

Chest X-ray Interpretation



Pleural Firosis



- **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**



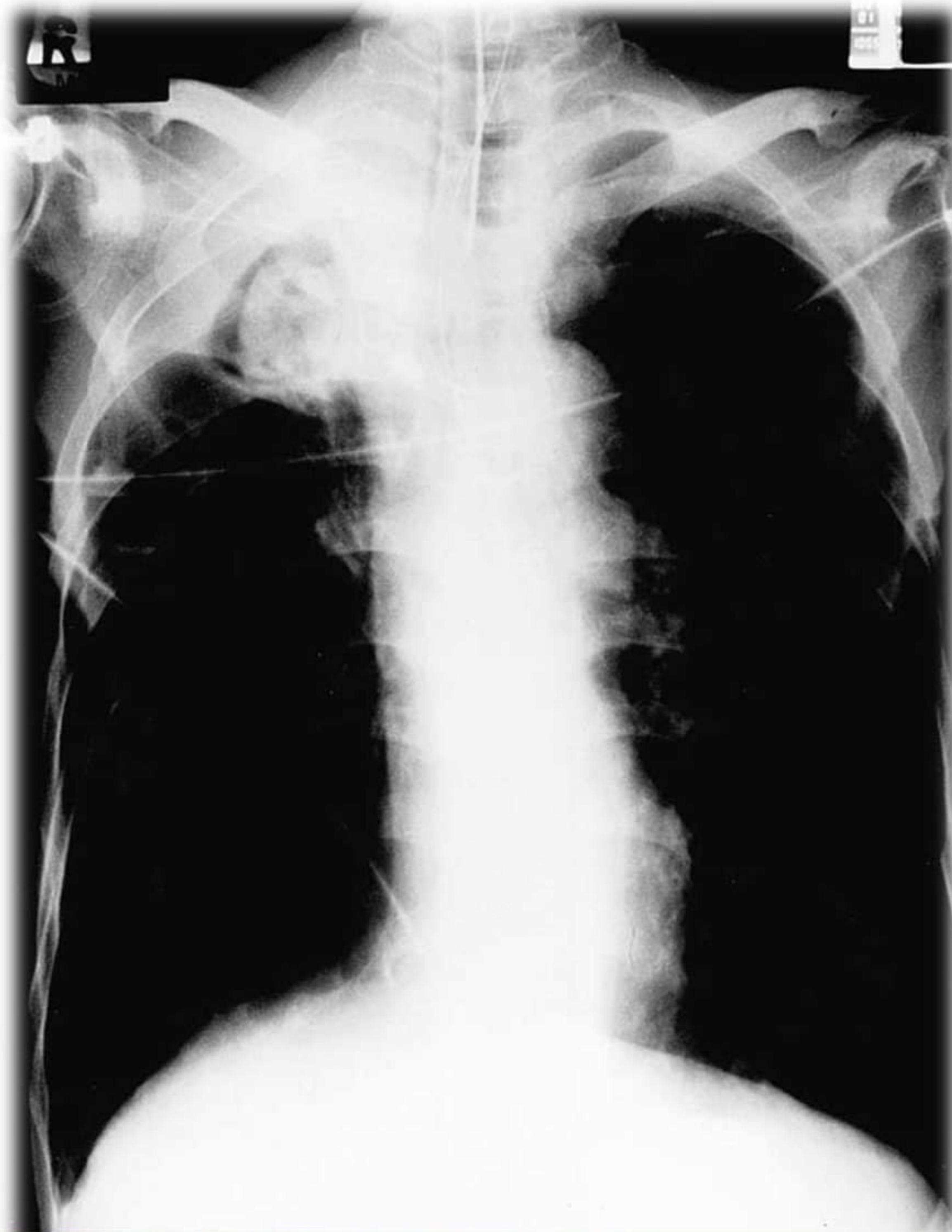
Tuberculosis



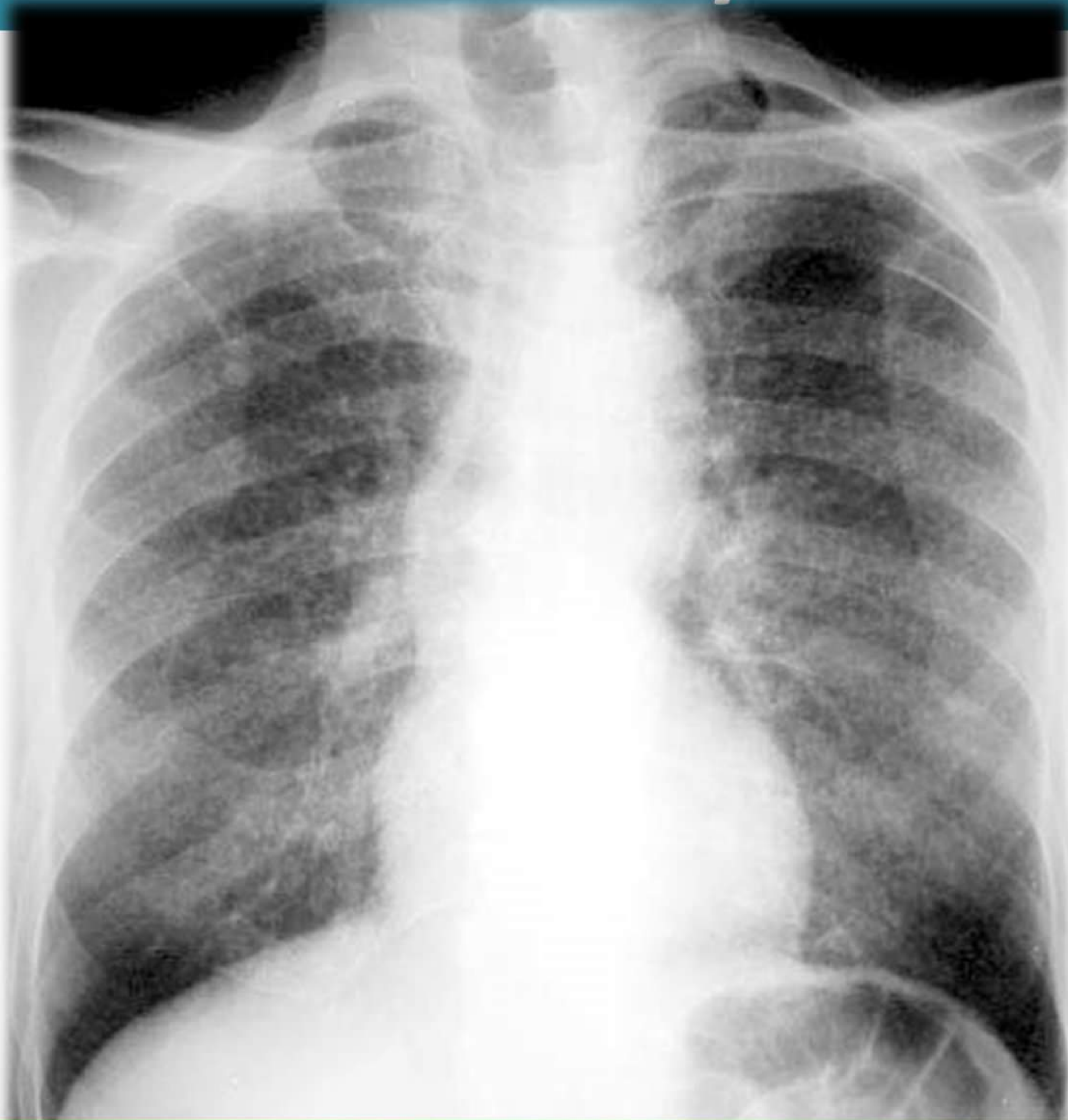
- **LUL cavity**
- **Cavity behind clavicle**
- note increased density of clavicle in the region over lying cavity
- **Pleural effusion on right**



Fungal ball



Miliary Tuberculosis



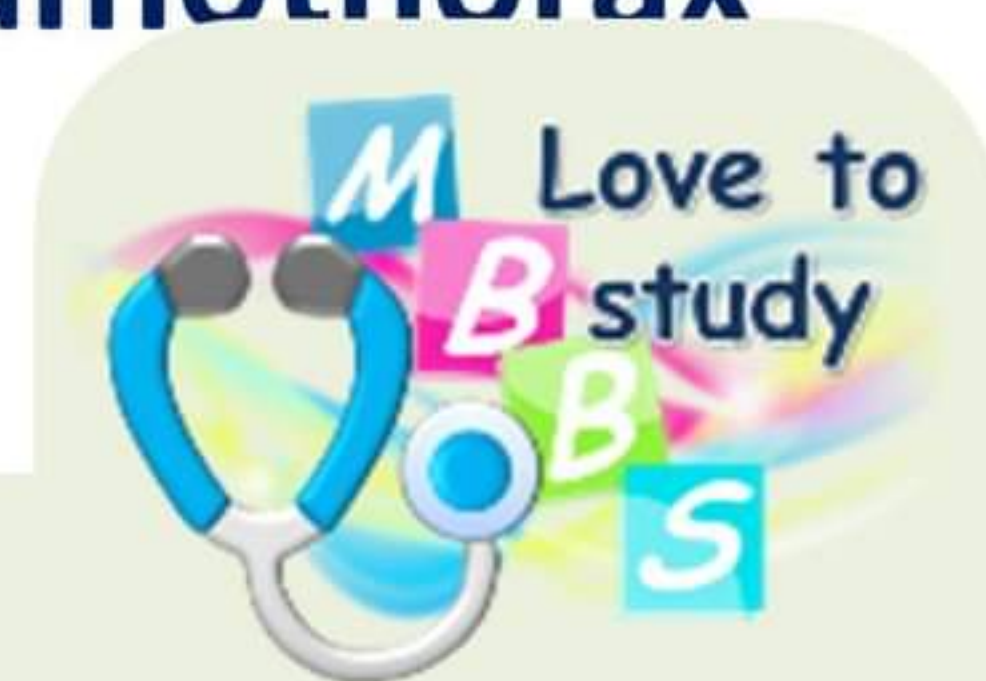
- **Interstitial nodules**
 - **Uniform size**
 - **Sharper edges**



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



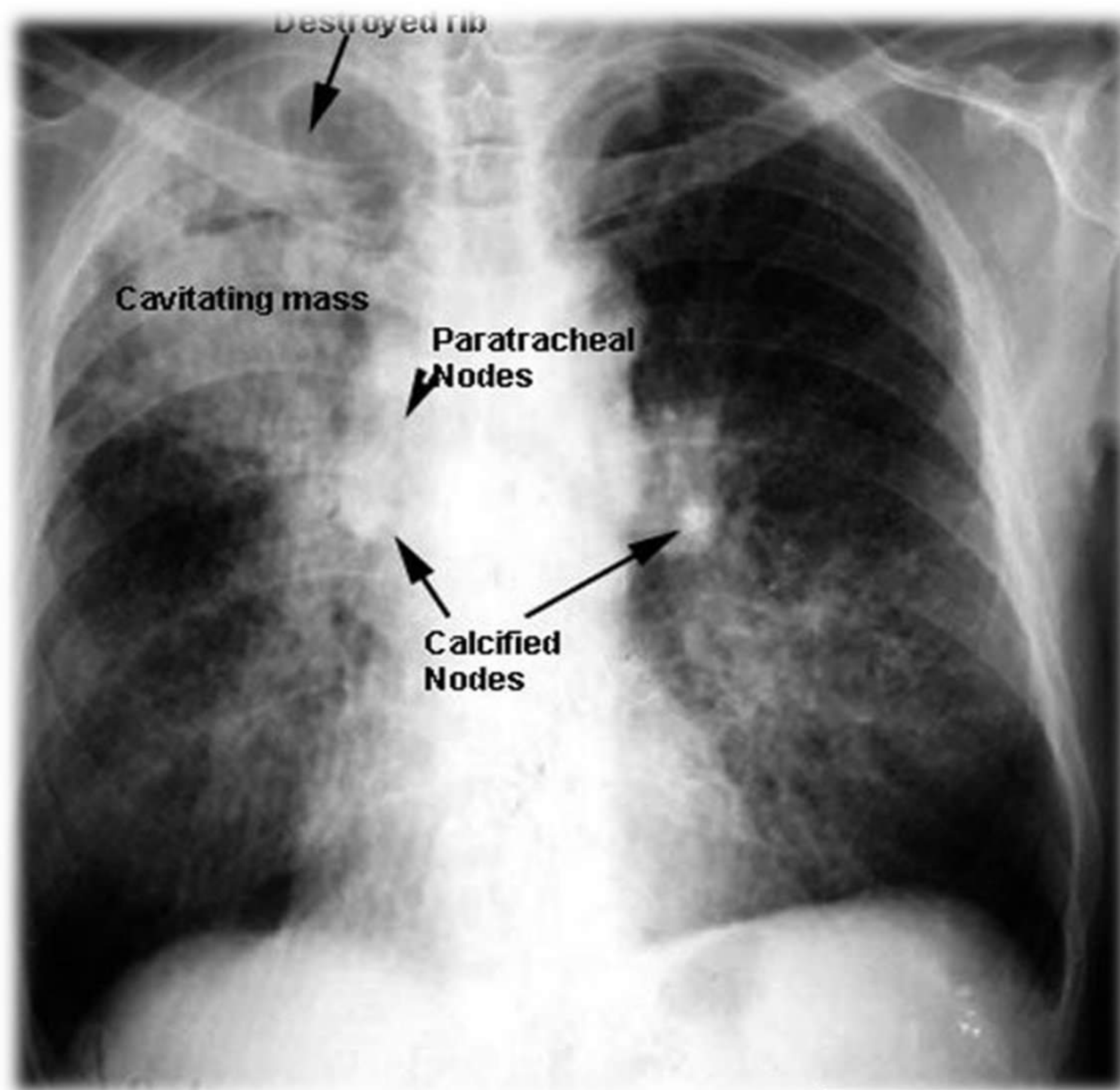
Alveolar Cell Carcinoma



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



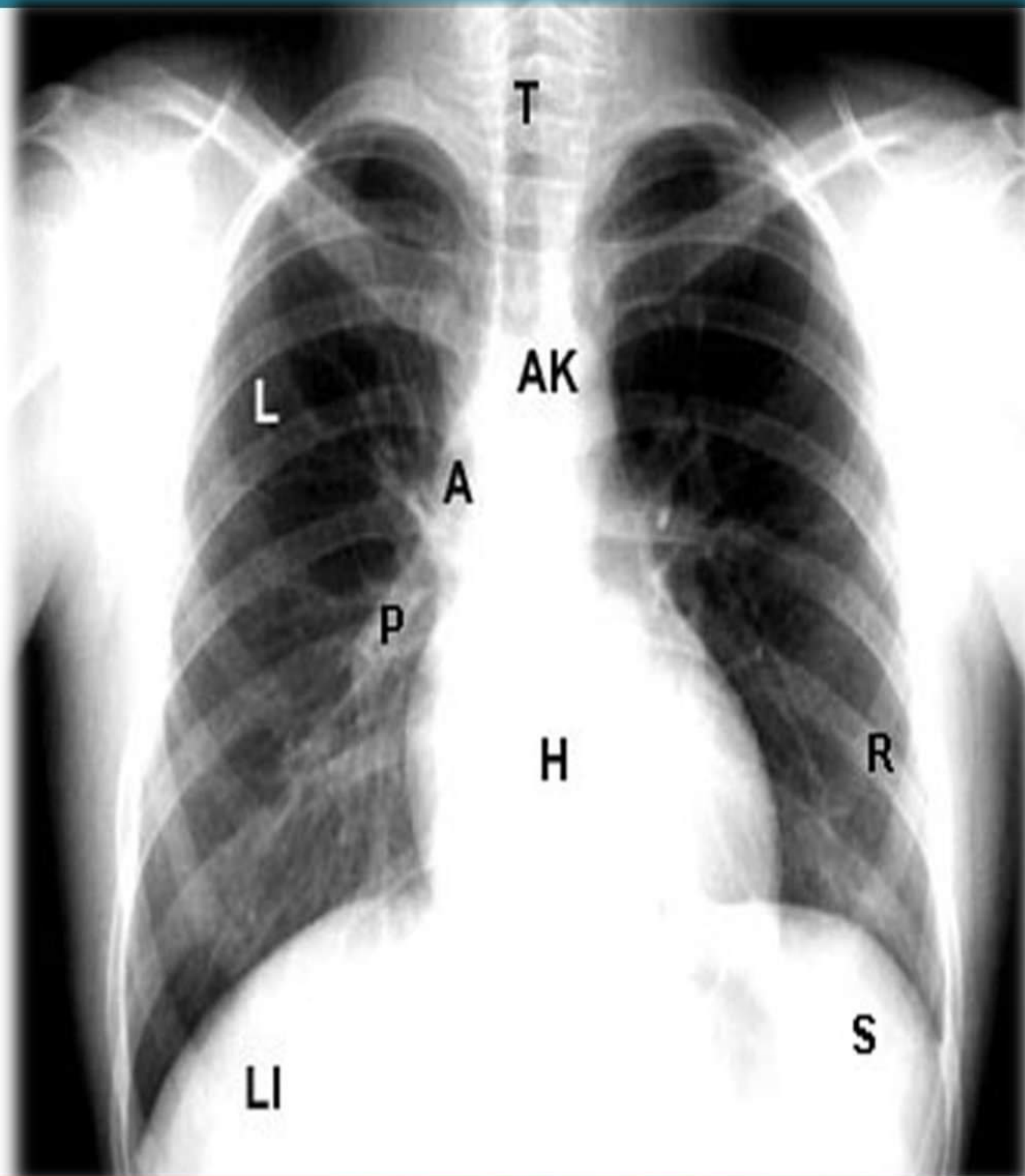
Pancoast Tumour



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



Normal Chest X-ray



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



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)



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**



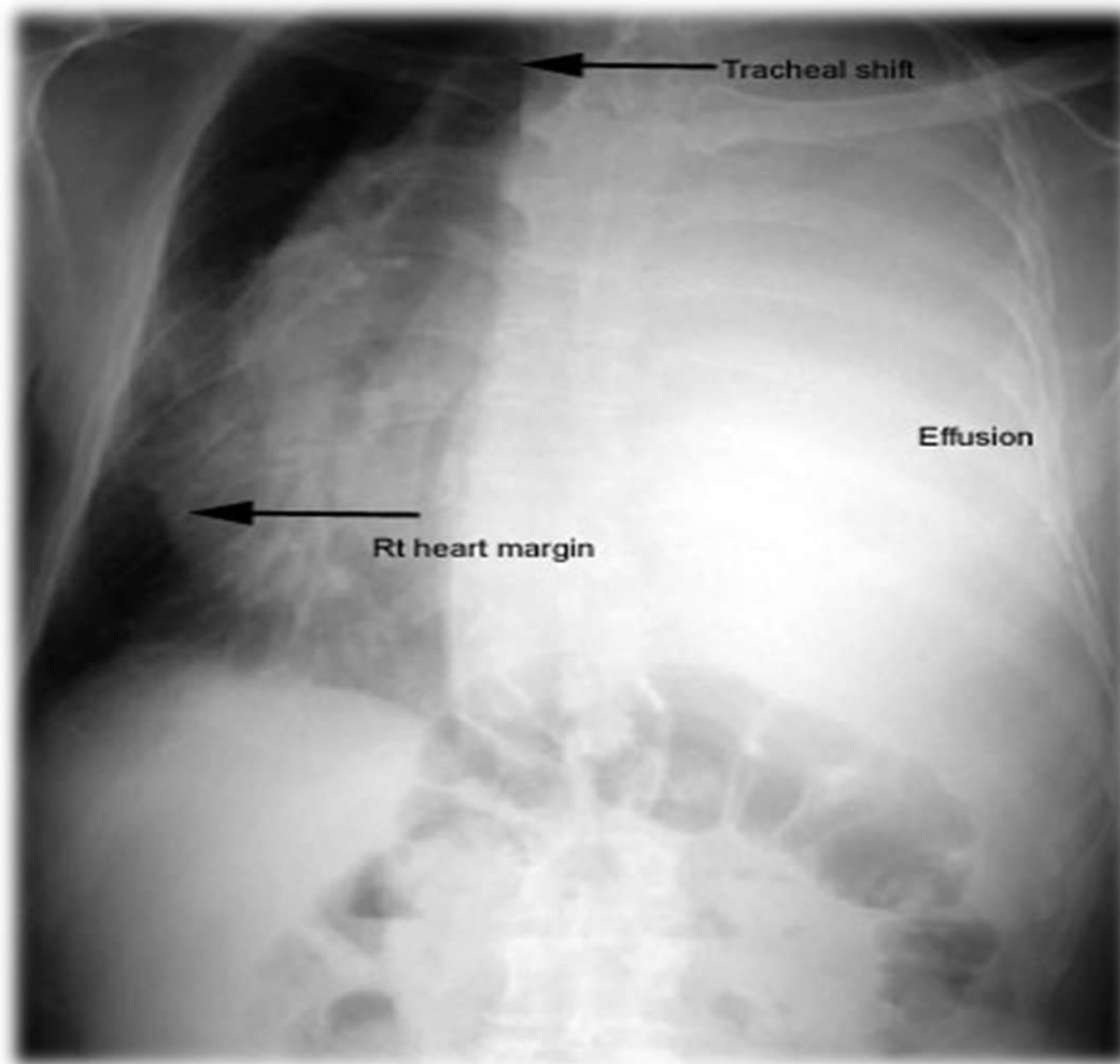
Pleural Effusion



- **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**



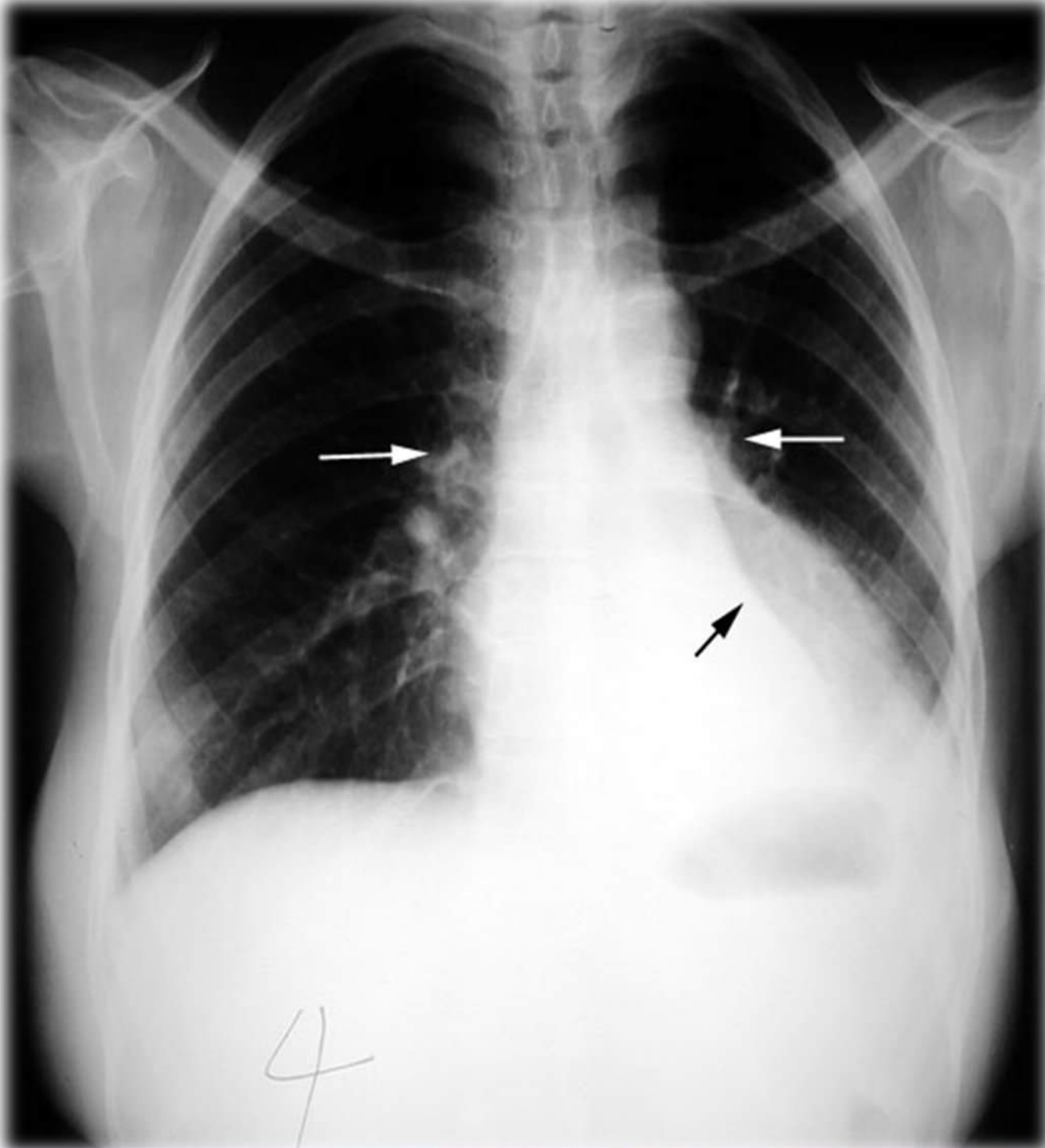
Atelectasis Right Lung



- **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**

