PHARMACY POLICY STATEMENT
North Carolina Marketplace

DRUG NAME	Lumizyme (alglucosidase alfa)
BENEFIT TYPE	Medical
STATUS	Prior Authorization Required

Lumizyme is an enzyme replacement therapy for the treatment of Pompe disease, also known as acid alpha-glucosidase (GAA) deficiency or glycogen storage disease type II. Pompe disease is a rare, genetic lysosomal storage disorder that results in the buildup of glycogen in cell lysosomes causing serious and life-threatening muscle damage and weakness. Lumizyme replaces the deficient GAA enzyme to reduce the glycogen accumulation.

Pompe disease can be broadly classified as infantile-onset within the first few months of life (IOPD) or late-onset beyond infancy (LOPD). Classic IOPD is rapidly progressive with severe cardiomyopathy. Non-classic IOPD progresses slower with less severe cardiomyopathy. LOPD does not typically present with cardiomyopathy and has more variable symptoms, especially skeletal muscle weakness.

Lumizyme (alglucosidase alfa)

DATE	ACTION/DESCRIPTION
07/07/2021	New policy for Lumizyme created.
11/09/2022	Annual review; no changes.
11/22/2023	Annual review; no changes.

References:

1. Lumizyme [prescribing information]. Cambridge, MA: Genzyme Corporation; 2023.
2. Chen M, Zhang L, Quan S. Enzyme replacement therapy for infantile-