

# **Drug Coverage Policy**

Effective Date	10/1/2025
Coverage Policy Number	IP0308
Policy Title	Strensiq

# **Enzyme Replacement Therapy – Strensiq**

• Strensiq® (asfotase alfa subcutaneous injection – Alexion)

#### 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 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 quidelines. In certain markets, delegated vendor quidelines may be used to support medical necessity and other coverage determinations.

#### **OVERVIEW**

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Strensiq, a tissue non-specific alkaline phosphatase (TNSALP), is indicated for the treatment of patients with **perinatal/infantile- and juvenile-onset hypophosphatasia** (HPP).<sup>1</sup> Strensiq is an enzyme replacement therapy which replaces human TNSALP.

#### **Disease Overview**

HPP is an inherited metabolic disease caused by a loss-of-function pathogenic variant in the gene which codes for TNSALP.<sup>2</sup> TNSALP is tissue-bound and expressed in high concentrations in the liver, kidney, neurons, neutrophils, bone, and teeth.<sup>2,3</sup> In HPP, inorganic pyrophosphate and pyridoxal 5'-phosphate, substrates for TNSALP, are increased and lead to disease manifestations. Inorganic pyrophosphate is an inhibitor of bone mineralization, and its accumulation leads to rickets and osteomalacia. Pyridoxal 5'-phosphate, a derivative of vitamin B<sub>6</sub>, is necessary for the synthesis of gamma aminobutyric acid (GABA). However, for pyridoxal 5'-phosphate to enter the neuron, it must be dephosphorylated to allow pyridoxal to enter the neuron where it is rephosphorylated. The decreased synthesis of GABA in HPP leads to seizures.

HPP is a rare disease, with an estimated live-birth incidence, for the severe forms of HPP, of 1:100,000 in Canada and approximately 1:300,000 in Europe. Prevalence in certain populations, such as Canadian Mennonites, may be as high as 1:2,500 births. Disease severity can range from neonatal death with almost no skeletal mineralization to dental problems in adults without any bone symptoms. In patients most severely affected by HPP, mortality ranges from 50% to nearly 100% during infancy.

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#### **POLICY STATEMENT**

Prior Authorization is required for benefit coverage of Strensiq. All approvals are provided for the duration noted below. Because of the specialized skills required for evaluation and diagnosis of patients treated with Strensiq as well as the monitoring required for adverse events and long-term efficacy, approval requires Strensiq to be prescribed by or in consultation with a physician who specializes in the condition being treated.

<u>Documentation</u>: Documentation is required where noted in the criteria as **[documentation required]**. Documentation may include, but is not limited to, chart notes, laboratory tests, claims records, and/or other information.

Strensig is considered medically necessary when the following are met:

#### **FDA-Approved Indication**

- **1. Hypophosphatasia Perinatal/Infantile- and Juvenile-Onset.** Approve for 1 year if the patient meets ALL the following (A, B, C, and D):
  - **A)** Diagnosis is supported by ONE of the following (i, ii, or iii):
    - Molecular genetic testing documenting pathogenic tissue non-specific alkaline phosphatase (ALPL) gene variants [documentation required]; OR
    - ii. Low baseline serum alkaline phosphatase activity [documentation required]; OR
    - **iii.** An elevated level of a tissue non-specific alkaline phosphatase substrate (i.e., serum pyridoxal 5'-phosphate, serum, or urinary inorganic pyrophosphate, urinary phosphoethanolamine) **[documentation required]**;; AND
  - **B)** Patient meets ONE of the following (i or ii):
    - **i.** Patient currently has, or has a history of, clinical manifestations consistent with hypophosphatasia; OR

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<u>Note</u>: Examples of clinical manifestations include skeletal abnormalities, premature tooth loss, muscle weakness, poor feeding, failure to thrive, respiratory problems, vitamin  $B_6$ -dependent seizures.

- **ii.** Patient has a family history (parent or sibling) of hypophosphatasia without current clinical manifestations of hypophosphatasia; AND
- C) Disease onset < 18 years of age; AND
- **D)** Strensiq is prescribed by or in consultation with a geneticist, endocrinologist, a metabolic disorder sub-specialist, or a physician who specializes in the treatment of hypophosphatasia or related disorders.

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**

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

## **Coding Information**

- 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
C9399	Unclassified drugs or biologicals
J3590	Unclassified biologics

### References

- 1. Strensiq® subcutaneous injection [prescribing information]. Cheshire, CT: Alexion; July 2024.
- 2. Whyte MP. Hypophosphatasia: Enzyme Replacement Therapy Brings New Opportunities and New Challenges. *J Bone Miner Res.* 2017;32:667-675.
- 3. Orima H. Pathophysiology of Hypophosphatasia and the Potential Role of Asfotase Alfa. *Ther Clin Risk Manag.* 2016;12:777-786.
- 4. Millan JL, Plotkin H. Hypophosphatasia Pathophysiology and Treatment. *Actual Osteol*. 2012;8:164-182.

## **Revision Details**

Type of Revision	Summary of Changes	Date
Annual Revision	<b>Updated</b> coverage policy title from "Asfotase alfa"	11/1/2024
	to "Enzyme Replacement Therapy - Strensiq"	

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	Hypophosphatasia – Perinatal/Infantile- and Juvenile-Onset: Added criterion "an elevated level of a tissue nonspecific alkaline phosphatase substrate (i.e., serum pyridoxal 5'-phosphate, serum, or urinary inorganic pyrophosphate, urinary phosphoethanolamine)" for diagnosis of perinatal/infantile-onset or juvenile-onset hypophosphatasia (HPP).  For diagnosis by genetic testing, rephrased the term "mutation" to "pathogenic variant".	
Annual Revision	Added a policy statement. Added documentation requirements. Updated the conditions not covered statement.	10/01/2025

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

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