CHRONIC OBSTRUCTIVE **PUMONARY DISEASE** 🚢 with Ellen Hillegass, PT



WHAT IS IT?

- Chronic Obstructive Pulmonary Disease (COPD) is a term used for a cluster of diseases including emphysema, chronic bronchitis and bronchospasm/ reactive airway disease/ asthma. All diseases have a problem getting air OUT of the lungs. Etiology: smoking, emphysema from genetics
 Pathology of Emphysema

 Destruction of the alveoli cell wall due to problems with surfactant

 Hyperinflated air sacs and hyperinflation of chest wall (barrel chest).

 Present with SOB
 Pathology of Chronic Bronchitis

 Hyperplasia of mucus secreting glands resulting in increased secretions.

 Destruction of infection fighting mechanisms (macrophages, cilia).
 Pathology of Reactive Airway Disease/bronchospasm/ asthma

 Airways constrict and limit air from leaving/entering lungs
 Most patients have mixture of three pathologies.



- Smoking history
 Physical features of chronic cough, hyperinflation of chest, hypertrophied respiratory accessory muscles
 Pulmonary function tests
 Show decreased FEV1 and FEV1/FVC
 Chest X-Ray
 ABGs

DIFFERENTIAL DIAGNOSIS





TREATMENT EXAMPLES

EXAMPLE QUESTION



