

THE NEW BRAIN

Why - When you work, do your job, or study in the classroom, you are using your brain. But how do you know if your brain is working properly? There are many signs and symptoms that can indicate a problem with your brain. Some of the most common signs are: memory loss, difficulty concentrating, and a general feeling of "fog" or "slowness".

How - Many things that we do and feel daily are controlled by the brain. The brain is the most important part of our body. It controls our thoughts, feelings, and actions. It also controls our physical functions, such as breathing, heart rate, and digestion. The brain is a complex organ that is constantly working to keep us alive and healthy.

Every day we use our brain to do things like: read, write, and solve problems. We use our brain to make decisions and to learn new things. Our brain is constantly working to keep us up to date on the world around us. It is a remarkable organ that is capable of amazing things.

There are many ways to keep your brain healthy. One of the best ways is to exercise regularly. Exercise helps to increase blood flow to the brain, which helps to keep it healthy and active. Other ways to keep your brain healthy include eating a healthy diet, getting enough sleep, and staying hydrated.

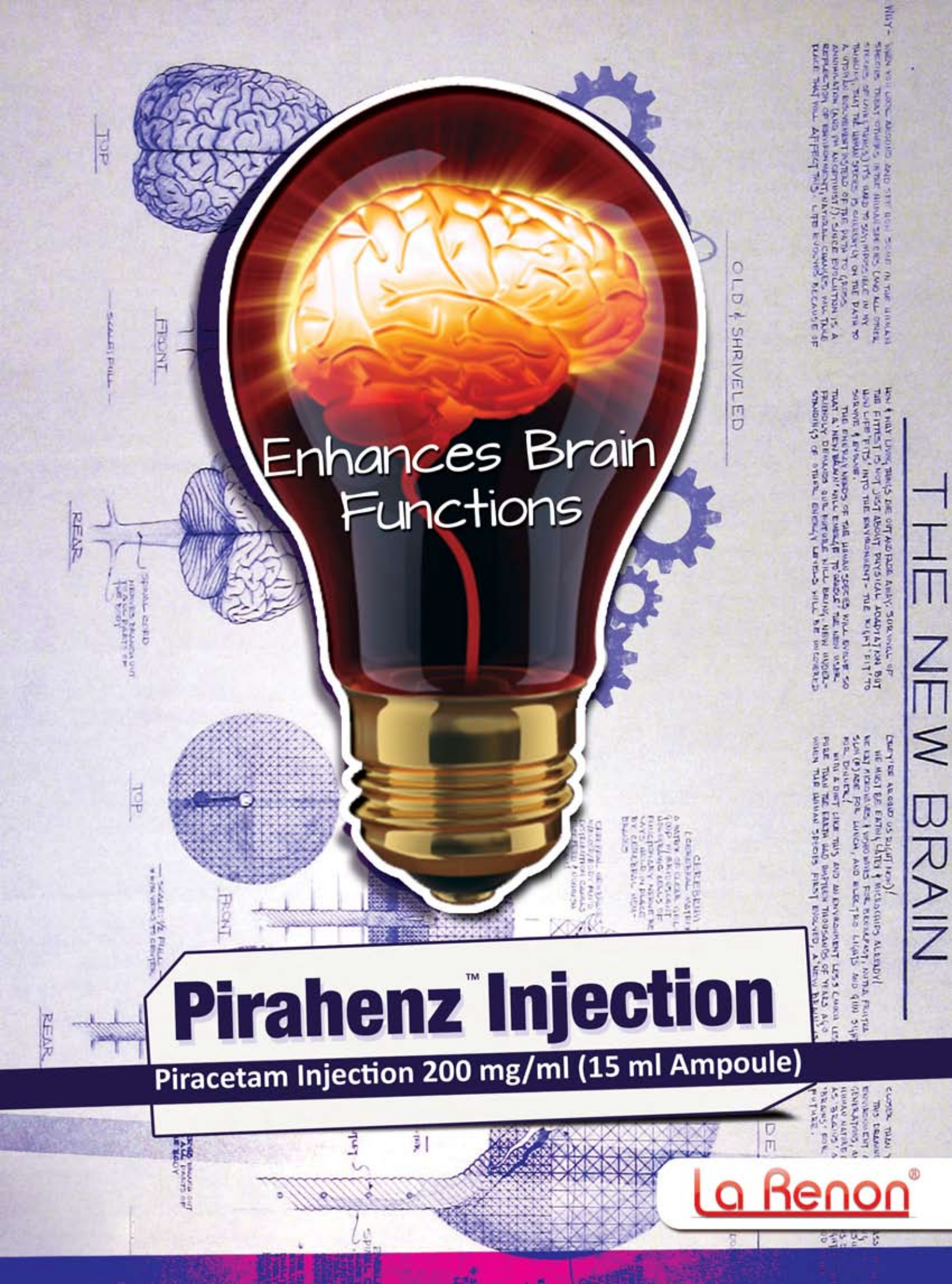
OLD & SHRIVELED

Enhances Brain Functions

Pirahenz™ Injection

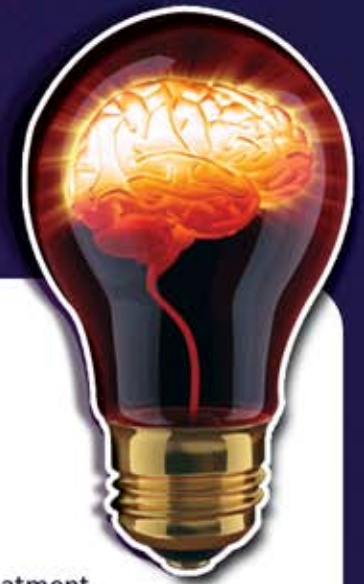
Piracetam Injection 200 mg/ml (15 ml Ampoule)

La Renon®



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Introduction

Pirahenz injection contains Piracetam, a nootropic, from the racetams group. Piracetam is a cyclic derivative of GABA.

Indications

Adults:

- Symptomatic treatment of the psycho-organic syndrome whose features, improved by treatment, are memory loss, attention disorders and lack of drive.
- Treatment of cortical myoclonus, alone or in combination
- Vertigo and associated disorders of balance, with the exception of dizziness of vasomotor or psychic origin.
- In patients with chronic alcoholism for the treatment of psychoorganic and withdrawal syndromes.

Children:

Treatment of dyslexia with appropriate measures eg, speech therapy.

Mechanism of Action

The drug influences neuronal and vascular functions and influences cognitive function without acting as a sedative or stimulant. Piracetam is a positive allosteric modulator of the AMPA receptor. It is hypothesized to act on ion channels or ion carriers; thus leading to increased neuron excitability. It has been found to increase blood flow and oxygen consumption in parts of the brain. Piracetam improves the function of the neurotransmitter acetylcholine via muscarinic cholinergic (ACh) receptors, which are implicated in memory processes. Furthermore, piracetam may have an effect on NMDA glutamate receptors, which are involved with learning and memory processes. Piracetam is thought to increase cell membrane permeability.

Dosage

In adults the daily dose is 30-160 mg/kg of the bodyweight (in 2-3 divided doses). In children a daily dose is 3.2 g in 2 divided doses.

Advantage

- Neuroprotective effect when used during coronary bypass surgery
- Also effective in the treatment of cognitive disorders of cerebrovascular and traumatic origins
- As add-on therapy, it appears to benefit individuals with myoclonus epilepsy and tardive dyskinesia.
- The study results confirm that general anaesthesia affects the memory function in children. Piracetam is effective for prevention of postoperative cognitive dysfunction after anaesthesia.

Drugs. 2010 Feb 12;70(3):287-312.

Anestezjol Intens Ter. 2009 Jan-Mar;41(1):16-21.

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