

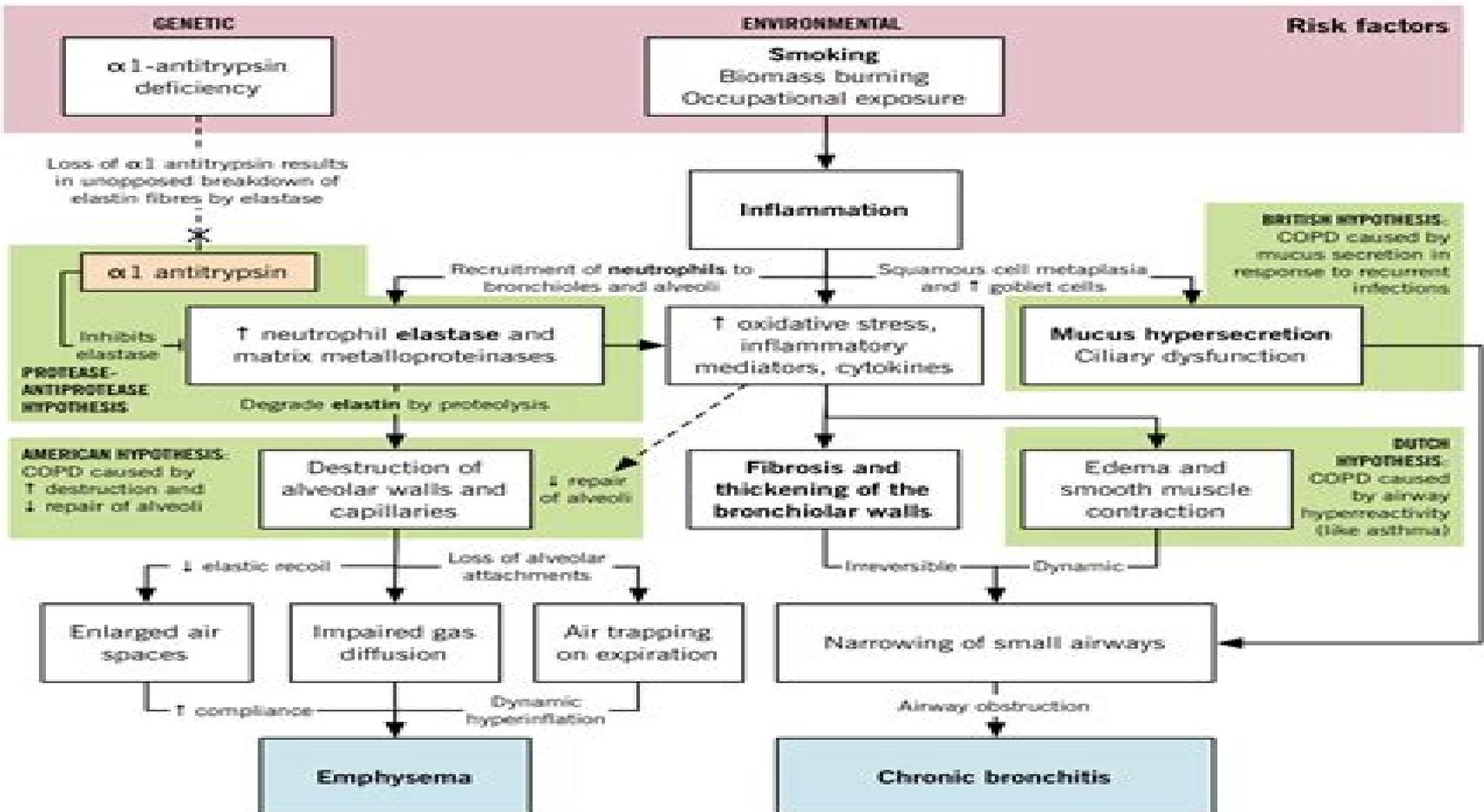
Pathogenesis of COPD

Sources: BMJ. 2006 May 20; 332(7551): 1202-1204.
Semin Respir Crit Care Med. 2005 Apr;26(2):142-53.

COPD arises from environmental exposures, particularly cigarette smoking, in genetically susceptible individuals. Both emphysema and chronic bronchitis arise from similar pathogenic mechanisms.

EMPHYSEMA: Smoking causes inflammation in the airways. Neutrophils and other immune cells are recruited to the small airways, releasing proteases and oxidative species. **Neutrophil elastase** breaks down elastin fibres that normally contributes to the elastic recoil during expiration. $\alpha 1$ antitrypsin is a protease inhibitor that keeps elastase activity in check. **$\alpha 1$ -antitrypsin deficiency** is the best known genetic predisposition to **emphysema**, especially in smokers with this genetic disorder. Impaired gas exchange and air trapping are also features of emphysema.

CHRONIC BRONCHITIS: Inflammation from smoke exposure also causes **fibrosis of the bronchiolar walls, mucus hypersecretion, airway edema, and bronchoconstriction**. These features make up the small airway disease component of COPD, known as **chronic bronchitis**.



Pulmonary Pathophysiology

Michael Seilmaier



Pulmonary Pathophysiology:

Pulmonary Pathophysiology Book Review: Unveiling the Power of Words

In a global driven by information and connectivity, the ability of words has be much more evident than ever. They have the capacity to inspire, provoke, and ignite change. Such could be the essence of the book **Pulmonary Pathophysiology**, a literary masterpiece that delves deep to the significance of words and their effect on our lives. Written by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we will explore the book is key themes, examine its writing style, and analyze its overall effect on readers.

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