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<b>Section:</b>	Prescription Drugs	<b>Effective Date:</b>	January 1, 2026
<b>Subsection:</b>	Respiratory Agents	<b>Original Policy Date:</b>	July 21, 2017
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**Last Review Date:** December 12, 2025

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## Alpha<sub>1</sub>-Proteinase Inhibitors

### Description

Aralast NP, Glassia, Prolastin-C, Zemaira

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### Background

Aralast NP, Glassia, Prolastin-C, and Zemaira are intravenous infusions indicated for individuals with clinically evident emphysema due to severe deficiency of Alpha<sub>1</sub>-PI, also known as alpha<sub>1</sub>-antitrypsin (AAT) deficiency. These medications increase antigenic and functional (anti-neutrophil elastase capacity, ANEC) serum levels and antigenic lung epithelial lining fluid levels of Alpha<sub>1</sub>-PI. Intravenous administration of purified preparations of pooled donor-derived human AAT has been shown to augment levels of AAT and the AAT-related anti-elastase capacity of serum and lung epithelial lining fluid. The current U.S. Food and Drug Administration (FDA)-approved intravenous augmentation therapy dose for chronic administration is 60 mg/kg body weight, administered weekly (1-6).

### Regulatory Status

FDA-approved indications: Aralast NP, Glassia, Prolastin-C, and Zemaira are indicated for chronic augmentation therapy in individuals with clinically evident emphysema due to severe congenital deficiency of alpha<sub>1</sub>-PI (1-4).

The safety of Alpha<sub>1</sub>-Proteinase Inhibitors in patients with severe renal impairment (creatinine clearance (CrCl) less than 30 mL/min) or end-stage renal disease has not been studied. The safety of Alpha<sub>1</sub>-Proteinase Inhibitors in patients with moderate to severe hepatic impairment has not been studied (1-4).

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Intravenous augmentation therapy is recommended for individuals with AATD and an FEV1 in the range of 30%-65% predicted (strong recommendation, high quality evidence) (6).

High value is placed on the potential to prolong survival in this group, the finding that intravenous augmentation therapy is associated with lower levels of elastin degradation products in individuals with AATD, and lower rates of loss of CT lung density in individuals with AATD-COPD receiving augmentation therapy. Low value is placed on the cost of this therapy (6).

The safety and effectiveness of Alpha<sub>1</sub>-Proteinase Inhibitors in pediatric patients have not been established (1-4).

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## Related policies

### Policy

*This policy statement applies to clinical review performed for pre-service (Prior Approval, Precertification, Advanced Benefit Determination, etc.) and/or post-service claims.*

Aralast NP, Glassia, Prolastin-C, and Zemaira may be considered **medically necessary** if the conditions indicated below are met.

Aralast NP, Glassia, Prolastin-C, and Zemaira may be considered **investigational** for all other indications.

## Prior-Approval Requirements

**Age** 18 years of age and older

### Diagnosis

Patient must have the following:

1. Emphysema
  - a. Clinically documented alpha<sub>1</sub>-antitrypsin (AAT) deficiency

**AND ALL** of the following for Aralast NP, Glassia, and Zemaira **ONLY**:

1. Patient has a pretreatment serum AAT level less than 11 µM/L (80 mg/dl by radial immunodiffusion or 50 mg/dl by nephelometry)

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2. Patient must **NOT** be a current smoker
3. Documented progressive emphysema with **ONE** of the following:
  - a. Moderate airflow obstruction is evidenced by forced expiratory volume (FEV<sub>1</sub>) of 30-65% of predicted value, prior to initiation of therapy
  - b. Individual has a rapid decline in lung function as measured by a change in FEV<sub>1</sub> greater than 120 ml/year
  - c. FEV<sub>1</sub> of >65% predicted with bronchiectasis with one or more severe exacerbations resulting in ED visit or hospitalization within the last year
4. If adjudicated through the pharmacy benefit: Inadequate treatment response, intolerance, or contraindication to Prolastin-C

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## Prior – Approval *Renewal* Requirements

**Age** 18 years of age and older

### Diagnosis

Patient must have the following:

1. Emphysema

**AND ALL** of the following for Aralast NP, Glassia, and Zemaira **ONLY**:

1. Patient must **NOT** be a current smoker
2. Clinical evidence of efficacy with **ONE** of the following:
  - a. Elevation of AAT levels (above protective threshold)
  - b. Reduction in rate of deterioration of lung function with a reduction in FEV<sub>1</sub> rate of decline
3. If adjudicated through the pharmacy benefit: Inadequate treatment response, intolerance, or contraindication to Prolastin-C

### Policy Guidelines

## Pre - PA Allowance

None

## Prior - Approval Limits

**Duration** 3 months

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## Prior – Approval *Renewal* Limits

**Duration** 12 months

### Rationale

#### Summary

Aralast NP, Glassia, Prolastin-C, and Zemaira are intravenous infusions indicated for individuals with clinically evident emphysema due to severe deficiency of Alpha<sub>1</sub>-PI, also known as alpha<sub>1</sub>-antitrypsin (AAT) deficiency. The safety of Alpha<sub>1</sub>-Proteinase Inhibitors in patients with severe renal impairment (creatinine clearance less than 30 mL/min), end-stage renal disease or moderate to severe hepatic impairment has not been studied. The safety and effectiveness of Alpha<sub>1</sub>-Proteinase Inhibitors in pediatric patients have not been established (1-4).

Prior authorization is required to ensure the safe, clinically appropriate, and cost-effective use of Aralast NP, Glassia, Prolastin-C, and Zemaira while maintaining optimal therapeutic outcomes.

#### References

1. Aralast NP [package insert]. Westlake Village, CA: Baxalta US Inc.; May 2025.
2. Glassia [package insert]. Westlake Village, CA: Baxalta US Inc.; February 2025.
3. Prolastin-C [package insert]. Research Triangle Park, NC: Grifols Therapeutics LLC; May 2020.
4. Zemaira [package insert]. Kankakee, IL: CSL Behring LLC; January 2024.
5. Stoller JK, Rouhani F, Brantly M, et al. Biochemical efficacy and safety of a new pooled human plasma  $\alpha$ 1-antitrypsin, Respitin. CHEST. 2002;122:66-74.
6. Sandhaus R, Turino G, et al. The Diagnosis and Management of Alpha-1 Antitrypsin Deficiency in the Adult. Journal of the COPD Foundation. Volume 3 Number 3, 2016.

### Policy History

Date	Action
July 2017	Addition to PA
September 2017	Annual review and reference update
March 2018	Annual review and reference update
March 2019	Annual review and reference update
March 2020	Annual review and reference update
March 2021	Annual review
March 2022	Annual review

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December 2022	Annual review. Revised requirements so Prolastin-C only needs a diagnosis of emphysema and documented AAT deficiency. Added requirement that non-preferred medications must t/f preferred product Prolastin-C. Per SME, added "FEV <sub>1</sub> of >65% predicted with bronchiectasis with one or more severe exacerbations resulting in ED visit or hospitalization within the last year" as evidence of progressive emphysema
March 2023	Annual review
December 2023	Annual review
March 2024	Annual review and reference update
September 2024	Annual editorial review. Per FEP, added "if adjudicated through the pharmacy benefit" to Medex requirement for 2025
December 2024	Annual review
March 2025	Annual review and reference update
December 2025	Annual review and reference update. Removed MedEx requirement and switched to t/f

### Keywords

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**This policy was approved by the FEP® Pharmacy and Medical Policy Committee on December 12, 2025 and is effective on January 1, 2026.**