فسلجة الامراض النظري المرحلة الثالثة الفصل الاول



كلية الرشيد الجامعة قسم الصيدلة ٢٠١٨ ـ ٢٠١٩

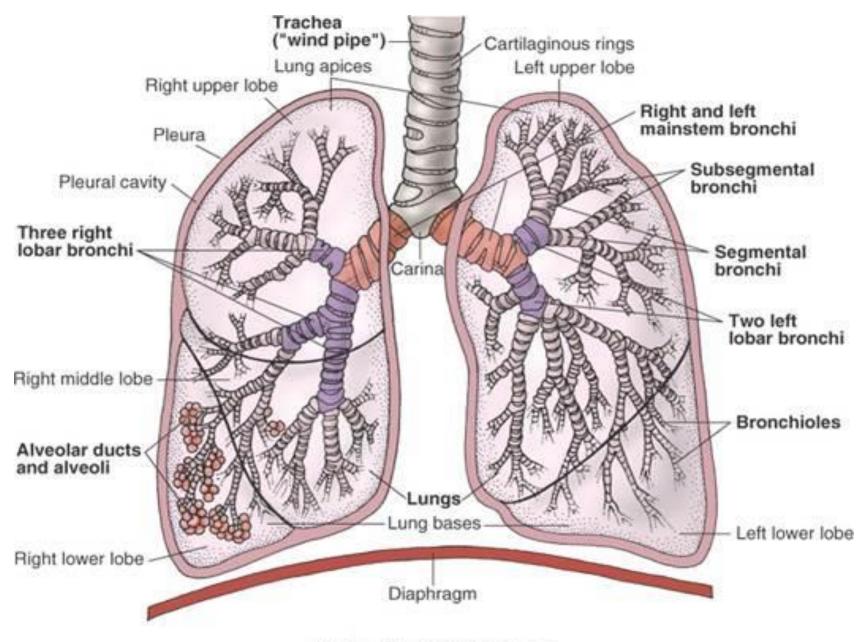
Disorders of The Respiratory System

Lec (6 + 7)
Assis. Prof. Dr. Muna Salih Daoud

Introduction:

- The lungs are ingeniously constructed to carry out their main function, the exchange of gases between inspired air and blood.
- ▶ The respiratory system consists of :
 - ▶ The trachea
 - Lung buds
 - Lobar bronchi
 - Bronchioles
 - Terminal bronchioles
 - Acinus
 - Alveoli (the alveolar duct & alveolar sac)





Pathological disorders of the RT:

- Upper respiratory tract disorders (URD): common cold, rhinitis, sinusitis, laryngitis, and pharyngitis
- Lower respiratory tract disorders (LRD), falls into 2 categories:
 - Dbstructive disorders (chronic obstructive pulmonary diseases (COPD)), including: chronic bronchitis, asthma, emphysema and bronchiectasis
 - Restrictive disorders: including, pulmonary fibrosis and pneumonia



Other disorders including:

- Pulmonary edema
- Pulmonary hypertension
- Adult respiratory distress syndrome
- Neonatal respiratory distress syndrome
- Atelectasis (pulmonary collapse)
- Lung cancer
- Tuberculosis



1- pneumonia:

- Results whenever the defense mechanisms are impaired or the host resistance get lowered.
- Types of pneumonia:
 - Bronchopneumonia
 - Lobar pneumonia
- Etiology:
- Pathogenesis:
- Morphological changes of lobar and bronchopneumonia:
- Complications:
 - Abscess formation
 - Spread of infection to the pleural cavity
 - Organization of the exudate
 - Bacteremic dissemination
- Clinical features



2- emphysema:

- Abnormal permanent enlargement of the air space distal to the terminal bronchiole with destruction of their wall, there is no fibrosis
- Types of emphysema:
 - Centriacinar emphysema
 - Panacinar emphysema
 - Paraseptal emphysema
 - Irrregular emphysema
- Etiology:
- Pathogenesis:
- Morphological changes:
- Clinical features:



3- chronic bronchitis:

- It is characterized by cough and sputum production for at least 3 months in at least 2 consecutive years.
- Etiology:
- Pathogenesis:
- Morphological changes:
- Clinical features:



4- bronchial asthma:

- It is a chronic relapsing inflammatory disorder characterized by hyper-reactive airways, episodic, reversible bronchoconstriction due to increased responsiveness of the trachio-bronchial tree to various stimuli
- Types of asthma:
 - Extrinsic
 - Intrinsic
- Pathogenesis:
- Morphological changes:
- Clinical features:



5- bronchiectasis:

- Is a chronic necrotizing infection of the bronchi and bronchioles leading to or associated with abnormal permanent dilatation of these airways.
- Etiology:
- Pathogenesis:
- Complications:
- Morphological changes:
- Clinical features:

