

DRUG PRESENTATION ON BENAZEPRIL

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BENAZEPRIL

Introduction :-

Benazepril is an angiotensin-converting enzyme (ACE) inhibitor widely used in the therapy of hypertension. Benazepril is associated with a low rate of transient serum aminotransferase elevations and has been linked to rare instances of acute liver injury. Benazepril is a medication used to treat high blood pressure, heart failure, and diabetic kidney disease.

Generic Name :- Benazepril

Trade Name :-

Lotensin - Tablet

Classification :-

Benazepril is in a class of medications called angiotensin-converting enzyme (ACE) inhibitors. It works by decreasing certain chemicals that

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tighten the blood vessels, so blood flows more smoothly.

Dosage, Route and Available forms :-

Tablets :- 5mg, 10mg, 20mg, 40mg.

Route :- Oral route.

Mechanism of Action :-

Benazepril is an angiotensin converting enzyme (ACE) inhibitor which is used in the treatment of hypertension. Benazepril, after hydrolytic bioactivation to benazeprilat, inhibits angiotensin converting enzyme (ACE), a peptidyl dipeptidase catalysing the conversion of angiotensin I to the vasoconstrictor angiotensin II. Angiotensin II also stimulates aldosterone secretion by the adrenal cortex, leading to sodium reabsorption and potassium secretion by the distal renal tubules. As angiotensin II is a vasoconstrictor and negative-feedback mediator for renin activity, lower concentrations result in a decrease in blood pressure and stimulation of baroreceptor reflex mechanisms, which leads to decreased vasopressor activity and to decreased aldosterone

Secretion.

Indication :-

- Hypertension
- Strokes
- Myocardial infarction
- Kidney problems
- Relaxing blood vessels
- Lowering blood pressure reduces the risk of fatal and nonfatal cardiovascular events.

Contraindication :-

- Low amount of sodium in the blood.
- Dehydration
- High level of potassium in the blood.
- Decreased function of bone marrow
- Inherited disorder of continuing episodes of swelling.
- Low level of a type of white blood cell called neutrophils.
- Renal artery stenosis.

- Decreased kidney function
- Pregnancy
- Hemodialysis with high-flux membrane
- Intestinal angioedema.

Interaction and Side effects :-

Some products that may interact with this drug include - aliskiren, certain drug that weaken the immune system / increase the risk of infection, lithium, drugs that may increase the level of potassium in the blood.

Side effect :-

- Headache
- Cough
- Dizziness
- Fatigue
- Nausea
- Abdominal pain
- Severe allergic reaction
- Skin swelling

- Vomiting
- Skin rash
- Insomnia
- Shortness of breath
- Asthma
- Dizziness upon standing
- Serum creatinine increased
- Drowsiness
- Loss of movement
- Chest pain
- Weakness
- Loss of appetite

Nursing Responsibilities:-

- Assess general condition of the patient.
- Assess dizziness and drowsiness that might affect gait, balance, and other functional activities.
- Monitoring of the blood pressure at frequently.

- Administer antihypertensive medication as prescribed.
- Assess ECG to ensure the patient is not having a heart attack.
- Limit fluids intake if the patient is in heart failure.

References :-

- Maurer C, Kaiser G
- Ganellin, C. Robin.
- <https://www.webmd.com>
- <https://www.rxlist.com>