

Front

**MEMCOLIN SYRUP**  
(CITICOLINE SYRUP 500 MG / 5 ML)

**Composition :**

Each 5ml contains :  
Citicoline Sodium  
Eq. to Citicoline 500 mg  
Flavoured syrup base q.s.  
Colour: Sunset Yellow FCF

**PHARMACOLOGICAL PROPERTIES**

**Pharmacodynamic properties :**

Citicoline is a complex organic molecule that functions as an intermediate in the biosynthesis of cell membrane phospholipids. Citicoline is also known as CDP-choline and cytidine diphosphatecholine (cytidine 5'-diphosphocholine). Citicoline is composed of two essential moieties, cystidine and choline, linked by a diphosphate bridge, and serves as the phosphocholine donor to 1, 2-diacylglycerol (DAG) to form phosphatidylcholine. It is a pyrimidine 5'-nucleotide, which serves as an essential precursor in the synthesis of lecithin (phosphatidylcholine) and other phospholipids. The extensive damage caused by stroke requires repair and regeneration of the axons and synapses of neurons, so new membrane production is necessary. It helps to preserve the structural and functional integrity of the neuronal membrane and counteracts the deposition of beta-amyloid, a neurotoxic protein believed to play a central role in the pathophysiology of Alzheimer's disease. It also enhances norepinephrine release and raises urinary levels of norepinephrine metabolites. Combination of citicoline and levodopa improve symptoms in patients with Parkinson's disease in small open and controlled studies.

**Pharmacokinetic Properties :**

Pharmacokinetic studies on healthy adults show oral doses of citicoline are rapidly absorbed, with less than one percent excreted in feces. Plasma levels peak in a biphasic manner, at one hour after ingestion followed by a second larger peak at 24 hours post-dosing. Citicoline is metabolized in the gut wall and liver. The byproducts of exogenous citicoline formed by hydrolysis in the intestinal wall are choline and cytidine. Following absorption, choline and cytidine are dispersed throughout the body, enter systemic circulation for utilization in various biosynthetic pathways, and cross the blood-brain barrier for re-synthesis into citicoline in the brain. Elimination mainly occurs through respiratory CO<sub>2</sub> and urinary excretion.

**THERAPEUTIC INDICATIONS**

It is indicated for the treatment of patients with disturbance of consciousness resulting from a head injury or brain operation, and in the acute stage of cerebral infarction. Citicoline is taken by mouth or given as an injection to help memory loss due to aging, improve vision in people with glaucoma, and help with recovery in stroke patients. It is also used for Alzheimer disease, Parkinson disease, bipolar disorder, lazy eye, and other conditions of the brain.

**POSOLGY AND METHOD OF ADMINISTRATION**

**Posology**

**For decline in memory and thinking skills that occurs normally with age:** 1000-2000 mg of citicoline per day.  
**For a group of eye disorders that can lead to vision loss (glaucoma):** 500-1600 mg per day.  
**For stroke:** 500-2000 mg of citicoline per day starting within 24 hours of stroke.

Dimensions: 93 mm x 143 mm

Back

**Method of administration:**

Oral Administration

**CONTRAINDICATION**

Hypersensitivity to the citicoline or any other component of the formulation.

**SPECIAL WARNING AND PRECAUTIONS FOR USE**

It is recommended with an intracranial pressure relieving drug and haemostatics, or a treatment such as hypothermia in patients with head injury or brain operation.

**INTERACTION WITH OTHER MEDICINAL PRODUCTS AND OTHER FORMS OF INTERACTION**

Citicoline may enhance the effects of levodopa, carbidopa and entacapone and increase dopamine level in brain. Must not be administered in conjunction with medications containing centropheoxine.

**PREGNANCY AND LACTATION PREGNANCY**

There are no adequate and well-controlled studies of citicoline during pregnancy. Citicoline should be used during pregnancy only if the potential benefit justifies the potential risk to the foetus.

**LACTATION**

Caution should be exercised during breast feeding because it is not known whether citicoline is excreted in breast milk.

**UNDESIRABLE EFFECTS**

Some people can have side effects such as insomnia, headache, constipation, diarrhea, nausea, stomach pain, blurred vision, chest pains, and others.

**OVERDOSE**

There are no known cases of overdose in humans available for citicoline.

**STORAGE :** Store below 30°C. Protect from light & moisture.

Keep all medicines out of reach of children.

**PRESENTATION**

60ml Glass Bottle packed in a carton with pack insert.

**Manufactured by :**

 **BAROQUE**

**PHARMACEUTICALS PVT. LTD.**  
192/2 & 3, 190/1 & 202/9, Sokhada-388620,  
Tal-Khambhat, Dist.-Anand,  
Gujarat State, India.

**Manufactured for :**



**Omnicals Pharma (Pvt.) Ltd.**  
Andheri (W), Mumbai-400053, India.

Dimensions: 93 mm x 143 mm