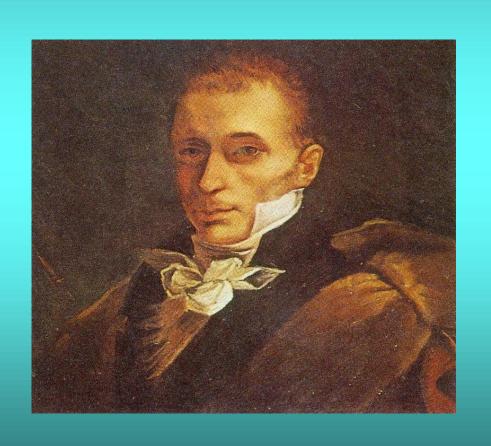
LECTURE 13



THEOPHILE RENE HYACINTHE LAENNEC (1781-1826)

PATHOLOGY OF NASAL CAVITY AND SINUSES

RHINITIS AND SINUSITIS



ALLERGIC RHINITIS



POLYPOUS RHINITIS



RHINOSCLEROMA

• RHINOSCLEROMA IS A CHRONIC GRANULOMATOUS CONDITION OF THE NOSE AND OTHER STRUCTURES OF THE UPPER RESPIRATORY TRACT. RHINOSCLEROMA IS A RESULT OF INFECTION BY THE BACTERIUM Klebsiella rhinoscleromatis. THE POLISH **SURGEON** JAN MIKULICZ WROCŁAW DESCRIBED THE HISTOLOGIC FEATURES IN 1877: VON FRISCH IDENTIFIED THE MICROORGANISM IN 1882

• IT IS ENDEMIC TO REGIONS OF AFRICA (EGYPT, TROPICAL AREAS), SOUTHEAST ASIA, MEXICO, CENTRAL AND SOUTH AMERICA AND SOUTHERN EUROPE, BUT IT HAS BEEN INFREQUENT IN USA. Rhinoscleroma reportedly also is rare in Saudi Arabia and Bahrain. Five percent of all cases occur in Africa. However, with current trends in migration, the incidence of rhinoscleroma may be on the rise.



PATHOLOGY OF NASAL CAVITY AND SINUSES

TUMORS OF NASAL MUCOSA AND SINUSES

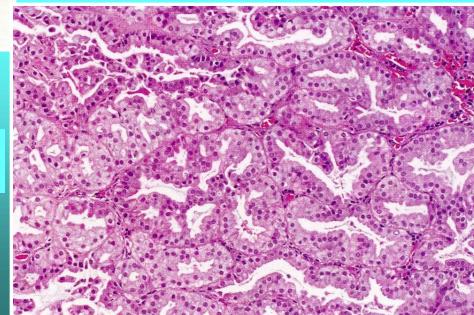


INVERTED PAPILLOMA

DIFFICULT TO TREAT WITH MANY RELAPSES, ACCOMPANIES AN INVASIVE CANCER.

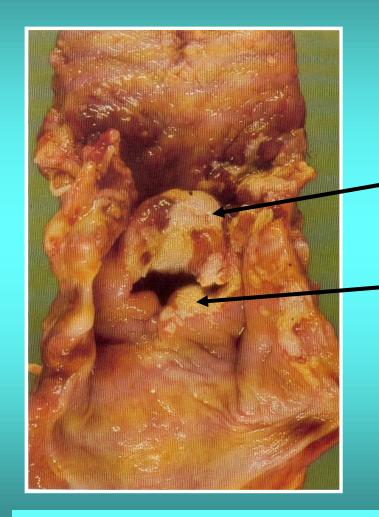
NASOPHARYNGEAL CARCINOMA

RARE, OCCUPIES NOSE AND SINUSES

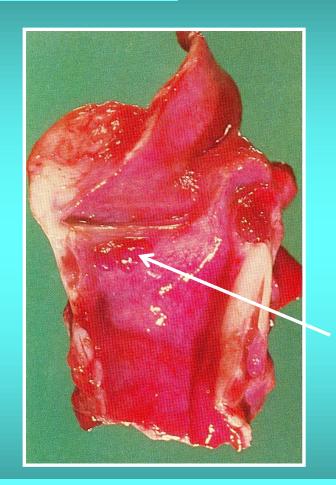


PATHOLOGY OF LARYNX

LARYNGITIS



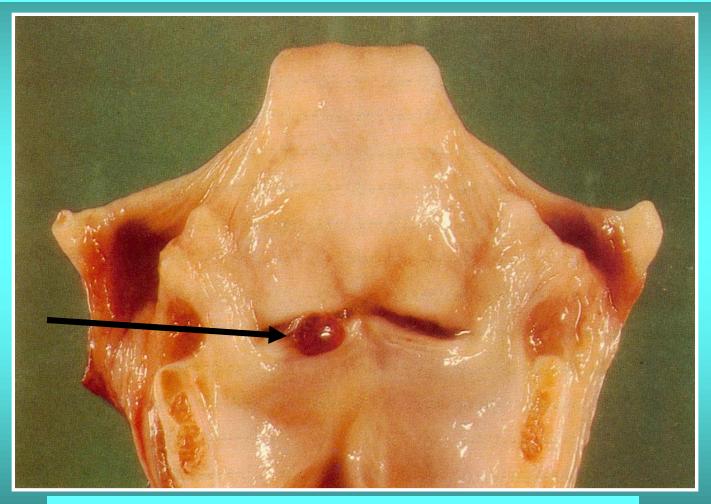
ACUTE LARYNGITIS. DIFFERENT MORPHOLOGICAL FORMS



LARYNGEAL POLYPS. MOST COMMONLY ON VOCAL CHORDS (SINGERS NODES).

PATHOLOGY OF LARYNX

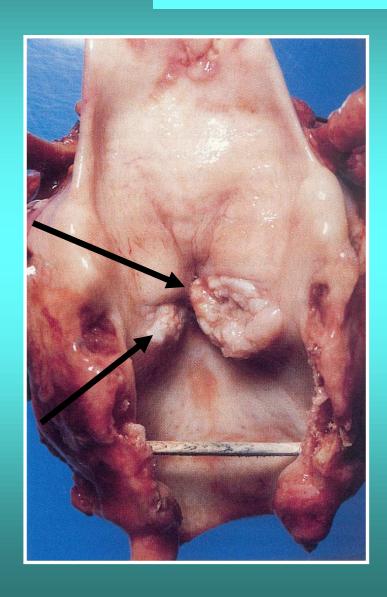
POLYPS AND TUMORS OF LARYNX

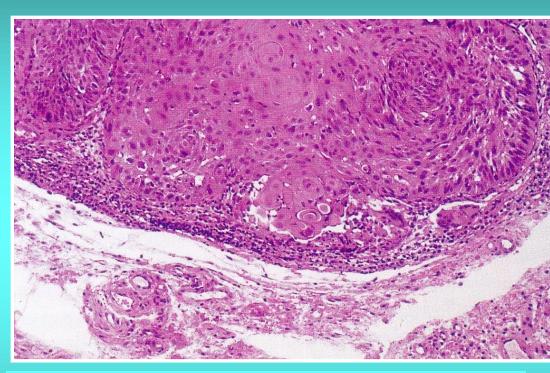


TUMORS OCCUR AS SINGLE OR NUMEROUS IN CHILDREN (VIRAL ETIOLOGY)

PATHOLOGY OF LARYNX

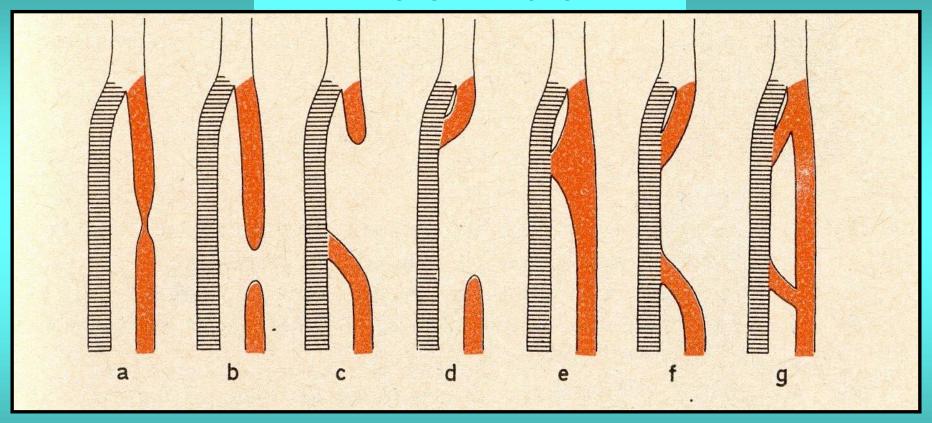
CARCINOMA OF LARYNX





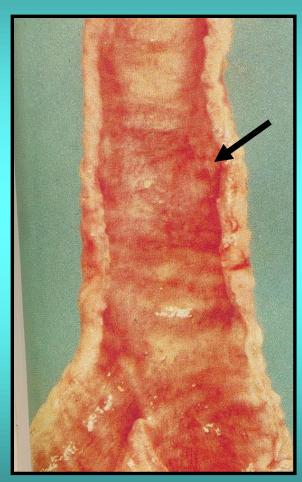
IN 95% OF CASES IT IS A SQUAMOUS CELL CARCINOMA (SCC). OCCURS MORE COMMONLY AMONG SMOKERS AND IN MEN. USUALLY ITS PRECURSOR IS DYSPLASIA (INTRAEPITHELIAL NEOPLASIA) IN THE EPITHELIUM. CHARACTERISTIC IS HOARSENESS THAT CANNOT BE TREATED PHARMACOLOGICALLY. METASTASES TO SURROUNDING LYMPH NODES.

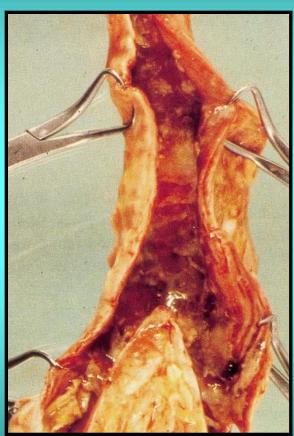
DEVELOPMENTAL DISTURBANCES

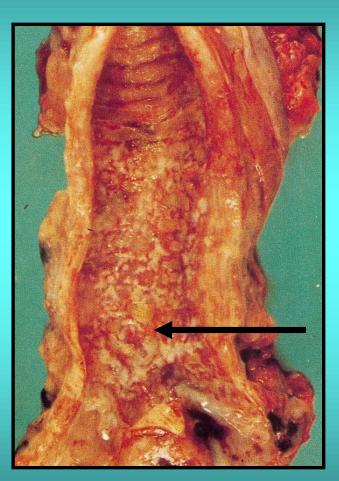


DURING DEVELOPMENT OF THE TRACHEA AND ESOPHAGUS SOMETIMES THE ESOPHAGUS AND TRACHEA MAY MERGE AT SOME POINTS.

TRACHEITIS AND BRONCHITIS







ACUTE EROSIVE TRACHEITIS

HEMORRHAGIC TRACHEITIS

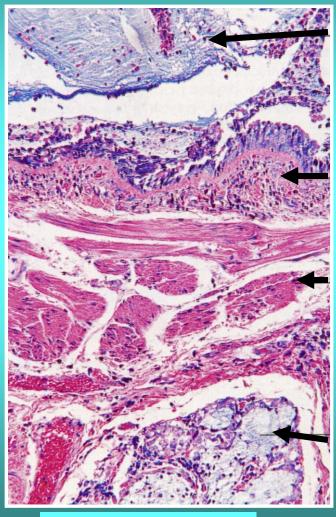
GRANULOMATOUS TRACHEITIS

TRACHEITIS AND BRONCHITIS

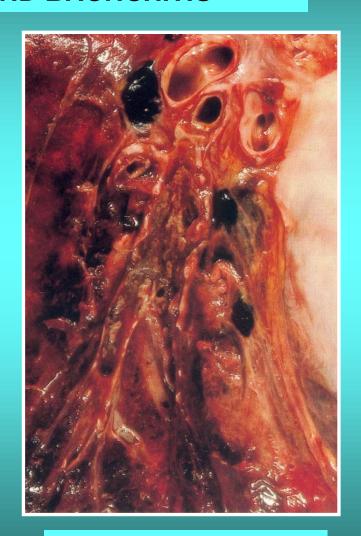


CHRONIC CATARRHAL BRONCHITIS

TRACHEITIS AND BRONCHITIS

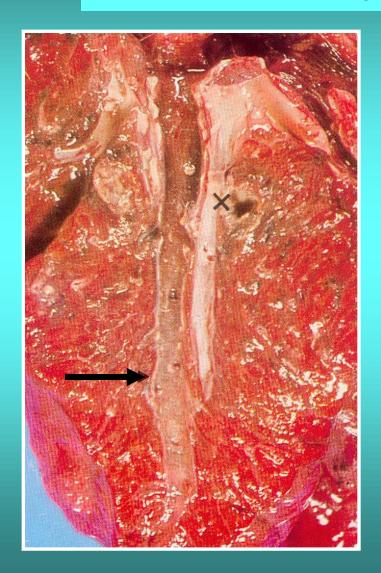


BRONCHIAL ASTHMA



NECROTIZING BRONCHITIS

BRONCHIECTASES



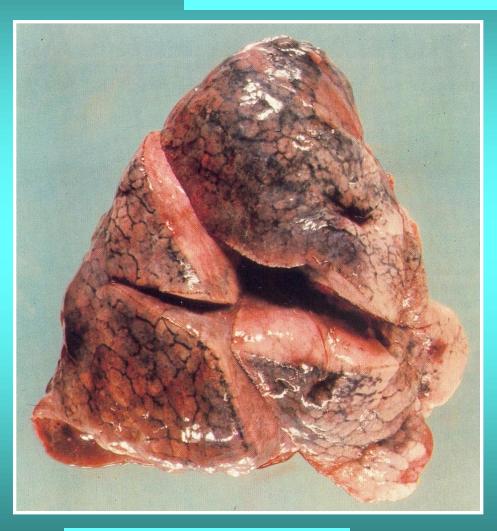


SACCIFORM OR CYLINDRICAL ETIOLOGY – E TRACTIONE (TRACTION) OR – E PULSIONE (EXTRUSION)

ACCOMPANIED BY INFLAMMATION OF BRONCHI, USUALLY PURULENT → CHRONIC BRONCHITIS

LUNG PATHOLOGY

DEVELOPMENTAL DISTURBANCES

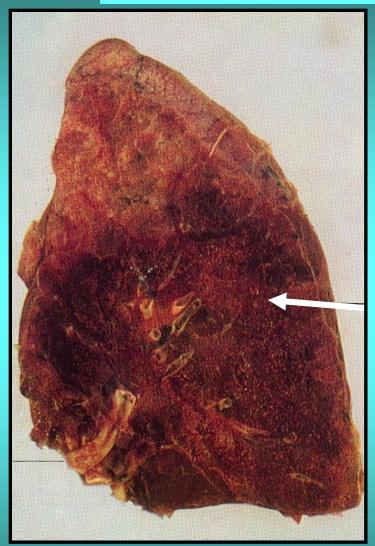


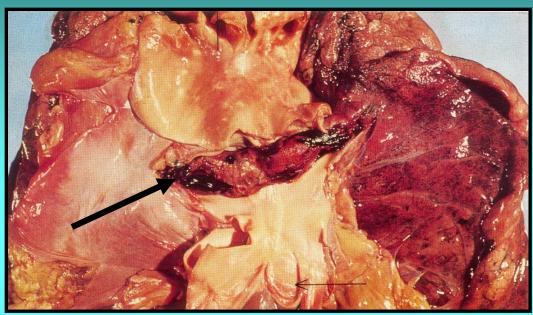




CYSTIC LUNG (CONGENITAL BRONCHIECTASES)

LUNG PATHOLOGY



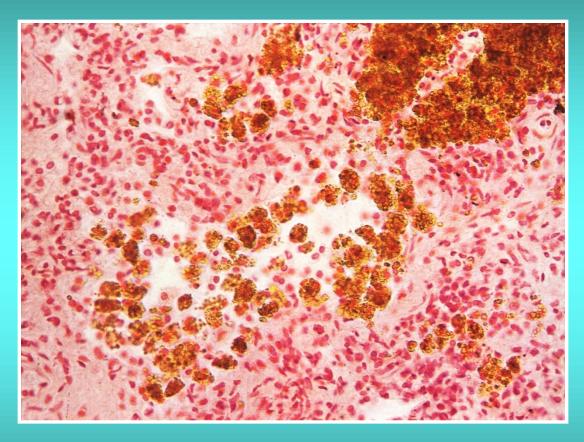


THROMBOSIS IN PULMONARY ARTERY

INFARCTUS HAEMORRHAGICUS – HEMORRHAGIC INFARCT

VENOSTASIS IN LUNGS



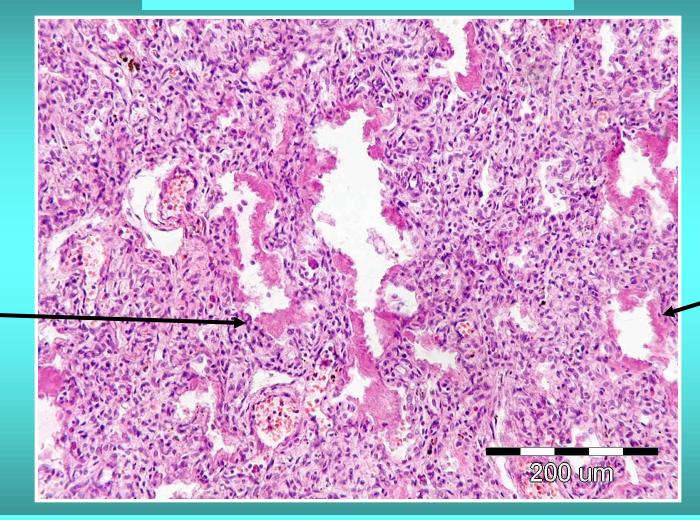


PULMONARY
EDEMA – OCCURS
IN ACUTE LEFT
VENTRICLE
INSUFFICIENCY

CHRONIC VENOSTASIS – CYANOTIC INDURATION OF LUNG

DISTURBANCE IN THE AIRINESS OF THE LUNGS

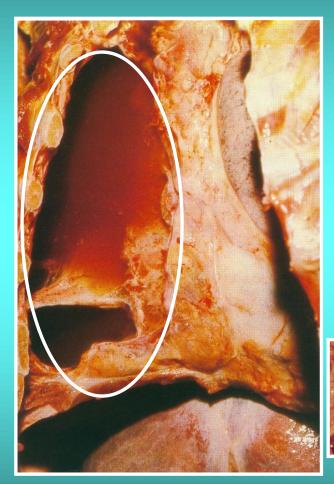
ATELECTASIS

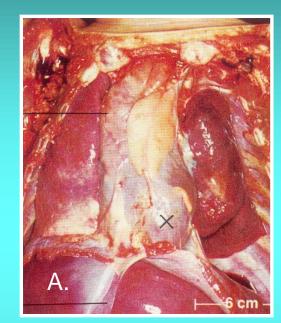


CONGENITAL ATELECTASIS. HYALINE MEMBRANES. "RESPIRATORY DISTRESS SYNDROME - RDS"

DISTURBANCES IN THE AIRINESS OF THE LUNGS

ATELECTASIS









COMPRESSION ATELECTASIS

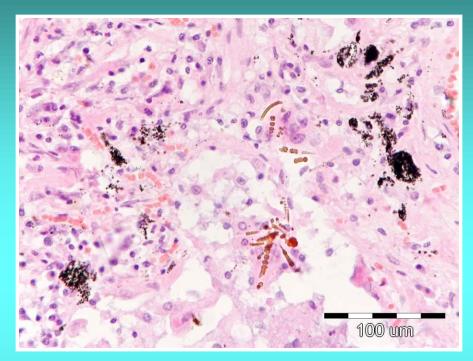
ASPIRATION ATELECTASIS

A. MACROSCOPY. B. FOCI OF ATELECTASIS

(DARK) C. CAUSE – OBSTRUCTION OF

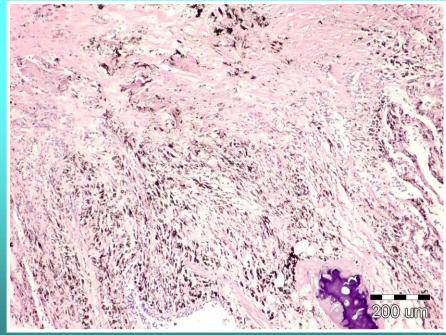
BRONCHI BY A FOREIGN BODY

PNEUMOCONIOSES



ASBESTOSIS

SILICOANTHRACOSIS (COAL-MINERS)





- www.fotosik.pl/
- pokaz_obrazek/
- 0262b0ef712cbcdd.html

PNEUMONIA

CLASSIFICATION

ANATOMICAL

1. LOBAR PNEUMONIA:

A - ALVEOLAR

B-INTERSTITIAL

2. LOBULAR, BRONCHOPNEUMONIA:

A - ALVEOLAR

B-INTERSTITIAL

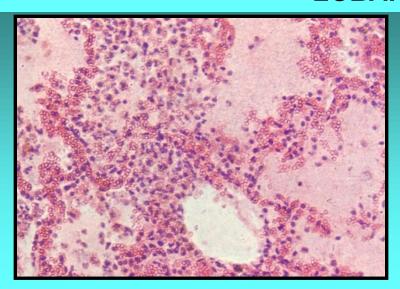
ETIOLOGICAL:

BACTERIAL
VIRAL
FUNGAL
PARASITIC
IMMUNOLOGICAL
PHYSICOCHEMICAL
FACTORS

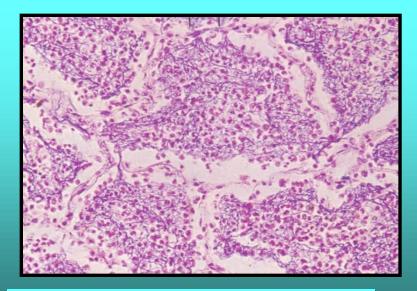
BASED ON MORPHOLOGY

SEROUS
CATARRHAL
FIBROUS
PURULENT
HEMORRHAGIC
GANGRENOUS
GRANULOMATOUS

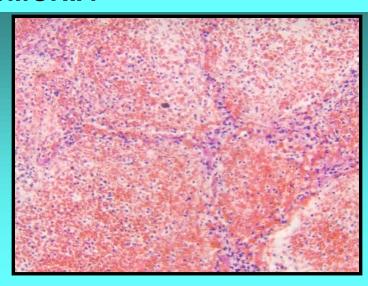
LOBAR PNEUMONIA



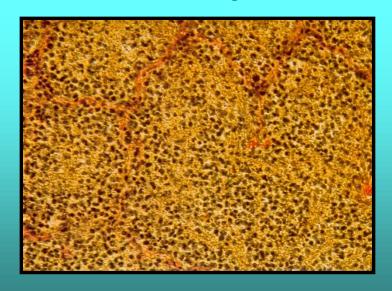
CONGESTION



GRAY HEPATIZATION

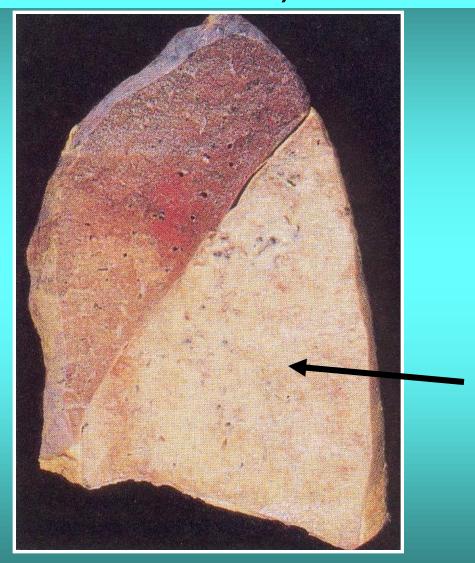


RED HEPATIZATION



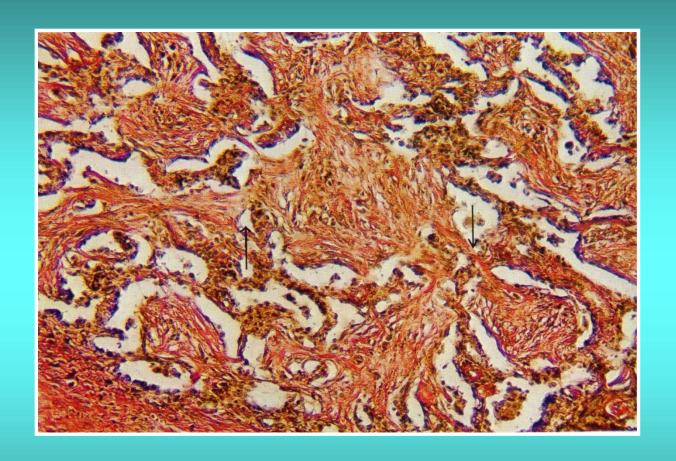
YELLOW HEPATIZATION

(LOBAR PNEUMONIA, PLEUROPNEUMONIA, CROUPOUS PNEUMONIA)



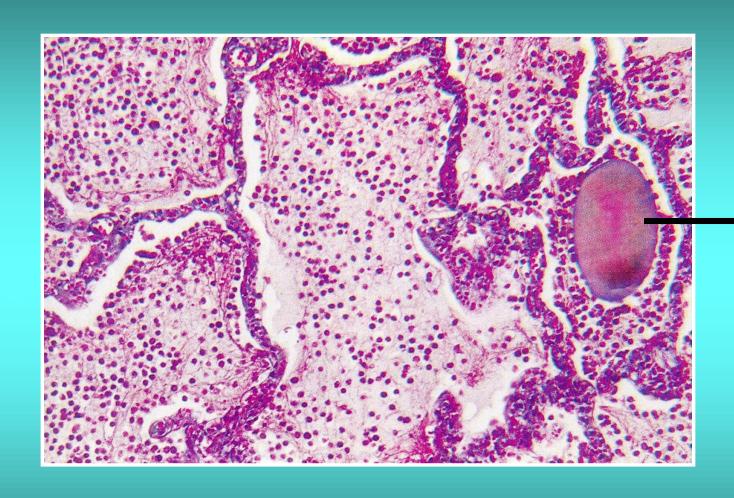
GRAY HEPATIZATION

LOBAR PNEUMONIA

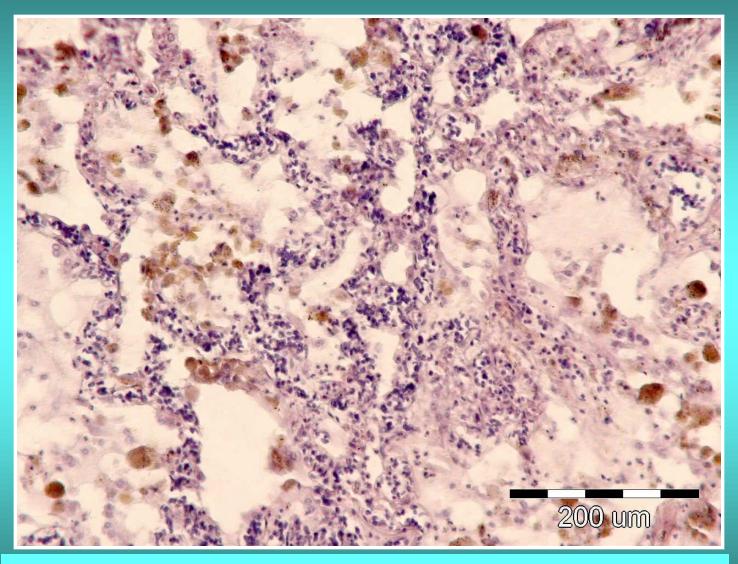


CARNIFICATION (FIBROSIS) OF LUNG AFTER PNEUMONIA

BRONCHOPNEUMONIA, LOBULAR PNEUMONIA

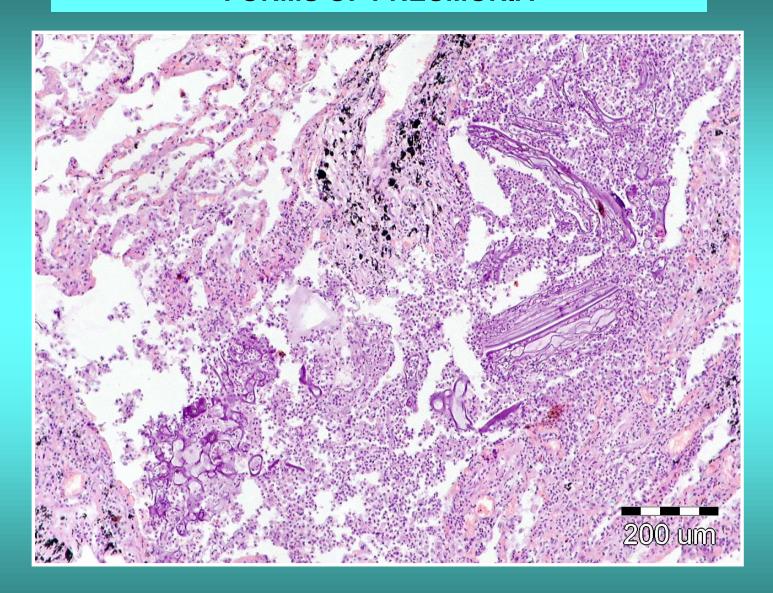


INTERSTITIAL PNEUMONIA



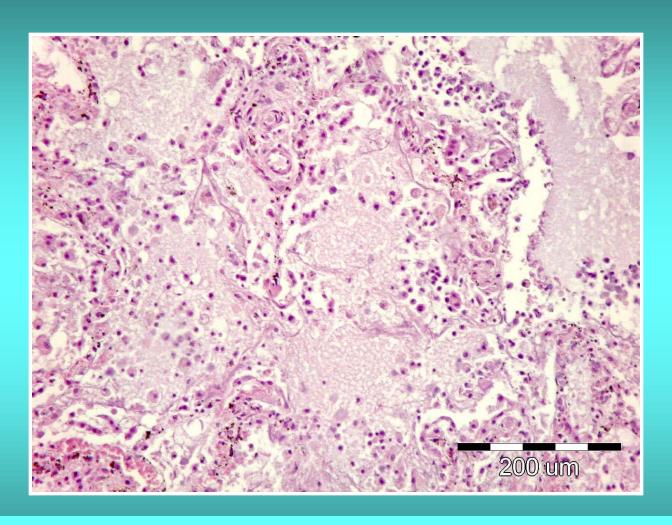
LYMPHOCYTIC INFILTRATION IN ALVEOLI. USUALLY OF VIRAL ETIOLOGY.

FORMS OF PNEUMONIA



ASPIRATION BRONCHOPNEUMONIA (NUTRIENTS)

PLASMA CELL PNEUMONIA, PNEUMOCYSTIC



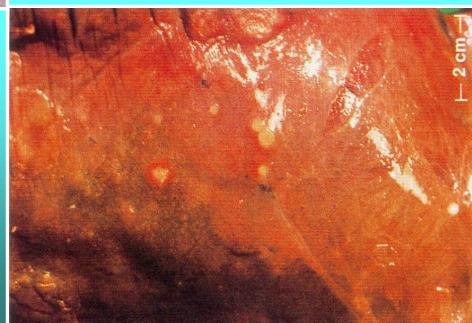
INFILTRATIONS OF PLASMA CELLS IN ALVEOLI. CHARACTERISTIC FOAM. ETIOLOGY - PNEUMOCYSTIS JIROVECII. OPPORTUNISTIC INFECTION USUALLY IN AIDS PATIENTS

PURULENT INFECTIONS OF LUNGS

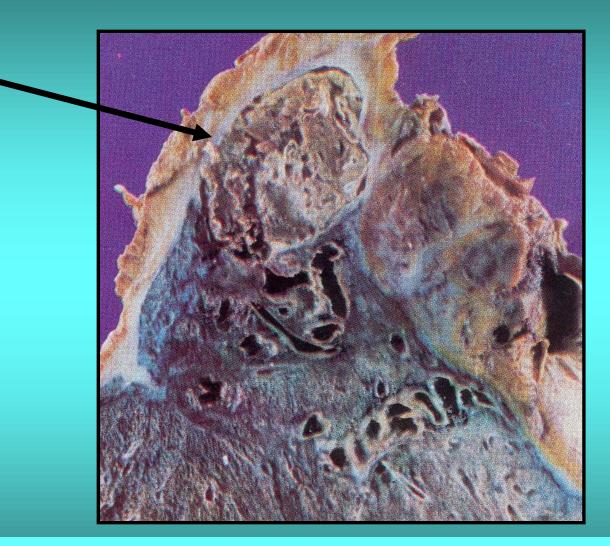


ABSCESS AFTER
PNEUMONIA
SINGLE OR NUMEROUS

METASTATIC ABSCESS



LUNG PATHOLOGY



ASPERGILLOMA (IN OLD TUBERCULOSIS)

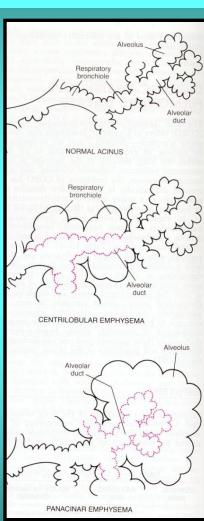
EMPHYSEMA

CONDITION OF THE LUNGS CHARACTERIZED BY INCREASE BEYOND NORMAL IN THE SIZE OF AIR SPACES DISTAL TO THE TERMINAL BRONCHIOLES EITHER FROM DILATATION OF THE ALVEOLI OR FROM DESTRUCTION OF THEIR WALLS

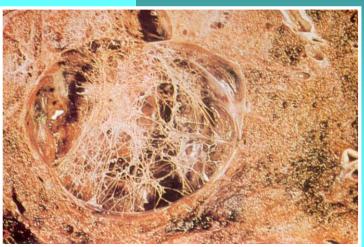
DISTURBANCES IN THE AIRINESS OF THE LUNGS

EMPHYSEMA









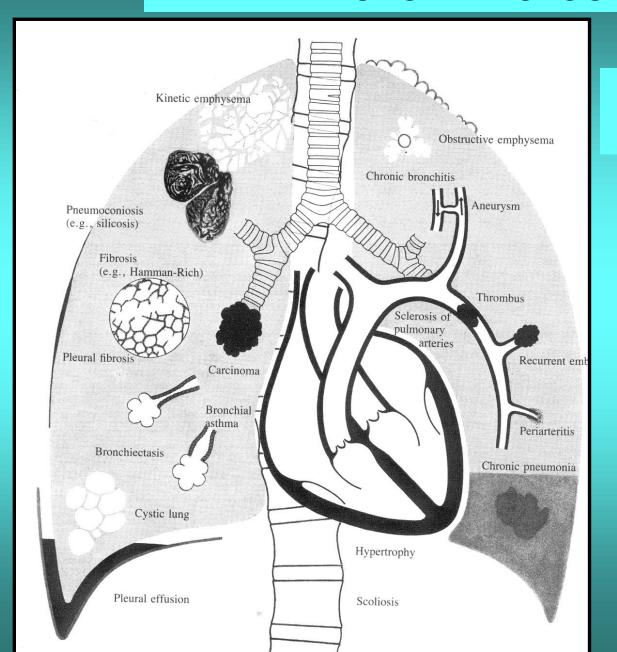
OBTURATORY EMPHYSEMA



MARGINAL EMPHYSEMA

BULLOUS EMPHYSEMA

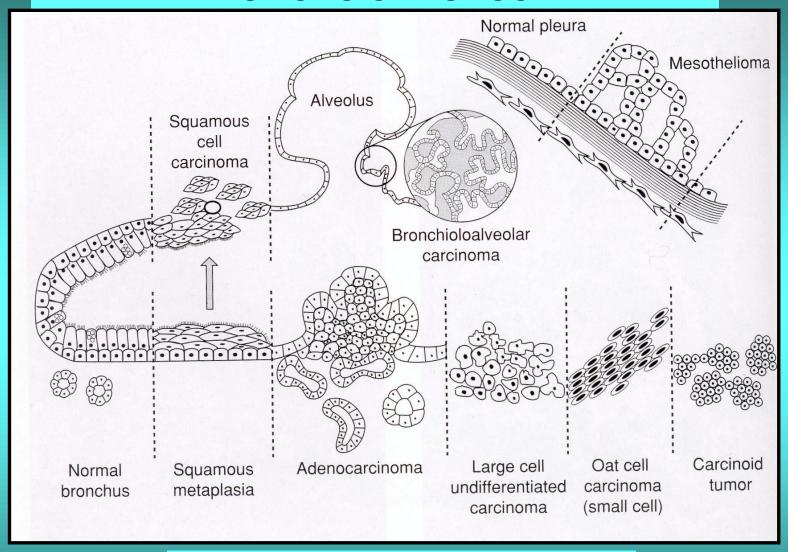
LUNG PATHOLOGY



PULMONARY HEART

CAUSES

TUMORS OF LUNGS

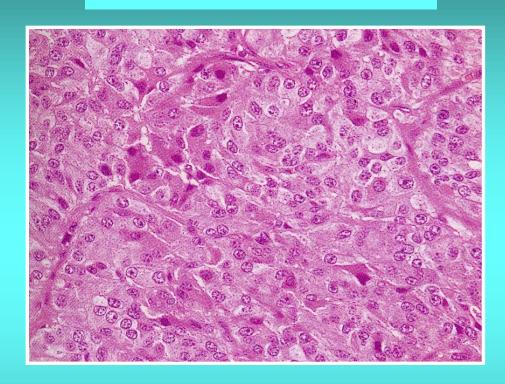


HISTOGENESIS OF LUNG CANCER

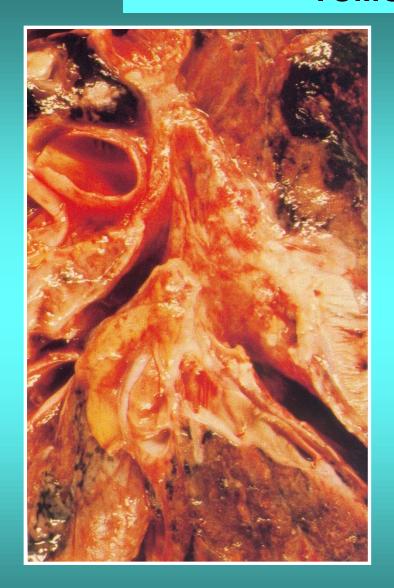
TUMORS OF LUNGS

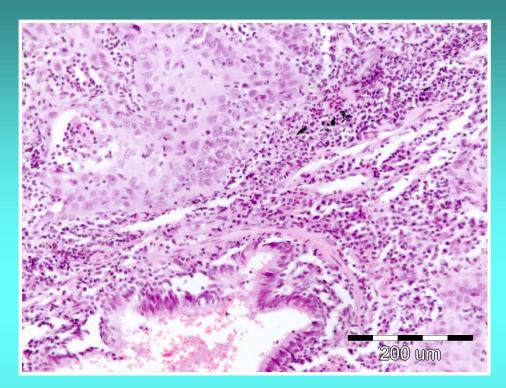
BRONCHIAL CARCINOID





APPROX 2% OF LUNG TUMORS; ORIGIN:
NEUROENDOCRINE CELLS.
INFILTRATIVE GROWTH, LATE
METASTASES





SQUAMOUS CELL CARCINOMA

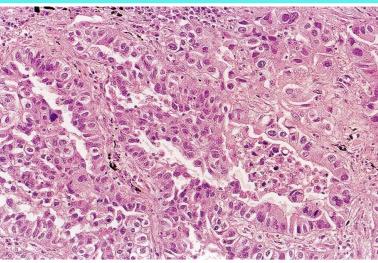
ETIOLOGY: CIGARETTE SMOKING



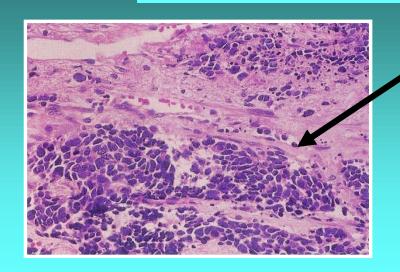




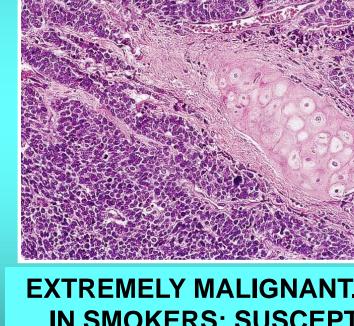
ADENOCARCINOMA



25-40% OF LUNG CANCERS. COMMON IN NON-SMOKING WOMEN!!

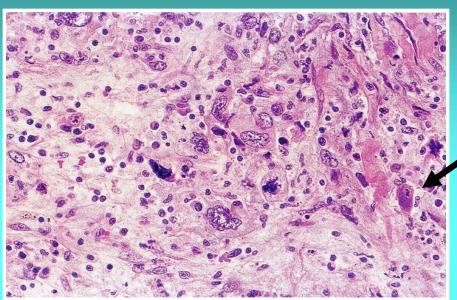


ANAPLASTIC CARCINOMA (PARVICELLULAR)



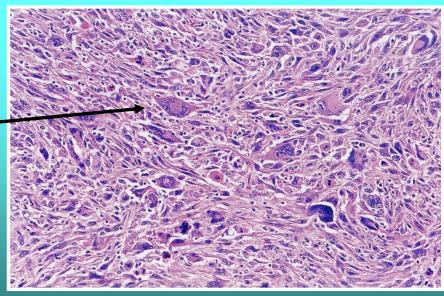


EXTREMELY MALIGNANT. USUALLY IN SMOKERS; SUSCEPTIBLE TO RADIATION



ANAPLASTIC CARCINOMA (MACROCELLULAR)

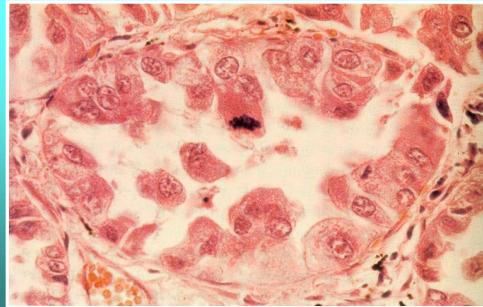
LARGE POLYGONAL CELLS

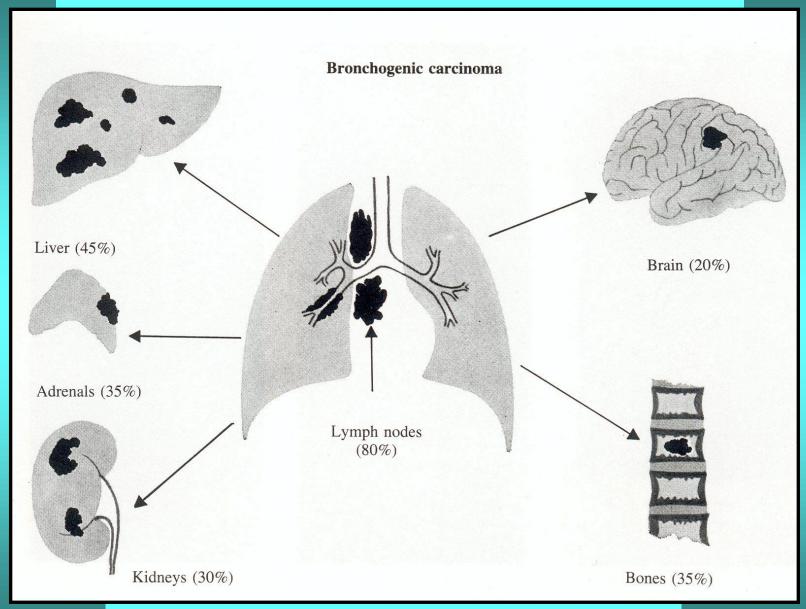




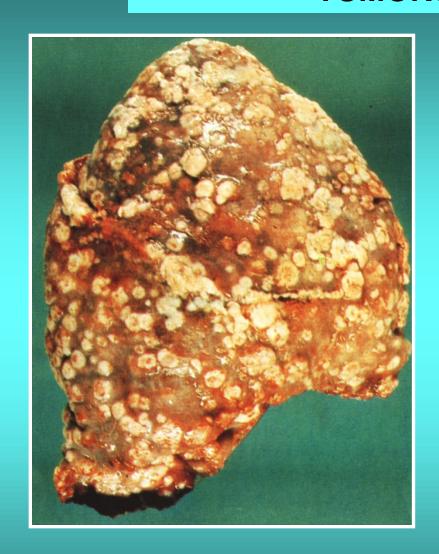
BRONCHIOALVEOLAR CARCINOMA = adenocarcinoma (accord. WHO)

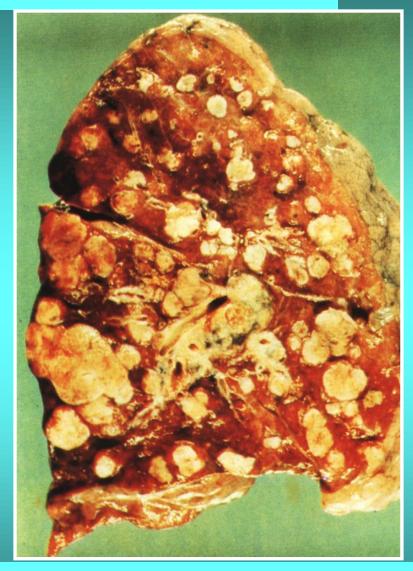
1 – 9% OF LUNG CANCERS





MOST COMMON SITES OF METASTASES





REMEMBER!!! THE LUNGS ARE THE MOST COMMON SITE OF METASTASES, ESPECIALLY OF MESENCHYMAL TUMORS

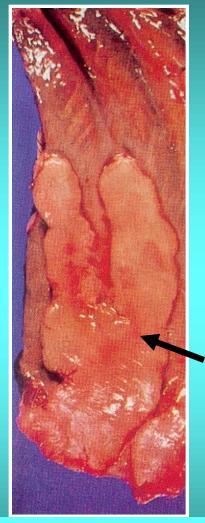
PLEURITIS



PURULENT PLEURITIS



PLEURAL ADHESIONS



CALCAREOUS
PLEURITIS
(with calcium deposits)

MESOTHELIOMA

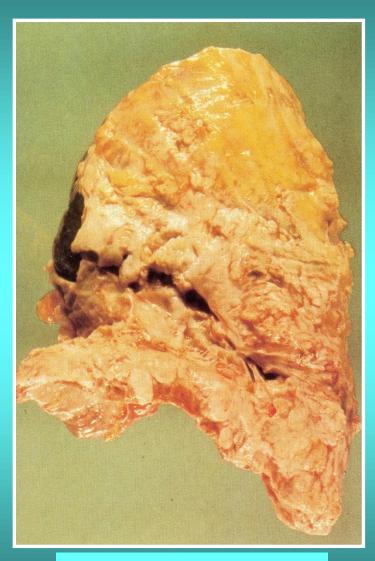
AN ASBESTOS-RELATED

MALIGNANT TUMOR OF THE LINING OF

THE LUNG (PLEURA) OR THE LINING OF

THE ABDOMINAL CAVITY (PERITONEUM)

TUMORS OF PLEURA



MESOTHELIOMA

