Clinical Guideline



Oscar Clinical Guideline: Lemtrada (Alemtuzumab) (PG226, Ver. 1)

## Lemtrada (Alemtuzumab)

### Disclaimer

Clinical guidelines are developed and adopted to establish evidence-based clinical criteria for utilization management decisions. Clinical guidelines are applicable according to policy and plan type. The Plan may delegate utilization management decisions of certain services to third parties who may develop and adopt their own clinical criteria.

Coverage of services is subject to the terms, conditions, and limitations of a member's policy, as well as applicable state and federal law. Clinical guidelines are also subject to in-force criteria such as the Centers for Medicare & Medicaid Services (CMS) national coverage determination (NCD) or local coverage determination (LCD) for Medicare Advantage plans. Please refer to the member's policy documents (e.g., Certificate/Evidence of Coverage, Schedule of Benefits, Plan Formulary) or contact the Plan to confirm coverage.

### **Summary**

Multiple sclerosis (MS) is a chronic, inflammatory, demyelinating disease of the central nervous system. It typically presents in young adults with symptoms such as vision problems, muscle weakness, numbness, and difficulty with balance and coordination. The most common form is relapsing-remitting MS, characterized by acute attacks followed by periods of remission. Treatment goals include reducing relapses, slowing disability progression, and managing symptoms. Disease-modifying therapies are the primary treatment approach and include injectable medications (interferons, glatiramer acetate), oral medications (dimethyl fumarate, fingolimod, teriflunomide, etc.), and infusion therapies (natalizumab, ocrelizumab).

Lemtrada (alemtuzumab) is a CD52-directed cytolytic monoclonal antibody indicated for relapsing forms of MS. Due to its safety profile, including risks of autoimmune conditions, infusion reactions, and malignancies, Lemtrada is generally reserved for patients who have had an inadequate response to two

or more MS medications. It is administered as two treatment courses 12 months apart, with potential additional courses as needed.

#### **Definitions**

- "Clinically isolated syndrome" refers to a first episode of neurologic symptoms lasting at least 24 hours caused by inflammation or demyelination in the central nervous system.
- "Disease-modifying therapy" is a medication that modifies the course of MS by reducing relapses and slowing disability progression.
- "Multiple sclerosis" is a chronic autoimmune disease of the central nervous system characterized by inflammation, demyelination, and neurodegeneration.
- "**Primary progressive MS**" refers to worsening neurologic function from the onset of symptoms, without early relapses or remissions.
- "**Relapse**" is defined as the appearance of new symptoms or the worsening of existing symptoms lasting at least 24 hours in the absence of fever or infection.
- "Relapsing-remitting MS" refers to a disease course characterized by clearly defined attacks of new or increasing neurologic symptoms followed by periods of partial or complete recovery.
- "Secondary progressive MS" is a disease course following relapsing-remitting MS that is characterized by a progressive worsening of neurologic function over time with or without relapses.

### Medical Necessity Criteria for Initial Authorization

The Plan considers <u>Lemtrada (Alemtuzumab)</u> medically necessary when recent (within the last 3 months) clinical chart documentation provided indicates the member meets **ALL** of the following:

- 1. Prescribed by or in consultation with a neurologist or physician who specializes in the treatment of multiple sclerosis; **AND**
- 2. Is 18 years of age or older; **AND**
- 3. Has **ONE** of the following forms of multiple sclerosis:
  - a. relapsing-remitting (RRMS); or
  - b. active secondary progressive disease (SPMS); AND

- 4. Is unable to use, or has tried and failed BOTH of the following:
  - a. Natalizumab (Tysabri, Tyruko); and
  - b. Is unable to use, or has tried and failed at least **ONE** of the following:
    - i. Dimethyl Fumarate (generic Tecfidera); and/or
    - ii. Fingolimod (generic Gilenya); AND
- 5. Does not have any of the following contraindications:
  - a. Human immunodeficiency virus (HIV) infection; or
  - b. Active infections; AND
- 6. Lemtrada (Alemtuzumab) will be used as monotherapy for multiple sclerosis (i.e., member is not using and will not use other disease-modifying MS therapies while on Lemtrada); **AND**
- 7. Lemtrada (Alemtuzumab) is being prescribed within the manufacturer's published dosing guidelines or falls within dosing guidelines found in a compendia of current literature.
  - The recommended dosage of Lemtrada is 12 mg/day administered by intravenous infusion for 2 treatment courses:
    - i. First course: 12 mg/day on 5 consecutive days (total 60 mg).
    - ii. Second course: 12 mg/day on 3 consecutive days (total 36 mg) administered 12 months after the first treatment course.
    - iii. Additional courses may be administered as needed with a minimum of 12 months between courses.

If the above prior authorization criteria are met, the requested medication will be authorized for one treatment course (5 consecutive days of 12 mg/day, for a total of 60 mg).

## **Medical Necessity Criteria for Reauthorization**

Reauthorization for a second treatment course<sup>11</sup> will be granted if the member has recent (within the last 6-months) clinical documentation showing **ALL** of the following:

- The requested medication is prescribed by or in consultation with a neurologist or a physician who specializes in the treatment of multiple sclerosis; AND
- 2. The member has experienced at least **ONE** of the following:
  - a. Improvement in at least one objective measure, such as:
    - i. Reduced disease activity on MRI; and/or
    - ii. Improved or stable disability scores; and/or
    - iii. Reduced relapse rate; and/or
    - v. Improved fatigue or walking assessments; AND/OR
  - b. Stabilization or improvement in at least one MS symptom, such as:

- i. Motor function; and/or
- ii. Fatigue; and/or
- iii. Vision; and/or
- iv. Bowel/bladder function; and/or
- v. Spasticity; and/or
- vi. Walking/gait; and/or
- vii. Pain/numbness/tingling.
- 3. At least 12 months have passed since the last dose of Lemtrada.

# If the above reauthorization criteria are met, the requested medication will be authorized for one treatment course (3 consecutive days of 12 mg/day, for a total of 36 mg).

NOTE: The Plan may consider authorizing additional treatment courses of Lemtrada beyond the initial two courses on a case-by-case basis, based on documented evidence of continued disease activity and the prescriber's clinical judgment. However, the safety and efficacy of more than two treatment courses have not been well established in clinical trials. The Plan recommends that healthcare providers carefully weigh the potential benefits against the increased risks of autoimmune disorders, infusion reactions, and malignancies associated with additional Lemtrada courses. Members experiencing disease activity after completing two courses should discuss the risks and benefits of additional Lemtrada treatment versus alternative MS therapies with their healthcare provider.

### **Experimental or Investigational / Not Medically Necessary**

Lemtrada (Alemtuzumab) for any other indication or use is considered not medically necessary by the Plan, as it is deemed to be experimental, investigational, or unproven. Non-covered indications include, but are not limited to, the following:

- Combination therapy with other disease-modifying therapies for MS.
- Treatment of clinically isolated syndrome.
- Treatment of other autoimmune conditions not related to MS.
- Treatment of primary progressive MS.
- Use in members with active infections, including HIV.
- Use in pediatric members under 17 years of age.

### Applicable Billing Codes (HCPCS/CPT Codes)

Service(s) name				
CPT/HCPCS Codes considered medically necessary if criteria are met:				
Code	Description			
96365	Intravenous infusion, for therapy, prophylaxis, or diagnosis (specify substance or drug); initial, up to 1 hour			
96366	Intravenous infusion, for therapy, prophylaxis, or diagnosis (specify substance or drug); each additional hour (List separately in addition to code for primary procedure)			
J0202	Injection, alemtuzumab, 1 mg			
ICD-10 codes considered medically necessary if criteria are met:				
Code	Description			
G35	Multiple sclerosis			

### References

- Bainbridge JL, Miravalle A, Wong PS. Multiple Sclerosis. In DiPiro JT, Yee GC, Posey LM, et al, eds. Pharmacotherapy: A Pathophysiologic Approach. 11th ed. New York, NY: McGraw-Hill; 2019.
- 2. Cohen JA, Coles AJ, Arnold DL et al. Alemtuzumab versus interferon beta 1a as first-line treatment for patients with relapsing-remitting multiple sclerosis: a randomised controlled phase 3 trial. Lancet. 2012; 380:1819-28.
- 3. Havrdova E, Arnold DL, Cohen JA et al. Alemtuzumab CARE-MS I 5-year follow-up: Durable efficacy in the absence of continuous MS therapy. Neurology. 2017; 89:1107-1116.
- 4. Hauser, S., & Cree, B. (2020). Treatment of Multiple Sclerosis: A Review.. The American journal of medicine. https://doi.org/10.1016/j.amjmed.2020.05.049.
- 5. Lemtrada (alemtuzumab) [prescribing information]. Cambridge, MA: Genzyme Corporation; May 2024.
- 6. McGinley MP, Goldschmidt CH, Rae-Grant AD. Diagnosis and Treatment of Multiple Sclerosis: A Review. JAMA. 2021;325(8):765–779. doi:10.1001/jama.2020.26858
- 7. Multiple Sclerosis Society of Canada. Disease-modifying therapies. https://mssociety.ca/managing-ms/treatments/medications/disease-modifying-therapies-dmts.
- 8. National MS Society. Disease-modifying therapies for MS (updated March 2022). Available from National MS Society website:

- https://nms2cdn.azureedge.net/cmssite/nationalmssociety/media/msnationalfiles/brochures/brochure-the-ms-disease-modifying-medications.pdf.
- Rae-Grant A, Day GS, Marrie RA, et al. Practice guideline recommendations summary: Diseasemodifying therapies for adults with multiple sclerosis: Report of the Guideline Development, Dissemination, and Implementation Subcommittee of the American Academy of Neurology. Neurology. 2018;90(17):777-788.
- 10. Reich DS, Lucchinetti CF, Calabresi PA. 2018. Multiple sclerosis. New England Journal of Medicine 378(2):169-180
- 11. The use of disease-modifying therapies in multiple sclerosis: principles and current evidence summary. Multiple Sclerosis Coalition. Available from the National MS Society Website: https://www.nationalmssociety.org/.
- 12. Tramacere I, Del Giovane C, Salanti G, et al. Immunomodulators and immunosuppressants for relapsing-remitting multiple sclerosis: a network meta-analysis. Cochrane Database Syst Rev 2015;9:CD011381.
- 13. Yang, J., Rempe, T., Whitmire, N., Dunn-Pirio, A., & Graves, J. (2022). Therapeutic Advances in Multiple Sclerosis. Frontiers in Neurology, 13. https://doi.org/10.3389/fneur.2022.824926.
- 14. Zhang J, Shi S, Zhang Y et al. Alemtuzumab versus interferon beta 1a for relapsing-remitting multiple sclerosis. Cochrane Database Syst Rev. 2017; 11:CD010968.

## **Clinical Guideline Revision / History Information**

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