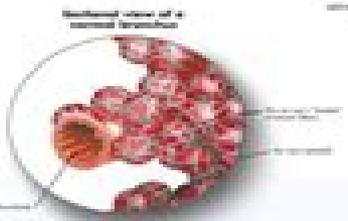


COPD

Chronic Obstructive Pulmonary Disease

COPD is the abbreviation for "chronic obstructive pulmonary disease". The concept covers a group of chronic diseases primarily characterized by diminished breath flow or expiration due to obstruction of the bronchi. Chronic obstructive pulmonary conditions include chronic obstructive bronchitis and lung emphysema, which usually occur in combination, but can exist on their own.



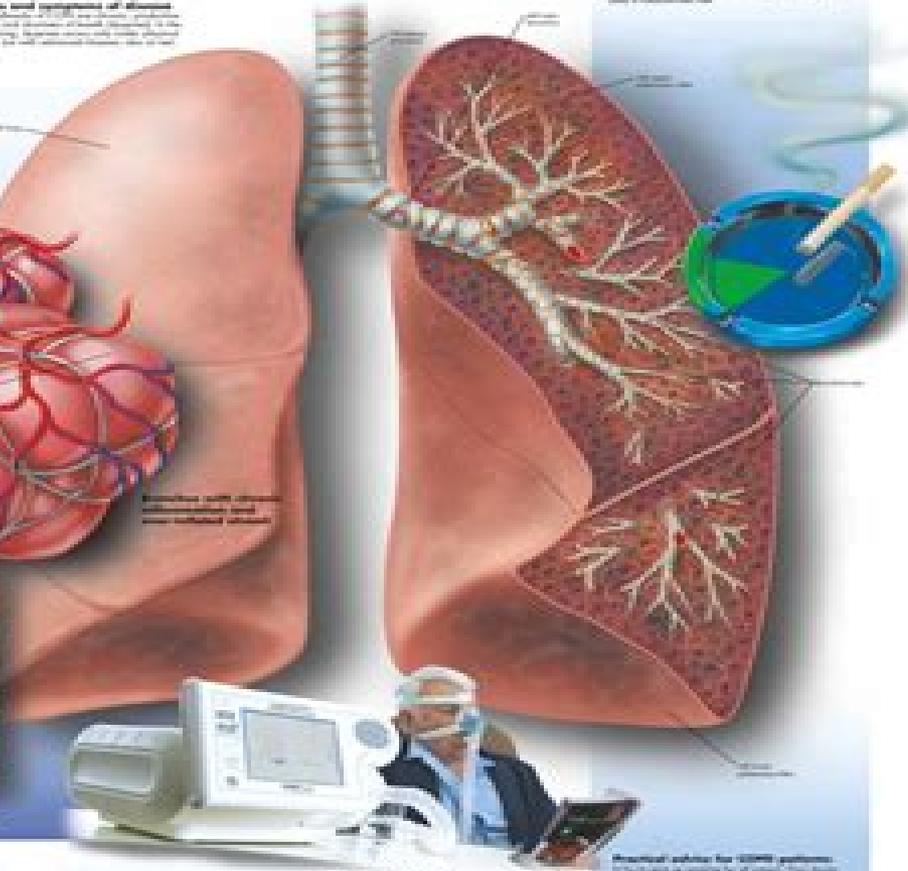
Signs and symptoms of disease
 The signs and symptoms of COPD include chronic cough, sputum production, and shortness of breath. These symptoms are often worse in the morning and after exposure to irritants like cigarette smoke.

Causes of COPD
 COPD is a chronic disease, affecting most or all of the lungs. The most common cause is cigarette smoking. Other causes include long-term exposure to air pollution, dust, and fumes. COPD is also associated with alpha-1 antitrypsin deficiency, a genetic condition that can cause the disease at a young age.

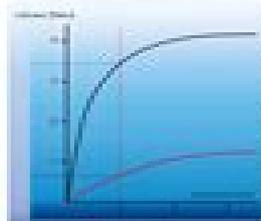
Lung emphysema
 Lung emphysema is a chronic disease that destroys the air sacs in the lungs. This causes the lungs to lose their elasticity and makes it difficult to breathe. The disease is most commonly caused by cigarette smoking.



Distorted, enlarged view of emphysematous lung tissue. Destruction of air sacs caused by destruction of their supporting walls is visible.



A key characteristic of the lung
 The lungs are the primary organs of the respiratory system. They are located in the chest cavity and are responsible for exchanging oxygen and carbon dioxide between the body and the environment.



Chronic bronchitis
 Chronic bronchitis is a long-term condition that causes inflammation and swelling of the bronchi. This leads to a persistent cough and increased mucus production.

Expiratory
 Expiratory flow is the volume of air that leaves the lungs during expiration. In COPD, the expiratory flow is significantly reduced due to airway obstruction.

Practical advice for COPD patients
 Patients with COPD should avoid smoking and exposure to air pollution. They should also avoid strenuous physical activity and use their inhalers as prescribed. Regular medical check-ups are important for monitoring the disease.

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Daniel F McAuley



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