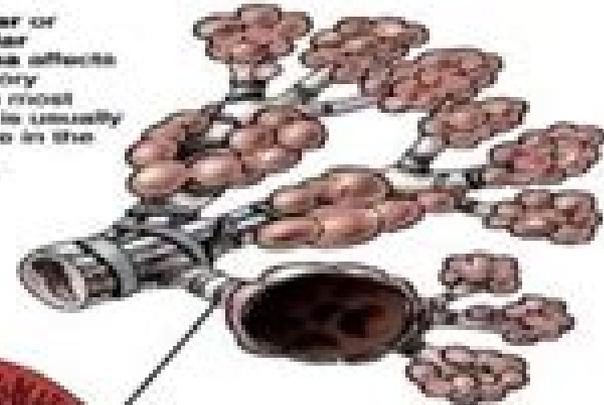


Pathophysiology of Chronic Airflow Limitation

Centriacinar or centrilobular emphysema affects the respiratory bronchioles most severely. It is usually more severe in the upper lung.



In emphysema, lung proteases collapse the walls of bronchioles and alveolar air sacs. As these walls collapse, the bronchioles and alveoli transform from a number of small elastic structures with great air-exchanging surface area into fewer, larger, inelastic structures with little surface area. Air is trapped in these distal structures, especially during forced expiration such as coughing, and the lungs hyperinflate. The trapped air stagnates and can no longer supply needed oxygen to the nearby capillaries.

Panacinar or panlobular emphysema affects the entire acinar unit. It is usually more severe in the lower lung.



In **asthma**, the airways overreact to common stimuli with bronchoconstriction, edematous swelling of the mucous membranes, and copious production of thick, tenacious mucus by abundant hypertrophied mucous glands. Airway obstruction is usually intermittent.



In **chronic bronchitis**, infection or bronchial irritants cause increased secretions, edema, bronchoconstriction, and impaired mucociliary clearance. Inflammation of the bronchial walls causes them to thicken. This thickening, together with excessive mucus, blocks the airways and hinders gas exchange.



Methods For Cohort Studies Of Chronic Airflow Limitation

AW Rasmussen



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