CLINICAL POLICY

Alglucosidase Alfa



Clinical Policy: Alglucosidase Alfa (Lumizyme)

Reference Number: PA.CP.PHAR.160

Effective Date: 01/2018 Last Review Date: 04/2024

Description

Alglucosidase alfa (Lumizyme®) is a hydrolytic lysosomal glycogen-specific enzyme.

FDA Approved Indication(s)

Lumizyme is indicated for patients with Pompe disease (acid alpha-glucosidase [GAA]) deficiency.

Policy/Criteria

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

It is the policy of PA Health & Wellness that Lumizyme is **medically necessary** when the following criteria are met:

I. Initial Approval Criteria

- **A. Pompe Disease** (must meet all):
 - 1. Diagnosis of Pompe disease (acid alpha-glucosidase [GAA] deficiency) confirmed by one of the following:
 - a. Enzyme assay confirming low GAA activity;
 - b. DNA testing;
 - 2. Lumizyme is not prescribed concurrently with Nexviazyme[™] or the combination of Pombiliti[™] with Opfolda[™];
 - 3. Dose does not exceed 20 mg/kg every 2 weeks.

Approval duration: 6 months

B. Other diagnoses/indications: Refer to PA.CP.PMN.53

II. Continued Approval

A. Pompe Disease (must meet all):

- 1. Currently receiving medication via PA Health & Wellness benefit or member has previously met all initial approval criteria; or the Continuity of Care policy (PA.LTSS.PHAR.01) applies;
- 2. Member is responding positively to therapy as evidenced by improvement in the individual member's Pompe disease manifestation profile (*see Appendix D for examples*);
- 3. Lumizyme is not prescribed concurrently with Nexviazyme Pombiliti[™] with Opfolda[™];
- 4. If request is for a dose increase, new dose does not exceed 20 mg/kg every 2 weeks.

Approval duration: 12 months

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B. Other diagnoses/indications (must meet 1 or 2):

- 1. Currently receiving medication via PA Health & Wellness benefit and documentation supports positive response to therapy; or the Continuity of Care policy (PA.LTSS.PHAR.01) applies; or
- 2. Refer to PA.CP.PMN.53

IV. Appendices/General Information

Appendix A: Abbreviation/Acronym Key

6MWT: 6 minute walk test FDA: Food and Drug Administration

AIMS: Alberta Infant Motor Scale GAA: acid alpha-glucosidase

Appendix B: Therapeutic Alternatives

Not applicable

Appendix C: Contraindications/Boxed Warnings

• Contraindication(s): none reported.

• Boxed warning(s): risk of anaphylaxis, hypersensitivity, and immune-mediated reactions to Lumizyme infusions; risk of cardiorespiratory failure.

Appendix D: Measures of Therapeutic Response

- Pompe disease manifests as a clinical spectrum that varies with respect to age at onset*, rate of disease progression, and extent of organ involvement. Patients can present with a variety of signs and symptoms, which can include cardiomegaly, cardiomyopathy, hypotonia, muscle weakness, respiratory distress (eventually requiring assisted ventilation), and skeletal muscle dysfunction. In infantile-onset disease, death typically occurs in the first year of life.
- While there is not one generally applicable set of clinical criteria that can be used to determine appropriateness of continued therapy, clinical parameters that can indicate therapeutic response to Lumizyme include:
 - For infantile-onset disease: no invasive ventilator supported needed, gains in motor function as evidenced by the Alberta Infant Motor Scale (AIMS), continued survival;
 - o For late-onset disease: improved or maintained forced vital capacity, improved or maintained 6 minute walk test (6MWT) distance.

V. Dosage and Administration

Indication	Dosing Regimen	Maximum Dose
Pompe disease	20 mg/kg IV every 2 weeks	20 mg/kg/2 weeks

VI. Product Availability

Single-use vial: 50 mg

^{*}Although infantile-onset disease typically presents in the first year of life, age of onset alone does not necessarily distinguish between infantile- and late-onset disease since juvenile-onset disease can present prior to 12 months of age.

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VII. References

- 1. Lumizyme Prescribing Information. Cambridge, MA: Genzyme Corporation; March 2023. Available at http://www.lumizyme.com. Accessed January 9, 2024.
- 2. Kishnani PS, Steiner RD, Bali D, et al. American College of Medical Genetics and Genomics (ACMG) Work Group on management of Pompe disease. Pompe disease diagnosis and management guideline. *Genet Med.* 2006; 8(5): 267-268.
- 3. Cupler EJ, Berger KI, Leshner RT, et al. Consensus treatment recommendations for lateonset Pompe disease. Muscle Nerve 2012;45:319-33.

Coding Implications

Codes referenced in this clinical policy are for informational purposes only. Inclusion or exclusion of any codes does not guarantee coverage. Providers should reference the most up-to-date sources of professional coding guidance prior to the submission of claims for reimbursement of covered services.

HCPCS	Description
Codes	
J0220	Injection, alglucosidase alfa, 10 mg, not otherwise specified
J0221	Injection, alglucosidase alfa, (Lumizyme), 10 mg

Reviews, Revisions, and Approvals	Date
2Q 2018 annual review: Added max dose criteria. Added examples of what	02/2018
may constitute positive response to therapy. Added requirement for	
documentation of positive response to therapy for reauthorization; changed	
approval durations from length of benefit to 6/12 months; references reviewed	
and updated.	
2Q 2019 annual review: references reviewed and updated.	04/2019
2Q 2020 annual review: references reviewed and updated.	04/2020
2Q 2021 annual review: references reviewed and updated.	04/2021
2Q 2022 annual review: no significant changes; added requirement that	04/2022
Lumizyme not be prescribed concurrently with Nexviazyme; references	
reviewed and updated.	
2Q 2023 annual review: no significant changes; references reviewed and	04/2023
updated.	
2Q 2024 annual review: no significant changes; added exclusion for	04/2024
concomitant use with Pombiliti+Opfolda to align with the Pombiliti criteria;	
references reviewed and updated.	