

### Bronchiectasis (Obstructive)

**Pathophysiology**

- **Permanent, abnormal dilation** and **destruction** of the **bronchial walls**. Cilia are damaged.
- Onset is usually early in childhood. **Infection in a patient with airway obstruction** or impaired defense or drainage mechanism precipitates the disease.
- Cause is identified in fewer than half of patients. Less common today due to modern antibiotics.

**Causes**

- **CF is the most common** (50% of cases). Infection, alpha1 antitrypsin, post-infectious (TB, aspergillus), rheumatic diseases (RA, Sjogrens), toxins, humoral immunodeficiency (abnormal lung defense), and airway obstruction.

### Bronchiectasis (Obstructive) (cont)

**Symptoms**

- **Chronic cough** with large amounts of **mucopurulent, foul-smelling sputum**.
- Rhino sinusitis. Dyspnea, pleurisy, wheezing, crackles, clubbing.
- **Hemoptysis due to rupture of blood vessels** near bronchial wall surfaces; usually mild and self-limited but sometimes can be brisk and present as an emergency.
- Recurrent or present pneumonia. More likely to have **larger volume of sputum, recurrent fever, hemoptysis, and Pseudomonas** than chronic bronchitis.

**Diagnosis**

- **CT is the study of choice**. Bronchoscopy only in certain cases. CT shows **dilated central bronchi** that are larger than the adjacent pulmonary artery branches, as well as **thickening of the bronchial walls**.

**Pulmonary Function Tests**

- Obstructive pattern.

**CXR**

- Abnormal in most cases with nonspecific findings.

### Bronchiectasis (Obstructive) (cont)

**Treatment**

- Antibiotics for acute exacerbations (infections are signaled by change in quality/quantity of sputum, fever, chest pain).
- Bronchial hygiene with hydration, **chest PT (postural drainage, chest percussion)** to help remove mucus, and inhaled bronchodilators.
- The goal is to prevent complications.
- **Corticosteroids and macrolide to reduce airway inflammation**.

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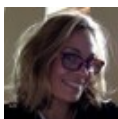
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By [xkissmekatex](#) (kissmekate)

[cheatography.com/kissmekate/](https://cheatography.com/kissmekate/)

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