| Pharmacy Policy Bulletin: J-06/1 Endari (L-glutamine) – Commercial and Healthcare Reform | | | |
|--|---|--|--|
| Number: J-0671 | Category: Prior Authorization | | |
| Line(s) of Business: | Benefit(s): | | |
| ⊠ Commercial | Commercial: | | |
| ☐ Healthcare Reform | Prior Authorization (1.) | | |
| ☐ Medicare | Miscellaneous Specialty Drugs Oral = | | |
| □ Medicale | Yes w/ Prior Authorization | | |
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| Parian(a): | Healthcare Reform: Not Applicable | | |
| Region(s): | Additional Restriction(s): None | | |
| ⊠ All | None | | |
| ☐ Delaware | | | |
| ☐ New York | | | |
| ☐ Pennsylvania | | | |
| ☐ West Virginia | | | |
| Version: J-0671-012 | Original Date: 12/08/2017 | | |
| Effective Date: 12/20/2024 Review Date: 12/04/2024 | | | |
| Drugge Caderi (Ledutemine) | | | |
| Product(s): • Endari (L-glutamine) | | | |
| FDA- • To reduce the acute complications of sickle cell disease (SCD) in adults and | | | |
| | pediatrics 5 years of age and older | | |
| Indication(s): | | | |
| Background: • The mechanism of action of Endari in SCD is not completely understood. | | | |
| Endari is thought to in | Endari is thought to increase the availability of reduced glutathione, which | | |
| | sickle red blood cells use to generate anti-oxidant molecules, resulting in | | |
| | regulation and prevention of oxidative damage in red blood cells. • SCD is a group of inherited red blood cell disorders. The red blood cells are C- | | |
| | shaped that are hard and sticky. The sickle cells die early causing a constant | | |
| | shortage of red blood cells. When the sickle cells travel through small blood | | |
| | vessels, they get stuck and clog blood flow and oxygen supply to the tissues | | |
| | causing pain, infection, acute chest syndrome and/or stroke. A vaso-occlusive crisis (VOC) is the hallmark acute complication for a person with SCD and | | |
| manifests as acute se | manifests as acute severe pain most commonly in the extremities, chest, and | | |
| | back. Once a VOC occurs, vigorous IV hydration and analgesics are needed. | | |
| Acute complications of SCD include VOCs, fever, acute renal failure, priapism, hepatobiliary complications, acute anemia, splenic sequestration, acute chest | | | |
| syndrome (ACS), acute stroke, multisystem organ failure, and acute ocular | | | |
| conditions. | conditions. | | |
| American Society of Hematology guidelines for sickle cell disease suggest that patients with ACS should be considered for transplantation when they have | | | |
| patients with ACS should be considered for transplantation when they have recurrent ACS despite optimal standard of care (hydroxyurea, L-glutamine, | | | |
| crizanlizumab, and cl | crizanlizumab, and chronic transfusion therapy). The guidelines also state that | | |
| hydroxyurea, L-glutamine, and crizanlizumab reduce the rate of acute pain | | | |
| episodes. | episodes. | | |

Prescribing Considerations:

o Endari may be given with or without hydroxyurea.

Approval Criteria

I. Initial Authorization

When a benefit, coverage of Endari (L-glutamine) may be approved when all of the following criteria are met (A. through F.):

- **A.** The member is 5 years of age or older.
- **B.** The member has a diagnosis of SCD. (ICD-10: D57)
- **C.** The member has a history of at least two (2) sickle cell acute complications (e.g., VOCs, acute anemia, acute chest syndrome, etc.) within the previous 12 months.
- **D.** The member has experienced therapeutic failure or intolerance to one (1) over-the-counter L-glutamine product.
- **E.** The member meets one (1) of the following criteria (1. or 2.):
 - 1. The member has experienced therapeutic failure, contraindication, or intolerance to planpreferred hydroxyurea.
 - **2.** The member is using Endari in addition to hydroxyurea.
- **F.** If the request is for brand Endari, the member has experienced therapeutic failure or intolerance to generic prescription L-glutamine.

II. Reauthorization

When a benefit, reauthorization of Endari (L-glutamine) may be approved when all of the following criteria are met (A. and B.):

- **A.** The prescriber attests that the member has experienced a therapeutic response defined as one (1) of the following **(1. or 2.)**:
 - 1. Stability in sickle cell acute complications (e.g., VOCs, acute anemia, acute chest syndrome, etc.)
 - 2. Decrease in the number of sickle cell acute complications (e.g., VOCs, acute anemia, acute chest syndrome, etc.)
- **B.** If the request is for brand Endari, the member has experienced therapeutic failure or intolerance to generic prescription L-glutamine.
- **III.** An exception to some or all of the criteria above may be granted for select members and/or circumstances based on state and/or federal regulations.

Limitations of Coverage

- I. Coverage of drug(s) addressed in this policy for disease states outside of the FDA-approved indication should be denied based on the lack of clinical data to support effectiveness and safety in other conditions unless otherwise noted in the approval criteria.
- **II.** For Commercial or HCR members with a closed formulary, a non-formulary product will only be approved if the member meets the criteria for a formulary exception in addition to the criteria outlined within this policy.

Authorization Duration

Commercial and HCR plans: If approved, up to a 12 month authorization may be granted.

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None

References:

- 1. Endari [package insert]. Torrance, CA: Emmaus Medical, Inc.; October 2020.
- 2. Niihara Y, Miller ST, Kanter J, et al. A Phase 3 Trial of I-Glutamine in Sickle Cell Disease. *N Engl J Med*. 2018;379(3):226-235.
- 3. National Heart, Lung, and Blood Institute. Evidence-Based Management of Sickle Cell Disease: Expert Panel Report, 2014. Available at: https://www.nhlbi.nih.gov/health-topics/evidence-based-management-sickle-cell-disease. Accessed October 7, 2024.
- 4. Kanter J, Liem RI, Bernaudin F, et al. American Society of Hematology 2021 guidelines for sickle cell disease: stem cell transplantation. *Blood Adv.* 2021;5(18):3668–3689.
- 5. Brandow AM, Carroll CP, Creary S, et al. American Society of Hematology 2020 guidelines for sickle cell disease: management of acute and chronic pain. *Blood Adv.* 2020;4(12):2656–2701.

Pharmacy policies do not constitute medical advice, nor are they intended to govern physicians' prescribing or the practice of medicine. They are intended to reflect the plan's coverage and reimbursement guidelines. Coverage may vary for individual members, based on the terms of the benefit contract.