



Drug Coverage Policy

Effective Date 7/15/2025

Coverage Policy Number IP0445

Policy Title Aldurazyme

Enzyme Replacement Therapy – Aldurazyme

- Aldurazyme® (Iaronidase 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 guidance 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 where appropriate and have discretion in making individual coverage determinations. Where coverage for care or services does not depend on specific circumstances, reimbursement will only be provided if a requested service(s) is submitted in accordance with the relevant criteria outlined in the applicable Coverage Policy, including covered diagnosis and/or procedure code(s). Reimbursement is not allowed for services when billed for conditions or diagnoses that are not covered under this Coverage Policy (see "Coding Information" below). When billing, providers must use the most appropriate codes as of the effective date of the submission. Claims submitted for services that are not accompanied by covered code(s) under the applicable Coverage Policy will be denied as not covered. 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 guidelines. In certain markets, delegated vendor guidelines may be used to support medical necessity and other coverage determinations.

OVERVIEW

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 α -L-iduronidase.² Patients with MPS I are unable to degrade dermatan and heparin sulfate, resulting in the accumulation of glycosaminoglycans within lysosomes. Over time, the accumulation of glycosaminoglycans 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 three separate entities, Hurler syndrome (severe form), Hurler-Scheie syndrome (intermediate form) and Scheie syndrome (mild form).²⁻⁴ However, this classification system is based on disease severity and age of onset, not on any biochemical differences between the three syndromes.⁵ All three forms of the disease are the result of the same enzymatic deficiency and represent varying degrees of severity along the disease continuum. The definitive diagnosis of MPS I is based on demonstrating deficient α -L-iduronidase activity in fibroblasts, leukocytes, plasma, or serum.^{2,3,5}

Specific treatments for MPS I include hematopoietic stem cell transplantation (HSCT) and enzyme replacement therapy.^{2,4,5} HSCT is indicated for the severe forms of MPS I, in children < 2 years of age who are cognitively intact.^{2,4} HSCT has been shown to preserve intellectual development, reverse some aspects of somatic disease and increase survival.^{2,4,5} Enzyme replacement therapy (Aldurazyme) does not cross the blood-brain barrier and is unlikely to improve cognitive or neurologic function.² 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.

Coverage Policies

POLICY STATEMENT

Prior Authorization is required for benefit coverage of Aldurazyme. Approval is recommended for those who meet the Criteria and Dosing for the listed indication. Extended approvals are allowed if the patient continues to meet the Criteria and Dosing. Requests for doses outside of the established dosing documented in this policy will be considered on a case-by-case basis by a clinician (i.e., Medical Director or Pharmacist). All approvals are provided for the duration noted below. Because of the specialized skills required for evaluation and diagnosis of patients treated with Aldurazyme as well as the monitoring required for adverse events and long-term efficacy, approval requires Aldurazyme to be prescribed by or in consultation with a physician who specializes in the condition being treated.

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 and 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 α -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

Aldurazyme for any other use is considered not medically necessary. Criteria will be updated as new published data are available.

Coding Information

Note: 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:

HCPSC 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 Revision	Mucopolysaccharidosis Type I (Hurler Syndrome, Hurler-Scheie Syndrome, and Scheie Syndrome). Removed: ONE of the following forms: Severe Mucopolysaccharidosis I (MPS I) or Attenuated	8/1/2024

	Mucopolysaccharidosis I (MPS I) with moderate to severe symptoms Added dosing Title change from Laronidase.	
Annual Revision	No criteria changes.	7/15/2025

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

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