

Lambert-Eaton Myasthenic Syndrome (LEMS) Products Approved January 2020

Firdapse® (amifampridine) **Ruzurgi®** (amifampridine)

Background:

Lambert-Eaton myasthenic syndrome (LEMS) is a rare autoimmune disorder of the neuromuscular junction. It is a miscommunication between the nerve cell and the muscles that lead to the gradual onset of muscle weakness.

Firdapse is a potassium channel blocker indicated for the treatment of Lambert-Eaton myasthenic syndrome (LEMS) in adults. It blocks voltage-dependent potassium channels, thereby prolonging presynaptic cell membrane depolarization, which enhances calcium transport into nerve endings. The increased intracellular calcium concentrations facilitate exocytosis of acetylcholine-containing vesicles, which, in turn, enhances neuromuscular transmission.

Ruzurgi is also a potassium channel blocker indicated for the treatment of LEMS in patients 6 to less than 17 years of age.

Criteria for approval:

- 1. Patient is 6 to 16 years old (for Ruzurgi); OR
- 2. Patient is an adult, 17 years or older (for Firdapse); AND
- 3. Patient has a documented diagnosis of LEMS; AND
- 4. Diagnosis has been confirmed by one electrodiagnostic study (e.g., repetitive nerve stimulation) OR anti-P/Q-type voltage-gated calcium channels antibody testing; AND
- 5. Patient does not have a history of seizures; AND
- 6. Medication is being prescribed by or in consultation with a neurologist, pediatric neurologist, or a neuromuscular specialist
- 7. Patient is not receiving medication in combination with similar potassium channel blockers [for example, Ampyra (dalfampridine)]
- 8. Patient does not have end-stage renal disease (CrCl less than 15 mL/minute, or on dialysis, or post renal transplant)
- 9. Documentation of patient's baseline clinical muscle strength assessment for at least one of the following:
 - i. Quantitative Myasthenia Gravis (QMG) score
 - ii. Triple-Timed Up-and-Go test (3TUG)
 - iii. Timed 25-foot Walk test (T25FW)
- 10. Weight must be received for drugs that have weight-based dosing. Height and weight must be received for drugs that have dosing based on body surface area.
- 11. Medication is prescribed in accordance with Food and Drug Administration (FDA) established indication and dosing regimens or in accordance with medically appropriate off-label indication and dosing according to American Hospital Formulary Service, Micromedex, Clinical Pharmacology, or national guidelines.

Initial Approval Duration: 6 months

Aetna Better Health® of New Jersey



Continuation of therapy:

- 1. Documentation that patient experienced a positive clinical response to therapy as evidenced by one of the following clinical muscle strength assessments:
 - i. Quantitative Myasthenia Gravis (QMG) score
 - ii. Triple-Timed Up-and-Go test (3TUG)
 - iii. Timed 25-foot Walk test (T25FW)
- 2. Patient is not receiving medication in combination with similar potassium channel blockers [for example, Ampyra (dalfampridine)]
- 3. Patient does not have end-stage renal disease (CrCl less than 15 mL/minute, or on dialysis, or post renal transplant)
- 4. Medication is prescribed in accordance with Food and Drug Administration (FDA) established indication and dosing regimens or in accordance with medically appropriate off-label indication and dosing according to American Hospital Formulary Service, Micromedex, Clinical Pharmacology, or national guidelines

Renewal Approval Duration: 12 months

References:

- 1. Firdapse [prescribing information]. Coral Gables, FL; Catalyst Pharmaceuticals, Inc; November 2018
- 2. Ruzurgi [prescribing information]. Plainsboro, NJ; Jacobus Pharmaceuticals, Inc; May 2019
- 3. Clinical Pharmacology® Gold Standard Series [Internet database]. Tampa FL. Elsevier 2018. Updated periodically
- 4. Weinberg, D.H., Lambert-Eaton myasthenic syndrome: Treatment and prognosis. (2019). UpToDate. From: https://www.uptodate.com/contents/lambert-eaton-myasthenic-syndrome-treatment-and-prognosis/print. Accessed: 10.30.19