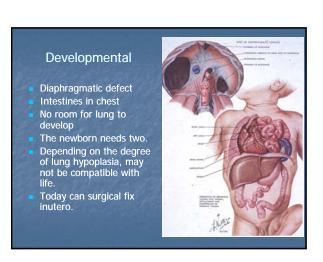
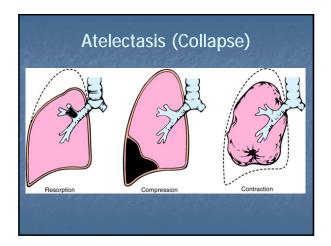


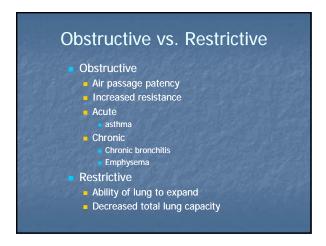
Basic Categories Congenital Infectious Neoplastic Nutritional Trauma Immunologic Vascular



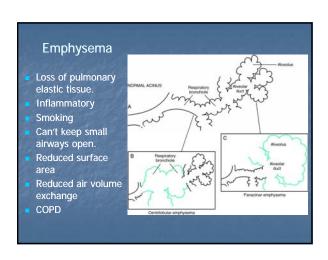
Gene Defect Related Cystic fibrosis Bronchial infections Pancreatic destruction Thick mucus Alpha-1 antitrypsin deficiency Emphysema Cirrhosis Can't neutralized activated proteases Immune system failure

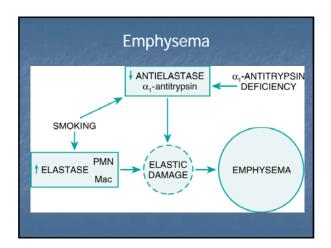


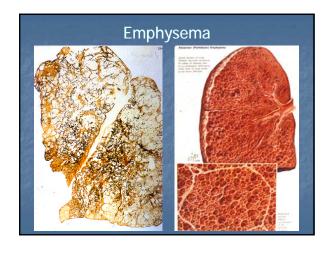


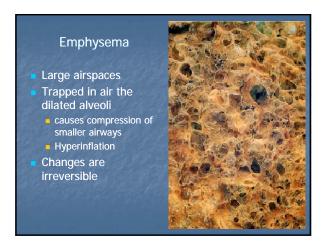


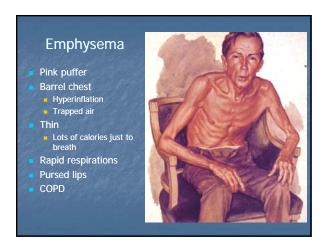
Chronic Obstructive Pulmonary Disease COPD Lasting longer than 3 months Chronic cough with mucus production Restriction to air movement Two basic forms Emphysema Chronic bronchitis Actually most patients have a mix

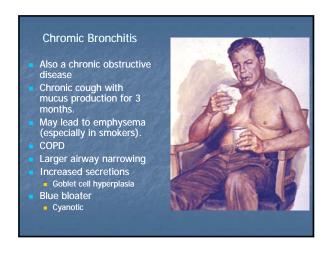


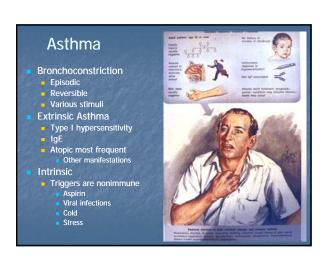


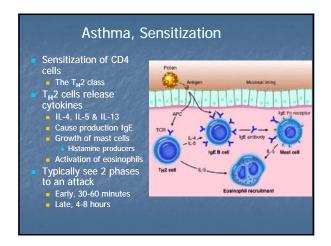


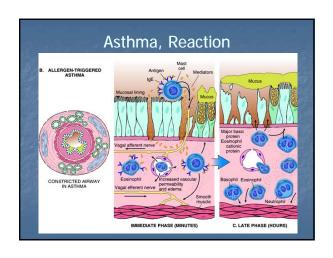


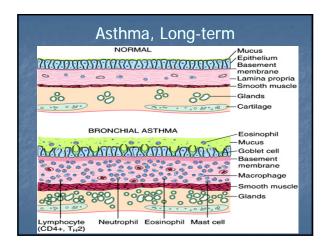


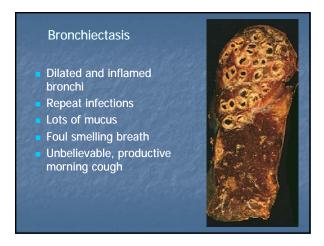






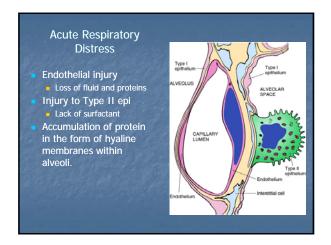


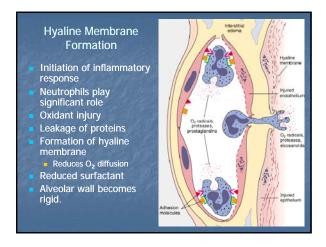


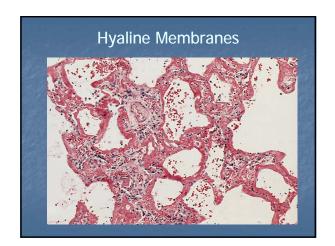




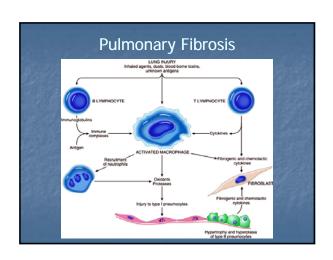
Restrictive Lung Disease Reduced compliance Acute, surfactant problem Chronic, fibrosis

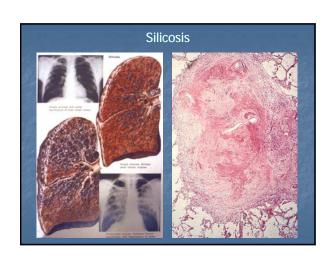


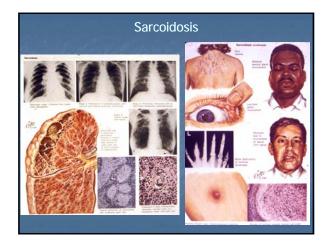


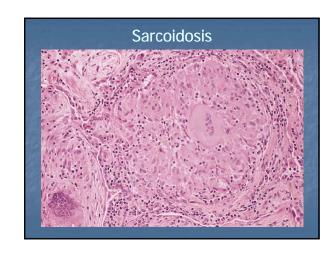


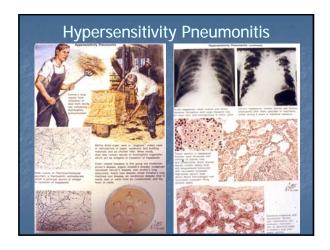
Chronic Restrictive Lung Disease Occupational Asbestos Silicosis Coal miner's lung Chemotherapy Busulfan Immunological Rheumatoid arthritis Sarcoid Scleroderma and other collagen vascular diseases Idiopathic

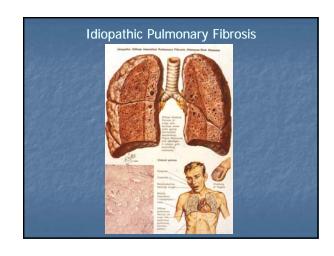






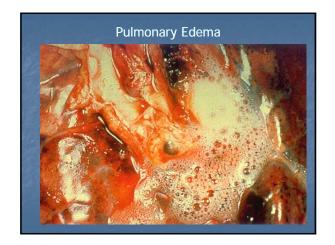


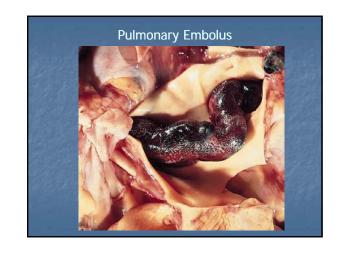


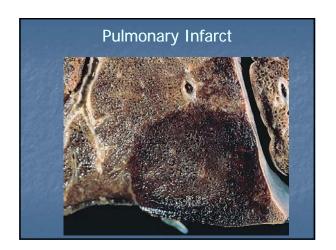


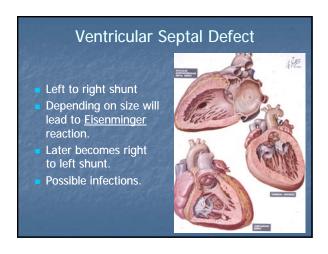


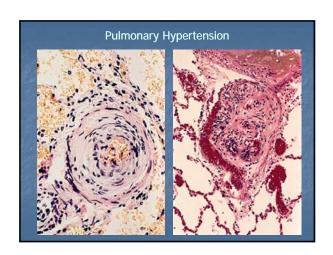
Vascular Related Pulmonary Disease Acute alterations in blood flow. Congestion and edema PE Chronic congestion Eisenminger reaction Primary Pulmonary hypertension Inflammatory Autoimmune vasculitis

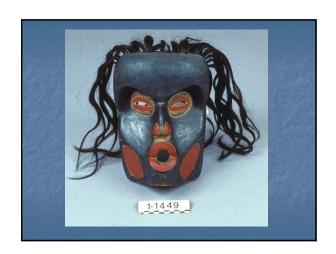


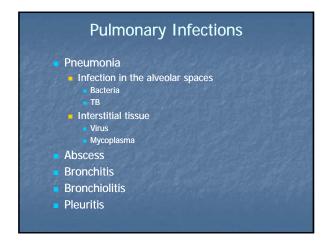


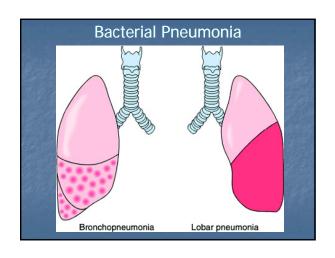


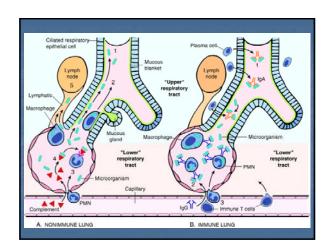


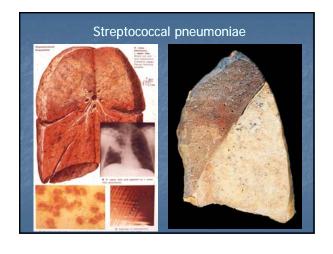


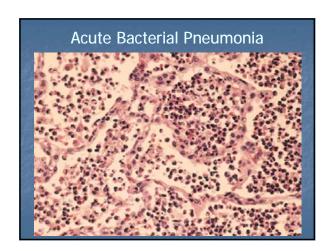








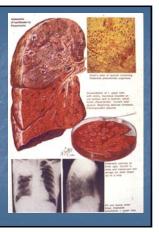




Gram Negative Bugs Typically from body flora Opportunistic infections Compromised host Alcoholic Aspiration Chemotherapy Tracheostomy Broad spectrum antibiotics that change host flora

Klebsiella Pneumonia

- Gram negative rod
 - Very mucoid capsule
- Aspiration
- Head down in the gutter Rusty sputum
- High fever



Pulmonary Abscess

- Staphylococcus
- Aspiration of gastric material
- Hole with
- Air-fluid level

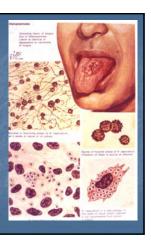


Fungal Pneumonias

- Typically means something wrong with immune system
- Histoplasmosis is very common
 - Ohio River valley
 - Virtually all of us beat the bug
- HIV has changed things a lot

Histoplasmosis

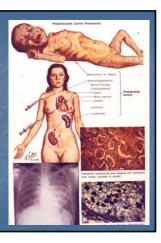
- Dimorphic yeast
- Fungal growth phase
- Oral or pulmonary infection
- Granulomas
- Most people lock it down.
- Forms of the disease
 - PulmonarySystemic



Pneumocystis carinii

- Immune failure
- Organism is very common
- Immunosuppression
 - StarvationHIV

 - Chemotherapy
- Can't culture
- Stain for the bug

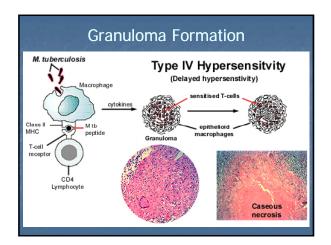


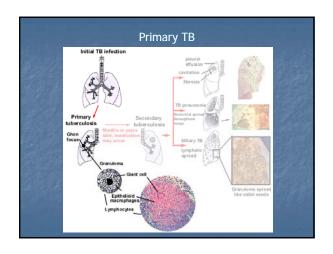
Tuberculosis

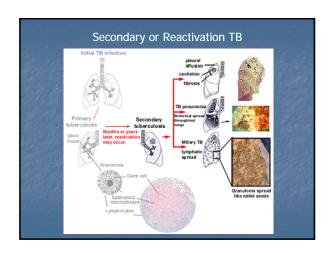
- Mycobacterium tuberculosis (most cases)

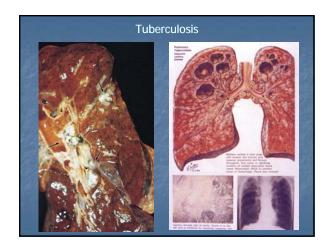
 Type IV hypersensitivity
 Granuloma

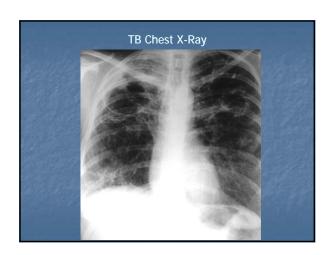


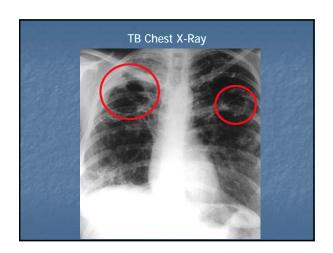


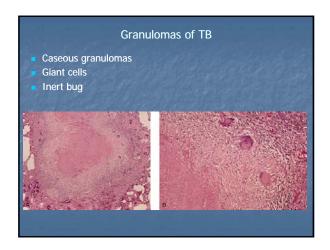






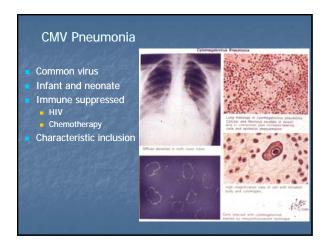


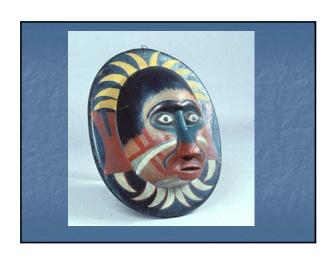


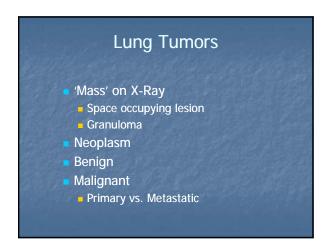












Benign Rare Hamartoma A 'rest' of tissue from development Cartilage most times

