

COMPOSITION: JARDY Tablet 10 mg: Each film coated tablet contains: Empagliflozin

Product Specs.: Innovator

JARDY Tablet 25 mg: Each film coated tablet contains: Empagliflozin

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# DESCRIPTION

JARDY tablets contain empagliflozin, an orally-active inhibitor of the sodium-glucose co-transporter 2 (SGLT2). (SGL12). The chemical name of empagliflozin is D-Glucitol,1,5-anhydro-1-C-[4-chloro-3-[[4-[](3S)-tetrahydro-3 furany][ox][pheny][methy][pheny]]-, (1S). Its molecular formula is C23H2rClO7 and the molecular weight is 450.91. The structural formula is:

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# CLINICAL PHARMACOLOGY:

Mechanism of Action: Sodium-glucose co-transporter 2 (SGLT2) is the predominant transporter responsible for reabsorption of glucose from the glomerular filtrate back into the circulation. Empagliflozin is an inhibitor of SGLT2. By inhibiting SGLT2, empagliflozin reduces renal reabsorption of filtered glucose and lowers the renal Inhibiting SGLT2, empagliflozin reduces renal reabsorption of tilte threshold for glucose, and thereby increases urinary glucose excretion. Pharmacokinetics:

Pharmacokinetics: Absorption: After oral administration, peak plasma concentrations of empagliflozin reached at 1.5 hours. The steady state mean plasma AUC and Cmax were 1870 nmol·h/L and 259 nmol/L, respectively, with 10 mg empagliflozin once daily treatment, and 4740 nmol·h/L and 687 nmol/L, respectively, with 25 mg empagliflozin once daily treatment. Empagliflozin may be administered with or without food. Distribution: The apparent steady-state volume of distribution is estimated to be 73.8 L and plasma protein binding is 86.2%. Metabolism: Primary route of metabolism of empagliflozin in humans is glucuronidation by the uridine 5-dinboshop.

Firmary route of metabolism of empagliflozin in humans is glucuronidation by the uridine 5'-diphospho-glucuronosyltransferases UGT2B7, UGT1A3, UGT1A8, and UGT1A9.

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Renal Impairment: Operation operations: A set of the product of

Pediatric

Studies characterizing the pharmacokinetics of empagliflozin in pediatric patients have not been performed.

# INDICATIONS AND USAGE:

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 As an adjunct to diet and exercise to improve glycemic control in adults with type 2 diabetes mellitus,
 To reduce the risk of cardiovascular death in adult patients with type 2 diabetes mellitus and established cardiovascular disease.
 Imitations of Use:
 Not recommended for patients with type 1 diabetes or for the treatment of diabetic ketoacidosis.

DOSAGE AND ADMINISTRATION: Administration: The recommended dose of JARDY is 10 mg once daily in the morning, taken with or without food. In patients tolerating JARDY, the dose may be increased to 25 mg. In patients with volume depletion, correcting this condition prior to initiation of JARDY is recommended

# se Modification Recommendations:

- Patients with Renal Impairment:
   Assessment of renal function is recommended prior to initiation of JARDY and periodically thereafter.
- therearter. JARDY should not be initiated in patients with an eGFR less than 45 mL/min/1.73 m<sup>2</sup>. No dose adjustment is needed in patients with an eGFR greater than or equal to 45 mL/min/1.73 m<sup>2</sup>. JARDY should be discontinued if eGFR is less than 45 mL/min/1.73 m<sup>2</sup>. JARDY is not indicated for the treatment of patients with type 1 diabetes mellitus.

# CONTRAINDICATIONS

- History of serious hypersensitivity reaction Severe renal impairment, end-stage renal disease, or dialysis. :

# WARNINGS AND PRECAUTIONS:

WARNINGS AND FREE OF INC. Hypotension: JARDY causes intravascular volume contraction. Symptomatic hypotension may occur after initiating JARDY, particularly in patients with renal impairment, the elderly, in patients with low systolic blood pressure, and in patients on diuretics. Before initiating JARDY, assess for volume contraction and correct volume status if indicated. Monitor for signs and symptoms of hypotension after initiating therapy and increase monitoring in clinical situations where volume contraction is expected Vatoraridosis:

Increase monitoring in clinical structure interest in the second structure in

replacement. Acute Kidney Injury and Impairment in Renal Function: Empagilifozin causes intravascular volume contraction and can cause renal impairment. Before initiating consider factors that may predispose patients to acute kidney injury including hypovolemia, chronic renal insufficiency, congestive heart failure and concomitant medications (diruretics, ACE inhibitors, ARBs, NSAIDs). Consider temporarily discontinuing 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. More frequent renal function monitoring is recommended in patients with an eGFR below 60 mL/min/1.73 m<sup>2</sup> and is contraindicated in patients with an eGFR less than 30 mL/min/1.73 m<sup>2</sup>. Urosepsis and Pyelonephritis: Treatment with SGIT2 inhibitors increases the risk for urinary tract infections. Evaluate patients for signs and symptoms of urinary tract infections and treat promptly, if

## indicated.

indicated. Hypoglycemia with Concomitant Use with Insulin and Insulin Secretagogues: Insulin and insulin secretagogues are known to cause hypoglycemia. The risk of hypoglycemia is increased when JARDY is used in combination with insulin secretagogues (e.g., sulfornylurea) or insulin. Therefore, a lower dose of the insulin secretagogue or insulin may be required to reduce the risk of hypoglycemia when used in combination with JARDY. Genital Mycotic Infections: JARDY increases the risk for genital mycotic infections. Patients with a history of chronic or recurrent genital mycotic infections were more likely to develop mycotic genital infections. Monitor and treat as anoronizate

appropriate. Increased Low-Density Lipoprotein Cholesterol (LDL-C): Increases in LDL-C can occur Monitor and treat as appropriate.

### DRUG INTERACTIONS: **Diuretics**

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Co-administration of empagliflozin with diuretics resulted in increased urine volume and frequency of voids, which might enhance the potential for volume depletion. Insulin or Insulin Secretagogues: Co-administration of empagliflozin with insulin or insulin secretagogues increases the risk for

Co-administration of empagliflozin with insulin or insulin secretagogues increases the risk for hypoglycemia. **Positive Urine Glucose Test:** Monitoring glycemic control with urine glucose tests is not recommended in patients taking SGLT2 inhibitors as SGLT2 inhibitors increase urinary glucose excretion and will lead to positive urine glucose tests. Use alternative methods to monitor glycemic control. **Interference with 1,5-anhydroglucic10(1,5-AG Assay:** 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.

# USE IN SPECIFIC POPULATION:

USE IN SPECIFIC POPULATION: Pregnancy: Empagilifozin is not recommended during the second and third trimesters of pregnancy. Data available with empagilifozin is not recommended during the second and third trimesters of pregnancy. Data available diabetes in pregnancy. Mursing Mothers: Because of the potential for serious adverse reactions in a breastfed infant, advise women that use of JARDY is not recommended while breastfeeding. Pediatric Use: The safety and effectiveness of empagliflozin in pediatric patients under 18 years of age have not been established. Geriatric use: Mo JARDY dosage change is recommended based on age. JARDY is expected to have diminished glycemic efficacy in elderly patients with renal impairment. The risk of volume depletion-related adverse reactions and urinary tract infections increased in patients who were 75 years of age and older to 2.3%, 4.4% and to 15.7%, and 15.1% for empagliflozin 10 mg and 25 mg. Renal Impairment: The glucose lowering benefit decreased in patients with worsening renal function. The risks of renal

Renal Impairment: The glucose lowering benefit decreased in patients with worsening renal function. The risks of renal impairment, volume depletion, adverse reactions and urinary tract infection-related adverse reactions increased with worsening renal function. The efficacy and safety have not been established in patients with severe renal impairment, with ESRD, or receiving dialysis. Empagliflozin is not expected to be effective in these patient populations. Hepatic Impairment: JARDY may be used in patients with hepatic impairment.

### ADVERSE REACTIONS:

The following important adverse reactions are:

- Hypotension Ketoacidosis
- Acute Kidney Injury and Impairment in Renal Function
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- Virosepsis and Pyelonephritis Hypoglycemia with Concomitant Use with Insulin and Insulin Secretagogues Genital Mycotic Infections
- Increased Low-Density Lipoprotein Cholesterol (LDL-C)
   Postmarketing experience:
- Additional adverse reactions have been identified during post approval use of empagliflozin.
- Ketoacidosis Urosepsis and pyelonephritis

## **OVERDOSAGE**

In the event of an overdose, employ supportive measures, as dictated by the patient's clinical status

# INSTRUCTIONS

- Store below 30°C
- Protect from heat, sunlight & moisture
  Keep out of the reach of children.
- To be sold on the prescription of a registered medical practitioner only

# PRESENTATION:

JARDY Tablet 10 mg JARDY Tablet 25 mg

Pack of 2 x 7 tablets Pack of 2 x 7 tablets

ہور پو ت . ۳۰ درجیسنٹی گریڈ ہے کم درجہ حرارت پر رکھیں۔ گرمی، دھوپ اور نمی ہے بچا نمیں۔ بچوں کی پنچ ہے دورر کھیں۔ صرف ڈا کمٹر کے نسخہ پر فروخت کریں۔

FOR FURTHER INFORMATIONS PLEASE CONTACT.



Manufactured by: CCL Pharmaceuticals (Pvt.) Ltd. 62 Industrial Estate, Kot Lakhpat, Lahore, Pakistan,