

Hypen® SR

Indapamide

Description

Indapamide (Hypen® SR) is an oral diuretic antihypertensive agent. It is pharmacologically related to thiazide diuretics but differs chemically from the thiazides in that it does not possess the thiazide ring system and contains a sulphonamide group with an indole ring.

Mode of action

Indapamide (Hypen® SR) exerts antihypertensive action through diuretic as well as vasodilatory effects. Indapamide gives diuretic effects by inhibiting the reabsorption of sodium in the cortical dilution segment. It increases the urinary excretion of sodium and chloride and, to a lesser extent, the excretion of potassium and magnesium, thereby increasing urine output and having an antihypertensive action. Indapamide gives vasodilatory effect by two ways, by normalizing elastin-collagen ratio, thereby increasing the elasticity of blood vessel and by stimulating the synthesis of vasodilatory hypotensive prostaglandin (PGE₂).

Pharmacokinetics

Indapamide (Hypen® SR) is rapidly and completely absorbed from the gastrointestinal tract. Elimination is biphasic with a half-life in whole blood of about 14 hours. Indapamide is strongly bound to red blood cells. It is extensively metabolised. About 60 to 70% of the dose has been reported to be excreted in the urine; only about 5 to 7% is excreted unchanged. About 16 to 23% of the dose is excreted in the faeces. Indapamide is not removed by haemodialysis but does not accumulate in patients with renal impairment.

Composition

Hypen® SR 1.5 mg Tablet: Each sustained-release film-coated tablet contains Indapamide USP 1.5 mg.

Indications

Essential hypertension; hypertension in patients with renal impairment, as its diuretic effect is minimum; salt and fluid retention associated with congestive heart failure.

Dosage & administration

Adults: One tablet daily, preferably in the morning. In more severe cases, can be combined with other categories of antihypertensive agents. **Children:** There is no experience of the use of this drug in children.

Contraindications

Indapamide is contraindicated in patients with hypersensitivity to sulphonamides. This drug should not be taken in renal failure, serious liver disease, hypokalemia.

Side effects

Most of the side effects have been found to be mild and transient. Hypokalemia, headache,

dizziness, fatigue, muscular cramps, nausea, anorexia, diarrhoea, constipation, dyspepsia, rashes and rarely postural hypotension, palpitation, increase in liver enzymes, blood disorders including thrombocytopenia, hyponatremia, metabolic alkalosis, hyperglycemia, increased plasma urate concentrations, paresthesia, photosensitivity, impotence, renal impairment, reversible acute myopia may occur.

Use in pregnancy & lactation

There are no adequate and well-controlled studies in pregnant women and so this drug should be used during pregnancy only if clearly needed. It is not known whether this drug is excreted in human milk. If the use of this drug is deemed essential, the mother should stop breast-feeding.

Precautions

The drug should be used cautiously in the situations like disturbed water/electrolyte balance, diabetes, gout and kidney problems. Monitoring of potassium and uric acid serum levels is also recommended.

Drug interactions

Other Antihypertensives: Indapamide may add to or potentiate the action of other antihypertensive drugs. **Norepinephrine:** Indapamide, like the thiazides, may decrease arterial responsiveness to norepinephrine, but this diminution is not sufficient to preclude effectiveness of the pressor agent for therapeutic use. **Lithium:** In general, diuretics should not be given concomitantly with lithium because they reduce its renal clearance and add a high risk of lithium toxicity.

Over dosage

Indapamide has been found free of toxicity at up to 40 mg. Symptoms of overdosage include nausea, vomiting, weakness, gastrointestinal disorders and disturbances of electrolyte balance. In severe instances hypotension and depressed respiration may be observed. If this occurs, support of respiration and cardiac circulation should be instituted. There is no specific antidote. An evacuation of the stomach is recommended by emesis and gastric lavage after which the electrolyte and fluid balance should be evaluated carefully.

Storage

Store in a cool and dry place, protected from light.

Packaging

Hypen® SR 1.5 mg Tablet: Each carton contains 14X4 tablets in blister pack.



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