

Reference number(s)
1877-A

## **SPECIALTY GUIDELINE MANAGEMENT** **Alpha<sub>1</sub>-Proteinase Inhibitors**

**ARALAST NP (alpha<sub>1</sub>-proteinase inhibitor [human])**  
**GLASSIA (alpha<sub>1</sub>-proteinase inhibitor [human])**  
**PROLASTIN-C (alpha<sub>1</sub>-proteinase inhibitor [human])**  
**ZEMAIRA (alpha<sub>1</sub>-proteinase inhibitor [human])**

### **POLICY**

#### **I. INDICATIONS**

The indications below including FDA-approved indications and compendial uses are considered a covered benefit provided that all the approval criteria are met and the member has no exclusions to the prescribed therapy.

##### FDA-Approved Indications

1. Aralast NP  
Chronic augmentation therapy in adults with clinically evident emphysema due to severe congenital deficiency of alpha<sub>1</sub>-proteinase inhibitor (alpha<sub>1</sub>-antitrypsin deficiency)
2. Glassia  
Chronic augmentation and maintenance therapy in adults with clinically evident emphysema due to severe hereditary deficiency of alpha<sub>1</sub>-proteinase inhibitor (alpha<sub>1</sub>-antitrypsin deficiency)
3. Prolastin-C  
Chronic augmentation and maintenance therapy in adults with clinical evidence of emphysema due to severe hereditary deficiency of alpha<sub>1</sub>-proteinase inhibitor (alpha<sub>1</sub>-antitrypsin deficiency)
4. Zemaira  
Chronic augmentation and maintenance therapy in adults with alpha<sub>1</sub>-proteinase inhibitor deficiency and clinical evidence of emphysema

All other indications are considered experimental/investigational and not medically necessary.

#### **II. DOCUMENTATION**

Submission of the following information is necessary to initiate the prior authorization review:

- A. Pretreatment serum alpha<sub>1</sub>-antitrypsin (AAT) level
- B. Pretreatment post-bronchodilation forced expiratory volume in 1 second (FEV<sub>1</sub>)
- C. AAT protein phenotype or genotype

#### **III. CRITERIA FOR INITIAL APPROVAL**

Reference number(s)
1877-A

Authorization of 12 months may be granted for treatment of emphysema due to alpha<sub>1</sub>-antitrypsin (AAT) deficiency when all of the following criteria are met:

- A. The member's pretreatment serum AAT level is less than 11 micromol/L (80 mg/dL by radial immunodiffusion or 50 mg/dL by nephelometry).
- B. The member's pretreatment post-bronchodilation forced expiratory volume in 1 second (FEV<sub>1</sub>) is greater than or equal to 25% and less than or equal to 80% of the predicted value.
- C. The member has a documented PiZZ, PiZ (null), or Pi (null, null) (homozygous) AAT deficiency or other phenotype or genotype associated with serum AAT concentrations of less than 11 micromol/L (80 mg/dL by radial immunodiffusion or 50 mg/dL by nephelometry).
- D. The member does not have the PiMZ or PiMS AAT deficiency.

#### IV. CONTINUATION OF THERAPY

Authorization of 12 months may be granted for continued treatment of emphysema due to alpha<sub>1</sub>-antitrypsin (AAT) deficiency when the member is experiencing beneficial clinical response from therapy.

#### V. OTHER

Note: If the member is a current smoker, they should be counseled on the harmful effects of smoking on pulmonary conditions and available smoking cessation options.

#### VI. REFERENCES

1. Aralast NP [package insert]. Lexington, MA: Baxalta US Inc.; March 2023.
2. Glassia [package insert]. Lexington, MA: Takeda Pharmaceuticals US Inc.; September 2023.
3. Prolastin-C Liquid [package insert]. Research Triangle Park, NC: Grifols Therapeutics LLC.; May 2020.
4. Prolastin-C [package insert]. Research Triangle Park, NC: Grifols Therapeutics LLC.; January 2022.
5. Zemaira [package insert]. Kankakee, IL: CSL Behring LLC; September 2022.
6. American Thoracic Society/European Respiratory Society statement: standards for the diagnosis and management of individuals with alpha-1 antitrypsin deficiency. *Am J Respir Crit Care Med.* 2003;168:818-900.
7. Marciniuk DD, Hernandez P, Balter M, et al. Alpha-1 antitrypsin deficiency targeted testing and augmentation therapy: a Canadian Thoracic Society clinical practice guideline. *Can Respir J.* 2012;19:109-116.
8. Sandhaus RA, Turino G, Brantly ML, et al. The diagnosis and management of alpha-1 antitrypsin deficiency in the adult. *Chronic Obstr Pulm Dis.* 2016;3(3):668-82.