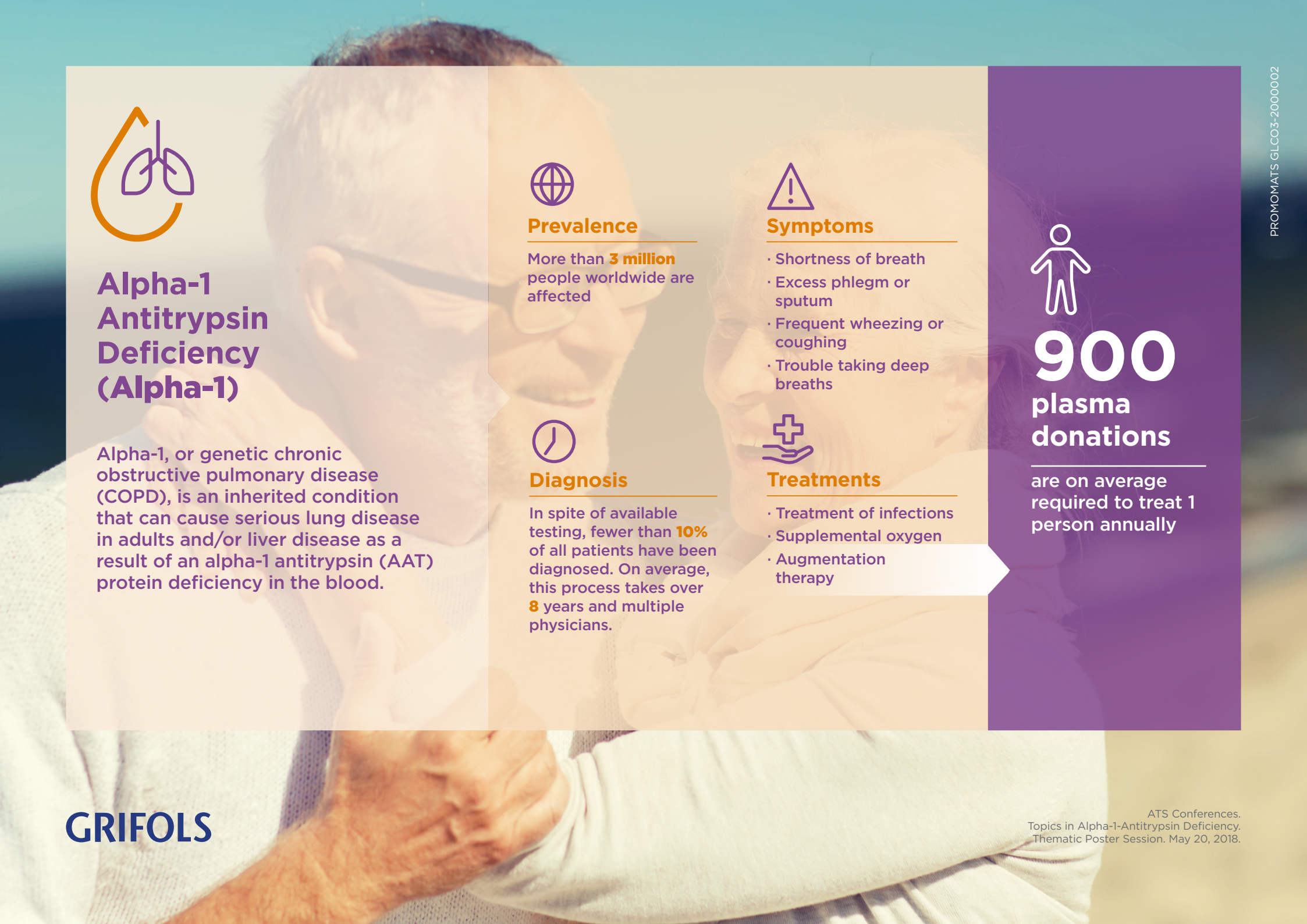

Alpha-1 Antitrypsin Deficiency (Alpha-1)

Alpha-1, or genetic chronic obstructive pulmonary disease (COPD), is an inherited condition that can cause serious lung disease in adults and/or liver disease as a result of an alpha-1 antitrypsin (AAT) protein deficiency in the blood.

Prevalence

More than **3 million** people worldwide are affected

Diagnosis

In spite of available testing, fewer than **10%** of all patients have been diagnosed. On average, this process takes over **8** years and multiple physicians.

Symptoms

- Shortness of breath
- Excess phlegm or sputum
- Frequent wheezing or coughing
- Trouble taking deep breaths

Treatments

- Treatment of infections
- Supplemental oxygen
- Augmentation therapy

900

plasma donations

are on average required to treat 1 person annually

GRIFOLS

ATS Conferences.
Topics in Alpha-1-Antitrypsin Deficiency.
Thematic Poster Session. May 20, 2018.

PROMOMATS GLCO3-2000002