

La Renon

Guiding out of the Fog

A surreal landscape featuring a person walking on a wide, light-colored path that curves towards the horizon. The person is wearing a light-colored jacket and dark pants, and their head is replaced by a large, white, fluffy cloud. The background consists of a calm body of water and distant, hazy mountains under a clear sky. The overall mood is serene and contemplative.

DAMIR

Alpha Ketoanalogue Tablets

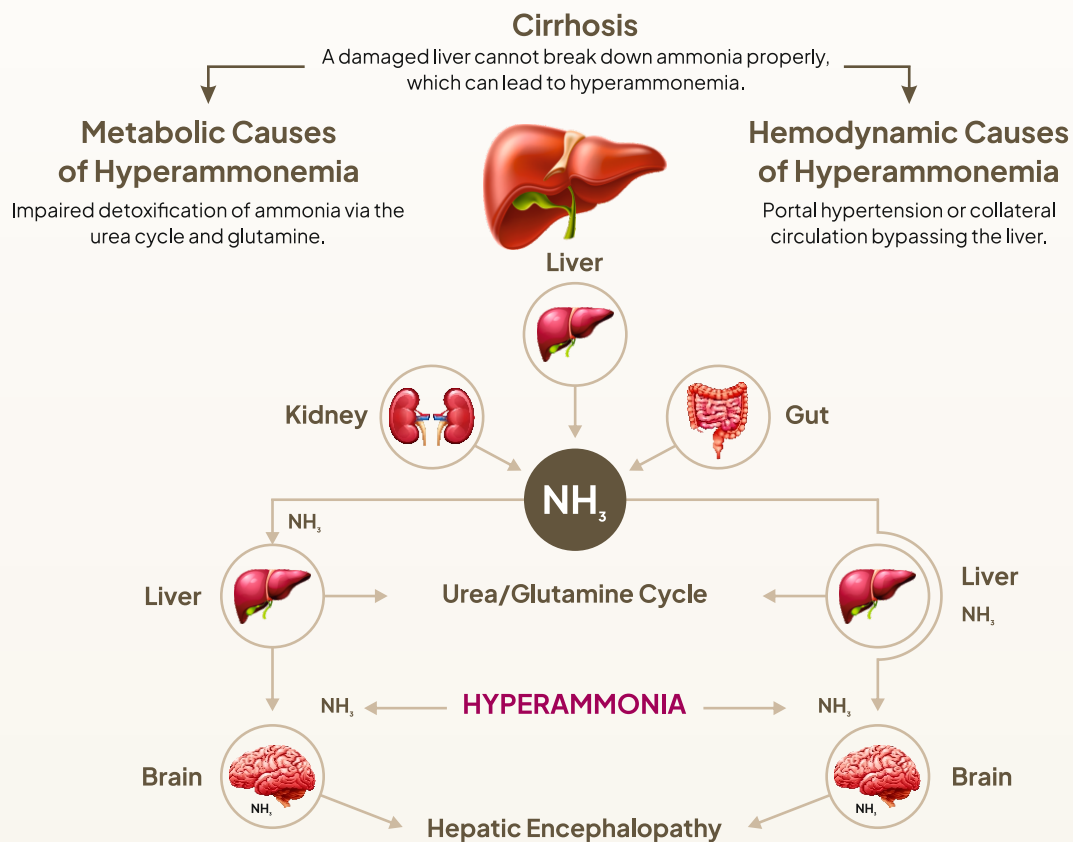
DAMIR

Alpha Ketoanalogue Tablets

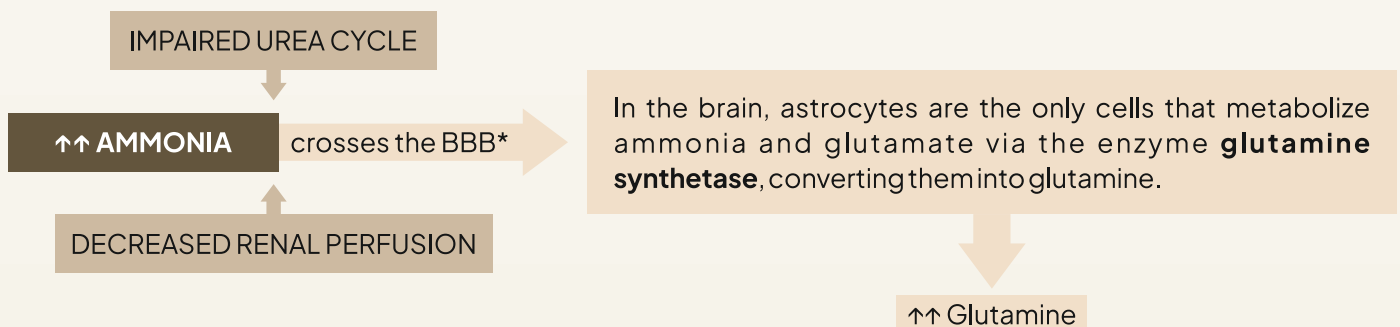
Background

Hepatic Encephalopathy (HE) is a neuropsychiatric complication of liver failure, driven by ammonia buildup and marked by cognitive and motor dysfunction. Covert HE (CHE) affects **30–40%** of cirrhosis patients. In decompensated cirrhosis, CHE and Overt HE occur in **20–80%** and **16–21%** respectively.¹

Pathophysiology of Hepatic Encephalopathy:



Fate of Hyperammonia in Brain



Glutamine is osmotically active and thus an \uparrow in glutamine leads to astrocyte swelling and edema.

Effects of Keto Analogues of Essential Amino Acids in Portal-Systemic Encephalopathy²

Neuropsychological Testing

IQ & Memory scores improved (IQ ↑ from 85 to 100)

Conversion to Amino Acids

Ketoanalogues were converted to corresponding essential amino acids

Amino Acid Ratio Improvement

Ratio of essential to non-essential AAs averaged

Plasma Tyrosine & Glycine Levels

Decreased after administration

Glutamine Levels

Reduced by 42%

EFFECTS OF ALFA KETO ANALOGUES

Ammonia Levels

Significant reduction (~20 µg/dL) after 1-5 days

Nitrogen Balance

Maintained in most patients

Mental/Neurological Status

Improved in 8 of 11 patients

EEG* Findings

Improvement seen in 3 out of 5 patients

*EEG: Electroencephalogram



DAMIR

Alpha Ketoanalogue Tablets

Description

- ◇ **DAMIR** is a traditional Alpha Ketoanalogue tablet which supports protein-restricted diets by providing essential amino acid precursors without increasing ammonia levels.
- ◇ **DAMIR** addresses hyperammonemia and nutritional deficiencies in liver-compromised patients.
- ◇ **DAMIR** may aid in the management of hepatic encephalopathy.

Mechanism of Action

Alpha Ketoanalogues (AKAs) are nitrogen-free precursors that get converted into essential amino acids by accepting nitrogen (mainly from glutamate) in muscle and other tissues. This process:

- **Uses up excess nitrogen** that could form ammonia.
- **Reduces overall nitrogen load** in the body.
- **Supports protein synthesis** without increasing ammonia.
- **Improves nitrogen balance**, especially in low-protein diets.

Key Benefits²

Lowers ammonia levels

Restores amino acid balance

Improves brain function

Supports low-protein diet

Boosts energy and strength

Dosage

The recommended dose is 1 tablet; 3 times a day or as directed by the physician.

Presentation

DAMIR is available as a strip of 15 tablets.

References:

1. Egyptian Liver Journal. 2024 Jul 18;14(1):59 | 2. GASTROENTEROLOGY 71:190-195, 1976

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