

Cerezyme® (imiglucerase) (Intravenous)

Document Number: IC-0027

Last Review Date: 04/07/2025

Date of Origin: 11/02/2011

Dates Reviewed: 12/2011, 02/2013, 02/2014, 09/2014, 07/2015, 07/2016, 08/2017, 07/2018, 07/2019, 07/2020, 09/2021, 01/2022, 09/2022, 09/2023, 09/2024, 04/2025

I. Length of Authorization

Coverage will be provided for 12 months and may be renewed.

II. Dosing Limits

Max Units (per dose and over time) [HCPCS Unit]:

- 720 billable units every 14 days

III. Initial Approval Criteria ¹

Coverage is provided in the following conditions:

- Patient is at least 2 years of age; **AND**

Universal Criteria ¹

- Used as a single agent; **AND**

Type 1 Gaucher Disease † Φ ^{1,6,9,12-15}

- Patient has a documented diagnosis of Type 1 Gaucher Disease confirmed by one of the following:
 - Significantly reduced or absent glucocerebrosidase enzyme activity as measured by a beta-glucosidase leukocyte (BGL) test
 - Detection of mutations in the glucocerebrosidase (*GBA*) gene; **AND**
- Patient's disease results in one or more of the following:
 - Anemia-related symptoms [i.e., blood transfusion dependency and/or hemoglobin ≤ 11 g/dL (women and children) or ≤ 12 g/dL (men)]
 - Thrombocytopenia (platelet count $\leq 120,000/\text{mm}^3$)
 - Hepatomegaly or splenomegaly
 - Skeletal disease (e.g., lesions, remodeling defects and/or deformity of long bones, osteopenia/osteoporosis, etc.)
 - Symptomatic disease (e.g., bone pain, fatigue, dyspnea, abdominal distension, diminished quality of life, etc.)

† FDA Approved Indication(s); ‡ Compendia Recommended Indication(s); Ⓢ Orphan Drug

IV. Renewal Criteria ^{1,6,9,11,13-15}

Coverage can be renewed based on the following criteria:

- Patient continues to meet the universal and other indication-specific relevant criteria such as concomitant therapy requirements (not including prerequisite therapy), performance status, etc. identified in section III; **AND**
- Absence of unacceptable toxicity from the drug. Examples of unacceptable toxicity include: hypersensitivity reactions, including anaphylaxis, infusion-associated reactions (e.g., angioedema, pruritus, rash/urticaria, hypertension, etc.), etc.; **AND**
- Disease response with treatment as defined by one or more of the following (compared to pre-treatment baseline):
 - Improvement in anemia-related symptoms (i.e., improvement in hemoglobin and/or decrease in blood transfusion dependency)
 - Improvement in platelet counts
 - Reduction in size of liver or spleen
 - Improvement in skeletal disease (e.g., increase in lumbar spine and/or femoral neck BMD, no bone crises or bone fractures, etc.)
 - Improvement in symptoms (e.g., bone pain, fatigue, dyspnea, abdominal distension, quality of life, etc.)

V. Dosage/Administration ¹

Indication	Dose
Type 1 Gaucher Disease	<ul style="list-style-type: none">– Initial dosages range from 2.5 U/kg of body weight intravenously 3 times a week to 60 U/kg intravenously once every 2 weeks based on disease severity.– Titrate the dosage based on clinical manifestations of disease and therapeutic goals for the patient.

VI. Billing Code/Availability Information

HCPCS Code:

- J1786 – Injection, imiglucerase, 10 units; 1 billable unit = 10 units

NDC:

- Cerezyme 400 unit powder for injection, single-dose vial: 58468-4663-xx

VII. References

1. Cerezyme [package insert]. Cambridge, MA; Genzyme Corporation.; December 2024. Accessed March 2025.

2. Anderson HC, et al. Consensus Statement by the International Collaborative Gaucher Group (ICGG) U.S. Coordinators on Individualization of ERT for Type-1 Gaucher Disease. September 2000.
3. Charrow, et al. Gaucher Disease: Recommendations on Diagnosis, Evaluation and Monitoring (Special Article). Archives of Internal Medicine 1998;158: 1754-1760.
4. Pastores GM, Weinreb NJ, Aerts H, et al. Therapeutic goals in the treatment of Gaucher disease. Semin Hematol 2004; 41:4.
5. Baldellou A, Andria G, Campbell PE, et al. Paediatric non-neuronopathic Gaucher disease: recommendations for treatment and monitoring. Eur J Pediatr 2004; 163:67.
6. Charrow J, Andersson HC, Kaplan P, et al. The Gaucher Registry: Demographics and disease characteristics of 1698 patients with Gaucher disease. Arch Intern Med 2000; 160:2835.
7. Martins AM, Valadares ER, Porta G, et al. Recommendations on diagnosis, treatment, and monitoring for Gaucher disease. J Pediatr. 2009 Oct;155(4 Suppl):S10-8.
8. 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: doi: 10.1007/s00431-012-1771-z. Epub 2012 Jul 8.
9. Pastores GM, Hughes DA. Gaucher Disease. GeneReviews®. www.ncbi.nlm.nih.gov/books/NBK1269/. Initial Posting: July 27, 2000; Last Revision: December 7, 2023. Accessed on March 12,, 2025.
10. Grabowski GA, Barton NW, Pastores G, et al. Enzyme Therapy in Type 1 Gaucher Disease: Comparative Efficacy of Mannose-Terminated Glucocerebrosidase From Natural and Recombinant Sources. Ann Intern Med 1995 Jan 1;122(1):33-9. doi: 10.7326/0003-4819-122-1-199501010-00005.
11. Biegstraaten M, Cox TM, Belmatoug N, et al. Management goals for type 1 Gaucher disease: An expert consensus document from the European working group on Gaucher disease. Blood Cells, Molecules and Diseases 68 (2018) 203-208.
12. DuaPuri R, Kapoor S, Kishnani PS, et al. Diagnosis and Management of Gaucher Disease in India – Consensus Guidelines of the Gaucher Disease Task Force of the Society for Indian Academy of Medical Genetics and the Indian Academy of Pediatrics. Indian Pediatrics. 5;2018: 143-153.
13. Kaplan P, Andersson HC, Kacena KA, Yee JD. The clinical and demographic characteristics of nonneuronopathic Gaucher disease in 887 children at diagnosis. Arch Pediatr Adolesc Med. 2006 Jun;160(6):603-8.
14. Hughs D, Sidransky E. (2025). Gaucher disease: Pathogenesis, clinical manifestations, and diagnosis. In Kaplan SL, Kremen J (Eds.), *UptoDate*. Last updated: August 6, 2024. Accessed on March 12, 2025. Available from https://www.uptodate.com/contents/gaucher-disease-pathogenesis-clinical-manifestations-and-diagnosis?search=gaucher%20disease%20type%201&source=search_result&selectedTitle=1~150&usage_type=default&display_rank=1#H11.
15. Hughs D, Sidransky E. (2025). Gaucher disease: Treatment. In Kaplan SL, Kremen J (Eds.), *UptoDate*. Last updated: August 02, 2022. Accessed on March 12, 2025. Available from

https://www.uptodate.com/contents/gaucher-disease-treatment?sectionName=ENZYME%20REPLACEMENT%20THERAPY&search=gaucher%20disease%20type%201&topicRef=2918&anchor=H4&source=see_link#H15131002.

Appendix 1 – Covered Diagnosis Codes

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

Appendix 2 – Centers for Medicare and Medicaid Services (CMS)

The preceding information is intended for non-Medicare coverage determinations. Medicare coverage for outpatient (Part B) drugs is outlined in the Medicare Benefit Policy Manual (Pub. 100-2), Chapter 15, §50 Drugs and Biologicals. In addition, National Coverage Determinations (NCDs) and/or Local Coverage Determinations (LCDs) may exist and compliance with these policies is required where applicable. Local Coverage Articles (LCAs) may also exist for claims payment purposes or to clarify benefit eligibility under Part B for drugs which may be self-administered. The following link may be used to search for NCD, LCD, or LCA documents: <https://www.cms.gov/medicare-coverage-database/search.aspx>. Additional indications, including any preceding information, may be applied at the discretion of the health plan.

Medicare Part B Covered Diagnosis Codes (applicable to existing NCD/LCD/LCA): N/A

Medicare Part B Administrative Contractor (MAC) Jurisdictions		
Jurisdiction	Applicable State/US Territory	Contractor
E (1)	CA, HI, NV, AS, GU, CNMI	Noridian Healthcare Solutions, LLC
F (2 & 3)	AK, WA, OR, ID, ND, SD, MT, WY, UT, AZ	Noridian Healthcare Solutions, LLC
5	KS, NE, IA, MO	Wisconsin Physicians Service Insurance Corp (WPS)
6	MN, WI, IL	National Government Services, Inc. (NGS)
H (4 & 7)	LA, AR, MS, TX, OK, CO, NM	Novitas Solutions, Inc.
8	MI, IN	Wisconsin Physicians Service Insurance Corp (WPS)
N (9)	FL, PR, VI	First Coast Service Options, Inc.
J (10)	TN, GA, AL	Palmetto GBA
M (11)	NC, SC, WV, VA (excluding below)	Palmetto GBA
L (12)	DE, MD, PA, NJ, DC (includes Arlington & Fairfax counties and the city of Alexandria in VA)	Novitas Solutions, Inc.
K (13 & 14)	NY, CT, MA, RI, VT, ME, NH	National Government Services, Inc. (NGS)
15	KY, OH	CGS Administrators, LLC