DAPANEX Tablet (As per Innovator's Specification)

Dapagliflozin

(Manufacturer Specification) 5mg and 10mg Film Coated Tablets

COMPOSITION

Dapagliflozin as propanediol Monohydrate 10mg (As per Innovator's Specifications)

DESCRIPTION
DAPANEXT(Dapagiflozin) is a highly potent, selective and reversible inhibitor of sodium glucose co-transporter 2 (SGLT2). Chemically, Dapagiflozin is D-gluctol, 1,5-anhydro-1-C-(4-chloro-3-(4derboxypheny)) methylphenyl); 1,5%, compounded with (25)-1,2-propanediol, hydrate (1:1:1). Its molecular formula is C,H_oClO, C,H_O,H_O and the structural formula.

CLINICAL PHARMACOLOGY

of Action Sodium-glucose co-transporter 2 (SGLT2), expressed in the proximal Mechanism of Action Sodium-glucose co-transporter 2 (SGIT2), expressed in the proximal renal tubules, it responsible for the majority of the reabsorption of filtered glucose from the tubular lumen. Dapagifficari is an inhibitor of SGIT2. By inhibiting SGIT2, dapagifficari neduces reabsorption of filtered glucose and lowers the renal threshold for glucose, and thereby increases urinary glucose excretion. Dapagifficarin also reduces sodium reabsorption and increases the delivery of sodium to the distal tubule. This may influence several physiological functions including, but not restricted to, lowering both pre- and arterolad of the heart and downregulation of sympathetic activity and decreased intraglomerular pressure which is believed to be mediated by increased tubuloglomerular feedback.

Pharmacokinetics Absorption

Absorption
Following oral administration of dapagliflozin, the maximum plasma concentration (Cmax) is usually attained within 2 hours under fasting state. The Cmax and AUC values increase does proportionally with increase indeapagliflozin does in the therapeutic does range. The absolute oral bioavallability of dapagliflozin following the administration of a flong dose is 78%. Administration of dapagliflozin with a high-fat meal decreases tix Cmax by up to 50% and prolongs Tmax by approximately 1 hour, but does not alter AUC as compared with the fasted state. These changes are not considered to be clinically meaningful and dapagliflozin can be administered with or without food.

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Distribution

Dapagliflozin is approximately 91% protein bound. Protein binding is not altered in patients with renal or hepatic impairment.

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Metabolism
The metabolism of dapagliflozin is primarily mediated by UGT1A3; CYP-mediated metabolism is a minor clearance pathway in humans. Dapagliflozin is extensively metabolized, primarily to yield dapagliflozin 30-glucuronide, which is an inactive metabolized, primarily to yield dapagliflozin 30-glucuronide, which is an inactive metabolite. Dapagliflozin dose and is the predominant drug-related component in human plasma. Elimination
Dapagliflozin and related metabolites are primarily eliminated via the renal pathway. Pollowing a single Somg dose of IAC-Idapagliflozin, 75% and 27% total radiacativity is excreted in urine and feces, respectively. In urine, less than 2% of the dose is excreted as parent drug. In the rices, approximately 15% of the dose is excreted as parent drug. The man plasma terminal half-life (t1/2) for dapagliflozin is approximately 12.9 hours following a single oral dose of dapagliflozin 10mg. Special Population

Special Population Sections with renal impairment

Patients with renal impairment
The steady-state 24-hour urinary glucose excretion in patients with type 2 diabetes mellitus
and mild, moderate, and severe renal impairment were 42%, 80%, and 90% lower,
respectively, than in patients with type 2 diabetes mellitus with normal renal function. The respectively, than in patients with type 2 diabetes mellitus with nomal renal function. In renal glucose deforance and 24 hour (lucose excretion was lower in patients with moderate or severe renal impairment as compared to patients with normal and mild renal impairment. There were no differences in the protein binding of diapapilificain between renal impairment groups or compared to healthy subjects. The impact of hemodialysis on diapapilificain peouver is not known.

Patients with hepatic impairment In subjects with mild and moderate hepatic impairment (Child-Pugh classes A and B), mean Cmax and AUC of dapagifficatin were up to 12% and 36% higher, respectively, as compared to healthy matched control subjects following single-dose administration of 10mg dapagifficani. In patients with severe hepatic impairment (Child-Pugh class C), mean Cmax and AUC of dapagifficatin were up to 40% and 67% higher, respectively, as compared to healthy matched controls.

THERAPEUTIC INDICATIONS

- INTERCEPTOR INDICATIONS
 DAPANEXT (Opapajifiozin) is indicated:

 As an adjunct to diet and exercise to improve glycemic control in adults with type 2 diabetes melitus.

 To reduce the risk of hospitalization for heart failure in adults with type 2 diabetes melitus.

- To electicate or lisk of inspiratazion for disease or multiple cardiovascular risk factors: an adie the established cardiovascular for disease or multiple cardiovascular risk factors: in adults with heart failure in disease of the cardiovascular death and host place of the cardiovascular disease of the cardiovascular disease of the cardiovascular disease of the cardiovascular factors. It is a disease of the cardiovascular disease of the cardiovasc

DOSAGE AND ADMINISTRATION

POTOR TO THE TOTAL THE TOTAL

eSFR (mL/min/1.72m²)	Recommended Doca
etifit til or greater	To improve glycenic control, the recommended carring does it long coolly once daily. Does can be increased to 19th greatly once daily. See additional glycenic control, for all other indications, the recommended carring-does is 19th greatly once daily, and #2.5 to level has did 19th greatly once daily.
eSFR di to less than di	10mg crafy once daily*.
eGFR less than 25	Solitation is not recommended, knowner patients may continue "Drug outly cone doily to reduce the risk of eEPR decline, \$1822 (find Stage Kölney Dissour), CV (Continuous) electh, and 169 (Inopitalization for heart follows).
On dialysis	Containdicated.

*DAPANEXT (Dapagliflozin) is not recommended for use to improve glycaemic control in adults with type 2 diabetes mellitus with an eGFR less than 45mL/min/1.73m2

Special Population
Patients with Hepatic Impairment
No dosage adjustment for DAPANEXT (Dapagliflozin) Tablets is necessary for patients with mild or moderate hepatic impairment. In patients with severe hepatic impairment, a starting dose of 5mg is recommended. If well tolerated, the dose may be increased to 10mg when indicated.
Pacelatric and Adolescent
The safety and efficacy of dapagliflozin in children aged 0 to <18 years have not been established.
Elderly
No dosage adjustment is recommended based on age.

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 No dosage adjustment is recommended based on age.
 CONTRAINDICATIONS
 Dapagiffican is contraindicated in patients with:

 History of a serious hypersensitivity reaction to dapagifficain, such as anaphylactic reactions or angiogedema or to any excipient of the product.

 Patients who are being treated for glycaemic control without established CVD or more than the contractions of the contraction of the contractions of the contraction of the contraction

ADVERSE REACTIONS

ADVERSE REACTIONS

Werv.Common, Hypooglycemia (when used with sulphonylurea or insulin).
Common: Vulvovaginitis, balanitis and related genital infections, urinary tract infection,
diabetic ketoacidosis (when used in type 1 diabetes mellitus), dizziness, rash, back pain,
dysuria, polyuria, haematocrit increased, creatinine renal clearance decreased during initial

of ysura, portyrus, inetrieseus nameurs in treatment and dysligidaemia. Uncommon: Fungal infection, volume depletion, thirst, constipation, dry mouth, nocturia, wilvowaginal prutits, pruritus, grenital, blood creatinine increased during initial treatment, blood urea increased and weight decreased. Rare: Diabetic ketoacidosis (when used in

blood urea increased and weight decreased. Rare: Diabetic ketoacidosis (when used in Type 2 diabetes melitus).

Ver. Farz: Necrotizing Fascitist of the perineum (Fournier's gangrene) and angioedema. Fascitist of the perineum (Fournier's gangrene) and angioedema. Fascitist of the perineum (Fournier's gangrene) and angioedema. PRECAUTIONS

Volume Depletion Dapagliflozin can cause intravascular volume depletion which may sometimes manifest as symptomatic hypotension or acute transient changes in creatinine. There have been post-marketing reports of acute kidney injury, some requiring hospitalization and dialysis, in patients with type 2 diabetes mellitus receiving SCIT2 (SmI, /min/ 1.73 mg), elderly patients, or patients on loop direction may be at increased risk for volume depletion or hypotension. Before initiating dapagliflozin in patients with one or more of these characteristics, assess volume status and renal function. Monitor for signs and symptoms of hypotension, and renal function after initiating therapy.

Ketoacidosis in Patients with Diabetes Mellitus, A serious life-threatening condition requiring urgent hospitalization have been identified in patients with type 1 and type 2 diabetes mellitus receiving social meglucore cot armsporter 2 (SGIT2) inhibitors, including dapagliflozin. Fatal cases of ketoacidosis have been reported in patients taking dapagliflozin. Before initiating dapagliflozin, consider factors in the patient history that may predispose to ketoacidosis, including pancreatic insulin defficiency from any cause, calonic restriction, before initiating dapagliflozin (consider factors in the patient history that may predispose

Before initiating dapagificatin, consider factors in the partient history that may predispose to ketoacidosis, including panareatic insulin definery from any cause, caloric restriction, and alchorla abuse. The streament should be interrupted in patients who are hospitalized for major surgical procedures or acute serious medical illinesses. Monitoring of ketones is recommended in three patients or acute serious medical illinesses. Monitoring of ketones is recommended in three patients of the streament with dapagiffication may be restarted when the ketone values are normal and the patients condition has stabilized.

Type 2 Diabetes Mellitus: In patients where diabetic ketoacidosis is suspected or diagnosed. type 2 plauetes wienigs. In plaueits wirele diabetic ketolatuosis is suspected or diagnosed, dapaglifficiar treatment should be stopped immediately. Restarting SGIT2 inhibitor treatment in patients experiencing a diabetic ketoacidosis while on SGIT2 inhibitor treatment is not recommended, unless another clear precipitating factor is identified and

- recolved.

 Type 1 Diabetes Mellitus: Dapagliflozin should not be initiated when patients are at a higher risk of diabetic ketoacidosis, such as:

 Patients with low insulin needs.

 Patient not no optimal insulin dose or who have recent issues with noncompliance or recurrent errors with insulin dosing and who are unlikely to maintain adequate insulin diabin.

- Ratent not on optimal insulin dose to more recurrent errors with insulin dosing and who are unlikely to maintain adequate measured dosing.

 Patients with increased insulin requirements due to acute medical illness or surgery.

 Patients who insist on maintaining caloric restriction, carbohydrate restriction or ketogenic dieter or who chronically under-dose insulin (e.g., in order to remain in a lipolytic state).

 Patients with recent or recurrent history of diabetic ketoaddosis.

 Patients with elevated ketones levels (BHB reading is greater than 0.6mmol/L or urine ketones one plus (H)). If ketones are elevated (Blood beta-hydroxybutyrate reading 0.6mmol/L or greater), treatment with dapagifilozin should not be started until the ketone levels are normal.

 Patients unable or unwilling to monitor ketones.
- evision () Lor greater), treatment with dapagliflozin should not be started until the ketone levels are normal.

 Patients unable or unwilling to monitor ketones.

 Patients with excessive alcohol consumption or who use illicit drugs. Patients using an extensive started until the ketone levels are the started until the ketone levels are the started or the started until the patients which be given within 2 hours of an unexplained high blood glucose/tetone value and dapagliflozin treatment should be interrupted. Restarting SGLT2 inhibitor treatment in patients experiencing a diabetic ketoacidosis while on SGLT2 inhibitor treatment in not recommended, unless another clear precipitating factor is identified and resolved. During treatment with dapagliflozin:

 Insulin therapy should be continuously optimized.

 When needed to prevent hypoglycemia, insulin dose reduction should be done cautiously to avoid ketosis and diabetic ketoacidosis.

 In the event of a marked reduction of insulin need, discontinuation of dapagliflozin should be considered.

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ketone monitoring: The patient should be advised to test their ketone level (urine or
blood) if signs or symptoms of ketocalidosis occur. Measurement of blood ketone levels is
preferred to urine. Ketones should be monitored on a regular basis during the initial one to
two weeks, then the frequency of ketone level testing should be individualized, according
to the patient's lifestyle and/or risk factors. Ketone levels should be also checked in
situations that may predispose too increaser isk of diabetic ketoaddosis.
<u>Urosepsis and Phelonaphrits</u>
Serious urinary tract infections including urosepsis and pyelonephritis requiring
hospitalization have been reported in patients receiving SGLT2 inhibitors, including
apagglifloz. In Testurnent with SGLT2 inhibitors increases the risk for urinary tract
promptly, ifindicated.
Hypodycemia with Concomitant Use with Insulin and Insulin Secretagogue. Therefore, a
lower dose of insulin or insulin secretagogue may be required to minimize the risk of
hypodycemia when combined with insulin or an insulin secretagogue. Therefore, a
lower dose of insulin or insulin secretagogue may be required to minimize the risk of
hypodycemia when these agents are used in combination with dapagliflozin.
Necrotizing fascitis of the Perineum Fouriner's Sangraena
A rare but serous and life-therestering percortizing infection, Necrotizing fascitis of the
perineum (rournier's Sangreen) has been identified in patients with diabetes mellitus
copalitation untilple surgeries, and death
Patients treated with dapagliflozin presenting with pain or tenderness, erythema, or
weekling in the genital or prerineira, and death
Patients treated with dapagliflozin presenting with pain or tenderness, erythema, or
weekling in the genital or prerineira, and death
Patients treated with dapagliflozin presenting with pain or te

artibiotics and, if necessary, surgical debridement.

Gentral Mycotic Infections

Dapagillion in increases the risk of genital mycotic infections. Patients with a history of genital mycotic infections were more likely to develop genital mycotic infections. Monitor and treat appropriately.

and treat appropriately.
Surgeny
Treatment with dapagliflozin should be ceased prior to major surgery. Consider
temporarily discontinuing dapagliflozin for at least 3 days prior to surgery.
Fiderly 6 55 vears)
Elderly patients may be at a greater risk for volume depletion and are more likely to be
treated with diuretics.
Elderly patients are more likely to have impaired renal function, and/or to be treated with
anti-hypertensive medicinal products that may cause changes in renal function such as
angiotensin-converting enzyme inhibitors (ACE)-j and angiotensin-insili I lype 1 receptor
blockers (ARB). The same recommendations for renal function apply to elderly patients as
to all patients.

to an patient. Clower Limb Amputations
An increase in cases of lower limb amputation (primarily of the toe) has been observed in long-term, dirical studies in type 2 diabetes melitius with SGLT2 inhibitors. It is unknown whether this constitutes a class effect. It is important to coursel patients with diabetes on routine preventable foot circ.

Tortune preventative rootcare.

<u>Urine Laboratory Assessments</u> Due to its mechanism of action, patients taking dapaqliflozin will test positive for qlucose in their urine.

<u>Lactose</u>
The tablets contain lactose. Patients with rare hereditary problems of galactose intolerance, total lactase deficiency or glucose-galactose malabsorption should not take

this medicinal product. Effects on ability to drive and use machines Dapagillodin has no or negligible influence on the ability to drive and use machines. Patients should be altered to the risk of hypoglycemia when dapagiflozin is used in combination with a sulphonylurea or insulin.

Limitation of Use

- Limitation of Use

 Dapaglificion is not recommended for patients with type 1 diabetes mellitus. It may increase the risk of diabetic ketoacidosis in these patients.

 Dapaglificanis not recommended for the treatment of chronic kidney disease in patients with polycystic kidney disease or patients requiring or with a recent history of immunosuppressive therapy for kidney disease. Dapagliflozin is not expected to be effective in these populations.

effective in trase purpusarion...

Pregnancy

Dapagliffczin must not be used during the second and third trimesters of pregnancy. When pregnancy is detected, treatment with dapagliffczin should be discontinued.

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Nursing Mothers

Dapagifflozin must not be used by breastfeeding women. It is not known whether dapagifflozin or its metabolites are excreted in human milk.

DRUG INTERACTIONS

Diuretics Dapagifflozin may add to the diuretic effect of thiazide and loop diuretics and may increase the risk of dehydration and hypotension.

Insulin and insulin secretagogues

Insulin and insulin secretagogues, such as sulphonylureas, cause hypoglycemia. Therefore, a lower dose of insulin or an insulin secretagogue may be required to reduce the risk of hypoglycemia.

hypoglycenic Discose Test
Monitoring glycemic control with urine glucose tests is not recommended in patie taking SGLT2 inhibitors as SGLT2 inhibitors increase urinary glucose excretion and will le to positive urine glucose tests. Use alternative methods to monitor glycemic control and the state of the ease urinary glucose excretion and will lead we methods to monitor glycemic control.

to positive urine glucose tests. Use alternative methods to monitor glycemic control. Interference with 1.5 anhydroduciol 1.5.4G. assay is not recommended as measurements of 1,5-4G are unreliable in assessing glycemic control in patients taking SGLT2 inhibitors. Use alternative methods to monitor glycemic control. OVERDOSAGE Dapagilfication idd not show any toxicity in healthy subjects at single oral doses up to 500mg (50 times the maximum recommended human dose). In clinical studies where once-daily doses of up to 100mg (10 times the maximum recommended human dose) were administered for 2 weeks in healthy subjects and type 2 diabetes subjects, the incidence of hypophysma was dishrbh binder than placebo and was not drose-plated. hypoglycemia was slightly higher than placebo and was not dose-related. Treatment

STORAGE

Store below 30°C. Protect from sunlight, heat and moisture.

HOW SUPPLIED

DAPANEXT 5mg Tablets: Pack of 10's film coated tablets.

DAPANEXT 10mg Tablets: Pack of 14's film coated tablets.

TO BE SOLD ON PRESCRIPTION OF A REGISTERED MEDICAL PRACTITIONER ONLY. KEEP OUT OF REACH OF CHILDREN. PLEASE READ THE CONTENTS CAREFULLY BEFORE USE. THIS PACKAGE INSERT IS CONTINUALLY UPDATED FROM TIME TO TIME.

> ڈبیانیکسٹ ٹیبلٹ (ڈیبیا گلائفلوزن) 5 ملی گرام اور 10 ملی گرام فلم كوثدٌ گولياں خوراك ومدايات: ڈاکٹر کی ہدایات کےمطابق استعمال کریں۔ صرف متندة اكثر كے نسخه كے مطابق ہى دوافر وخت كى جائے۔ تمام ادویات بچول کی پینچ سے دورر کھیں۔ دواکو 30°C سے کم درجہ حرارت پر روشنی ،گرمی اورنمی ہے حفوظ رکھیں۔

