CLINICAL POLICY Elosulfase Alfa



# **Clinical Policy: Elosulfase Alfa (Vimizim)**

Reference Number: PA.CP.PHAR.162 Effective Date: 01/2018 Last Review Date: 04/2025

## Description

Elosulfase alfa (Vimizim<sup>®</sup>) is a hydrolytic lysosomal glycosaminoglycan-specific enzyme.

## **FDA** Approved Indication

Vimizim is indicated for patients with mucopolysaccharidosis type IVA (MPS IVA; Morquio A syndrome).

#### **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 Vimizim is **medically necessary** when the following criteria are met:

#### I. Initial Approval Criteria

- A. Morquio A Syndrome (Mucopoloysaccharidosis [MPS IVA]) (must meet all):
  - 1. Diagnosis of Morquio A syndrome (MPS IVA) confirmed by one of the following (a or b):
    - a. Enzyme assay demonstrating a deficiency of N-acetylgalactosamine-6-sulfatase activity;
    - b. DNA testing.
  - 2. Age  $\geq$  5 years;
  - 3. Documentation of member's current weight (in kg);
  - 4. Dose does not exceed 2 mg/kg/week.

**Approval duration: 6 months** 

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

#### **II. Continued Approval**

#### A. Morquio A Syndrome (MPS IVA) (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.PHARM.01) applies;
- 2. Member is responding positively to therapy as evidenced by improvement in the individual member's MPS IVA disease manifestation profile *(see Appendix D for examples)*;
- 3. Documentation of member's current weight (in kg);
- 4. If request is for a dose increase, new dose does not exceed 2 mg/kg/week. Approval duration: 12 months

## **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.PHARM.01) applies; or
- 2. Refer to PA.CP.PMN.53

## **III. Appendices/General Information**

Appendix A: Abbreviation/Acronym Key FDA: Food and Drug Administration MPS IVA: mucopolysaccharidosis IVA

Appendix B: Therapeutic Alternatives Not applicable

Appendix C: Contraindications/Boxed Warnings

- Contraindication(s): none reported.
- Boxed warning(s): risk of life-threatening anaphylactic reactions during Vimizim infusions.

## Appendix D: General Information

The presenting symptoms and clinical course of MPS IVA can vary from one individual to another. Some examples, however, of improvement in MPS IVA disease as a result of Vimizim therapy may include improvement in:

- 6-minute walking test distance
- Breathing difficulties
- Muscle weakness
- Vision or hearing problems
- Height and weight
- Hepatomegaly or splenomegaly

#### IV. Dosage and Administration

Indication	Dosing Regimen	Maximum Dose
MPS IVA	2 mg/kg IV once weekly	2 mg/kg/week

## V. Product Availability

Single-use vial: 5 mg/5 mL

## VI. References

- 1. Vimizim Prescribing Information. Novato, CA: BioMarin Pharmaceutical, Inc.; December 2019. Available at <a href="http://www.vimizim.com">http://www.vimizim.com</a>. Accessed January 8, 2025.
- 2. Muenzer J. The mucopolysaccharidoses: a heterogeneous group of disorders with variable pediatric presentations. J Pediatr. 2004; 144(5 Suppl): S27-S34.
- 3. Hendriksz CJ, Berger KI, Giugliani R, et al. International guidelines for the management and treatment of Morquio A syndrome. Am J Med Genet A. 2015; 167(1): 11-25.

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- 4. Akyol MU, Alden TD, Amartino H, et al. Recommendations for the management of MPS IVA: systematic evidence- and consensus-based guidance. Orphanet J of Rare Dis 2019;14(137):1-25.
- 5. Stapleton M, Hoshina H, Sawamoto K, et al. Critical review of current MPS guidelines and management. Molecular Genetics and Metabolism. 2019;126:238-45.
- Sawamoto K, Alvarez Gonzalez JV, Piechnik M, et al. Mucopolysaccharidosis IVA: diagnosis, treatment, and management. Intl J Molecular Sciences. 2020;21:1517; doi:10.3390/ijms21041517.

#### **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-todate sources of professional coding guidance prior to the submission of claims for reimbursement of covered services.

HCPCS Codes	Description
J1322	Injection, elosulfase alfa, 1 mg

Reviews, Revisions, and Approvals	Date
2Q 2018 annual review: age restriction added; references reviewed and	02/2018
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: added requirement for documentation of current	04/2022
weight for dose calculation purposes; references reviewed and updated.	
2Q 2023 annual review: no significant changes; references reviewed and	04/2023
updated.	
2Q 2024 annual review: no significant changes; references reviewed and	04/2024
updated.	
2Q 2025 annual review: no significant changes; references reviewed and	04/2025
updated.	