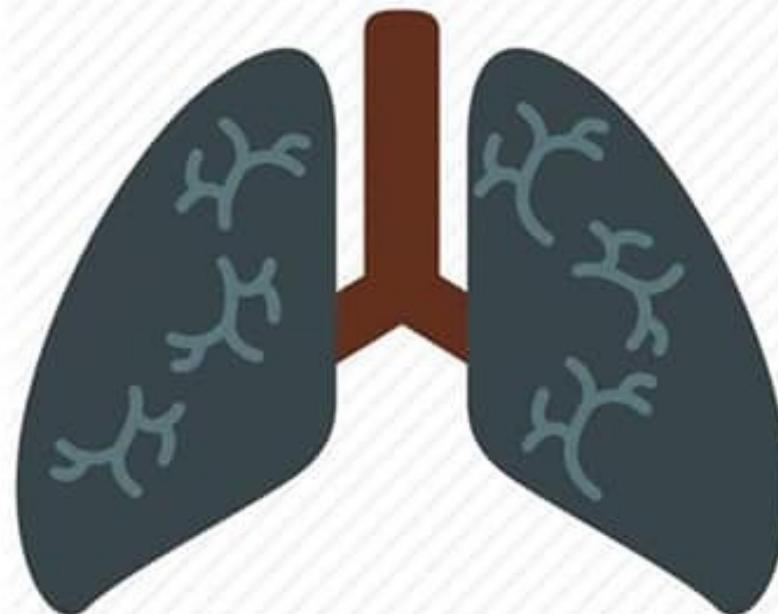
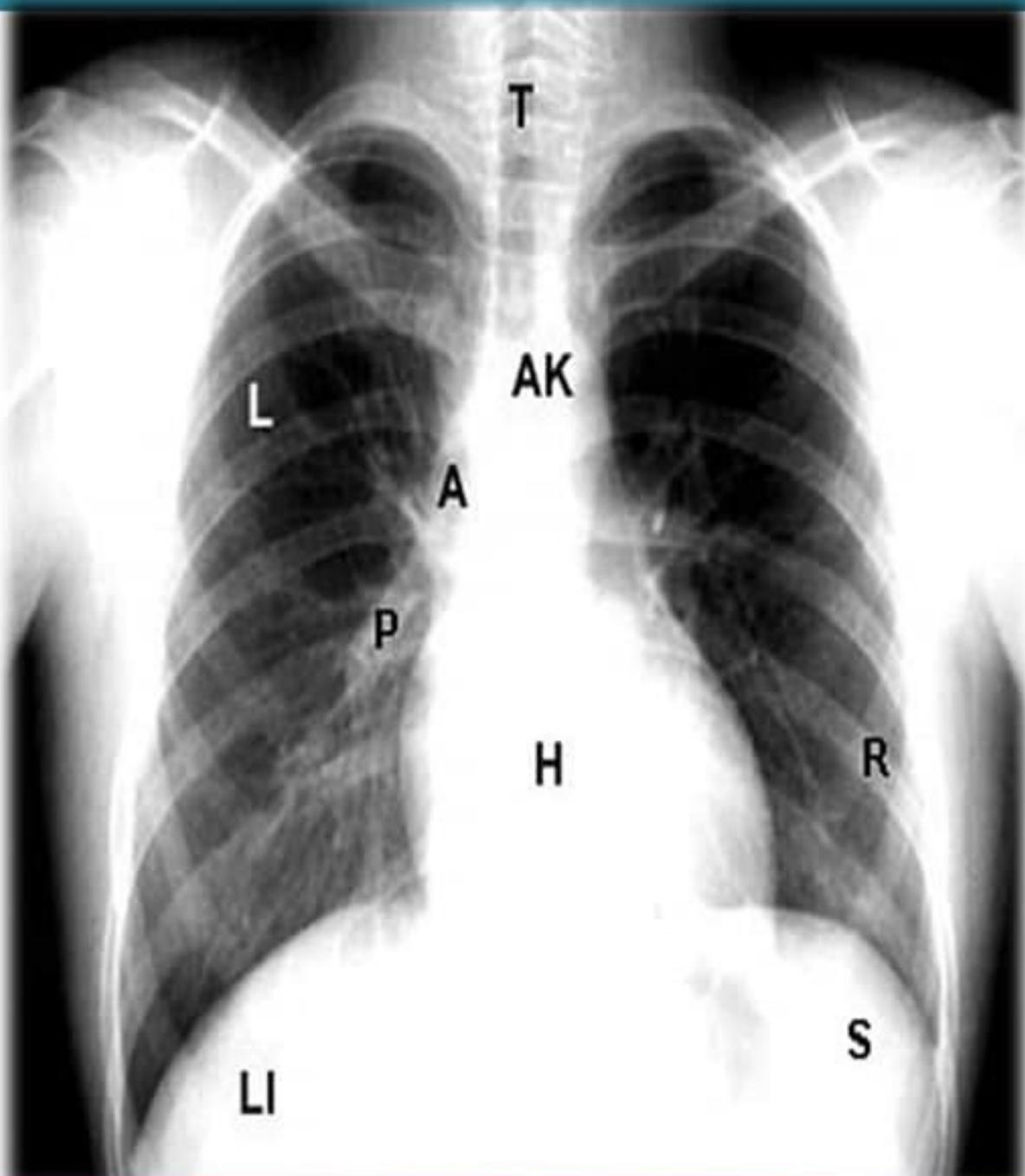


# Chest X-ray Interpretation



# Normal Chest X-ray



- L- Lung
- T- Trachea
- AK- Aortic Knob
- A- Ascending Aorta
- H- Heart
- R- Ribs
- P- Pulmonary Artery
- S- Spleen



# Consolidation



- Density in left lower lung field
- Loss of left heart silhouette
- Diaphragmatic silhouette intact
- No shift of mediastinum
- Blunting of costophrenic angle



# Consolidation



- Density in right upper lung field
- Lobar density
- Loss of ascending aorta silhouette
- No shift of mediastinum
- Transverse fissure not significantly shifted
- Air bronchogram

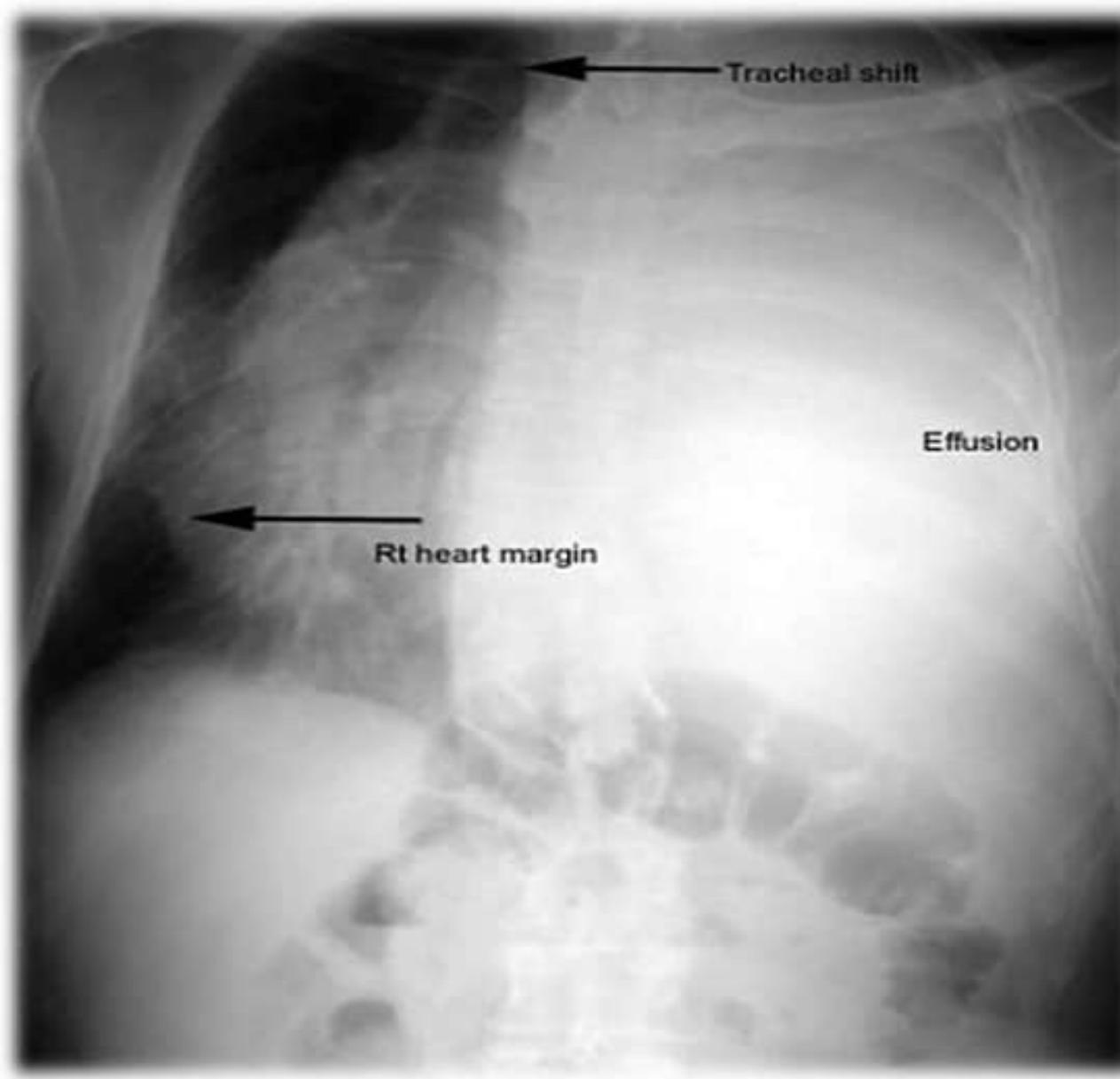


# Pleural Effusion



- Homogenous density
- Meniscus maximum in axilla
- Loss of cardiophrenic angle
- Loss of diaphragmatic and right cardiac silhouette

# Massive Pleural Effusion



- **Massive**
- **Shift of mediastinum**

# Loculated Pleural Effusion



- Homogenous density
- Loculated
- Loss of cardio-phrenic angle
- Loss of lateral portion of diaphragmatic silhouette

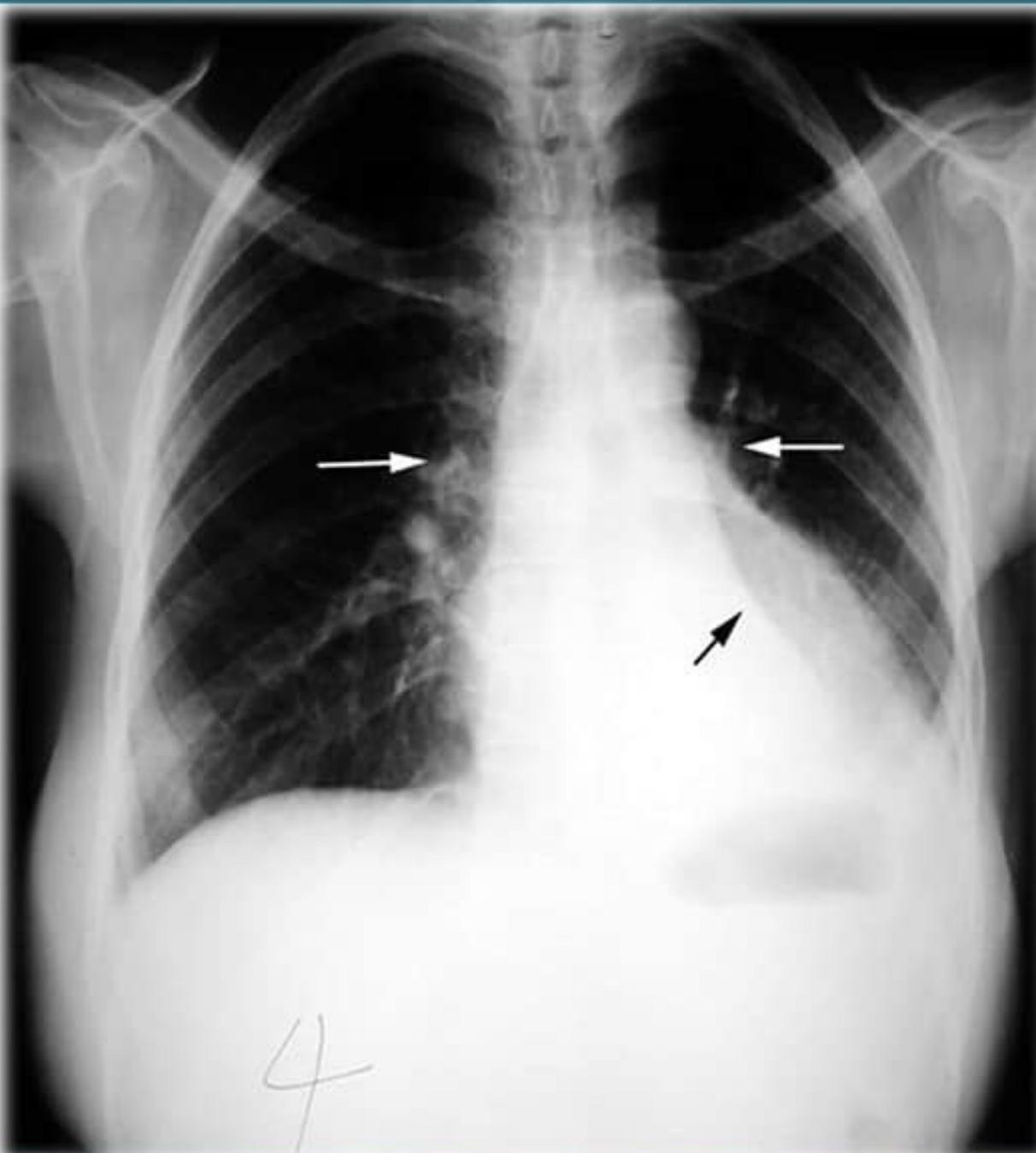
# Atelectasis Right Lung



- Homogenous density right hemithorax
- Mediastinal shift to right
- Right hemithorax smaller
- Right heart and diaphragmatic silhouette are not identifiable



# Left Lower Lobe Atelectasis



- Inhomogeneous cardiac density
- Left hilum pulled down
- Non-visualization of left diaphragm
- Triangular retrocardiac atelectatic LLL



# Pleural Fibrosis



- Small right hemithorax
- Diffuse haziness
- Tracheal shift to right
- Blunted costophrenic angle
- Lines not corresponding to fissures



# Tuberculosis



- LUL cavities
- RUL infiltrate
- Bilateral upper lobe disease

# Tuberculosis



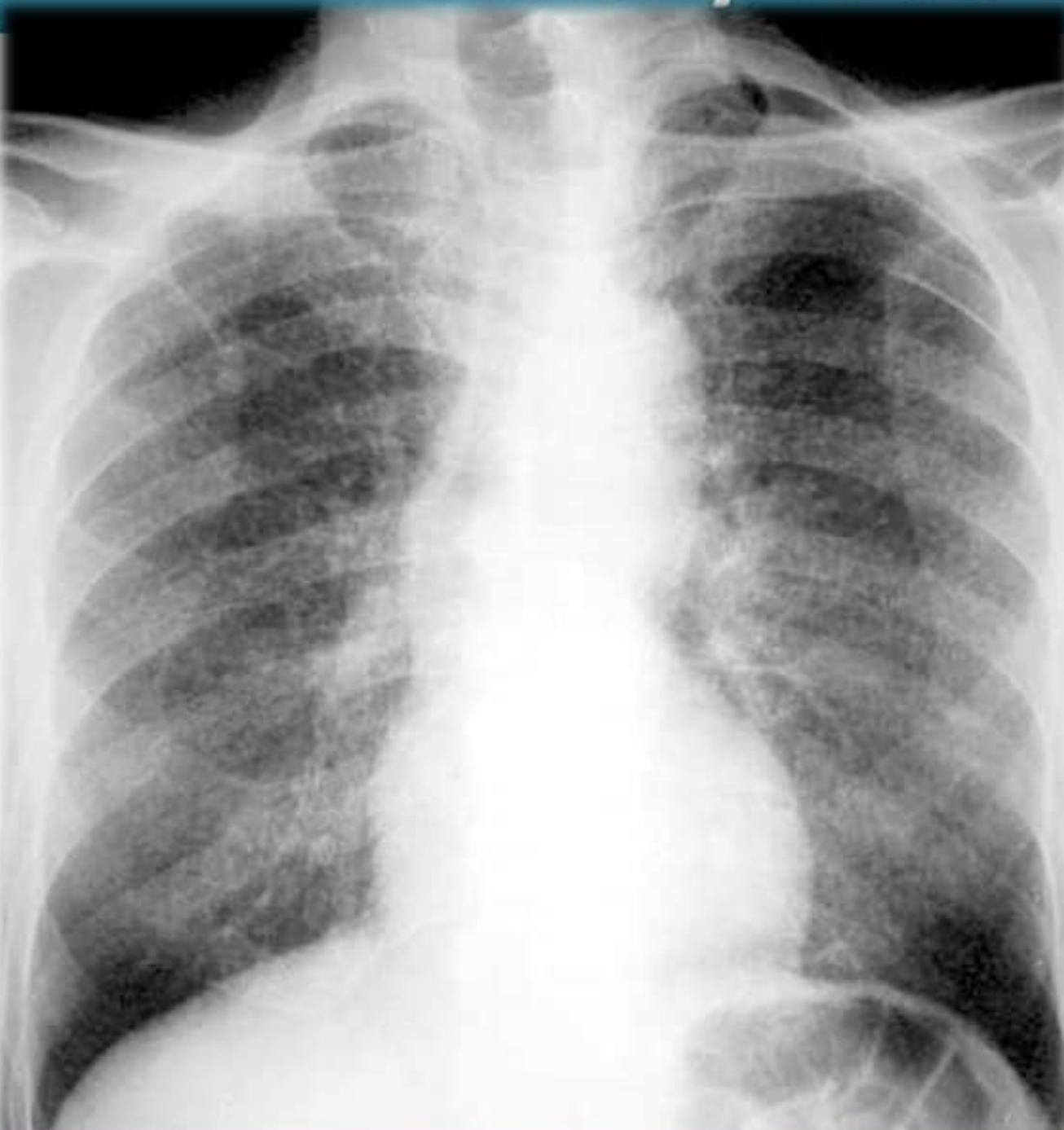
- LUL cavity
- Cavity behind clavicle
  - note increased density of clavicle in the region over lying cavity
- Pleural effusion on right



# Fungal ball

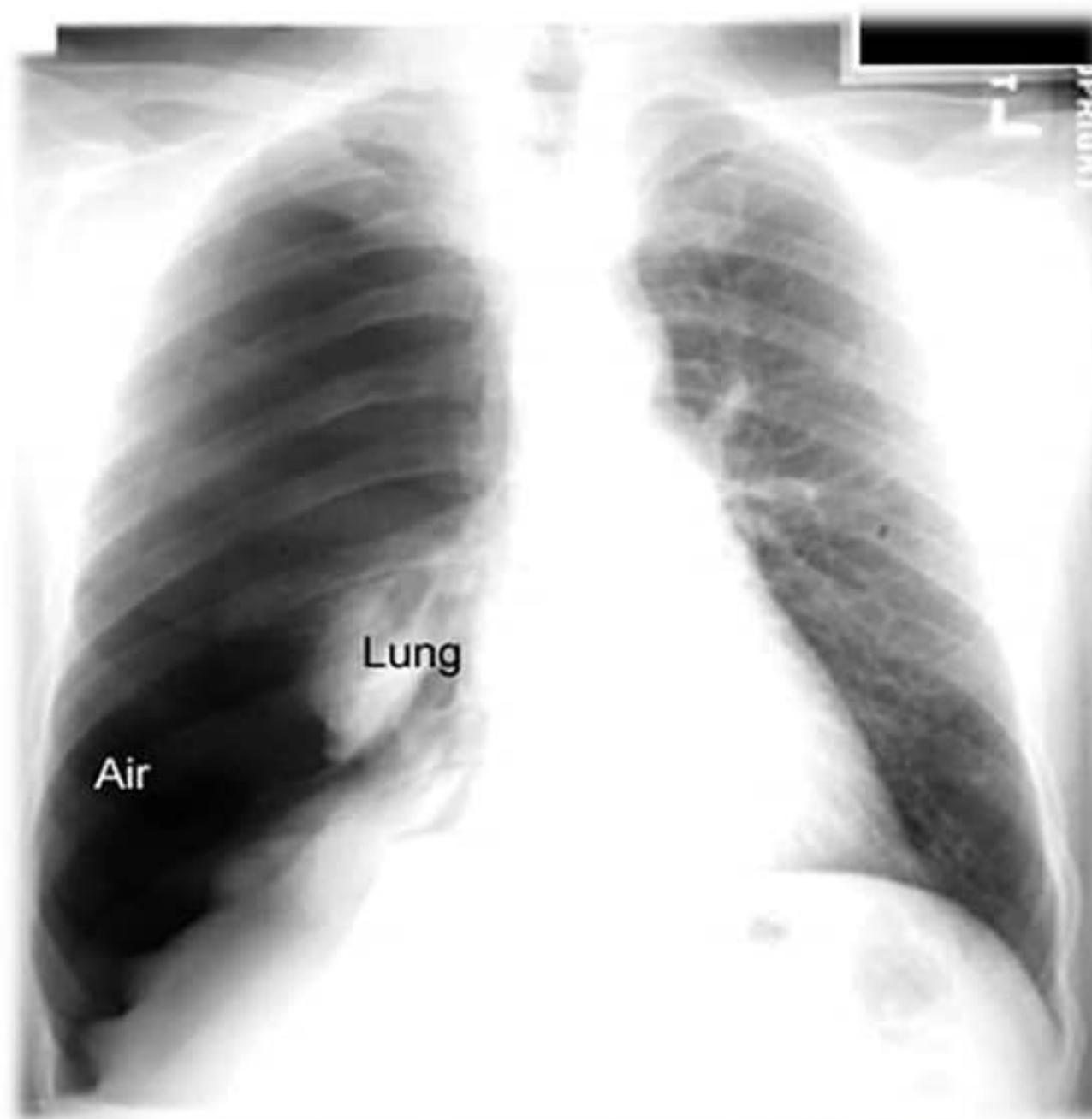


# Miliary Tuberculosis



- **Interstitial nodules**
  - Uniform size
  - Sharper edges

# Pneumothorax



- No vascular markings on right
- No shift of mediastinum to left
- Deep sulcus
- Atelectatic right lung
- Increased haziness on left: Diversion of entire cardiac output
- Small fluid level near costophrenic angle: Hydro pneumothorax



# Tension Pneumothorax



- No vascular markings on right
- Shift of mediastinum to left
- Deep sulcus
- Atelectatic right lung
- Increased haziness on left: Diversion of entire cardiac output



# Hydropneumothorax



- Air in pleural cavity
- Lung margin visible
- Bilateral fluid level:  
**Any time you see a horizontal fluid level, it means that there is air and fluid in the pleural space**



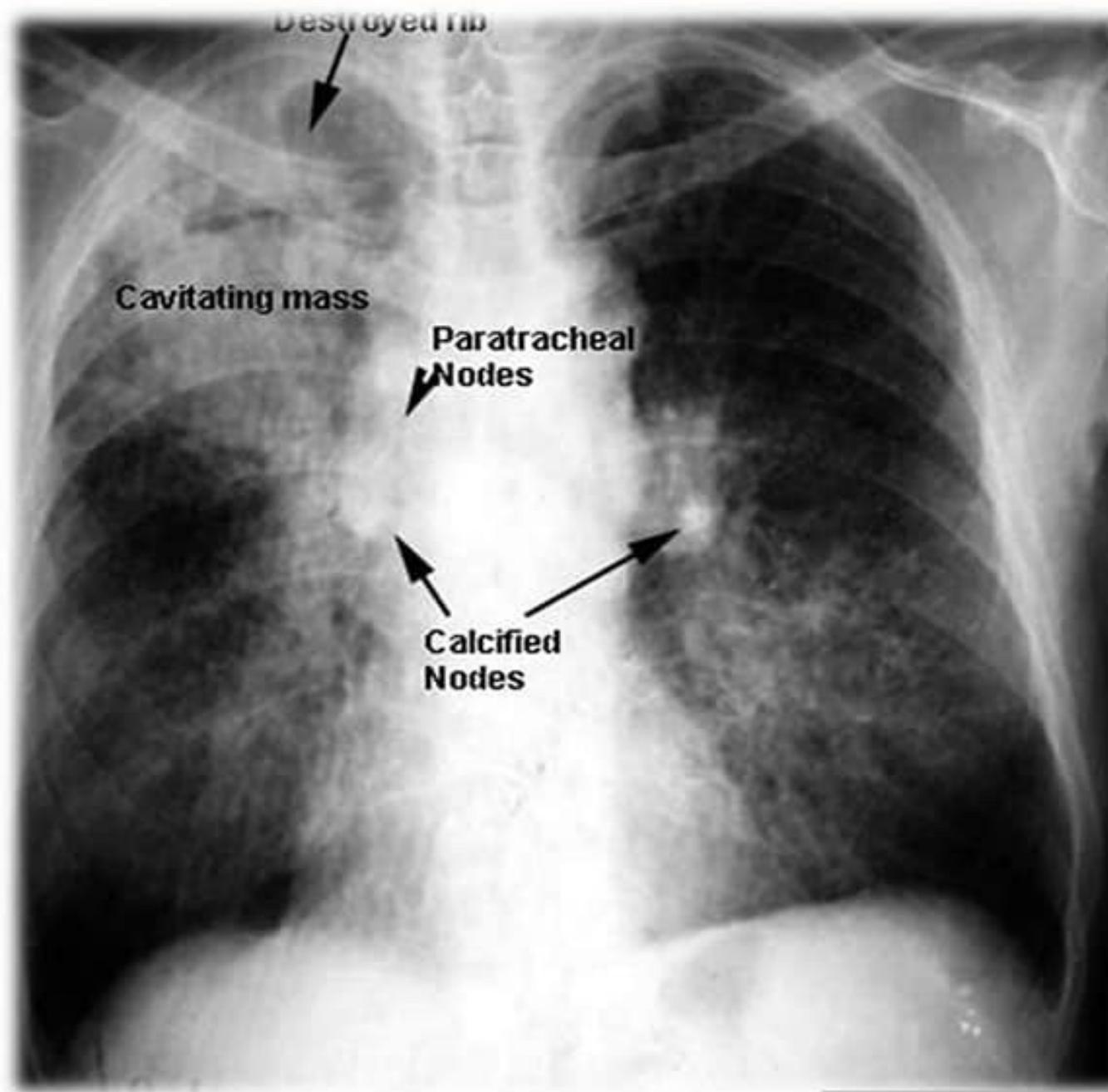
# Alveolar Cell Carcinoma



- Alveolar Cell Carcinoma / Solitary Pulmonary Nodule
- LUL anterior segment lesion
- Round with irregular margins
- Air bronchogram



# Pancoast Tumour



- Right apical mass
- Cavitating mass
- Para tracheal nodes
- 2nd rib destruction
- Calcified nodes (silicosis)



# Large Cell Cancer



- Large Cell Cancer
- Mass RUL

# Lung Mass



- Mass
- Round or oval
- Sharp margin
- Homogenous
- No respect for anatomy
- Lung Cancer: Large cell
- 



# Lung Abscess



- Bilateral
- Multiple
- Fluid level

# Lung Abscess



- Anterior segment of LUL
- Atypical location for aspiration lung abscess
- Thick wall
- Fluid level



# Pulmonary Edema



- **Bilateral**
- **Diffuse**
- **Butterfly pattern**
- **Soft fluffy lesions**
- **Coalescing**
- **Air bronchogram**



# Emphysema



- Hyperinflation
- Hyperlucency
- Low set flat diaphragm
- Vertical heart
- Pre and infra cardiac lungs
- Barrel shape
- Emphysema
- Avascular zones
- Cephalization of upper lung fields is not evident
- Predominant basal involvement (not evident)

