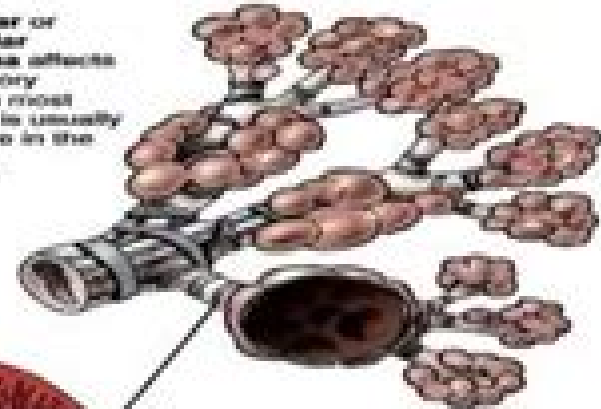


Pathophysiology of Chronic Airflow Limitation

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.

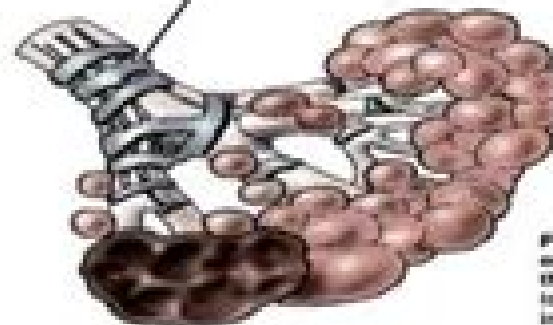
In **asthma**, the airways overreact to common stimuli with bronchoconstriction, edematous swelling of the mucous membranes, and copious production of thick, tenacious mucus by abundant hypertrophied mucous glands. Airway obstruction is usually intermittent.



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.



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



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National Library of Medicine Current Catalog National Library of Medicine (U.S.),1984 **Current Catalog** National Library of Medicine (U.S.), First multi year cumulation covers six years 1965 70 *Catalogue of Publications, 1972-1985 Inclusive* World Health Organization. Regional Office for Europe,1986 Catalogue of Publications ,1989 *Bibliography on Smoking and Health* ,1991 Public Health Bibliography Series United States. Public Health Service,1984 *Smoking and Health Bulletin* ,1984 Annual cummulation issued as Bibliography on Smoking and Health 1988 **Severe Asthma** Kian Fan Chung,Elliot Israel,Peter G. Gibson,2019-06-01 Severe asthma is a form of asthma that responds poorly to currently available medication and its patients represent those with greatest unmet needs In the last 10 years substantial progress has been made in terms of understanding some of the mechanisms that drive severe asthma there have also been concomitant advances in the recognition of specific molecular phenotypes This ERS Monograph covers all aspects of severe asthma epidemiology diagnosis mechanisms treatment and management but has a particular focus on recent understanding of mechanistic heterogeneity based on an analytic approach using various omics platforms applied to clinically well defined asthma cohorts How these advances have led to improved management targets is also emphasised This book brings together the clinical and scientific expertise of those from around the world who are collaborating to solve the problem of severe asthma Advances in the Prevention of Occupational Respiratory Diseases Keizo Chiyotani,Yutaka Hosoda,Yoshiharu Aizawa,1998 Hardbound This book will be very useful for those who are engaged in prevention or health management of occupational respiratory diseases Key features of *Advances in the Prevention of Occupational Respiratory Diseases* are the discussions presentations and lectures at the 9th International Conference in Kyoto Japan which focused on the results of the latest researches in the field and the tendency of occupational respiratory diseases in many countries Papers focused on all types of occupational respiratory diseases including pneumoconiosis biological effect of natural and

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