

Drug Coverage Policy

| Effective Date | 8/1/2024 |
|------------------------|----------|
| Coverage Policy Number | IP0445 |
| Policy TitleA | durazyme |

Enzyme Replacement Therapy – Aldurazyme

• Aldurazyme® (laronidase intravenous infusion – Genzyme)

INSTRUCTIONS FOR USE

The following Coverage Policy applies to health benefit plans administered by Cigna Companies. Certain Cigna Companies and/or lines of business only provide utilization review services to clients and do not make coverage determinations. References to standard benefit plan language and coverage determinations do not apply to those clients. Coverage Policies are intended to provide quidance in interpreting certain standard benefit plans administered by Cigna Companies. Please note, the terms of a customer's particular benefit plan document [Group Service Agreement, Evidence of Coverage, Certificate of Coverage, Summary Plan Description (SPD) or similar plan document] may differ significantly from the standard benefit plans upon which these Coverage Policies are based. For example, a customer's benefit plan document may contain a specific exclusion related to a topic addressed in a Coverage Policy. In the event of a conflict, a customer's benefit plan document always supersedes the information in the Coverage Policies. In the absence of a controlling federal or state coverage mandate, benefits are ultimately determined by the terms of the applicable benefit plan document. Coverage determinations in each specific instance require consideration of 1) the terms of the applicable benefit plan document in effect on the date of service; 2) any applicable laws/regulations; 3) any relevant collateral source materials including Coverage Policies and; 4) the specific facts of the particular situation. Each coverage request should be reviewed on its own merits. Medical directors are expected to exercise clinical judgment and have discretion in making individual coverage determinations. Coverage Policies relate exclusively to the administration of health benefit plans. Coverage Policies are not recommendations for treatment and should never be used as treatment quidelines. In certain markets, delegated vendor quidelines may be used to support medical necessity and other coverage determinations.

Cigna Healthcare Coverage Policy

Aldurazyme, a human α -L-iduronidase, is indicated for **Hurler and Hurler-Scheie forms of Mucopolysaccharidosis type I** (MPS I) and in patients with the **Scheie form who have moderate to severe symptoms.**¹

Disease Overview

MPS I is a rare autosomal recessive, lysosomal storage disease characterized by the deficiency of a-L-iduronidase.² Patients with MPS I are unable to degrade dermatan and heparin sulfate, resulting in the accumulation of glycosoaminoglycans within lysosomes. Over time, the accumulation of glycosoaminoglycans leads to progressive tissue damage,³ ultimately resulting in multiorgan dysfunction.^{2,3} Patients with MPS I commonly have a characteristic face, corneal clouding, cardiomyopathy, enlarged tongue, respiratory insufficiency, hepatosplenomegaly, hernias, dysostosis multiplex, joint stiffness, and cognitive impairment.^{4,5} MPS I is commonly classified as

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Specific treatments for MPS I include hematopoietic stem cell transplantation (HSCT) and enzyme replacement therapy. PSCT is indicated for the severe forms of MPS I, in children < 2 years of age who are cognitively intact. HSCT has been shown to preserve intellectual development, reverse some aspects of somatic disease and increase survival. Enzyme replacement therapy (Aldurazyme) does not cross the blood-brain barrier and is unlikely to improve cognitive or neurologic function. Therefore, Aldurazyme is appropriate in children < 2 years of age who have already experienced cognitive decline, or who are cognitively intact with severe physical disease prior to HSCT to improve their health. Aldurazyme is also recommended in older patients with or without cognitive or neurologic decline.

Medical Necessity Criteria

Aldurazyme is considered medically necessary when the following are met:

FDA-Approved Indication

- **1.** Mucopolysaccharidosis Type I (Hurler Syndrome, Hurler-Scheie Syndrome, and Scheie Syndrome). Approve for 1 year if the patient meets BOTH of the following (A <u>and</u> B):
 - **A)** The diagnosis is established by ONE of the following (i or ii):
 - i. Patient has a laboratory test demonstrating deficient α-L-iduronidase activity in leukocytes, fibroblasts, plasma, or serum; OR
 - **ii.** Patient has a molecular genetic test demonstrating biallelic pathogenic or likely pathogenic a-L-iduronidase (*IDUA*) gene variants; AND
 - **B)** Aldurazyme is prescribed by or in consultation with a geneticist, endocrinologist, a metabolic disorder sub-specialist, or a physician who specializes in the treatment of lysosomal storage disorders.

Dosing. Each dose must not exceed 0.58 mg/kg administered intravenously no more frequently than once weekly.

When coverage is available and medically necessary, the dosage, frequency, duration of therapy, and site of care should be reasonable, clinically appropriate, and supported by evidence-based literature and adjusted based upon severity, alternative available treatments, and previous response to therapy.

Receipt of sample product does not satisfy any criteria requirements for coverage.

Conditions Not Covered

Any other use is considered experimental, investigational, or unproven (criteria will be updated as new published data are available).

Coding / Billing Information

Note:

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- 1) This list of codes may not be all-inclusive.
- 2) Deleted codes and codes which are not effective at the time the service is rendered may not be eligible for reimbursement.

Considered Medically Necessary when criteria in the applicable policy statements listed above are met:

| HCPCS Codes | Description |
|----------------|-------------------------------|
| J1931 | Injection, laronidase, 0.1 mg |

References

- 1. Aldurazyme[®] intravenous infusion [prescribing information]. Novato, CA: Genzyme; December 2023.
- 2. Muenzer J, Wraith JE, Clarke LA, et al. Mucopolysaccharidosis I: Management and treatment guidelines. *Pediatrics*. 2009;123:19-29.
- 3. Clarke LA, Atherton AM, Burton BK, et al. Mucopolysaccharidosis type I newborn screening: Best practices for diagnosis and management. *J Pediatr*. 2017;182:363-370.
- 4. Giugliani R, Federhen A, Munoz Rojas MV, et al. Mucopolysaccharidosis I, II, and VI: Brief review and guidelines for treatment. *Genet Mol Biol*. 2010;33:589-604.
- 5. Martins AM, Dualibi AP, Norato D, et al. Guidelines for the management of mucopolysaccharidosis type I. *J Pediatr*. 2009;155(Suppl 2):S32-S46.

Revision Details

| Type of Revision | Summary of Changes | Date |
|------------------|---|----------|
| Annual Review | Mucopolysaccharidosis Type I (Hurler Syndrome, Hurler-Scheie Syndrome, and Scheie Syndrome). Removed: ONE of the following forms: Severe Mucopolysaccharidosis I (MPS I) or Attenuated Mucopolysaccharidosis I (MPS I) with moderate to severe symptoms Added dosing Title change from Laronidase. | 8/1/2024 |

The policy effective date is in force until updated or retired.

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