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Amifampridine

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Related Coverage Resources

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Overview

This policy supports medical necessity review for amifampridine (**Firdapse®** or **Ruzurgi®** [approval withdrawn]).

Receipt of sample product does not satisfy any criteria requirements for coverage.

Medical Necessity Criteria

Amifampridine (Firdapse or Ruzurgi) is considered medically necessary when the following are met:

- Lambert-Eaton Myasthenic Syndrome (LEMS).** Individual meets **ALL** of the following criteria:
- A. 6 years of age or older
 - B. Diagnosis of Lambert-Eaton myasthenic syndrome (LEMS) is confirmed by **ONE** of the following (i or ii):
 - i. Neurophysiology studies
 - ii. Positive anti-P/Q type voltage – gated calcium channel (VGCC) antibody testing
 - C. Does not have a history of seizures

- D. Medication is prescribed by or in consultation with a neurologist, neuromuscular specialist, or an oncologist

When coverage is available and medically necessary, the dosage, frequency, duration of therapy, and site of care should be reasonable, clinically appropriate, and supported by evidence-based literature and adjusted based upon severity, alternative available treatments, and previous response to therapy.

Reauthorization Criteria

Continuation of amifampridine (Firdapse or Ruzurgi) is considered medically necessary for Lambert-Eaton Myasthenic Syndrome (LEMS) when the above medical necessity criteria are met AND there is documentation of beneficial response (for example, improved muscle strength or improvements in mobility).

Authorization Duration

Initial approval duration: up to 3 months.

Reauthorization approval duration: up to 12 months.

Conditions Not Covered

Any other use is considered experimental, investigational or unproven.

Background

OVERVIEW

Amifampridine, a broad spectrum potassium channel blocker, is indicated for the **treatment of Lambert-Eaton myasthenic syndrome (LEMS)**.^{1,2}

- Firdapse is indicated in **adults and pediatric patients ≥ 6 years of age**.¹
- Ruzurgi was indicated in **patients 6 years to < 17 years of age** (prior to withdrawal of FDA approval).²

As of February 01, 2022, the FDA has withdrawn approval for Ruzurgi. Firdapse was approved by the FDA on November 28, 2018, for the treatment of LEMS in adults, with 7 years of orphan-drug exclusivity (ODE). On May 6, 2019, Ruzurgi was approved by the FDA for the treatment of LEMS in patients 6 to < 17 years of age. On June 12, 2019, Catalyst (manufacturer of Firdapse) brought suit against the FDA, challenging the FDA's approval of Ruzurgi stating that it violated the ODE for Firdapse. In 2022, the Court of Appeals for the Eleventh Circuit sided with Catalyst; therefore, the FDA had to withdraw approval for Ruzurgi. Due to the 7-year ODE for Firdapse, Ruzurgi may not be approved for marketing until ODE has expired on November 28, 2025.

Disease Overview

LEMS is a rare autoimmune disorder affecting the connection between nerves and muscles and causing proximal muscle weakness, autonomic dysfunction, and areflexia.^{3,4} The characteristic weakness is thought to be caused by antibodies generated against the P/Q-type voltage-gated calcium channels present on presynaptic nerve terminals and by diminished release of acetylcholine.⁴ The diagnosis of LEMS is confirmed by electrodiagnostic studies, including repetitive nerve stimulation, or anti-P/Q-type voltage-gated calcium channels antibody testing.

Clinical Efficacy

Firdapse was approved based on two pivotal trials.^{1,5} One pivotal trial enrolled both amifampridine-naïve and treatment-experienced patients; patients were initially entered into an open-label run-in phase lasting 90 days.⁵ During the open-label run-in phase, Firdapse was titrated for each individual patient to a dose that produced optimal neuromuscular benefit and tolerability in the opinion of the investigator. In order to continue in the study, treatment-naïve patients were required to have an improvement of at least three points in the quantitative myasthenia gravis score from the initial evaluation. For its pediatric indication, use is supported by evidence from studies of Firdapse in adults with LEMS, pharmacokinetic data in adults, pharmacokinetic modeling and simulation to identify the dosing regimen in pediatric patients, and safety data from pediatric patients ≥ 6 years of age.

Safety

Firdapse and Ruzurgi are contraindicated in patients with a history of seizures.^{1,2} There is also a Warning/Precaution in the prescribing information for these medications because seizures have been observed in patients with and without a history of seizures taking amifampridine at the recommended doses. Many of these patients were taking medications or had comorbidities that may have lowered their seizure threshold. Seizures may be dose-dependent.

References

1. Firdapse® tablets [prescribing information]. Coral Gables, FL: Catalyst; May 2023.
2. Ruzurgi® tablets [prescribing information]. Princeton, NJ: Jacobus; April 2020.
3. FDA news release. FDA approves first treatment for children with Lambert-Eaton myasthenic syndrome, a rare autoimmune disorder. Issued on: May 6, 2019. Available at: <https://www.fda.gov/news-events/press-announcements/fda-approves-first-treatment-children-lambert-eaton-myasthenic-syndrome-rare-autoimmune-disorder>. Accessed on July 10, 2023.
4. Kesner VG, Oh SJ, Dimachkie MM, et al. Lambert-Eaton Myasthenic Syndrome. *Neurol Clin*. 2018;36(2):379-394.
5. Oh S, Shcherbakova N, Kostera-Pruszczyk A, et al. Amifampridine phosphate (Firdapse®) is effective and safe in a phase 3 clinical trial in LEMS. *Muscle Nerve*. 2016;53(5):717-725.

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