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# Epiomic Epidemiology Series: Alpha-1 anti-trypsin deficiency Forecast in 18 Major Markets 2018–2028

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## Abstracts

Black Swan Analysis Epiomic Epidemiology Forecast Report on Alpha-1 Anti-Trypsin Deficiency Forecast in 18 Major Markets

Alpha-1 anti-trypsin deficiency (AATD) is an inherited, rare condition that causes a complete or partial reduction in the activity of alpha-1 anti-trypsin (AAT) in blood and lungs, which leads to the deposition of excessive abnormal AAT protein in liver cells. AAT protects tissues from enzymes produced by inflammatory cells, especially neutrophil elastase. In its absence (such as in alpha 1-anti-trypsin deficiency), neutrophil elastase is free to break down elastin, which contributes to the elasticity of the lungs. This results in respiratory complications, such as COPD (chronic obstructive pulmonary disease) in adults and cirrhosis of the liver in adults or children.

This report provides the current prevalent population for AATD across 18 Major Markets (USA, Canada, France, Germany, Italy, Spain, UK, Poland, Netherlands, Russia, Turkey, Japan, South Korea, India, Australia, Brazil, Mexico, Argentina) split by gender and 5-year age cohort. In addition to the current prevalence, the report provides an overview of the risk factors, diagnosis and prognosis of the disease, along with specific variations by geography and ethnicity.

Providing a value-added level of insight from the analysis team at Black Swan, AATD patients grouped by comorbidities have been quantified and presented alongside the overall prevalence figures. These sub-populations within the main disease are also included at a country level across the 10-year forecast snapshot.

Main symptoms and co-morbidities of AATD include:

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Cirrhosis

COPD

Lung Cancer

Asthma

Panniculitis

Systemic Vasculitis

This report is built using data and information sourced from the proprietary Epiomic patient segmentation database. To generate accurate patient population estimates, the Epiomic database utilises a combination of several world-class sources that deliver the most up-to-date information form patient registries, clinical trials and epidemiology studies. All of the sources used to generate the data and analysis have been identified in the report.

Reason to buy

Ability to quantify patient populations in global AATD market to target the development of future products, pricing strategies and launch plans.

Further insight into the prevalence of the subdivided types of AATD and identification of patient segments with high potential.

Delivery of more accurate information for clinical trials in study sizing and realistic patient recruitment for various countries.

Better understanding of the impact of specific co-morbid conditions on the prevalent population of AATD patients.

Identification of AATD patient sub-populations that require treatment.

Better understanding of the specific markets that have the largest number of AATD patients.

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