

## **Clinical Policy: Amifampridine (Firdapse)**

Reference Number: CP.PHAR.411

Effective Date: 01.22.19

Last Review Date: 02.25

Line of Business: Commercial, HIM, Medicaid

[Revision Log](#)

See [Important Reminder](#) at the end of this policy for important regulatory and legal information.

### **Description**

Amifampridine (Firdapse<sup>®</sup>) is potassium channel blocker.

### **FDA Approved Indication(s)**

Firdapse is indicated for the treatment of Lambert-Eaton myasthenic syndrome (LEMS) in adults and pediatric patients 6 years of age and older.

### **Policy/Criteria**

*Provider must submit documentation (such as office chart notes, lab results or other clinical information) supporting that member has met all approval criteria.*

It is the policy of health plans affiliated with Centene Corporation<sup>®</sup> that Firdapse is **medically necessary** when the following criteria are met:

#### **I. Initial Approval Criteria**

##### **A. Lambert-Eaton Myasthenic Syndrome (must meet all):**

1. Diagnosis of LEMS;
2. Documentation of confirmatory diagnostic test results from one of the following (a or b):
  - a. Repetitive Nerve Stimulation (RNS) testing showing reproducible post-exercise increase in compound muscle action potential (CMAP) amplitude of at least 60 percent compared with pre-exercise baseline value or a similar increment on high-frequency repetitive nerve stimulation without exercise;
  - b. If member is unable to complete RNS testing, positive anti-P/Q type voltage-gated calcium channel (VGCC) antibody blood test;
3. Prescribed by or in consultation with a neurologist or neuromuscular specialist;
4. Age  $\geq$  6 years;
5. Documentation of a baseline clinical muscle strength assessment (examples may include but are not limited to the Quantitative Myasthenia Gravis (QMG) score, triple-timed up-and-go test (3TUG), Timed 25-foot Walk test (T25FW)) (see *Appendix D*);
6. Member does not have a history of seizures;
7. Dose does not exceed one of the following (a or b):
  - a. Adults and pediatrics weighing  $\geq$  45 kg: 100 mg (10 tablets) per day;
  - b. Pediatrics weighing  $<$  45 kg: 50 mg (5 tablets) per day.

**Approval duration: 6 months**

**B. Other diagnoses/indications (must meet 1 or 2):**

1. If this drug has recently (within the last 6 months) undergone a label change (e.g., newly approved indication, age expansion, new dosing regimen) that is not yet reflected in this policy, refer to one of the following policies (a or b):
  - a. For drugs on the formulary (commercial, health insurance marketplace) or PDL (Medicaid), the no coverage criteria policy for the relevant line of business: CP.CPA.190 for commercial, HIM.PA.33 for health insurance marketplace, and CP.PMN.255 for Medicaid; or
  - b. For drugs NOT on the formulary (commercial, health insurance marketplace) or PDL (Medicaid), the non-formulary policy for the relevant line of business: CP.CPA.190 for commercial, HIM.PA.103 for health insurance marketplace, and CP.PMN.16 for Medicaid; or
2. If the requested use (e.g., diagnosis, age, dosing regimen) is NOT specifically listed under section III (Diagnoses/Indications for which coverage is NOT authorized) AND criterion 1 above does not apply, refer to the off-label use policy for the relevant line of business: CP.CPA.09 for commercial, HIM.PA.154 for health insurance marketplace, and CP.PMN.53 for Medicaid.

**II. Continued Therapy**

**A. Lambert-Eaton Myasthenic Syndrome (must meet all):**

1. Member meets one of the following (a or b):
  - a. Currently receiving medication via Centene benefit or member has previously met initial approval criteria;
  - b. Member is currently receiving medication and is enrolled in a state and product with continuity of care regulations (*refer to state specific addendums for CC.PHARM.03A and CC.PHARM.03B*);
2. Member is responding positively to therapy as evidenced by clinical muscle strength assessments (examples may include but are not limited to the QMG score, 3TUG test, T25FW test) (see *Appendix D*);
3. Member does not have a history of seizures;
4. If request is for a dose increase, new dose does not exceed one of the following (a or b):
  - a. Adults and pediatrics weighing  $\geq 45$  kg: 100 mg (10 tablets) per day;
  - b. Pediatrics weighing  $< 45$  kg: 50 mg (5 tablets) per day.

**Approval duration: 12 months**

**B. Other diagnoses/indications (must meet 1 or 2):**

1. If this drug has recently (within the last 6 months) undergone a label change (e.g., newly approved indication, age expansion, new dosing regimen) that is not yet reflected in this policy, refer to one of the following policies (a or b):
  - a. For drugs on the formulary (commercial, health insurance marketplace) or PDL (Medicaid), the no coverage criteria policy for the relevant line of business: CP.CPA.190 for commercial, HIM.PA.33 for health insurance marketplace, and CP.PMN.255 for Medicaid; or
  - b. For drugs NOT on the formulary (commercial, health insurance marketplace) or PDL (Medicaid), the non-formulary policy for the relevant line of business:

- CP.CPA.190 for commercial, HIM.PA.103 for health insurance marketplace, and CP.PMN.16 for Medicaid; or
2. If the requested use (e.g., diagnosis, age, dosing regimen) is NOT specifically listed under section III (Diagnoses/Indications for which coverage is NOT authorized) AND criterion 1 above does not apply, refer to the off-label use policy for the relevant line of business: CP.CPA.09 for commercial, HIM.PA.154 for health insurance marketplace, and CP.PMN.53 for Medicaid.

### III. Diagnoses/Indications for which coverage is NOT authorized:

- A. Non-FDA approved indications, which are not addressed in this policy, unless there is sufficient documentation of efficacy and safety according to the off label use policies – CP.CPA.09 for commercial, HIM.PA.154 for health insurance marketplace, and CP.PMN.53 for Medicaid or evidence of coverage documents.

### IV. Appendices/General Information

#### *Appendix A: Abbreviation/Acronym Key*

CMAP: compound muscle action potential  
FDA: Food and Drug Administration  
LEMS: Lambert-Eaton myasthenic syndrome  
QMG: Quantitative Myasthenia Gravis

3TUG: triple-timed up-and-go test  
RNS: repetitive nerve stimulation  
T25FW: Timed 25-foot Walk test  
VGCC: voltage-gated calcium channel

#### *Appendix B: Therapeutic Alternatives*

Not applicable

#### *Appendix C: Contraindications/Boxed Warnings*

- Contraindication(s): history of seizures; hypersensitivity to amifampridine or another aminopyridine
- Boxed warning(s): none reported

#### *Appendix D: General Information*

- QMG is a physician-rated evaluation consisting of 13 assessments of muscle function (e.g., swallowing, speech, forced vital capacity, movement of arms and legs). Each assessment is rated 0 to 3, where 0 indicates “no weakness” and 3 indicates “severe weakness” (lower scores reflect better muscle strength).
- The 3TUG is a functional mobility test that requires a patient to stand up from a straight-backed armchair, walk 3 meters, turn around, walk back, and sit down in the chair. Based upon literature reports that a significant change in gait for a similar walk-test is an increase in time of more than 20%, this was incorporated into the secondary endpoint used in the NCT02970162 clinical trial.
- The T25FW test, a component of the Multiple Sclerosis Functional Composite, is a quantitative mobility and leg function performance test based on a timed 25-foot walk. The patient was directed to walk a clearly marked 25-foot course as quickly and safely as possible. Following a period of rest, the timed 25-foot walk is repeated to determine an average score.

- During RNS testing, an increase in the CMAP amplitude >100% after exercise or with high-frequency RNS is considered diagnostic of a presynaptic neuromuscular junction disorder, and the increase is frequently even greater. However, some studies have found that a significant number of patients have increments with RNS below 100%; thus, increments of 60 to 99% are strongly supportive of a presynaptic neuromuscular junction disorder.
- P/Q-type VGCC antibody result is strongly suggestive of LEMS. However, P/Q-type VGCC antibodies are present in a variety of clinical situations where LEMS is not present. While the anti-P/Q-type VGCC antibody test is confirmatory in patients who otherwise have clinical and electrophysiologic features of LEMS, the antibody test alone is not diagnostic, especially in the presence of a malignancy or amyotrophic lateral sclerosis.
- On February 1, 2022 the FDA converted the final approval of Ruzurgi to a tentative approval. Due to the 7-year orphan-drug exclusivity for Catalyst’s product Firdapse, the application for Ruzurgi for the treatment of LEMS in patients 6 to less than 17 years of age may not be finally approved for marketing until the period of exclusivity has expired. As a result Ruzurgi is no longer commercially available.

**V. Dosage and Administration**

Indication	Dosing Regimen	Maximum Dose
LEMS	Adults and pediatrics weighing $\geq$ 45 kg: 15 mg to 30 mg PO daily, in 3 to 5 divided doses. Dose can be increased by 5 mg daily every 3 to 4 days. The maximum single dose is 20 mg.	Adults and pediatrics weighing $\geq$ 45 kg: 100 mg/day
	Pediatrics weighing < 45 kg: 5 mg to 15 mg PO daily, in 3 to 5 divided doses. Dose can be increased by 2.5 mg daily every 3 to 4 days. The maximum single dose is 10 mg.	Pediatrics weighing < 45 kg: 50 mg/day

**VI. Product Availability**

Tablet: 10 mg

**VII. References**

1. Firdapse Prescribing Information. Coral Gables, FL: Catalyst Pharmaceuticals, Inc.; May 2024. Available at: <https://firdapsehcp.com/pdfs/firdapse-pi.pdf>. Accessed October 22, 2024.
2. Weinberg DH. Lambert-Eaton myasthenic syndrome: Clinical features and diagnosis. In: UpToDate, Waltham, MA. Updated September 11, 2024. Accessed November 7, 2024.
3. American Association of Electrodiagnostic Medicine (AAEM) Quality Assurance Committee. Practice Parameter for Repetitive Nerve Stimulation and Single Fiber EMG Evaluation of Adults with Suspected Myasthenia Gravis or Lambert–Eaton Myasthenic Syndrome: Summary Statement. Muscle Nerve 2001 September; 24(9): 1236-1238.
4. Oh SJ, Kurokawa K, Claussen GC, Ryan HF Jr. Electrophysiological diagnostic criteria of Lambert-Eaton myasthenic syndrome. Muscle Nerve 2005; 32: 515-520.

Reviews, Revisions, and Approvals	Date	P&T Approval Date
Added redirection to Ruzurgi for Firdapse requests per SDC and prior clinical guidance.	01.14.20	
1Q 2021 annual review: added requirement for diagnostic testing to confirm diagnosis; references to HIM.PHAR.21 revised to HIM.PA.154; references reviewed and updated.	10.27.20	02.21
1Q 2022 annual review: no significant changes; for Ruzurgi redirection modified from medical justification to member must use language per template; references reviewed and updated.	09.21.21	02.22
Ruzurgi redirection and references to Ruzurgi removed as the product is no longer commercially available.	02.23.22	
Template changes applied to other diagnoses/indications and continued therapy section.	09.23.22	
1Q 2023 annual review: RT4 pediatric extension updated with age limit down to 6 years; added requirement that member does not have a history of seizures as use is contraindicated; references reviewed and updated.	10.11.22	02.23
1Q 2024 annual review: added additional option for prescribing by a neuromuscular specialist; applied exclusion for history of seizures to continued therapy requests; references reviewed and updated.	10.06.23	02.24
1Q 2025 annual review: no significant changes; modified maximum dose per updated prescribing information; references reviewed and updated.	10.22.24	02.25

**Important Reminder**

This clinical policy has been developed by appropriately experienced and licensed health care professionals based on a review and consideration of currently available generally accepted standards of medical practice; peer-reviewed medical literature; government agency/program approval status; evidence-based guidelines and positions of leading national health professional organizations; views of physicians practicing in relevant clinical areas affected by this clinical policy; and other available clinical information. The Health Plan makes no representations and accepts no liability with respect to the content of any external information used or relied upon in developing this clinical policy. This clinical policy is consistent with standards of medical practice current at the time that this clinical policy was approved. “Health Plan” means a health plan that has adopted this clinical policy and that is operated or administered, in whole or in part, by Centene Management Company, LLC, or any of such health plan’s affiliates, as applicable.

The purpose of this clinical policy is to provide a guide to medical necessity, which is a component of the guidelines used to assist in making coverage decisions and administering benefits. It does not constitute a contract or guarantee regarding payment or results. Coverage decisions and the administration of benefits are subject to all terms, conditions, exclusions, and limitations of the coverage documents (e.g., evidence of coverage, certificate of coverage, policy, contract of insurance, etc.), as well as to state and federal requirements and applicable Health Plan-level administrative policies and procedures.

This clinical policy is effective as of the date determined by the Health Plan. The date of posting may not be the effective date of this clinical policy. This clinical policy may be subject to applicable legal and regulatory requirements relating to provider notification. If there is a discrepancy between the effective date of this clinical policy and any applicable legal or regulatory requirement, the requirements of law and regulation shall govern. The Health Plan retains the right to change, amend or withdraw this clinical policy, and additional clinical policies may be developed and adopted as needed, at any time.

This clinical policy does not constitute medical advice, medical treatment, or medical care. It is not intended to dictate to providers how to practice medicine. Providers are expected to exercise professional medical judgment in providing the most appropriate care, and are solely responsible for the medical advice and treatment of members. This clinical policy is not intended to recommend treatment for members. Members should consult with their treating physician in connection with diagnosis and treatment decisions.

Providers referred to in this clinical policy are independent contractors who exercise independent judgment and over whom the Health Plan has no control or right of control. Providers are not agents or employees of the Health Plan.

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**Note:**

**For Medicaid members**, when state Medicaid coverage provisions conflict with the coverage provisions in this clinical policy, state Medicaid coverage provisions take precedence. Please refer to the state Medicaid manual for any coverage provisions pertaining to this clinical policy.

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