Endari (L-glutamine)



NEW PRODUCT SLIDESHOW



Introduction

- Brand name: Endari
- Manufacturer: Emmaus Medical
- Generic name: L-glutamine
- Pharmacological class: Amino acid
- Strength and Formulation: 5g; per packet; oral powder
- How supplied: Packets—60
- Legal Classification: Rx

Indications

 To reduce acute complications of sickle cell disease

Dosage & Administration

 Mix each dose in 8oz (240mL) of cold or room temperature drink (eg, water, milk, apple juice) or 4–6oz of food (eg, applesauce, yogurt) prior to ingestion; complete dissolution not required

Dosage & Administration

≥5yrs:

- <30kg: 5g twice daily</p>
- 30–65kg: 10g twice daily
- >65kg: 15g twice daily

Considerations for Special Populations

- Pediatric: <5yrs: not established</p>
- Pregnancy: No available data in pregnant women to establish drug-associated risk
- Nursing mothers: Consider mother's need and potential adverse effects on child
- Elderly: Insufficient number of subjects aged ≥65yrs to determine whether they respond differently

Adverse Reactions

- Constipation
- Nausea
- Headache
- Abdominal pain
- Cough
- Pain in extremity
- Back pain
- Chest pain

Mechanism of Action

- The pyridine nucleotides, NAD+ and its reduced form NADH, play roles in regulating and preventing oxidative damage in RBCs
- L-glutamine may improve the NAD redox potential in sickle RBCs through increasing the availability of reduced glutathione

 Efficacy of Endari was evaluated in a randomized, double-blind, placebocontrolled, multi-center trial (N=230) in patients with sickle cell anemia or sickle beta-thalassemia with 2 or more painful crises within 12 months prior to enrollment

- Study patients received Endari or placebo for 48 weeks followed by 3 weeks of tapering
- Efficacy was demonstrated by a reduction in the number of sickle cell crises through Week 48 and prior to tapering among patients that received Endari vs placebo (3 vs 4, respectively)

- Treatment with Endari also led to fewer hospitalizations due to sickle cell pain (2 vs 3) at Week 48, fewer cumulative days in hospital (6.5 vs 11), and a lower incidence of acute chest syndrome (8.6% vs 23.1%) compared to placebo, respectively
- The median time to first sickle cell crisis was longer in the Endari group vs placebo group (84 days vs 54 days, hazard ratio [HR] 0.69, 95% IC: 0.52, 0.93)

The recurrent crisis event time analysis suggested that over the 48-week period, the average cumulative crisis count was reduced by 25% from the Endari group vs the placebo group

For more clinical trial data, see full labeling

New Product Monograph

For more information view the product monograph available at:

http://www.empr.com/endari/drug/34778/