

Medical Policy

Healthcare Services Department

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| Policy Name Enzyme Replacement Therapy for Gaucher Disease: Imiglucerase (Cerezyme), Taliglucerase (Elelyso), Velaglucerase (Vpriv) | Policy Number MP-RX-FP-29-23 | Scope <input checked="" type="checkbox"/> MMM MA <input checked="" type="checkbox"/> MMM Multihealth |
| Service Category <div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;"> <input type="checkbox"/> Anesthesia <input type="checkbox"/> Surgery <input type="checkbox"/> Radiology Procedures <input type="checkbox"/> Pathology and Laboratory Procedures </div> <div style="width: 50%;"> <input type="checkbox"/> Medicine Services and Procedures <input type="checkbox"/> Evaluation and Management Services <input type="checkbox"/> DME/Prosthetics or Supplies <input checked="" type="checkbox"/> Part B Drugs </div> </div> | | |
| Service Description <p>This document addresses the use of Imiglucerase (Cerezyme), Taliglucerase (Elelyso), Velaglucerase (Vpriv) , a drug approved by the Food and Drug Administration (FDA) for the treatment of adults and children with a confirmed diagnosis of type 1 Gaucher disease.</p> <p>Background Information</p> <p>Gaucher disease is a rare autosomal recessive disease characterized by a deficiency of glucocerebrosidase, an enzyme vital to the breakdown of glucosylceramide. Impairment of glucocerebrosidase leads to the collection of glucosylceramide in cells in the spleen, liver, bones and bone marrow. The primary clinical manifestations of Gaucher disease include splenomegaly, hepatomegaly, anemia, thrombocytopenia and skeletal complications. Symptomatic skeletal disease includes avascular necrosis, Erlenmeyer flask deformity, lytic disease, marrow infiltration, osteopenia, osteosclerosis, pathological fracture and joint deterioration. In some forms of Gaucher disease, the collection of glucosylceramide is seen in the brain, resulting in neurologic impairment and dysfunction. Manifestations of neurologic disease include seizures, eye movement and vision problems, poor coordination and progressive brain damage.</p> <p>Diagnosis of Gaucher disease involves clinical examination, radiological imaging and laboratory testing. Glucocerebrosidase enzyme activity measurement and genotype testing of the glucocerebrosidase genome are important to avoid confusion with other diseases, including other lipidoses. Assessment and confirmation of neurologic disease must include a thorough neurological examination that includes eye movement examination, measurement of peripheral hearing, brain imaging, electroencephalography and age-appropriate neuropsychometry.</p> <p>There are three presentations of Gaucher disease. Type 1 is the most common form of Gaucher disease, responsible for approximately 90% of all cases. The age of onset for type 1 Gaucher disease is highly variable with symptom presentation occurring anywhere from childhood to late adulthood. Alternatively, some individuals with this genotype of Gaucher disease never have any symptoms. Commonly seen symptoms of type 1 Gaucher disease include fatigue, cachexia, growth delay in childhood and easy bruising or bleeding. Individuals exhibit the visceral, hematologic and bone manifestations of disease which progress in severity over time. There is no neurologic involvement with type 1 Gaucher disease.</p> | | |

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| <p>Type 2, also referred to as neuropathic Gaucher disease, is the rarest form of this disease. Type 2 Gaucher disease is characterized by early age of onset with serious, rapidly progressive neurologic deterioration and less severe visceral impairment. Widespread neurological dysfunction leading to severe seizures, rigidity and other motor dysfunction is common.</p> <p>Type 3 Gaucher disease is a less severe neuropathic form of disease compared to type 2. The age of onset may occur anywhere from early childhood to late adulthood and the course of the disease is much more variable than with the other types. Type 3 Gaucher disease typically has a more aggressive presentation of visceral, hematologic and bone involvement than type 1 disease. Type 3 Gaucher disease does include neurologic dysfunction, with poor coordination, paralysis of the eye muscles, and dementia; however, the severity of these conditions is much less than with type 2 Gaucher disease.</p> <p>Clinical studies have demonstrated the systemic manifestations of type 1 Gaucher disease, including visceral, hematologic and bone symptoms, respond well to enzyme replacement therapy (ERT) with glucocerebrosidase analogs. Similar benefits have been shown for systemic manifestations of type 3 Gaucher disease. Unfortunately, the glucocerebrosidase analogs do not pass through the blood-brain barrier and have minimal to no impact on the neurologic symptoms seen in type 2 and type 3 Gaucher disease.</p> <p>Cerezyme, Elelyso and Vpriv are glucocerebrosidase analogs approved by the FDA for long-term treatment of type 1 Gaucher disease in adults and children who are exhibiting systemic disease manifestations. Small case series have been published that support the use of ERT for controlling visceral, bone and hematologic symptoms in type 3 Gaucher disease. Kaplan and colleagues (2013) published updated recommendations for the management of children with Gaucher disease. Enzyme replacement therapy was recommended for all symptomatic children with type 1 and 3 Gaucher disease to prevent debilitating and often irreversible disease progression. 2 The clinical trial programs for both Vpriv and Elelyso included participants who switched from Cerezyme to Vpriv or Elelyso. The FDA determined there was sufficient evidence of safety and efficacy in this situation and that Vpriv and Elelyso are alternatives for individuals currently receiving treatment for Gaucher disease with Cerezyme. The dosage and administration section of product labeling includes dosing recommendations for switching from Cerezyme to Vpriv or Elelyso.</p> | | |

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Approved Indications

A. Gaucher Disease

Other Uses

A. N/A

Applicable Codes

The following list(s) of procedure and/or diagnosis codes is provided for reference purposes only and may not be all inclusive. Inclusion or exclusion of a procedure, diagnosis or device code(s) does not constitute or imply member coverage or provider reimbursement policy. Benefit coverage for health services is determined by the member specific benefit plan document and applicable laws that may require coverage for a specific service. The inclusion of a code does not imply any right to reimbursement or guarantee claim payment. Other Policies and Guidelines may apply.

| HCPCS | Description |
|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| J1786 | Injection, imiglucerase, 10 units [Cerezyme] |
| J3060 | Injection, taliglucerase alfa, 10 units [ELELYSO] |
| J3385 | Injection, velaglucerase alfa, 100 units [VPRIV] |
| S9357 | Home infusion therapy, enzyme replacement intravenous therapy; (e.g., Imiglucerase); administrative services, professional pharmacy services, care coordination, and all necessary supplies and equipment (drugs and nursing visits coded separately), per diem |

| ICD-10 | Description |
|--------|-----------------|
| E75.22 | Gaucher disease |

Medical Necessity Guidelines

When a drug is being reviewed for coverage under a member's medical benefit plan or is otherwise subject to clinical review (including prior authorization), the following criteria will be used to determine whether the drug meets any applicable medical necessity requirements for the intended/prescribed purpose.

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

Enzyme Replacement Therapy for Gaucher Disease [Cerezyme (imiglucerase), Elelyso (taliglucerase), Vpriv (velaglucerase)]

A. Criteria For Initial Approval *(Provider must submit documentation [such as office chart notes, lab results, pathology reports, imaging studies, and any other pertinent clinical information] supporting the patient's diagnosis for the drug and confirming that the patient has met **all** approval criteria.)*

- i. Individual is 18 years of age or older with a diagnosis of type 1 Gaucher disease and the following criteria are met:
 - a. Documentation is provided that Type 1 Gaucher disease is confirmed by either (Weinreb, 2004; Wang, 2011):
 1. Deficiency in glucocerebrosidase enzyme activity as measured in the white blood cells or skin fibroblasts; **OR**
 2. Genotype testing indicates mutation of two alleles of the glucocerebrosidase genome; **AND**
 - b. Documentation is provided that individual has clinically significant manifestations of Gaucher disease including (Andersson, 2005; Weinreb, 2004):
 1. Skeletal disease (such as but not limited to avascular necrosis, Erlenmeyer flask deformity, osteopenia or pathological fracture); **OR**
 2. Two or more of the following:
 - a. Clinically significant hepatomegaly; **OR**
 - b. Clinically significant splenomegaly; **OR**
 - c. Hemoglobin at least 1.0 g/dL below lower limit of normal for age and sex; **OR**
 - d. Platelet count less than or equal to 120,000 mm³

OR

- ii. Individual is less than 18 years of age with a diagnosis of type 1 Gaucher disease and the following criteria are met:
 - a. Documentation is provided that Type 1 Gaucher disease is confirmed by either (Kaplan, 2013; Wang, 2011):
 1. Deficiency in glucocerebrosidase enzyme activity as measured in the white blood cells or skin fibroblasts; **OR**
 2. Genotype testing indicates mutation of two alleles of the glucocerebrosidase genome; **AND**

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| <p>b. Individual has clinically significant manifestations of Gaucher disease (such as but not limited to hepatomegaly, splenomegaly, anemia, thrombocytopenia, skeletal disease or growth failure) (Andersson, 2005)</p> <p>OR</p> <p>iii. Documentation is provided that individual is 18 years of age or older with a diagnosis of type 3 Gaucher disease and the following criteria are met (Kaplan, 2013):</p> <p>a. Type 3 Gaucher disease is verified by genotype testing indicating mutation of two alleles of the glucocerebrosidase genome (Kaplan, 2013; Wang, 2011); AND</p> <p>b. Individual has clinically significant manifestations of Gaucher disease including (Andersson, 2005; Weinreb, 2004):</p> <ol style="list-style-type: none"> 1. Skeletal disease (such as but not limited to avascular necrosis, Erlenmeyer flask deformity, osteopenia or pathological fracture); OR 2. Two or more of the following: <ol style="list-style-type: none"> a. Clinically significant hepatomegaly; OR b. Clinically significant splenomegaly; OR c. Hemoglobin at least 1.0 g/dL below lower limit of normal for age and sex; OR d. Platelet count less than or equal to 120,000/mm³; AND c. There are neurological findings consistent with type 3 Gaucher disease based on neurological evaluation including brain imaging [magnetic resonance imaging (MRI) or computed tomography (CT)] and electroencephalography (EEG) (Vellodi, 2009) <p>OR</p> <p>iv. Documentation is provided that individual is less than 18 years of age with a diagnosis of type 3 Gaucher disease and the following criteria are met (Kaplan, 2013):</p> <p>a. Type 3 Gaucher disease is verified by genotype testing indicating mutation of two alleles of the glucocerebrosidase genome (Kaplan, 2013; Wang, 2011); AND</p> <p>b. Individual has clinically significant manifestations of Gaucher disease (such as but not limited to hepatomegaly, splenomegaly, anemia, thrombocytopenia, skeletal disease or growth failure) (Andersson, 2005); AND</p> <p>c. There are neurological findings consistent with type 3 Gaucher disease based on neurological evaluation including brain imaging [magnetic resonance imaging (MRI) or computed tomography (CT)] and electroencephalography (EEG) (Vellodi, 2009).</p> <p>B. Criteria For Continuation of Therapy</p> <p>i. There is clinically significant improvement in clinical signs and symptoms of disease (including but not limited to reduction of spleen volume, reduction of liver volume, resolution of anemia, resolution of thrombocytopenia, reduction in fatigue, improvement in skeletal manifestations)</p> | | |

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| C. Authorization Duration <ul style="list-style-type: none">i. Initial Authorization: 12 monthsii. Reauthorization: 12 months | | |
| D. Conditions Not Covered <p>Any other use is considered experimental, investigational, or unproven, including the following (this list may not be all inclusive):</p> <ul style="list-style-type: none">i. Individuals with type 2 Gaucher disease; ORii. Use in combination with another enzyme replacement therapy agent or substrate reduction therapy agent [Cerdelga (eliglustat), Zavesca (miglustat)] for the treatment of Gaucher disease; ORiii. May not be approved when the above criteria are not met and for all other indications. | | |

Limits or Restrictions

A. Quantity Limitations

Approvals may be subject to dosing limits in accordance with FDA-approved labeling, accepted compendia, and/or evidence-based practice guidelines. The chart below includes dosing recommendations as per the FDA-approved prescribing information.

| Drug | Limit |
|---------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Cerezyme (imiglucerase) 400 unit vial | 60 units/kg as frequently as every 2 weeks* |
| Elelyso (taliglucerase) 200 unit vial | 60 units/kg as frequently as every 2 weeks |
| Vpriv (velaglucerase) 400 unit vial | 60 units/kg as frequently as every 2 weeks |
| Exceptions | |
| I. | Requests for higher dosing or more frequent administration may be approved when the treating physician has indicated that it is necessary based on the individual’s disease severity or lack of response. |
| II. | Individuals currently being treated on a stable dosage of Cerezyme may be switched to Elelyso or Vpriv at the previous Cerezyme dosage. |
| III. | For Cerezyme, may approve alternate dosing of up to three times weekly. |

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| Reference Information <ol style="list-style-type: none"> Andersson HC, Charrow J, Kaplan P, et al., International Collaborative Gaucher Group (ICGG) US Regional Coordinators. Individualization of long term enzyme replacement (ERT) for Gaucher's disease. Genet Med. 2005; 7(2):105-110. DailyMed. Package inserts. U.S. National Library of Medicine, National Institutes of Health website. http://dailymed.nlm.nih.gov/dailymed/about.cfm. Accessed: June 11, 2023. DrugPoints® System [electronic version]. Truven Health Analytics, Greenwood Village, CO. Updated periodically. Grabowski GA, Barton NW, Pastores G, et al. Enzyme therapy in type 1 Gaucher disease: comparative efficacy of mannoseterminated glucocerebrosidase from natural and recombinant sources. Ann Intern Med. 1995;122:33-39. Kaplan P, Baris H, De Meirleir L, et al. Revised recommendations for the management of Gaucher disease in children. Eur J Pediatr. 2013; 172(4):447-458. Lexi-Comp ONLINE™ with AHFS™, Hudson, Ohio: Lexi-Comp, Inc. Updated periodically. Mistry PK, Cappellini MD, Lukina E, et al. A reappraisal of Gaucher disease – Diagnosis and disease management algorithms. Am J Hematol. 2011; 86(1):110-115. Turkia HB, Gonzalez DE, Barton NW, et al. Velaglucerase alfa enzyme replacement therapy compared with imiglucerase in patients with Gaucher disease. Am J Hematol. 2013; 88(3):179-84. Vellodi A, Tytki-Szymanska A, Davies EH, et al. Management of neuropathic Gaucher disease: revised recommendations. J Inherit Metab Dis. 2009; 32(5):660-664. Wang RY, Bodamer OA, Watson MS, Wilcox WR; American College of Medical Genetics (ACMG) Work Group on Diagnostic Confirmation of Lysosomal Storage Diseases. Lysosomal storage diseases: diagnostic confirmation and management of presymptomatic individuals. Genet Med. 2011; 13(5):457-484. Weinreb NJ, Aggio MC, Andersson HC, et al. Gaucher disease type 1: Revised recommendations on evaluations and monitoring for adult patients. Semin Hematol. 2004; 41(Suppl 5):15-22. Zimran A, Brill-Almon E, Chertkoff R, et al. Pivotal trial with plant cell-expressed recombinant glucocerebrosidase, taliglucerase alfa, a novel enzyme replacement therapy for Gaucher disease. Blood. 2011; 118: 5767-5773 <p>Federal and state laws or requirements, contract language, and Plan utilization management programs or policies may take precedence over the application of this clinical criteria.</p> <p>No part of this publication may be reproduced, stored in a retrieval system or transmitted, in any form or by any means, electronic, mechanical, photocopying, or otherwise, without permission from the health plan.</p> <p>© CPT Only – American Medical Association</p> | | |

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| Policy History | | | |
| Revision Type | Summary of Changes | P&T Approval Date | MPCC Approval Date |
| Annual Review 06/10/2024 | Added the following statement to the initial approval criteria section: Provider must submit documentation [such as office chart notes, lab results, pathology reports, imaging studies, and any other pertinent clinical information] supporting the patient’s diagnosis for the drug and confirming that the patient has met all approval criteria.); Added authorization duration; Format changes; Coding reviewed: No change | 2/18/2025 | 3/6/2025 |
| Policy Inception 06/12/2023 | Elevance Health’s Medical Policy adoption. | N/A | 11/30/2023 |