

Gaucher Disease Products Approved by NJ DURB, October 2019

Background:

Gaucher disease is caused by a deficiency of the lysosomal enzyme acid β -glucosidase (for example, glucocerebrosidase), which catalyzes the conversion of the sphingolipid glucocerebroside into glucose and ceramide. The enzymatic deficiency causes an accumulation of glucosylceramide (GL-1), primarily in the lysosomal compartment of macrophages, giving rise to foam cells or "Gaucher cells."

Cerezyme, Vpriv, and Elelyso are FDA-approved as enzyme replacement therapy (ERT) for Gaucher disease

Cerdelga is FDA-approved as substrate reduction therapy (SRT) for Gaucher disease **Zavesca** is FDA-approved as substrate reduction therapy (SRT) for Gaucher disease and reviewed under Miglustat Products ABH Medicaid QSet C27080-A 12_2023

Criteria for approval:

Enzyme Replacement Therapy (ERT):

Cerezyme® (imiglucerase)

Elelyso® (taliglucerase)

Vpriv[®] (velaglucerase)

- 1. Patient has a diagnosis of Type 1 or Type 3 Gaucher disease
- 2. Diagnosis of Gaucher disease is confirmed by:
 - a. Beta-glucosidase leukocyte (BGL) test; OR
 - b. Genotype testing indicating mutation of two alleles of the glucocerebrosidase genome (for example, GBA gene)
- 3. Patient exhibits clinical signs and symptoms of the disease including anemia, thrombocytopenia, skeletal disease, hepatomegaly or splenomegaly
- 4. Prescription is written by or in consultation with a hematologist, neurologist, or geneticist
- 5. 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.

Substrate Replacement Therapy (SRT):

Cerdelga® (eliglustat)

- 1. Patient is 18 years of age and older
- 2. Patient has a diagnosis of Type 1 Gaucher disease
- 3. Diagnosis of Gaucher disease is confirmed by:
 - a. Beta-glucosidase leukocyte (BGL) test; OR
 - b. Genotype testing indicating mutation of two alleles of the glucocerebrosidase genome (for example, GBA gene)

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- 4. Patient exhibits clinical signs and symptoms of the disease including anemia, thrombocytopenia, skeletal disease, hepatomegaly, or splenomegaly
- 5. Prescription is written by or in consultation with a hematologist, neurologist, or geneticist
- 6. 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.

Additionally, for Cerdelga requests:

- a. Patient is one of the following as detected by an FDA-cleared test:
 - i. CYP2D6 extensive metabolizer (EMs)
 - ii. CYP2D6 intermediate metabolizer (IMs)
 - iii. CYP2D6 poor metabolizer (PMs)
- b. The patient does not have any of the following contraindications to therapy based on type of metabolizer
 - i. CYP2D6 extensive metabolizer (EMs)
 - Taking a strong or moderate CYP2D6 inhibitor concomitantly with a strong
 - 2. or moderate CYP3A inhibitor.
 - 3. Moderate or severe hepatic impairment.
 - 4. Mild hepatic impairment taking a strong or moderate CYP2D6 inhibitor.
 - ii. CYP2D6 intermediate metabolizer (IMs)
 - Taking a strong or moderate CYP2D6 inhibitor concomitantly with a strong
 - 2. or moderate CYP3A inhibitor
 - 3. Taking a strong CYP3A inhibitor
 - 4. Any degree of hepatic impairment
 - iii. CYP2D6 poor metabolizer (PMs)
 - 1. Taking a strong CYP3A inhibitor
 - 2. Any degree of hepatic impairment

Initial Approval Duration: 3 months

Continuation of therapy

- Documentation of positive clinical response to therapy (e.g. reduced severity of symptoms)
- 2. 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.

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3. For dose increases, weight must be received for drugs that have weight-based dosing. For dose increases, height and weight must be received for drugs that have dosing based on body surface area.

Renewal Approval Duration: 6 months

References:

- 1. Cerdelga [package insert]. Waterford, Ireland: Genzyme Corp; August 2014.
- 2. Cerezyme [package insert]. Genzyme Corporation, Cambridge, MA; April 02142
- 3. Elelyso [package insert]. New York, NY: Pfizer, Inc; December 2016.
- 4. Vpriv [package insert]. Shire Human Genetic Therapies, Inc., Lexington, MA; April 2015
- 5. National Gaucher Foundation website: https://www.gaucherdisease.org/ Accessed August 27, 2019
- 6. Clinical Pharmacology® Gold Standard Series [Internet database]. Tampa FL. Elsevier 2016. Updated periodically
- 7. National Center for Advancing Translational Sciences: Genetic and Rare Diseases Information Center (GARD). Gaucher disease type 3. National Institute of Health (NIH). Available at: https://rarediseases.info.nih.gov/diseases/2443/gaucher-disease-type-3. Accessed September 11, 2019.
- 8. National Organization for Rare Disorders. Gaucher Disease. Available at https://rarediseases.org/physicianguide/gaucher-disease/. Accessed September 11, 2019.
- 9. Kaplan P, et al. Revised recommendations for the management of Gaucher disease in children. Eur J Pediatr (2013) 172:447-458
- 10. Schiffmann R, et al. Randomized, Controlled Trial of Miglustat in Gaucher's Disease Type 3. Ann Neurol. 2008 Nov; 64(5): 514–522. Available at: https://www.ncbi.nlm.nih.gov/pmc/articles/PMC2605167/. Accessed September 12, 2019.

Updated: 4-2024 Effective: 5/27/2024