

## UTILIZATION MANAGEMENT MEDICAL POLICY

**POLICY:** Gaucher Disease – Enzyme Replacement Therapy – Eleyso Utilization Management Medical Policy

- Eleyso® (taliglucerase intravenous infusion – Pfizer)

**REVIEW DATE:** 04/01/2026

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### OVERVIEW

Eleyso, an analogue of  $\beta$ -glucocerebrosidase, is indicated for the treatment of a confirmed diagnosis of **Type 1 Gaucher disease** in patients  $\geq 4$  years of age.<sup>1</sup> The recommended dose is 60 U/kg every other week administered intravenously.

### Disease Overview

Gaucher disease is a rare autosomal recessive, inherited, lysosomal storage disorder caused by a deficiency of the lysosomal enzyme  $\beta$ -glucocerebrosidase.<sup>2-4</sup> Glucocerebrosidase is responsible for the breakdown of glucosylceramide (GluCer) into glucose and ceramide. The deficiency of this enzyme is characterized by an excessive accumulation of GluCer in the visceral organs such as the liver, spleen, and bone marrow. GluCer remains stored within lysosomes causing enlarged lipid-laden macrophages called “Gaucher cells”.

Gaucher disease is classified into three phenotypes (Types 1 through 3).<sup>2-5</sup> Type 1 is a non-neuronopathic variant with asymptomatic or symptomatic clinical manifestations of splenomegaly, hepatomegaly, anemia, thrombocytopenia, skeletal complications, and occasional lung involvement. Although historically Type 1 was characterized by the absence of neurological involvement, the prevalence of peripheral neuropathy in adults with Type 1 Gaucher disease has been reported to be higher than the general population.<sup>12</sup> In addition, evidence suggests that central nervous system involvement may also occur. The risk of Parkinson’s disease is increased in patients with Type 1 Gaucher disease and has a more aggressive course than in individuals without Gaucher disease. Further, patients with Type 1 disease may also have evidence of impaired cognitive function, sleep disturbance, hallucinations, apraxia, functional and structural eye abnormalities, and impaired sense of smell. Type 2 is an acute neuronopathic form characterized by an early onset (3 to 6 months of age) of rapidly progressive neurological disease with visceral manifestations; death generally occurs by the time patients reach 1 to 2 years of age. Type 3 is referred to as a chronic neuronopathic form and characterized by a later onset. Patients present with neurological, hematological, and visceral symptoms. Type 1 is most prevalent in the Western world, accounting for an estimated 94% of patients with Gaucher disease.<sup>2,6</sup> Types 2 and 3 represent  $< 1\%$  and  $5\%$ , respectively, in Europe, North America, and Israel.<sup>2,5</sup> The diagnosis of Gaucher disease is established by demonstrating deficient  $\beta$ -glucocerebrosidase activity in leukocytes or fibroblasts, or mutations in the glucocerebrosidase gene.<sup>7,8</sup>

### Guidelines

Treatment guidelines for Type 1 Gaucher disease (non-neuronopathic form) recommend initiating enzyme replacement therapy (ERT) in patients with significant and/or progressive disease.<sup>9,10</sup> Additionally, ERT should be initiated immediately in all patients with Type 3 Gaucher disease (chronic neuronopathic form) at a starting dose of 60 U/kg every other week as soon as possible after diagnosis in children with GD3, or at 30 to 60 U/kg every other week in adults.<sup>10,11</sup> Guidelines note that there is no evidence that ERT has reversed, stabilized, or slowed the progression of neurological involvement.<sup>11</sup> However, ERT ameliorates systemic involvement (skeletal deterioration, visceromegaly, hematological abnormalities) in non-neuronopathic as well as chronic neuronopathic disease, ultimately enhancing the quality of life.

Additionally, it is noted that higher doses may be needed to control visceral symptoms associated with chronic neuronopathic disease.

### **POLICY STATEMENT**

Prior Authorization is recommended for medical benefit coverage of Eleyso. Approval is recommended for those who meet the **Criteria** and **Dosing** for the listed indications. Extended approvals are allowed if the patient continues to meet the Criteria and Dosing. Requests for doses outside of the established dosing documented in this policy will be considered on a case-by-case basis by a clinician (i.e., Medical Director or Pharmacist). All approvals are provided for the duration noted below. Because of the specialized skills required for evaluation and diagnosis of patients treated with Eleyso as well as the monitoring required for adverse events and long-term efficacy, approval requires Eleyso to be prescribed by or in consultation with a physician who specializes in the condition being treated.

**Automation:** None.

### **RECOMMENDED AUTHORIZATION CRITERIA**

Coverage of Eleyso is recommended in those who meet one of the following criteria:

#### **FDA-Approved Indication**

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- 1. Gaucher Disease – Type 1.** Approve for 1 year if the patient meets ALL of the following (A, B, C, and D):

Note: Type 1 Gaucher disease is also known as non-neuronopathic Gaucher disease.

**A)** Patient is  $\geq 4$  years of age; AND

**B)** The diagnosis is established by ONE of the following (i or ii):

**i.** Demonstration of deficient  $\beta$ -glucocerebrosidase activity in leukocytes or fibroblasts; OR

**ii.** Molecular genetic testing documenting biallelic pathogenic variants in the glucocerebrosidase (*GBA*) gene; AND

**C)** The medication is not being used for the management of neurological manifestations; AND

Note: Examples of neurological manifestations may include abnormal ocular movement, auditory impairment, cognitive impairment, and seizures.

**D)** The medication is prescribed by or in consultation with a geneticist, endocrinologist, a metabolic disorder sub-specialist, or a physician who specializes in the treatment of lysosomal storage disorders.

**Dosing.** Each individual dose must not exceed 60 U/kg administered intravenously no more frequently than once every 2 weeks.

### Other Uses with Supportive Evidence

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#### 2. **Gaucher Disease – Type 3.** Approve for 1 year if the patient meets ALL of the following (A, B, C, and D):

Note: Type 3 Gaucher disease is also known as chronic neuronopathic Gaucher disease.

**A)** Patients is  $\geq 4$  years of age; AND

**B)** The diagnosis is established by ONE of the following (i or ii):

**i.** Demonstration of deficient  $\beta$ -glucocerebrosidase activity in leukocytes or fibroblasts; OR

**ii.** Molecular genetic testing documenting biallelic pathogenic variants in the glucocerebrosidase (*GBA*) gene; AND

**C)** Medication is not being used for the management of neurological manifestations; AND

Note: Examples of neurological manifestations may include abnormal ocular movement, auditory impairment, cognitive impairment, and seizures.

**D)** The medication is prescribed by or in consultation with a geneticist, endocrinologist, a metabolic disorder sub-specialist, or a physician who specializes in the treatment of lysosomal storage disorders.

**Dosing.** Each individual dose must not exceed 60 U/kg administered intravenously no more frequently than once every 2 weeks.

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### CONDITIONS NOT RECOMMENDED FOR APPROVAL

Coverage of Elelyso is not recommended in the following situations:

- 1. Concomitant Use with Other Approved Therapies for Gaucher Disease.** Concomitant use with other treatments approved for Gaucher disease has not been evaluated. Of note, examples of medications approved for Gaucher disease include Cerdelga (eliglustat capsules), Cerezyme (imiglucerase intravenous infusion), Vpriv (velaglucerase alfa intravenous infusion), and Zavesca (miglustat capsules).
- 2.** Coverage is not recommended for circumstances not listed in the Recommended Authorization Criteria. Criteria will be updated as new published data are available.

### REFERENCES

1. Elelyso<sup>®</sup> intravenous infusion [prescribing information]. New York, NY: Pfizer; December 2025.
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9. Kishnani PS, Al-Hertani W, Balwani M, et al. Screening, patient identification, evaluation, and treatment in patients with Gaucher disease: Results from a Delphi consensus. *Mol Genet Metab.* 2022 Feb;135(2):154-162.
10. Kaplan P, Baris H, De Meirleir L, et al. Revised recommendations for the management of Gaucher disease in children. *Eur J Pediatr.* 2013 Apr;172(4):447-58.

11. Vellodi A, Tylki-Szymanska A, Davies EH, et al. Management of neuronopathic Gaucher disease: revised recommendations. *J Inherit Metab Dis.* 2009 Oct;32(5):660-664.
12. Weinreb NJ, Goker-Alpan O, Krishnani PS, et al. The diagnosis and management of Gaucher disease in pediatric patients: Where do we go from here? *Mol Genet Metab.* 2022;136:4-21.

**HISTORY**

Type of Revision	Summary of Changes	Review Date
Annual Revision	No criteria changes.	04/10/2024
Selected Revision	<p><b>Gaucher Disease – Type 1:</b> Added qualifier “Type 1” to the condition name and Note to indicate Type 1 disease is also referred to as non-neuronopathic disease. For diagnosis established by genetic testing, genetic testing demonstrating a mutation in the glucocerebrosidase (<i>GBA</i>) gene was further specified to state a genetic test documenting biallelic pathogenic variants in the <i>GBA</i> gene.</p> <p><b>Gaucher Disease – Type 3:</b> This new condition of approval was added under other uses with supportive evidence.</p> <p>Concomitant use with other approved therapies for Gaucher disease was added under conditions not recommended for approval.</p>	07/17/2024
Annual Revision	No criteria changes.	04/02/2025
Annual Revision	<p><b>Gaucher Disease – Type 1:</b> A requirement was added that the medication is not being used for the management of neurological manifestations.</p> <p><b>Gaucher Disease – Type 3:</b> The requirement that the medication is being used for the management of impaired growth, hepatologic, or visceral symptoms was removed. Dosing for Gaucher Disease Type 3 was revised such that each individual dose must not exceed 60 U/kg administered intravenously no more frequently than once every 2 weeks.</p>	04/01/2026