

CXR FACTSHEET

Air → Radiolucent | Fluid → Radiopaque

TENSION PNEUMOTHORAX

Risk factors

- Trauma
- Marfan's (CT disorder)
- Emphysema (Bullae rupture)

Affected side	Unaffected side
✗ lung markings ↑ rib spacing flattened hemidiaphragm	Mediastinal shift



Tension pneumothorax

! Always look for rib fractures in a RESUS situation

- Urgent decompression @ 2nd intercostal space w/ large bore needle

PNEUMONIA



Right lower lobe pneumonia

- Bronchopneumonia
- Lobar pneumonia

Lower lobe consolidation	Middle lobe consolidation
Right heart border viewed clearly (Silhouette sign)	Right heart border not seen

Loosened streaks going thru consolidation → Air filled bronchioles

Complications

- Parapneumonic effusion (Simple-complex-empyema)
- Necrotising pneumonia

HEART FAILURE WITH APO

- Upper lobe diversion/cephalization of pulmonary venous
- Kerley B lines
- Perihilar haziness
- Symmetric fluffy airspace opacities
- Cardiomegaly (Pacemakers, stents, artificial valves, sternotomy wires, loop recorders?)
- Pleural effusions



Heart failure

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CHEST TRAUMA

- Follow rib outline for any fractures & radiological flail segment
- Hemothorax - Trauma XR usually in supine, fluid will layer on the back and along lateral border of lung
- Airspace consolidation on the ipsilateral chest, pulmonary contusions likely



Chest trauma



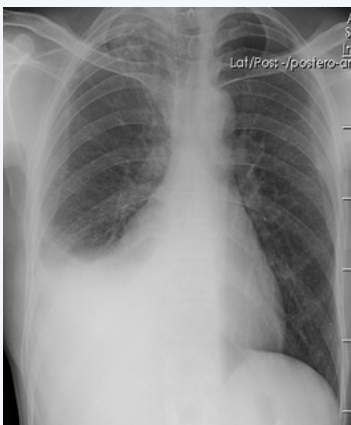
Aortic dissection

AORTIC DISSECTION

- Widened mediastinum (>8-8.8cm at the level of the aortic knob)
- Displacement of the aortic atheromatous calcifications
- If pleural effusion present → Dissection might be leaking out

PLEURAL EFFUSION

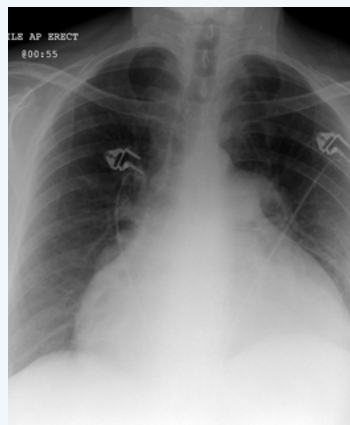
- Ensure it is erect XR
- Meniscus Sign
- Loculated - Does not follow gravity
- Complex pleural effusion - Fibropurulent, blood stained)



Pleural effusion

PERICARDIAL EFFUSION

- Water bottle sign
- Chunky pulmonary vessels
- Oreo signs



Pericardial effusion

HIATAL HERNIA

Look for any

- Lucency around the heart
- Gastric bubble displaced

if there is bowel loops in chest ➔
Consider diaphragmatic rupture



Hiatal hernia