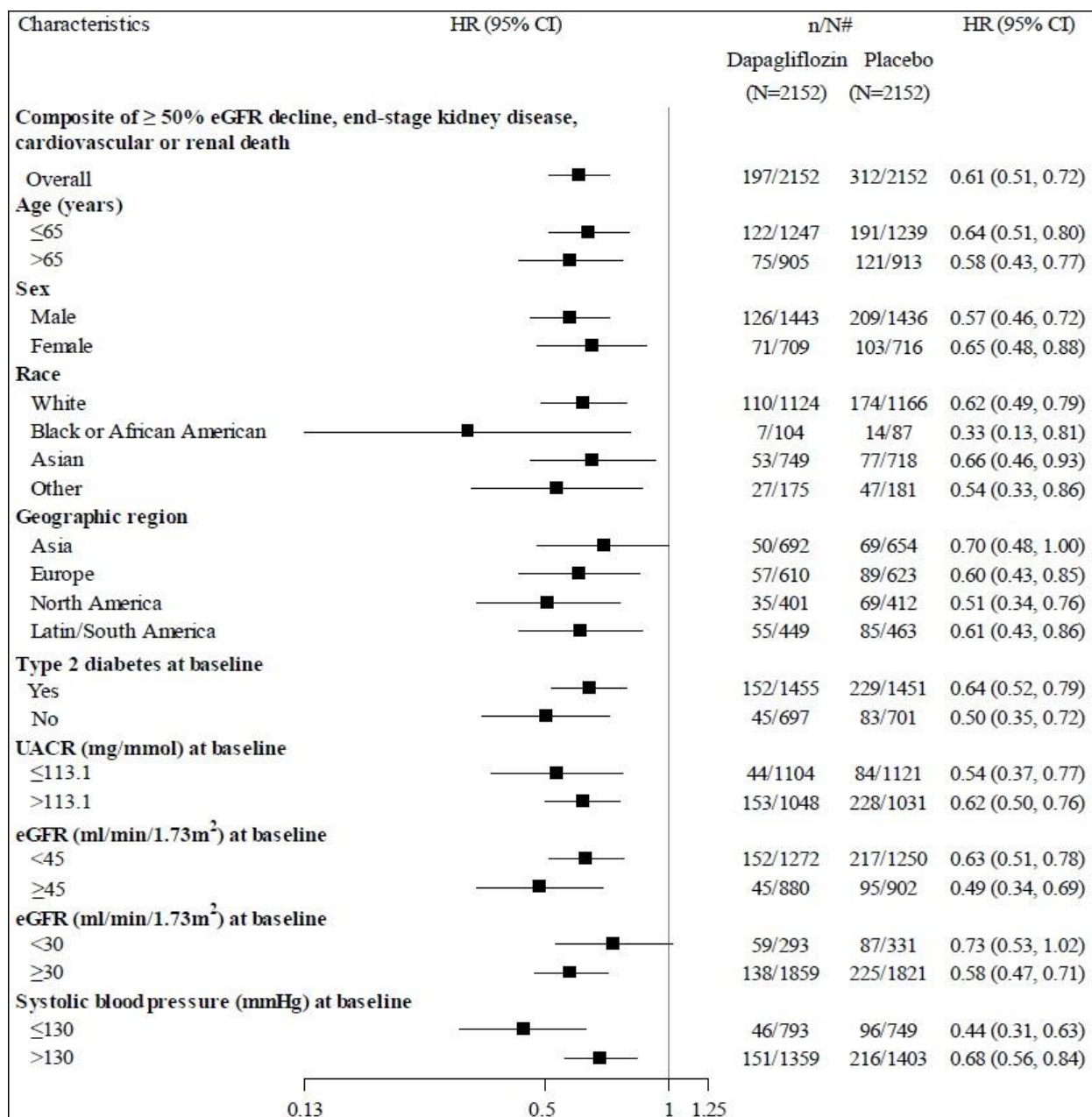
The number of first events for the single components are the actual number of first events for each

component and does not add up to the number of events in the composite endpoint. Hazard ratio estimates are not presented for subgroups with less than 15 events in total, both arms combined. Event rates are presented as the number of subjects with event per 100 patient years of follow-up.

P-values are nominal.

The treatment benefit of dapagliflozin over placebo on the primary composite endpoint was consistent across other key subgroups, including baseline eGFR and UACR levels, age, sex, and region (Figure 16).

Figure 16 Treatment Effects for the Primary Composite Endpoint by Sub-groups



n/N# Number of subjects with event/number of subjects in the subgroup.

14.3 Comparative Bioavailability Studies

A randomized, two-treatment, two-sequence, two-period, single-dose, crossover oral comparative bioavailability study of AG-Dapagliflozin 10 mg tablets (Angita Pharma Inc.) and PrFarxiga 10 mg tablets was conducted in 48 healthy, adult, male and female subjects under fasting conditions. A summary of the comparative bioavailability data from the 43 subjects completing the study is presented in following table.

SUMMARY TABLE OF THE COMPARATIVE BIOAVAILABILITY DATA

Dapagliflozin (1 x 10 mg) Geometric Mean Arithmetic Mean (CV %)				
Parameter	Test ¹	Reference ²	% Ratio of Geometric Means	90 % Confidence Interval
AUC _T (ng·h/mL)	637.51 651.92 (20.92)	639.37 653.90 (20.98)	99.7	96.2 - 103.3
AUC _I (ng·h/mL)	698.87 713.49 (20.08)	712.29 725.39 (19.28)	98.1	94.6 - 101.8
C _{max} (ng/mL)	103.03 110.24 (45.04)	104.42 108.54 (31.50)	98.7	91.1 - 106.8
T _{max} ³ (h)	2.33 (0.67 - 6.00)	1.67 (0.67 - 5.50)		
T _{1/2} ⁴ (h)	7.40 (26.70)	8.55 (62.78)		

¹ AG-Dapagliflozin (dapagliflozin) tablets, 10 mg (Angita Pharma Inc., Canada)

² PrFarxiga (dapagliflozin as dapagliflozin propanediol monohydrate) tablets, 10 mg (AstraZeneca Pharmaceuticals LP, IN, USA)

³ Expressed as the median (range)

⁴ Expressed as the arithmetic mean (CV%) only

15 MICROBIOLOGY

No microbiological information is required for this drug product.

16 NON-CLINICAL TOXICOLOGY

General Toxicology

Acute and repeat-dose toxicity: Dapagliflozin demonstrated low acute toxicity. The minimum lethal doses of dapagliflozin following single oral administration were 750 mg/kg in rats and 3000 mg/kg in mice.

Dapagliflozin was well tolerated when given orally to rats for up to 6 months at doses of ≤ 25 mg/kg/day (up to 340 \times the human exposures (AUC) at the maximum recommended human dose (MRHD) of 10 mg/day resulting in AUC 0.465 mcg.h/mL, and in dogs for up to 12 months at doses of ≤ 120 mg/kg/day (up to 3300 \times the MRHD). In rats, renal lesions (mainly cortical tubular dilatation, medullary tubular dilatation, degeneration, necrosis, mineralization, and reactive hyperplasia, and exacerbation of chronic progressive nephropathy), increased trabecular bone, and tissue mineralization (associated with increased serum calcium), were observed at high-exposure multiples ($\geq 2100\times$ the MRHD). Despite achieving exposure multiples of $\geq 3200\times$ the human exposure at the MRHD, there was no dose-limiting or target organ toxicities identified in the 12-month dog study.

Carcinogenicity

Dapagliflozin did not induce tumors in either mice or rats at any of the doses evaluated in two-year carcinogenicity studies. Oral doses in mice consisted of 5, 15, and 40 mg/kg/day in males and 2, 10, and 20 mg/kg/day in females, and oral doses in rats were 0.5, 2, and 10 mg/kg/day for both males and females. The highest doses evaluated in mice were equivalent to AUC exposure multiples of approximately 72 \times (males) and 105 \times (females) the human AUC at the MRHD. In rats, AUC exposures were approximately 131 \times (males) and 186 \times (females) the human AUC at the MRHD. In a 6-month bladder tumour initiation-promotion study in rats with dapagliflozin (7 times MRHD), the results showed that dapagliflozin does not act as promoter or progressor of bladder cancer.

Genotoxicity

Dapagliflozin was negative in the Ames mutagenicity assay, and was positive in *in vitro* clastogenicity assays but only in the presence of S9 activation and at concentrations ≥ 100 mcg/mL. Dapagliflozin was negative for clastogenicity *in vivo* in a series of studies evaluating micronuclei or DNA repair in rats at exposure multiples $>2100\times$ the human exposure at the MRHD. These studies, along with the absence of tumor findings in the rat and mouse carcinogenicity studies, support that dapagliflozin does not represent a genotoxic risk to humans.

Reproductive and Developmental Toxicology

In a study of fertility and early embryonic development in rats, dapagliflozin had no effects on mating, fertility, or early embryonic development in treated males or females at exposure multiples up to 1708 \times and 998 \times the MHRD in males and females, respectively.

In a pre- and postnatal development study, maternal rats were dosed from gestation day (GD) 6 through lactation day 21 at 1, 15, or 75 mg/kg/day, and pups were indirectly exposed *in utero* and throughout lactation. Increased incidence or severity of renal pelvic dilatation was observed in adult offspring of treated dams, at 75 mg/kg/day (maternal and pup dapagliflozin exposures

were 1415× and 137×, respectively, the human values at the MHRD). Dose-related reductions in pup body weights were observed at doses ≥ 15 mg/kg/day (pup exposures were $\geq 29\times$ the human values at the MRHD). Maternal toxicity was evident only at 75 mg/kg/day, and limited to transient reductions in body weight and food consumption at dose initiation. The no-adverse-effect level (NOAEL) for developmental toxicity was 1 mg/kg/day (maternal exposure was $19\times$ the human value at the MRHD).

In embryo-fetal development studies in rats and rabbits, dapagliflozin was administered for intervals coinciding with the major periods of organogenesis in each species. Neither maternal nor developmental toxicities were observed in rabbits up to the highest dose of 180 mg/kg/day ($184\times$ the MRHD). In rats, dapagliflozin was not teratogenic at doses up to 75 mg/kg/day ($1441\times$ the MRHD). Doses ≥ 150 mg/kg/day ($\geq 2344\times$ the MRHD) were associated with both maternal and developmental toxicities. Developmental toxicity consisted of reduced fetal body weights, increased embryo-fetal lethality, and increased incidences of fetal malformations and skeletal variations. Malformations included great vessel malformations, fused ribs and vertebral centra, and duplicated manubria and sternal centra. Variations were primarily reduced ossifications.

Juvenile Toxicity

In a juvenile toxicity study, when dapagliflozin was dosed directly to young rats from postnatal day (PND) 21 until PND 90 at doses of 1, 15, or 75 mg/kg/day, increased kidney weights and renal pelvic and tubular dilatations were reported at all dose levels; pup exposures at the lowest dose tested were $\geq 15\times$ the MRHD. The renal pelvic and tubular dilatations observed in juvenile animals did not fully reverse within the approximate 1-month recovery period.

17 SUPPORTING PRODUCT MONOGRAPHS

1. ^{Pr}FORXIGA® (Tablets, 5 mg and 10 mg), submission control 288938, Product Monograph, AstraZeneca Canada Inc. JAN 22, 2025.

PATIENT MEDICATION INFORMATION
READ THIS FOR SAFE AND EFFECTIVE USE OF YOUR MEDICINE

PrAG-Dapagliflozin

Dapagliflozin Tablets

Read this carefully before you start taking **AG-Dapagliflozin** and each time you get a refill. This leaflet is a summary and will not tell you everything about this drug. Talk to your healthcare professional about your medical condition and treatment and ask if there is any new information about **AG-Dapagliflozin**.

Serious Warnings and Precautions

- **Diabetic ketoacidosis (DKA)** can happen while you are taking AG-Dapagliflozin. It is a serious and life-threatening condition, which may need urgent hospital care. Some cases of **DKA** have led to death. **DKA** can happen to diabetic patients with normal or high blood sugar levels. In **DKA** your body produces high levels of blood acids called ketones. It occurs because your body does not have enough insulin.
- **Seek medical help right away and stop taking AG-Dapagliflozin immediately** if you have any of the **DKA** symptoms. Do this even if your blood sugar levels are normal. The symptoms of **DKA** are: difficulty breathing, nausea, vomiting, stomach pain, and loss of appetite. Confusion, feeling thirsty, feeling unusually tired or sleepy, along with a sweet or metallic taste in the mouth or sweet smelling breath can be noticed. You may have a different odour to your urine or sweat.
- Do not use AG-Dapagliflozin if you have:
 - **DKA** or a history of **DKA**
 - Type 1 diabetes.

What is AG-Dapagliflozin used for?

- AG-Dapagliflozin is used along with diet and exercise to:
 - improve blood sugar levels in adults with type 2 diabetes. AG-Dapagliflozin can be used:
 - alone, if you cannot take metformin,
 - with metformin,
 - with a sulfonylurea,
 - with metformin and a sulfonylurea,
 - with sitagliptin (with or without metformin),
 - with insulin (with or without metformin).
 - reduce the risk of hospitalization due to heart failure in adults:
 - with type 2 diabetes; and
 - that have or are at risk of developing cardiovascular disease (heart and

blood vessel problems)

- AG-Dapagliflozin is used in adults along with other medicines to treat heart failure (when your heart cannot pump enough blood to your body). In these patients, • AG-Dapagliflozin reduces the risk of:
 - death due to heart or blood vessel problems
 - hospitalization or urgent medical visits due to heart failure
- AG-Dapagliflozin is used in adults with chronic kidney disease to reduce their risk of:
 - further decline in kidney function
 - progression to end-stage kidney disease
 - death due to cardiovascular problems or kidney failure

How does AG-Dapagliflozin work?

AG-Dapagliflozin belongs to a class of medicines called Sodium-glucose co-transporter 2 (SGLT2) inhibitors. It removes excess sugar from the body through the urine. This reduces the amount of sugar in the blood. AG-Dapagliflozin also provides benefits to the heart and kidneys.

What are the ingredients in AG-Dapagliflozin?

Medicinal ingredient: Dapagliflozin

Non-medicinal ingredients: Anhydrous lactose, colloidal silicon dioxide-aerosil, iron oxide yellow, low-substituted hydroxypropylcellulose, macrogol, magnesium stearate, microcrystalline cellulose, sepiatrap 80 (magnesium aluminometasilicate and polysorbate 80), partially hydrolyzed polyvinyl alcohol, titanium dioxide, talc.

AG-Dapagliflozin comes in the following dosage forms:

Tablets: 5 mg and 10 mg.

Do not use AG-Dapagliflozin if:

- you are allergic to dapagliflozin or to any of the other ingredients in AG-Dapagliflozin.
- you are on dialysis.

To help avoid side effects and ensure proper use, talk to your healthcare professional before you take AG-Dapagliflozin. Talk about any health conditions or problems you may have, including if you:

- have type 1 diabetes (your body does not produce any insulin). AG-Dapagliflozin should not be used in patients with type 1 diabetes.
- have an increased chance of developing diabetic ketoacidosis (DKA), including if you:
 - are dehydrated or suffer from excessive vomiting, diarrhea, or sweating
 - are on a very low carbohydrate diet
 - have been fasting for a while
 - need to have a procedure that requires long periods of fasting
 - are eating less, or there is a change in your diet
 - drink a lot of alcohol

- have / have had problems with your pancreas, including pancreatitis or surgery on your pancreas
- are hospitalized for major surgery, serious infection or serious medical illness. If you are going to have a surgery and after your surgery, or if you are hospitalized for a major surgery, a serious infection, or a serious medical illness, your healthcare professional may stop your treatment with AG-Dapagliflozin. Talk to your healthcare professional about when to stop taking AG-Dapagliflozin and when to start taking it again.
- have a sudden reduction in your insulin dose
- have a history of DKA.
- are older than 65 years of age
- have or have had any kidney problems
- have received immunosuppressive therapy (treatment that lowers the activity of your immune system) to treat your kidney problems.
- are on dialysis
- have or have had any cases of liver disease
- have low blood pressure
- have or have had heart disease or heart failure
- are taking a medicine to lower your blood pressure, including diuretics, known as water pills. If you take AG-Dapagliflozin with these medicines, it can increase the risk of dehydration.
- are taking medicines to lower your blood sugar. Tell your healthcare professional about all of the medicines you are taking to control your diabetes.
- have a history of yeast infection of the vagina or penis
- have a history of urinary tract infections
- have Anti-Neutrophil Cytoplasmic Antibody (ANCA)-associated vasculitis, which is an autoimmune disease affecting small blood vessels in the body
- have intolerance to some milk sugars. AG-Dapagliflozin tablets contain lactose.

Other warnings you should know about:

AG-Dapagliflozin can cause serious side effects, including:

- **Hypotension** (low blood pressure): This is common in patients with high blood sugar (glucose).
- **Hypoglycemia** (low blood sugar) **in patients with type 2 diabetes:** AG-Dapagliflozin can cause low blood sugar when used with other antidiabetic medications, including insulin. Your healthcare professional may adjust your dose of insulin or other antidiabetic medicines when taking AG-Dapagliflozin. This is to help you keep your blood sugar levels within the normal range during your treatment.
- **Yeast infection:** AG-Dapagliflozin increases your chance of getting a yeast infection of the vagina or penis, especially if you have had them in the past.
- **Urinary tract infection**
- **Urosepsis:** This is a severe infection that spreads from the urinary tract throughout the body. This condition is serious and may be life-threatening if left untreated. If you

experience signs of this condition, **stop taking AG-Dapagliflozin right away and seek immediate medical help.**

- **Fournier’s gangrene:** This is a serious infection affecting the soft tissue around the groin. Rare cases of Fournier’s gangrene have been reported in patients with type 2 diabetes while taking SGLT2 inhibitors like AG-Dapagliflozin. This condition is serious and may be life-threatening. If you experience signs of this condition, **stop taking AG-Dapagliflozin right away and seek immediate medical help.**
- **Kidney problems in patients with type 2 diabetes:** This may happen shortly after you start taking AG-Dapagliflozin.

See the **Serious side effects and what to do about them** table, below, for more information on these and other serious side effects.

Driving and using machines: Before doing tasks that require special attention, wait until you know how you respond to AG-Dapagliflozin. Dizziness, lightheadedness, or fainting can occur, particularly when AG-Dapagliflozin is taken with insulin or other antidiabetic medicines.

Pregnancy: AG-Dapagliflozin should **not** be taken during pregnancy. It is not known if AG-Dapagliflozin will harm your unborn baby. If you discover that you are pregnant while taking AG-Dapagliflozin, **stop** the medication and contact your healthcare professional **as soon as possible.**

Breastfeeding: AG-Dapagliflozin should **not** be taken if you are breastfeeding. It is not known if AG-Dapagliflozin will pass into your breast milk and harm your baby. Talk to your healthcare professional about ways to feed your baby if you are planning to breastfeed while taking AG-Dapagliflozin.

Children and adolescents: AG-Dapagliflozin is not to be used in children and adolescents under 18 years of age.

Check-ups and testing:

- Your healthcare professional may decide to perform tests before you take AG-Dapagliflozin and / or during treatment. These tests will check:
 - The amount of cholesterol (a type of fat) in your blood
 - The amount of red blood cells in your body
 - The amount of sugar (glucose) in your blood
 - That your kidneys are working properly
 - The volume of blood in your body
 - The level of electrolytes in your blood

Depending on your test results, your healthcare professional may adjust your dose, temporarily stop or discontinue your therapy with AG-Dapagliflozin.

- AG-Dapagliflozin will cause your urine to test positive for sugar (glucose).

Tell your healthcare professional about all the medicines you take, including any drugs,

vitamins, minerals, natural supplements or alternative medicines.

The following may interact with AG-Dapagliflozin:

- medicines you take for diabetes to lower your blood sugar levels. This includes sulfonylurea medication such as glyburide, gliclazide or glimepiride, or insulin. If you take AG-Dapagliflozin with any of these medicines, it can increase the risk of low blood sugar. Your healthcare professional will tell you how much of each medicine to take.
- medicines used to lower your blood pressure, including diuretics, known as water pills. If you take AG-Dapagliflozin with these medicines, it can increase the risk of dehydration.
- Polysorbates in this medicine may alter the effects of other medicines. Talk to your healthcare professional if you are taking other medicines.
- Lithium. If you take AG-Dapagliflozin with lithium, it can lower the amount of lithium in your blood. Your doctor will tell you if your dose of lithium needs to be changed.

How to take AG-Dapagliflozin:

Take AG-Dapagliflozin:

- as directed by your healthcare professional
- once a day
- at any time of the day
- by mouth
- with or without food

Swallow tablet whole. Do not cut or divide AG-Dapagliflozin tablets.

Your healthcare professional may temporarily stop your AG-Dapagliflozin treatment:

- for at least 3 days before, and a period of time after, certain types of surgery, or procedures associated with long periods of fasting.
- when you are hospitalized for a serious infection or illness.

If AG-Dapagliflozin is stopped, your healthcare professional will:

- continue to monitor for signs or symptoms of DKA.
- tell you when to start taking AG-Dapagliflozin again.

Usual dose:

The dose of AG-Dapagliflozin prescribed to you will depend on your condition and your response to treatment.

Patients with type 2 diabetes

To control your blood sugar: the usual adult starting dose is one 5 mg tablet a day. Your healthcare professional may increase your dose to one 10 mg tablet a day, if needed.

To reduce your risk of hospitalization due to heart failure: the usual adult dose is one 10 mg tablet a day.

Patients with Heart Failure or Chronic Kidney Disease

The usual adult dose is one 10 mg tablet a day.

Overdose:

If you think you, or a person you are caring for, have taken too much AG-Dapagliflozin, contact a healthcare professional, hospital emergency department, regional poison control centre or Health Canada's toll-free number, 1-844 POISON-X (1-844-764-7669) immediately, even if there are no signs or symptoms.

Missed Dose:

If you miss a dose of AG-Dapagliflozin, take it as soon as you remember. If you do not remember until it is almost time for your next dose, skip the missed dose and go back to your regular schedule. Do not take a double dose.

What are possible side effects from using AG-Dapagliflozin?

These are not all the possible side effects you may feel when taking AG-Dapagliflozin. If you experience any side effects not listed here, contact your healthcare professional.

Side effects may include:

- sore throat
- flu (fever, tiredness, body aches)
- stuffy or runny nose
- constipation
- diarrhea
- nausea
- back pain
- pain in the arms, legs, hands or feet
- headache
- rash
- joint pain

If any of these affects you severely, tell your healthcare professional.

AG-Dapagliflozin can cause abnormal blood test results. Your healthcare professional will decide when to perform blood tests. They will tell you if your test results are abnormal and if you need treatment to correct these side effects.

Serious side effects and what to do about them			
Symptom / effect	Talk to your healthcare professional		Stop taking drug and get immediate medical help
	Only if severe	In all cases	
COMMON			
Urinary tract infection: pain or burning sensation while urinating, frequent urination, blood in urine, pain in the pelvis, strong smelling urine, cloudy urine		✓	
Yeast infection of vagina: severe itching, burning, soreness, irritation, and a whitish or whitish-gray cottage cheese-like discharge	✓		
Yeast infection of penis: red, swollen, itchy head of penis, thick, lumpy discharge under foreskin, unpleasant odour, difficulty retracting foreskin, pain passing urine or during sex	✓		
UNCOMMON			
Volume depletion (loss of needed fluids from the body; dehydration): dry or sticky mouth, headache, dizziness or urinating less often than normal, thirst		✓	
Hypotension (low blood pressure): dizziness, fainting, lightheadedness; may occur when you go from lying to sitting to standing up		✓	
Hypoglycemia (low blood sugar) in patients with type 2 diabetes: shaking, sweating, rapid heartbeat, change in vision, hunger, headache and change in mood		✓	
RARE			
Diabetic ketoacidosis (DKA) in patients with type 2 diabetes: difficulty breathing, nausea, vomiting, stomach pain, loss of appetite, confusion, feeling very thirsty, feeling unusual tiredness, a sweet smell to the breath, a sweet or metallic taste in the mouth, or a different odour to urine or sweat			✓
Kidney problems in patients with type 2 diabetes: any change in the amount, frequency or colour (pale or dark) of urine		✓	
Fournier's gangrene (a serious infection affecting soft tissue around the groin): pain or tenderness, redness of the skin, or swelling in the genital or perineal area, with or without fever or feeling very weak, tired, or uncomfortable			✓
VERY RARE			

Serious side effects and what to do about them			
Symptom / effect	Talk to your healthcare professional		Stop taking drug and get immediate medical help
	Only if severe	In all cases	
Acute kidney infection: painful, urgent or frequent urination, lower back (flank) pain, fever or chills, cloudy or foul smelling urine, blood in your urine			✓
Urosepsis (severe infection that spreads from urinary tract throughout body): fever or low body temperature, chills, rapid breathing, rapid heartbeat, pain with urination, difficulty urinating, frequent urination			✓
Pancreatitis (inflammation of the pancreas): upper abdominal pain, fever, rapid heartbeat, nausea, vomiting, tenderness when touching the abdomen		✓	

If you have a troublesome symptom or side effect that is not listed here or becomes bad enough to interfere with your daily activities, tell your healthcare professional.

<p>Reporting Side Effects</p> <p>You can report any suspected side effects associated with the use of health products to Health Canada by:</p> <ul style="list-style-type: none"> • Visiting the Web page on Adverse Reaction Reporting (canada.ca/drug-device-reporting) for information on how to report online, by mail or by fax; or • Calling toll-free at 1-866-234-2345. <p><i>NOTE: Contact your healthcare professional if you need information about how to manage your side effects. The Canada Vigilance Program does not provide medical advice.</i></p>

Storage:

- Store at room temperature, 15-30°C.
- Protect from moisture.
- Keep in tightly closed bottles.
- Keep AG-Dapagliflozin out of reach and sight of children.

If you want more information about AG-Dapagliflozin:

- Talk to your healthcare professional.

- Find the full Product Monograph that is prepared for healthcare professionals and includes the Patient Medication Information by visiting the Health Canada Drug Product Database website (<https://www.canada.ca/en/health-canada/services/drugs-health-products/drug-products/drug-product-database.html>); or by calling 1-450-449-9272.

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