



Juvain®

Piracetam BP

Description

Juvain® is a preparation of Piracetam. It acts on the CNS and has been described as a 'nootropic' drug. Piracetam has therapeutic value in patients suffering from cognitive deficits, especially when hypoxia may be a factor in the deficits. Piracetam is said to protect the cerebral cortex against hypoxia and is reported to be an intelligence booster and CNS stimulant. Piracetam modulated neurotransmission and offers neuroprotection. Piracetam also inhibits platelet aggregation and reduce blood viscosity at high doses.

Mode of action

Piracetam increases the activity of adenylate kinase enzyme that converts ADP into ATP and AMP. This reduces the drop in ATP in oxygen-compromised brain. Thus, it prevents the dementia and speeds up the recovery from hypoxia due to enhancement of oxidative glycolysis.

Pharmacokinetics

Piracetam is rapidly and extensively absorbed from the gastrointestinal tract; peak plasma concentrations are reached within 1.5 hours after oral doses. the plasma half-life is reported to be 5 hours and it crosses the blood-brain barrier. Piracetam is excreted almost completely in the urine. It crosses the placenta and is distributed into breast milk.

Composition

Juvain® 800 Tablet: Each film coated tablet contains Piracetam BP 800 mg.

Juvain® 100 ml Syrup: Each 5 ml liquid contains Piracetam BP 500 mg.

Indications

Juvain® is indicated in -

- Cerebral vascular accidents like stroke, head injuries and other acute cases.
- Aging disorders such as reduced cerebral functioning evidenced by memory loss, intellectual decay, character disorders, psychomotor disorders etc
- Adjunctive treatment of cortical myoclonus
- Mental retardation

Dosage & administration

Adults: In cerebro-cortical insufficiency disorders, usual dose is 800 mg 3 times a day.

In myoclonic seizures, a dose of 7.2 gm daily, increasing by 4.8 gm per day every 3 to 4 days up to maximum of 20 gm daily, given in 2 or 3 divided doses.

Children: The daily dosage depends on the weight of the child, 50 mg/kg of body weight in 3 divided doses.

Once the desired results has been obtained, reduce the initial dose by half.

Contraindications

Piracetam is contraindicated in patients with severe renal insufficiency (creatinine clearance < 20 ml/min) and hepatic impairment.

Side effects

The side effects reported includes nervousness, agitation, irritability, anxiety and sleep disturbances. The incidence of these were 5% and these were more often noted in the older patients taking > 2.4 gm daily. In the majority of cases, a dose reduction sufficed to make these symptoms disappear. Some patients may complain of fatigue or drowsiness, gastrointestinal problems, e.g. nausea, vomiting, diarrhoea and stomachache have also been reported but their incidence were ≤ 2%. Other symptoms e.g. vertigo, headache, trembling and sexual stimulation have occasionally been reported.

Use in pregnancy & lactation

Piracetam should not be prescribed during pregnancy or when breast feeding, except under exceptional circumstances. Piracetam is able to cross the placenta.

Precautions

As the principal route of elimination for Piracetam is via the kidney, special care must be taken when treating patients known to suffer from renal insufficiency. Monitoring of renal function is recommended in such cases. The increase in half-life is directly related to the decrease in renal function and creatinine clearance. This is also true for the older patient in whom creatinine clearance is dependent on age.

Drug interactions

No interactions with commonly used pharmaceutical products have been found.

Over dosage

Piracetam appears to be devoid of toxicity even at very high doses and, therefore, the need for specific measures to be taken in case of an overdose.

Storage

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

Packaging

Juvain® 800 Tablet: Each carton contains 10X5 tablets in blister pack.

Juvain® 100 ml Syrup: Each carton contains a bottle having 100 ml syrup.



Manufactured by
Opsonin Pharma Limited
Rupatali, Barishal, Bangladesh.
® Registered Trade Mark.

