Asthma.

What causes? Who is at risk? Although the cause of asthma is unknown, it appears to be the result of innate (inborn) immunity, genetics, and environmental factors. African Americans have a greater incidence of asthma than do Caucasian Americans.

Early Phase

Onset? 30-60 min from the trigger, triggers the inflammatory process. Begins when "triggers" (e.g., allergens, irritants, infections, exercise, gastroesophageal reflux, stress) activate the inflammatory process. Resolves some 30-90 min. later.

Late Phase

Onset? Begins 4-8 hrs. after the early phase response, when airway inflammation is pronounced. Red and white blood cells inflitrate the swollen tissues of the airways.

Define Status Asthmaticus severe, persistent bronchospasm, if not corrected, can lead to right-sided heart failure, pneumothorax, worsening hypoxemia, acidosis, and respiratory or cardiac arrest. Severe, life-threatening episode of asthma that does not respond to the patient's usual treatment. It is treated with inhaled and intravenous bronchodilators and oxygen therapy. Endotracheal intubation and mechanical ventilation are sometimes necessary.

COPD

Patho?? Chronic inflammation of the respiratory bronchioles, alveoli, and pulmonary blood vessels. The inflammation is a response to the inhalation of noxious particles and gases with smoking being a frequent source.

Main Complications. Respiratory failure and heart failure. Respiratory failure is marked by hypoventilation and ventilation-perfusion mismatch with rising PaCO2, declining PaO2 and respiratory acidosis.

Define

Bullae- large air spaces in the lung tissue.

Blebs- forms next to the pleura

Bronchiectasis- is an abnormal permanent dilation and distortion of the bronchi and bronchioles that usually confined to one lung lobe or segment.

Patho? Typically follows recurrent inflammatory conditions, infections, or obstructions. It may also occur with COPD.

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Rachel Sandford

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