

# 65 y/o M with shortness of breath and chest pain

Atul Kumar, MD, MS



AP Chest Radiograph

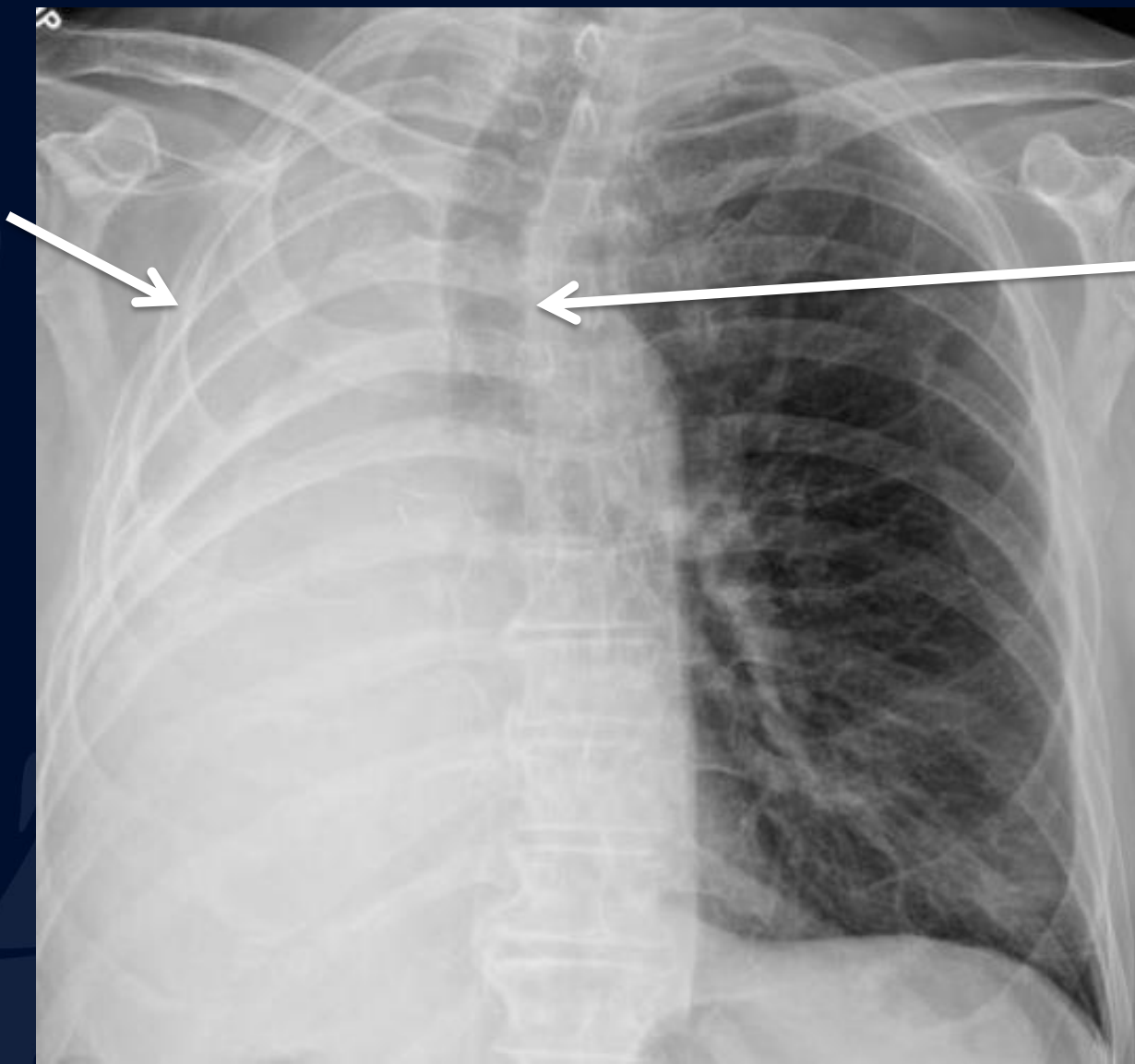


Axial Contrast Enhanced CT



# Right Pneumonectomy

Total opacification of right hemithorax

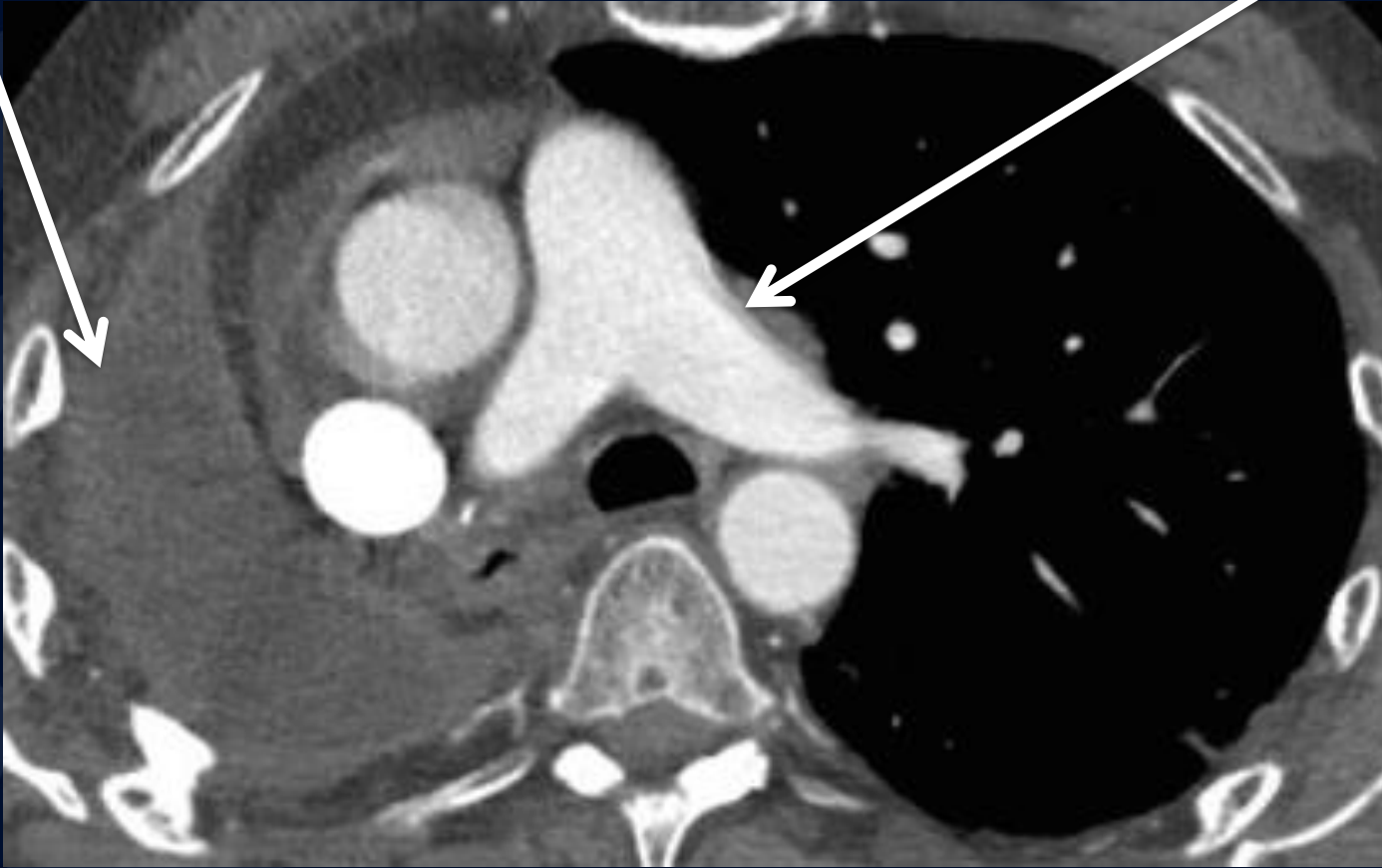


Rightward shift of trachea and mediastinal structures

AP Chest Radiograph

Fluid in  
pneumonectomy  
bed

Rightward shift of  
trachea and  
mediastinal  
structures



Axial Contrast Enhanced CT

# Pneumectomy

- Surgical resection of lung and visceral pleura
- Treatment of lung cancer, tuberculosis, or bronchiectasis
- Differential Diagnosis
  - Midline shift towards affected side
    - Pneumectomy
    - Total lung collapse
    - Pulmonary agenesis/hypoplasia
  - Midline shift away from affected side
    - Pleural Effusion
    - Chylothorax
    - Mass
    - Diaphragmatic hernia
  - No shift of midline
    - Consolidation
    - Pulmonary edema
- Early Imaging
  - Lucency in pneumectomy space
  - Mediastinal structures midline
  - Pneumectomy space fills gradually
- Late Imaging
  - Hemithorax white-out
  - Mediastinal shift towards pneumectomy