POLICY: Enzyme Replacement Therapy – Naglazyme® (galsulfase injection for intravenous use – BioMarin Pharmaceuticals)

APPROVAL DATE: 04/17/2019

OVERVIEW
Naglazyme (galsulfase) is human N-acetylgalactosamine 4-sulfatase, produced in a Chinese hamster ovary cell line via recombinant DNA technology.1 The enzyme catalyzes the hydrolysis of the sulfate ester from the glycosaminoglycans, chondroitin 4-sulfate and dermatan sulfate.

Naglazyme is indicated for patients with Mucopolysaccharidosis type VI (Maroteaux – Lamy syndrome [MPS VI]).1 Naglazyme has been shown to improve walking and stair climbing capacity.

Disease Overview
MPS VI, or Maroteaux – Lamy syndrome, is a rare lysosomal storage disorder characterized by a deficiency of N-acetylgalactosamine 4-sulfatase (arylsulfatase B).2,3 The enzyme deficiency results in the accumulation of partially hydrolyzed dermatan sulfate and chondroitin 4-sulfate in lysosomes leading to the signs and symptoms of the disease.2,3 The onset, severity and rate of progression of MPS VI is heterogeneous; however, most patients are severely affected with a rapidly progressive form.3 Clinical manifestations include course facial features, short stature, kyphoscoliosis, joint stiffness, pulmonary insufficiency, cardiac disease, hepatosplenomegaly, corneal clouding, and hernias.2,3 The definitive diagnosis of MPS VI is established by demonstrating deficient arylsulfatase B enzyme activity in leukocytes or fibroblasts, or by genetic testing.2,3 Definitive treatment of MPS VI consists of either enzyme replacement therapy (ERT) with Naglazyme or hematopoietic stem cell transplantation (HSCT). Due to the morbidity and mortality associated with HSCT, this therapy is typically reserved for patients who are intolerant of or do not respond to ERT.2

POLICY STATEMENT
Prior authorization is recommended for medical benefit coverage of Naglazyme. Approval is recommended for those who meet the Criteria and Dosing for the listed indication(s). 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 Naglazyme as well as the monitoring required for adverse events and long-term efficacy, approval requires Naglazyme to be prescribed by or in consultation with a physician who specializes in the condition being treated.

RECOMMENDED AUTHORIZATION CRITERIA
Coverage of Naglazyme is recommended in those who meet the following criteria:

FDA-Approved Indications
1. Mucopolysaccharidosis Type VI (Maroteaux – Lamy Syndrome). Approve for 1 year if the patient meets the following criteria (A and B):
A) The diagnosis is established by one of the following (i or ii):
   i. Patient has a laboratory test demonstrating deficient N-acetylgalactosamine 4-sulfatase (aryl sulfatase B) activity in leukocytes or fibroblasts; OR
   ii. Patient has a molecular genetic test demonstrating aryl sulfatase B gene mutation; AND
B) Naglazyme 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. Approve up to 1 mg/kg administered intravenously no more frequently than once weekly.¹

CONDITIONS NOT RECOMMENDED FOR APPROVAL
Naglazyme has not been shown to be effective, or there are limited or preliminary data or potential safety concerns that are not supportive of general approval for the following conditions.

1. Coverage is not recommended for circumstances not listed in the Recommended Authorization Criteria. Criteria will be updated as new published data are available.

REFERENCES

HISTORY

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