HIGHLIGHTS OF PRESCRIBING INFORMATION

These highlights do not include all the information needed to use QTERN safely and effectively. See full prescribing information for QTERN.

QTERN® (dapagliflozin and saxagliptin) tablets, for oral use Initial U.S. Approval: 2017

RECENT MAJOR CHANGES	
Indications and Usage (1)	5/2019
Dosage and Administration (2.1, 2.2, 2.3)	5/2019
Warning and Precautions (5.8)	10/2018

----- INDICATIONS AND USAGE

QTERN is a sodium-glucose cotransporter 2 (SGLT2) inhibitor and a dipeptidyl peptidase-4 (DPP-4) inhibitor combination product indicated as an adjunct to diet and exercise to improve glycemic control in adults with type 2 diabetes mellitus. (1)

Limitations of Use:

QTERN is not indicated for the treatment of type 1 diabetes mellitus or diabetic ketoacidosis. (1)

----- DOSAGE AND ADMINISTRATION ------

- Assess renal function before initiation of therapy and periodically thereafter. (2.1)
- Take QTERN orally, once daily in the morning with or without food. (2.2)
- · For patients not already taking dapagliflozin, the recommended starting dose of QTERN is a 5 mg dapagliflozin/5 mg saxagliptin tablet once daily. (2.2)
- In patients tolerating 5 mg dapagliflozin and 5 mg saxagliptin once daily who require additional glycemic control, the QTERN dose can be increased to 10 mg dapagliflozin/5 mg saxagliptin tablet once daily. (2.2)
- Do not coadminister QTERN with strong cytochrome P450 3A4/5 inhibitors. (2.4, 7)
- Swallow tablet whole. Do not crush, cut or chew. (2.2)

----- DOSAGE FORMS AND STRENGTHS ------

- Tablet: 5 mg dapagliflozin/5 mg saxagliptin (3)
- Tablet: 10 mg dapagliflozin/5 mg saxagliptin (3)

----- CONTRAINDICATIONS ------

QTERN is contraindicated in patients with:

- · History of a serious hypersensitivity reaction to dapagliflozin or to saxagliptin, such as anaphylaxis, angioedema, or exfoliative skin conditions. (4, 5.8, 6.2)
- Moderate to severe renal impairment (eGFR <45 mL/min/1.73 m²), end-stage renal disease (ESRD), or patients on dialysis. (4)

----- WARNINGS AND PRECAUTIONS

Pancreatitis: If pancreatitis is suspected, promptly discontinue QTERN. (5.1, 6.2)

- Heart Failure: Consider the risks and benefits of QTERN in patients who have known risk factors for heart failure. Monitor patients for signs and symptoms. (5.2)
- Hypotension: Before initiating QTERN, assess volume status and correct hypovolemia in the elderly, in patients with renal impairment or low systolic blood pressure, and in patients on loop diuretics. Monitor for signs and symptoms during therapy. (5.3, 6.1)

Ketoacidosis: Assess patients who present with signs and symptoms of metabolic acidosis for ketoacidosis regardless of blood glucose level. If suspected, discontinue QTERN, evaluate and treat promptly. Before initiating QTERN, consider risk factors for ketoacidosis. Patients on

FULL PRESCRIBING INFORMATION: CONTENTS* 1 INDICATIONS AND USAGE

2 DOSAGE AND ADMINISTRATION

- 2.1 Prior to Initiation of QTERN
- 2.2 Dosage
- 2.3 Patients with Renal Impairment
- 2.4 Use with Strong CYP3A4/5 Inhibitors **3 DOSAGE FORMS AND STRENGTHS**

- **4 CONTRAINDICATIONS**
- **5 WARNINGS AND PRECAUTIONS**
 - 5.1 Pancreatitis

ΟΟΚΕ

QTERN may require monitoring and temporary discontinuation of therapy in clinical situations known to predispose to ketoacidosis. (5.4, 6.2)

- Acute Kidney Injury and Impairment in Renal Function: Consider temporarily discontinuing in settings of reduced oral intake or fluid losses. If acute kidney injury occurs, discontinue and promptly treat. Monitor renal function during therapy. (5.5, 6.2)
- Urosepsis and Pyelonephritis: Evaluate for signs and symptoms of urinary tract infections and treat promptly, if indicated. (5.6, 6.2)
- Hypoglycemia: Consider lowering the dose of insulin secretagogue or insulin to reduce the risk of hypoglycemia when initiating QTERN. (5.7, 6.1)
- Necrotizing Fasciitis of the Perineum (Fournier's Gangrene): Serious, lifethreatening cases have occurred in both females and males. Assess patients presenting with pain or tenderness, erythema, or swelling in the genital or perineal area, along with fever or malaise. If suspected, institute prompt treatment. (5.8)
- Hypersensitivity Reactions (e.g., urticaria, facial edema): There have been postmarketing reports of serious hypersensitivity reactions treated with saxagliptin, such as anaphylaxis, angioedema, and exfoliative skin conditions. Promptly discontinue QTERN, assess for other potential causes, institute appropriate monitoring and treatment, and initiate alternative treatment for diabetes. (5.9, 6.2)

Genital Mycotic Infections: Monitor and treat if indicated. (5.10, 6.1) Increased LDL-C: Monitor and treat per standard of care. (5.11, 6.1)

- Bladder Cancer: An imbalance in bladder cancers was observed in clinical studies with dapagliflozin. OTERN should not be used in patients with active bladder cancer and should be used with caution in patients with a prior history of bladder cancer. (5.12)
- Arthralgia: Severe and disabling arthralgia has been reported in patients taking DPP-4 inhibitors. Consider as a possible cause for severe joint pain and discontinue drug if appropriate. (5.13, 6.1, 6.2)
- Bullous Pemphigoid: There have been postmarketing reports of bullous pemphigoid requiring hospitalization in patients taking DPP-4 inhibitors. Tell patients to report development of blisters or erosions. If bullous pemphigoid is suspected, discontinue QTERN. (5.14)
- Macrovascular Outcomes: There have been no clinical studies establishing conclusive evidence of macrovascular risk reduction with QTERN. (5.15)

----- ADVERSE REACTIONS ------

Adverse reactions reported in \geq 5% of subjects treated with dapagliflozin and saxagliptin were: upper respiratory tract infection, urinary tract infection, and dyslipidemia. (6.1)

To report SUSPECTED ADVERSE REACTIONS, contact AstraZeneca at 1-800-236-9933 or FDA at 1-800-FDA-1088 or www.fda.gov/medwatch.

----- DRUG INTERACTIONS ------Strong CYP3A4/5 Inhibitors (e.g., Ketoconazole): Do not coadminister QTERN with strong cytochrome P450 3A4/5 inhibitors. (2.3, 7)

----- USE IN SPECIFIC POPULATIONS ------

Pregnancy: Advise females of the potential risk to a fetus especially during the second and third trimesters. (8.1)

Lactation: QTERN is not recommended when breastfeeding. (8.2)

- Geriatrics: Higher incidence of adverse reactions related to volume depletion and reduced renal function. (5.3, 5.5, 8.5)
- Renal Impairment: Higher incidence of adverse reactions related to reduced intravascular volume and renal function. (5.5, 6.1, 8.6)

See 17 for PATIENT COUNSELING INFORMATION and Medication Guide

Revised: 5/2019

- 5.2 Heart Failure
- 5.3 Hypotension
- 5.4 Ketoacidosis
- 5.5 Acute Kidney Injury and Impairment in Renal Function
- 5.6 Urosepsis and Pyelonephritis
- 5.7 Hypoglycemia with Concomitant Use of Insulin or Insulin Secretagogues
- 5.8 Necrotizing Fasciitis of the Perineum (Fournier's Gangrene)
- 5.9 Hypersensitivity Reactions
- 5.10 Genital Mycotic Infections

Find authenticated court documents without watermarks at docketalarm.com.

5.11 Increases in Low-Density Lipoprotein Cholesterol (LDL-C) 11 DESCRIPTION 5.12 Bladder Cancer 12 CLINICAL PHARMACOLOGY 5.13 Severe and Disabling Arthralgia 12.1 Mechanism of Action 5.14 Bullous Pemphigoid 12.2 Pharmacodynamics 5.15 Macrovascular Outcomes 12.3 Pharmacokinetics **6 ADVERSE REACTIONS** 13 NONCLINICAL TOXICOLOGY 6.1 Clinical Trials Experience 13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility 6.2 Postmarketing Experience 13.2 Animal Toxicology and/or Pharmacology 7 DRUG INTERACTIONS 14 CLINICAL STUDIES **8 USE IN SPECIFIC POPULATIONS** 14.1 Add-on Therapy with Dapagliflozin plus Saxagliptin in Patients on 8.1 Pregnancy Metformin 8.2 Lactation 14.2 Add-on Therapy with Saxagliptin in Patients on Dapagliflozin plus 8.4 Pediatric Use Metformin 8.5 Geriatric Use 14.3 Cardiovascular Safety Trial 8.6 Renal Impairment 16 HOW SUPPLIED/STORAGE AND HANDLING 8.7 Hepatic Impairment **17 PATIENT COUNSELING INFORMATION** 10 OVERDOSAĜE *Sections or subsections omitted from the full prescribing information are not listed.

FULL PRESCRIBING INFORMATION

1 INDICATIONS AND USAGE

QTERN (dapagliflozin and saxagliptin) is indicated as an adjunct to diet and exercise to improve glycemic control in adults with type 2 diabetes mellitus.

Limitations of Use

QTERN is not indicated for the treatment of type 1 diabetes mellitus or diabetic ketoacidosis.

2 DOSAGE AND ADMINISTRATION

2.1 Prior to Initiation of QTERN

Assess renal function prior to initiation of QTERN therapy and periodically thereafter [see WARNINGS AND PRECAUTIONS (5.5)].

In patients with volume depletion, correct this condition prior to initiation of QTERN [see WARNINGS AND PRECAUTIONS (5.3) and USE IN SPECIFIC POPULATIONS (8.5, 8.6)].

2.2 Dosage

DOCKE.

For patients not already taking dapagliflozin, the recommended starting dose of QTERN is a 5 mg dapagliflozin/5 mg saxagliptin tablet taken orally once daily in the morning with or without food.

In patients tolerating 5 mg dapagliflozin and 5 mg saxagliptin once daily who require additional glycemic control, the QTERN dose can be increased to 10 mg dapagliflozin/5 mg saxagliptin tablet once daily in the morning with or without food.

Swallow whole. Do not crush, cut or chew QTERN tablets.

2.3 Patients with Renal Impairment

No dose adjustment is needed in patients with an estimated glomerular filtration rate (eGFR) greater than or equal to $45 \text{ mL/min}/1.73 \text{ m}^2$.

QTERN is contraindicated in patients with an eGFR less than 45 mL/min/1.73 m² [see CONTRAINDICATIONS (4) and USE IN SPECIFIC POPULATIONS (8.6)].

2.4 Use with Strong CYP3A4/5 Inhibitors

Do not coadminister QTERN with strong cytochrome P450 3A4/5 inhibitors (e.g., ketoconazole, atazanavir, clarithromycin, indinavir, itraconazole, nefazodone, nelfinavir, ritonavir, saquinavir, and telithromycin) [see DRUG INTERACTIONS (7)].

3 DOSAGE FORMS AND STRENGTHS

Tablets:

- 5 mg dapagliflozin/5 mg saxagliptin as light purple to reddish purple, biconvex, round, film-coated tablet, with "1120" printed on both sides, in blue ink.
- 10 mg dapagliflozin/5 mg saxagliptin as light brown to brown, biconvex, round, film-coated tablet, with "1122" printed on both sides, in blue ink.

4 CONTRAINDICATIONS

QTERN is contraindicated in patients with:

- History of a serious hypersensitivity reaction to dapagliflozin or to saxagliptin, including anaphylaxis, angioedema or exfoliative skin conditions [see WARNINGS AND PRECAUTIONS (5.8) and ADVERSE REACTIONS (6.1)].
- Moderate to severe renal impairment (eGFR less than 45 mL/min/1.73 m²), end-stage renal disease (ESRD), or patients on dialysis *[see USE IN SPECIFIC POPULATIONS (8.6)]*.

5 WARNINGS AND PRECAUTIONS

5.1 Pancreatitis

There have been postmarketing reports of acute pancreatitis in patients taking saxagliptin. In a cardiovascular outcomes trial enrolling participants with established atherosclerotic cardiovascular disease (ASCVD) or multiple risk factors for ASCVD (SAVOR trial), cases of definite acute pancreatitis were confirmed in 17 of 8240 (0.2%) patients receiving saxagliptin compared to 9 of 8173 (0.1%) receiving placebo. Pre-existing risk factors for pancreatitis were identified in 88% (15/17) of those patients receiving saxagliptin and in 100% (9/9) of those patients receiving placebo.

After initiation of QTERN, observe patients for signs and symptoms of pancreatitis. If pancreatitis is suspected, promptly discontinue QTERN and initiate appropriate management. It is unknown whether patients with a history of pancreatitis are at increased risk for the development of pancreatitis while using QTERN.

5.2 Heart Failure

DOCKET

In a cardiovascular outcomes trial enrolling participants with established ASCVD or multiple risk factors for ASCVD (SAVOR trial), more patients randomized to saxagliptin (289/8280, 3.5%) were hospitalized for heart failure compared to patients randomized to placebo (228/8212, 2.8%). In a time-to-first-event analysis the risk of hospitalization for heart failure was higher in the saxagliptin group (estimated Hazard Ratio: 1.27; 95% CI: 1.07, 1.51). Subjects with a prior history of heart failure and subjects with renal impairment had a higher risk for hospitalization for heart failure, irrespective of treatment assignment.

Consider the risks and benefits of QTERN prior to initiating treatment in patients at a higher risk of heart failure. Observe patients for signs and symptoms of heart failure during therapy. Advise patients of the characteristic symptoms of heart failure and to immediately report such symptoms. If heart failure develops, evaluate and manage according to current standards of care and consider discontinuation of QTERN.

5.3 Hypotension

Dapagliflozin causes intravascular volume contraction. Symptomatic hypotension can occur after initiating QTERN [*see ADVERSE REACTIONS (6.1)*] particularly in patients with impaired renal function (eGFR <60 mL/min/1.73 m²), elderly patients, or patients on loop diuretics. Before initiating QTERN volume status should be assessed and corrected. QTERN is contraindicated in patients with an eGFR <45 mL/min/1.73 m². Monitor for signs and symptoms of hypotension after initiating therapy.

5.4 Ketoacidosis

Reports of ketoacidosis, a serious life-threatening condition requiring urgent hospitalization, have been identified in postmarketing surveillance in patients with type 1 and type 2 diabetes mellitus receiving sodium glucose cotransporter-2 (SGLT2) inhibitors, including dapagliflozin. Fatal cases of ketoacidosis have been reported in patients taking dapagliflozin. QTERN is not indicated for the treatment of patients with type 1 diabetes mellitus [*see INDICATIONS AND USAGE (1)*].

Patients treated with QTERN who present with signs and symptoms consistent with severe metabolic acidosis should be assessed for ketoacidosis regardless of presenting blood glucose levels as ketoacidosis associated with QTERN may be present even if blood glucose levels are less than 250 mg/dL. If ketoacidosis is suspected, QTERN should be discontinued, the patient should be evaluated and prompt treatment should be instituted. Treatment of ketoacidosis may require insulin, fluid and carbohydrate replacement.

In many of the postmarketing reports for dapagliflozin, and particularly in patients with type 1 diabetes, the presence of ketoacidosis was not immediately recognized and the institution of treatment was delayed because the presenting blood glucose levels were below those typically expected for diabetic ketoacidosis (often less than 250 mg/dL). Signs and symptoms at presentation were consistent with dehydration and severe metabolic acidosis and included nausea, vomiting, abdominal pain, generalized malaise, and shortness of breath. In some but not all cases, factors predisposing to ketoacidosis such as insulin dose reduction, acute febrile illness, reduced caloric intake due to illness or surgery, pancreatic disorders suggesting insulin deficiency (e.g., type 1 diabetes, history of pancreatitis or pancreatic surgery), and alcohol abuse were identified.

Before initiating QTERN, consider factors in the patient history that may predispose to ketoacidosis including pancreatic insulin deficiency from any cause, caloric restriction and alcohol abuse. In patients treated with QTERN consider monitoring for ketoacidosis and temporarily discontinuing QTERN in clinical situations known to predispose to ketoacidosis (e.g., prolonged fasting due to acute illness or surgery) [see ADVERSE REACTIONS (6.2)].

DOCKET A L A R M



Explore Litigation Insights

Docket Alarm provides insights to develop a more informed litigation strategy and the peace of mind of knowing you're on top of things.

Real-Time Litigation Alerts



Keep your litigation team up-to-date with **real-time alerts** and advanced team management tools built for the enterprise, all while greatly reducing PACER spend.

Our comprehensive service means we can handle Federal, State, and Administrative courts across the country.

Advanced Docket Research



With over 230 million records, Docket Alarm's cloud-native docket research platform finds what other services can't. Coverage includes Federal, State, plus PTAB, TTAB, ITC and NLRB decisions, all in one place.

Identify arguments that have been successful in the past with full text, pinpoint searching. Link to case law cited within any court document via Fastcase.

Analytics At Your Fingertips



Learn what happened the last time a particular judge, opposing counsel or company faced cases similar to yours.

Advanced out-of-the-box PTAB and TTAB analytics are always at your fingertips.

API

Docket Alarm offers a powerful API (application programming interface) to developers that want to integrate case filings into their apps.

LAW FIRMS

Build custom dashboards for your attorneys and clients with live data direct from the court.

Automate many repetitive legal tasks like conflict checks, document management, and marketing.

FINANCIAL INSTITUTIONS

Litigation and bankruptcy checks for companies and debtors.

E-DISCOVERY AND LEGAL VENDORS

Sync your system to PACER to automate legal marketing.