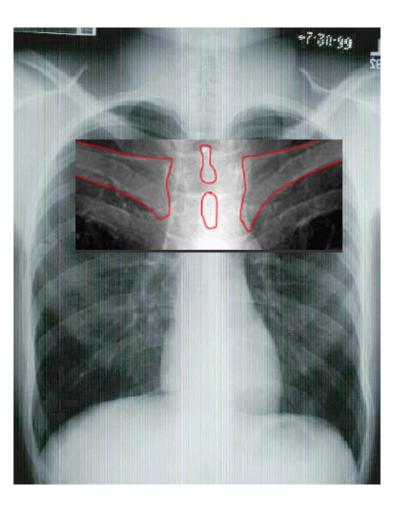
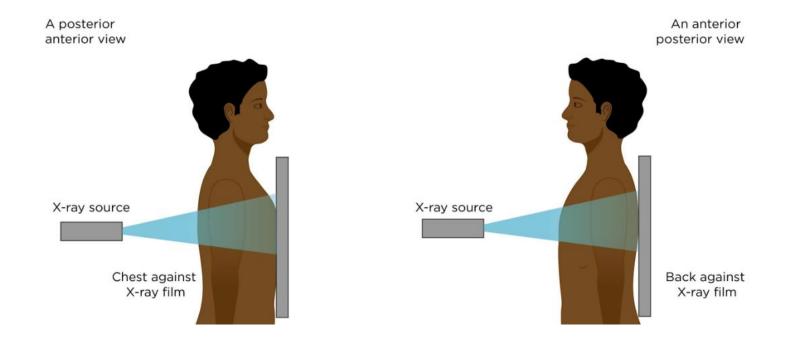
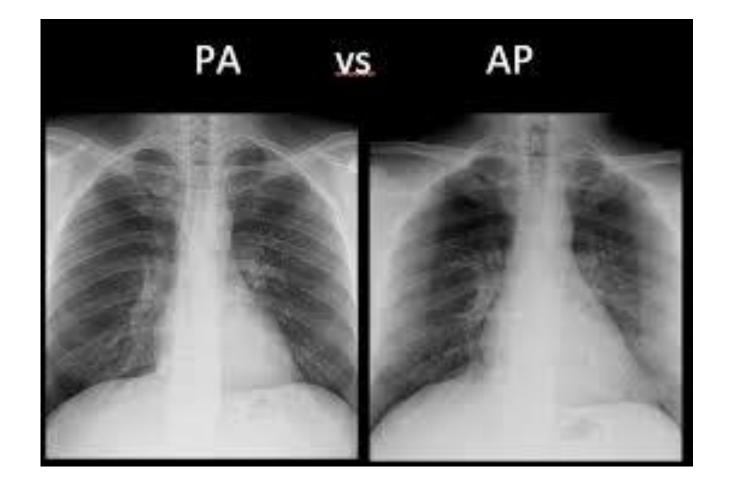
CXR

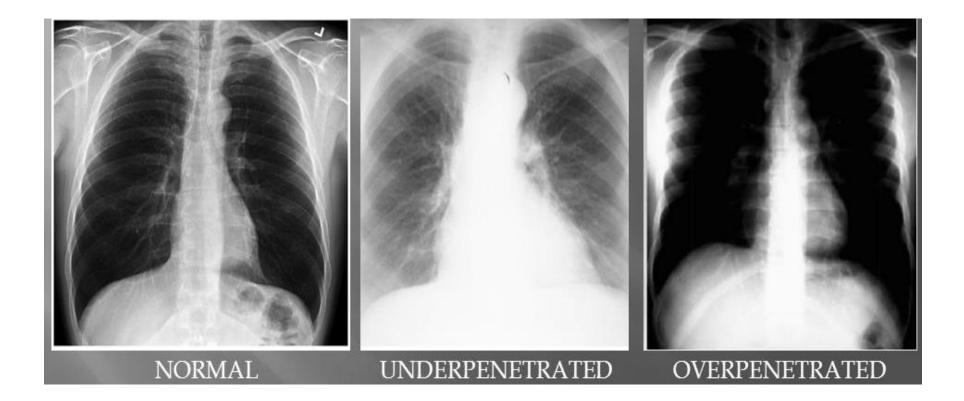


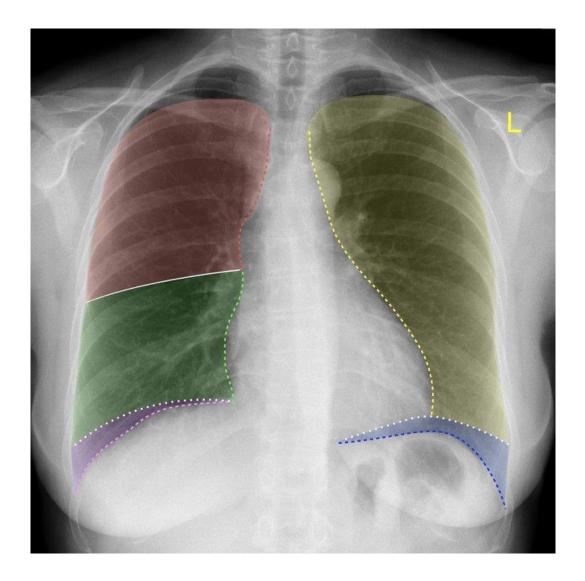
Patient positioning

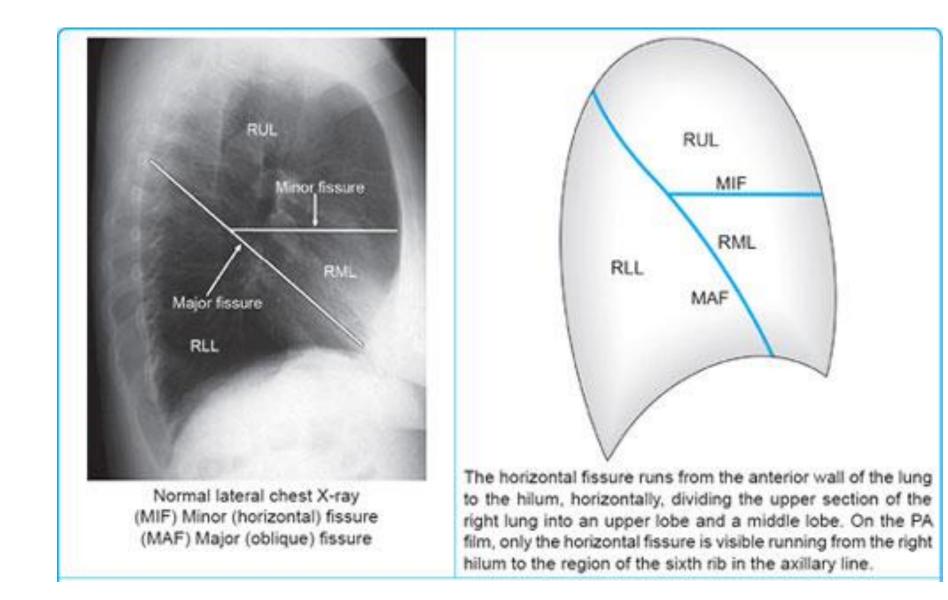


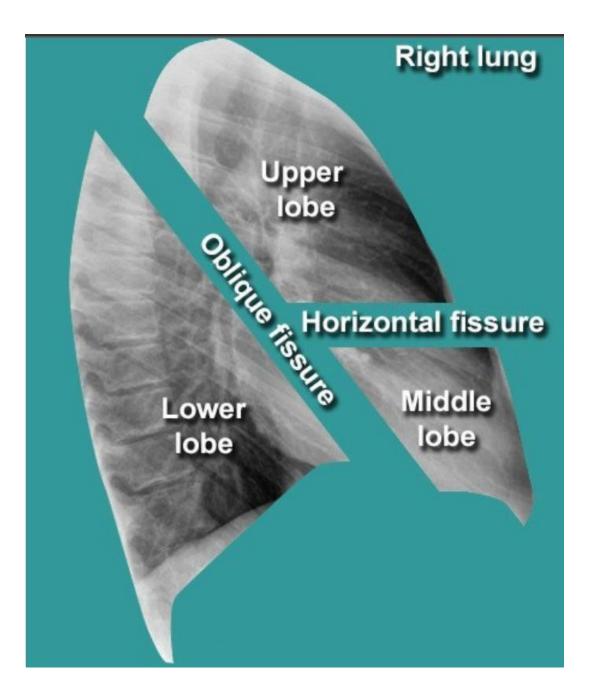


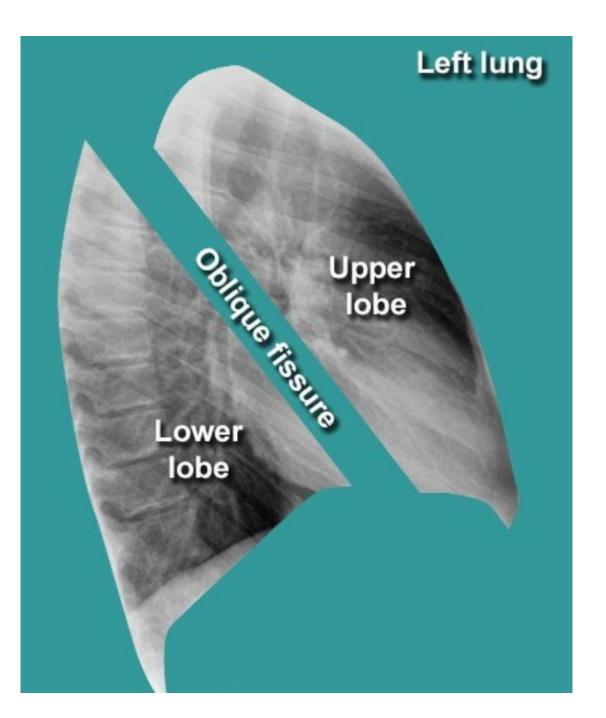
Penetration

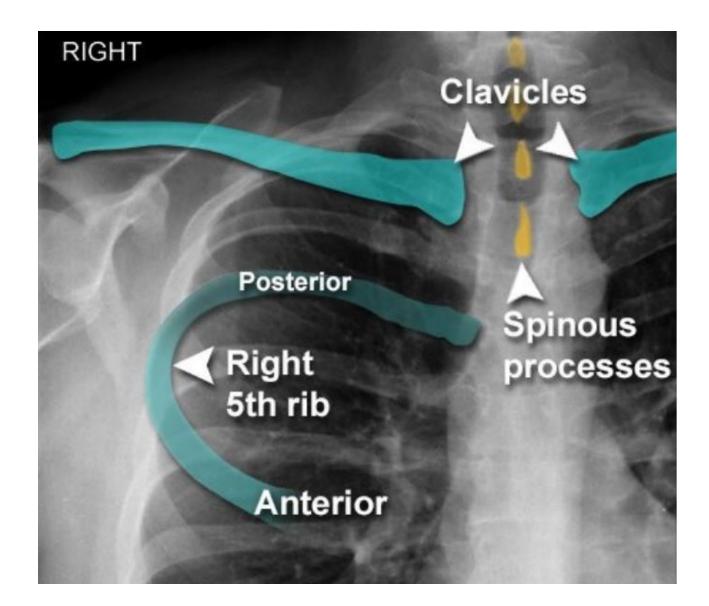


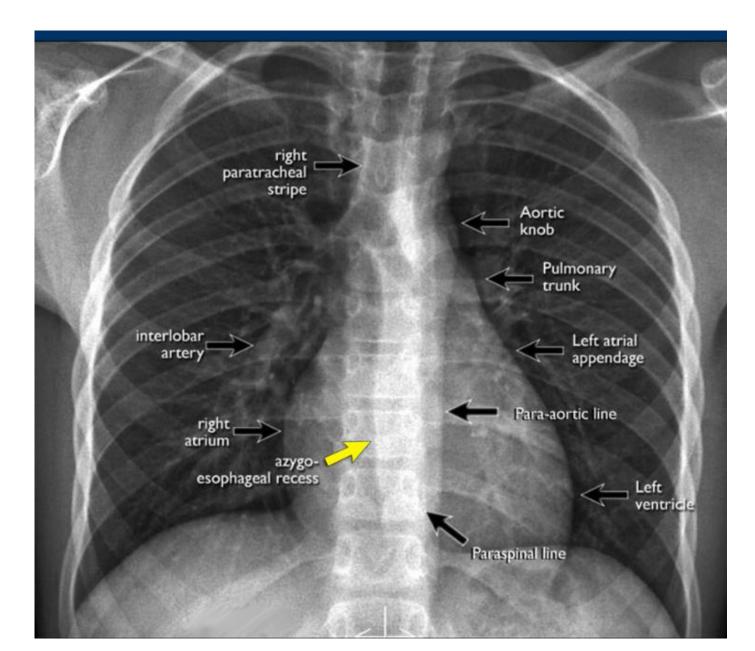


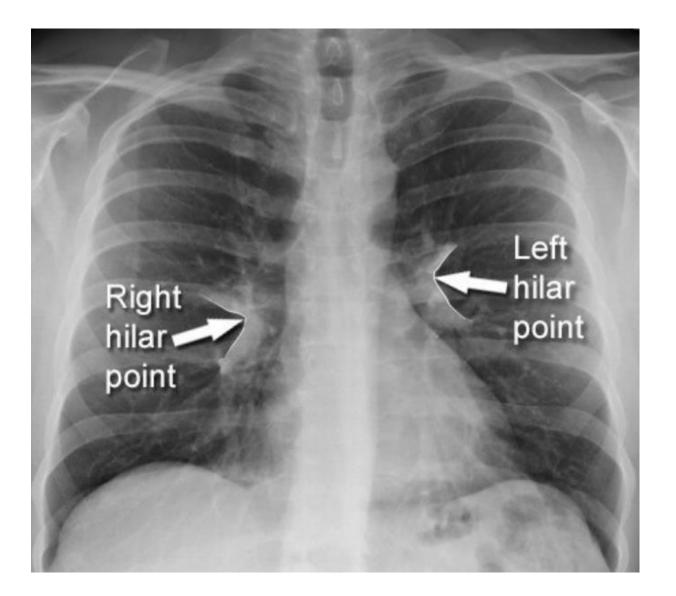


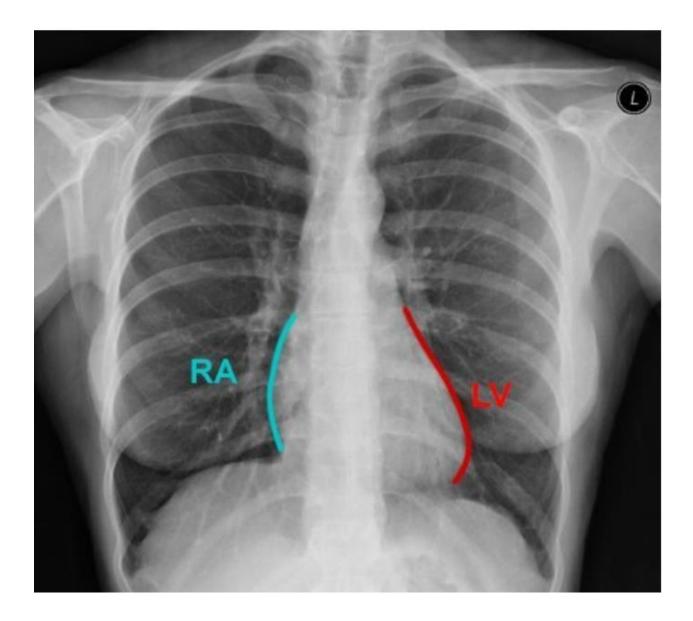


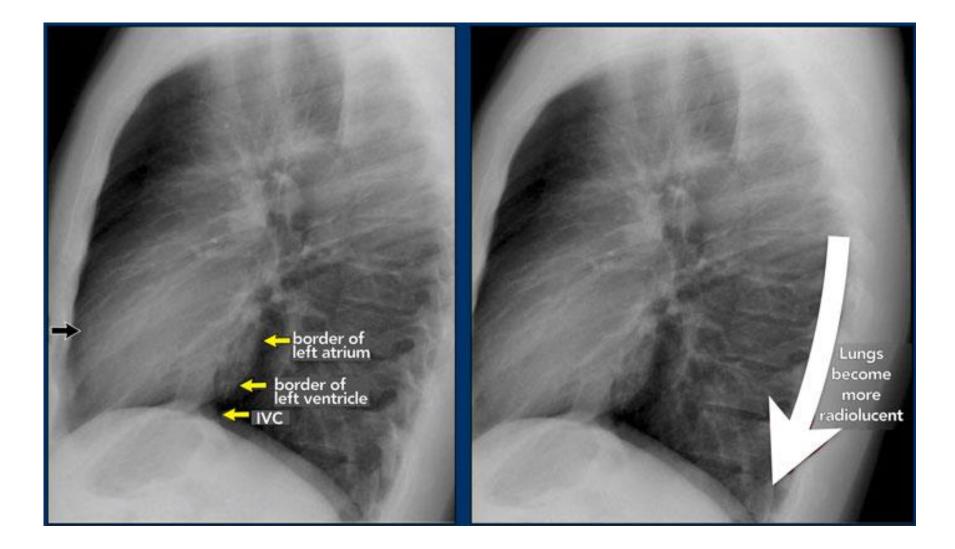


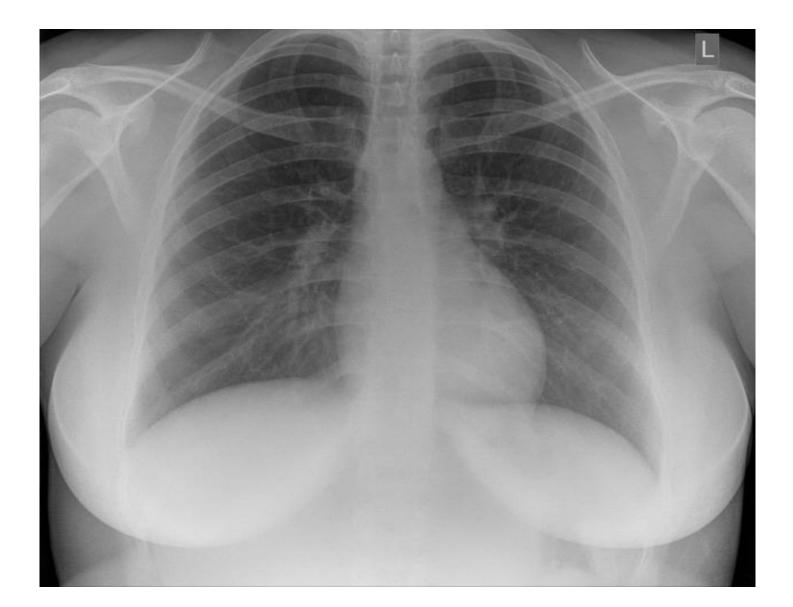










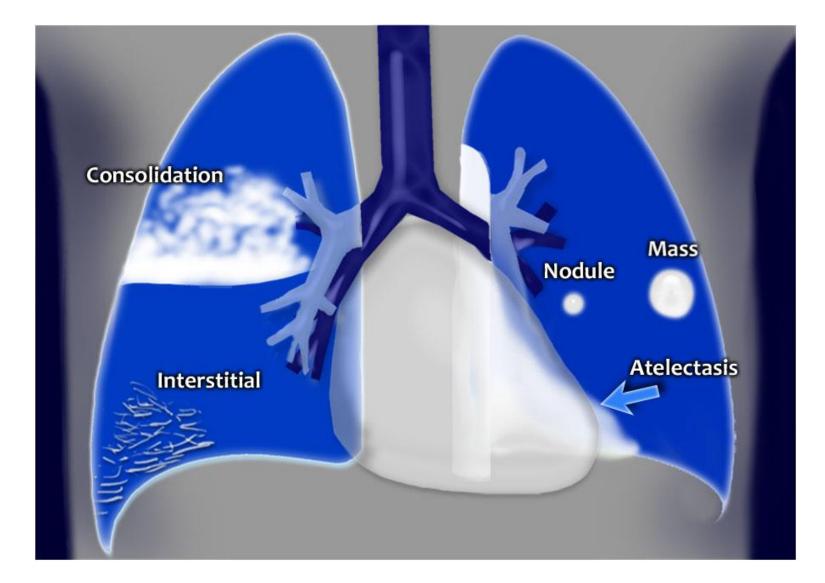


CXR- Lung disease

- On a chest x-ray lung abnormalities will either present as areas of increased density or as areas of decreased density.
- Lung abnormalities with an increased density also called opacities are the most common.
- 1. Consolidation
- 2. Interstitial
- 3. Nodules or masses
- 4. Atelectasis
- Lung abnormalities with **decreased density**:
- 1. Cavity lucency with a thick wall
- 2. Cyst lucency with a thin wall
- 3. Emphysema lucency without a visible wall

Opacities

- **Consolidation** any pathologic process that fills the alveoli with fluid, pus, blood, cells (including tumor cells) or other substances resulting in lobar, diffuse or multifocal ill-defined opacities.
- Interstitial involvement of the supporting tissue of the lung parenchyma resulting in fine or coarse reticular opacities or small nodules.
- Nodule or mass any space occupying lesion either solitary or multiple.
- Atelectasis collapse of a part of the lung due to a decrease in the amount of air in the alveoli resulting in volume loss and increased density.



Consolidation

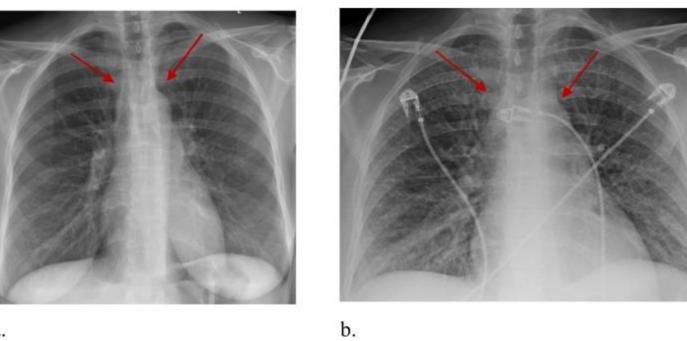
The key-findings on the X-ray are:

- Ill-defined homogeneous opacity obscuring vessels
- Silhouette sign: loss of lung/soft tissue interface
- Air-bronchogram
- Extention to the pleura or fissure, but not crossing it
- No volume loss
- No mediastinal shift .

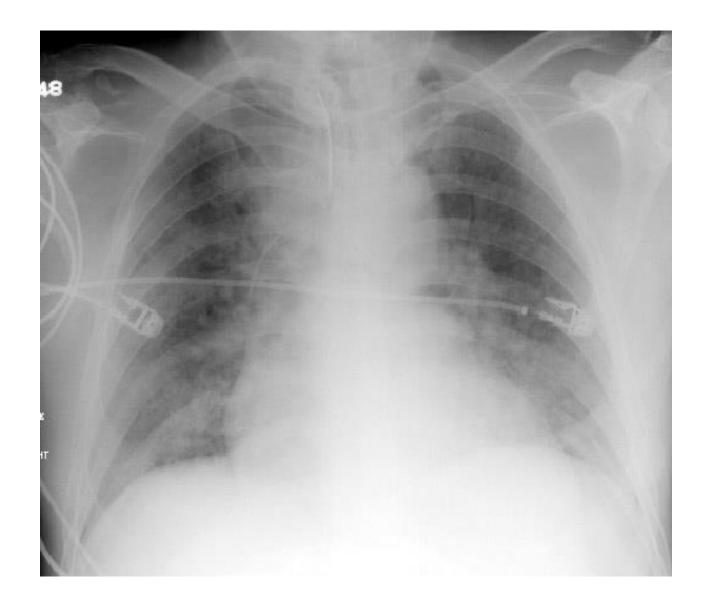
Atelectasis

The key-findings on the X-ray are:

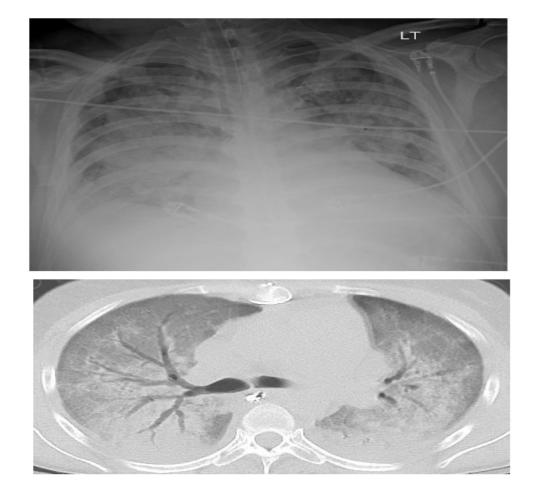
- Sharply-defined opacity obscuring vessels without air-bronchogram
- Volume loss resulting in displacement of diaphragm, fissures, hila or mediastinum

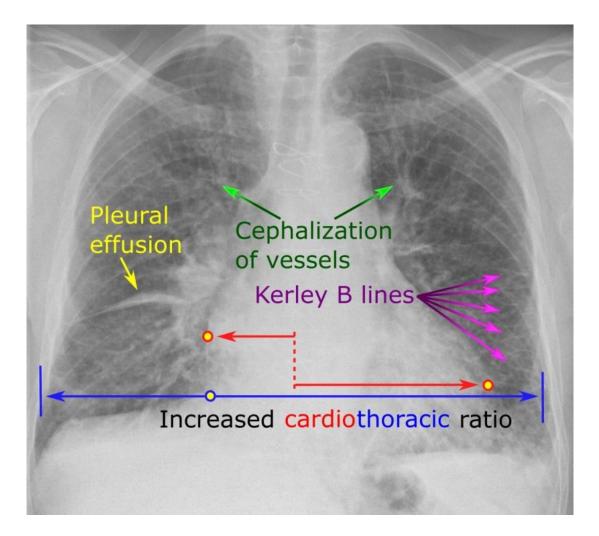


a.

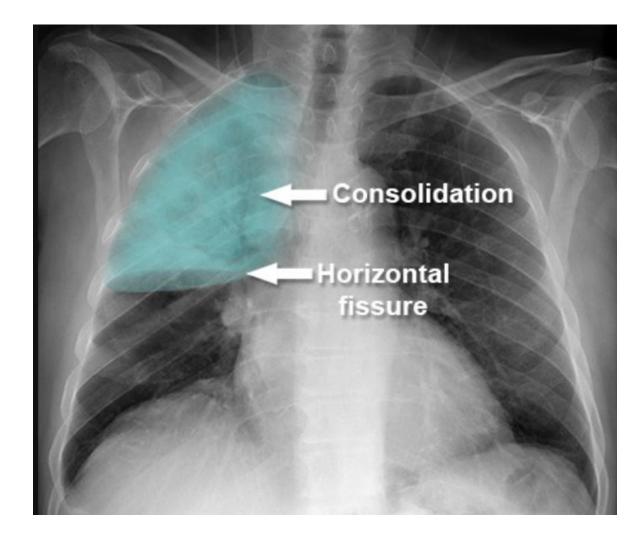


Same patient few days later

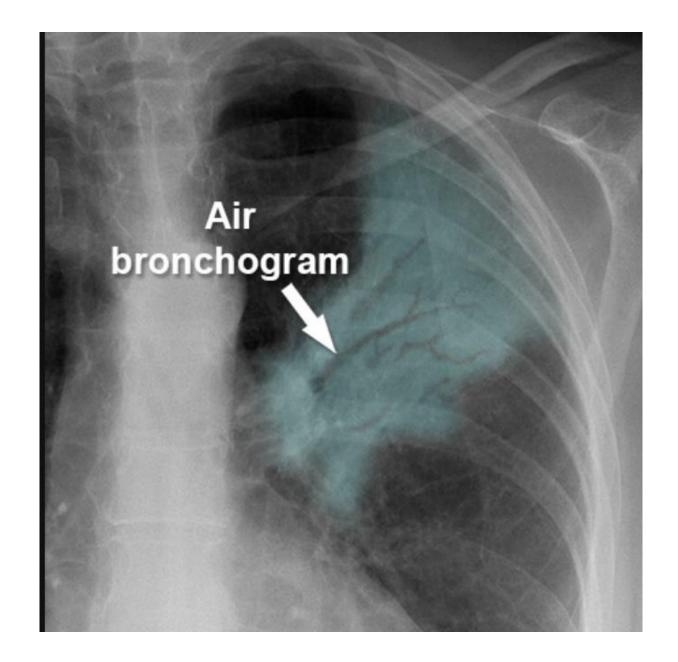




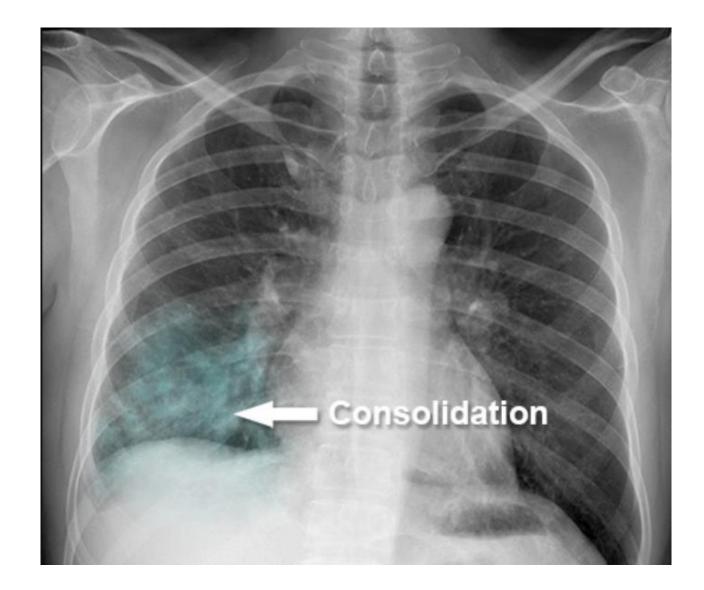




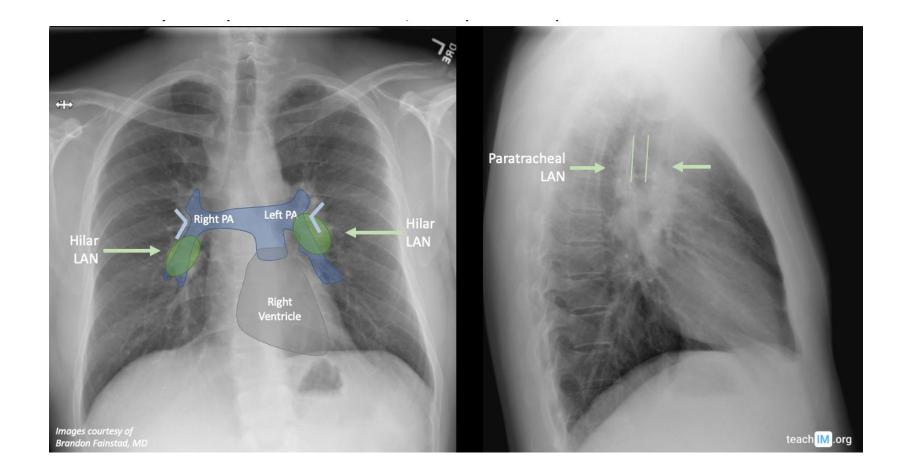


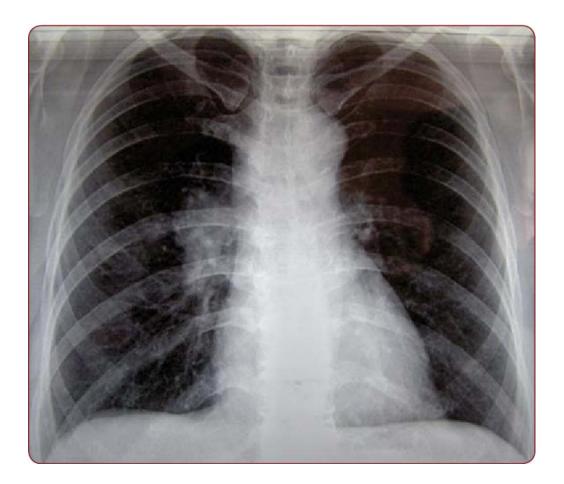










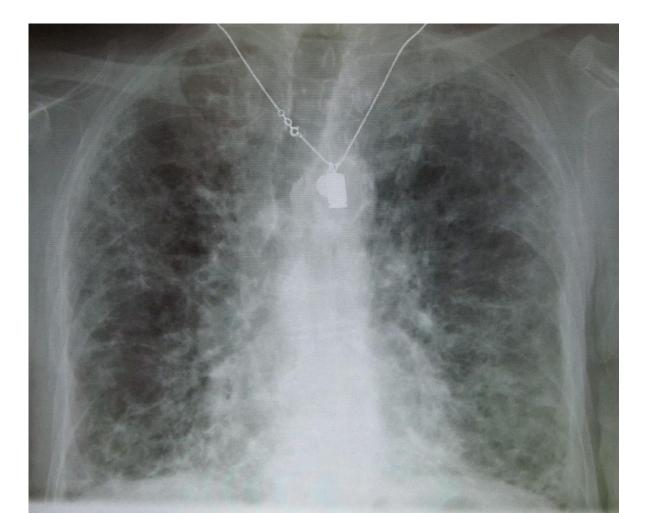




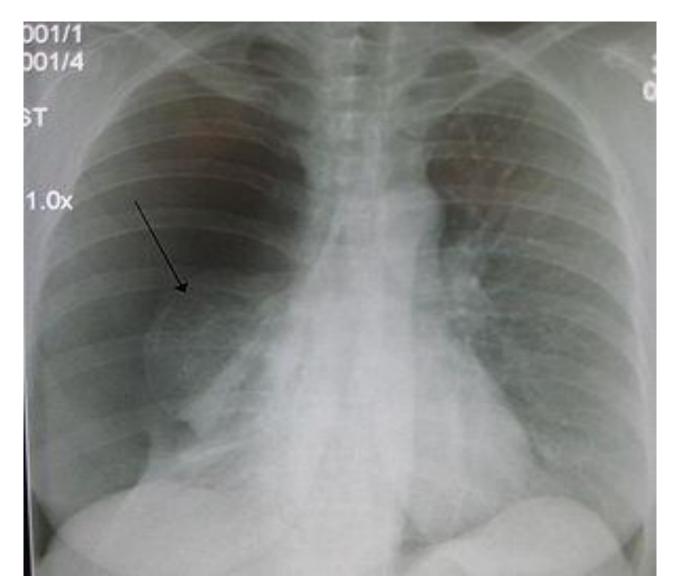








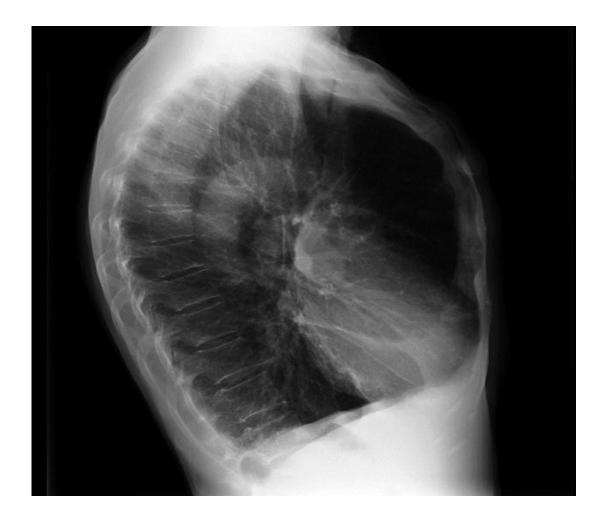


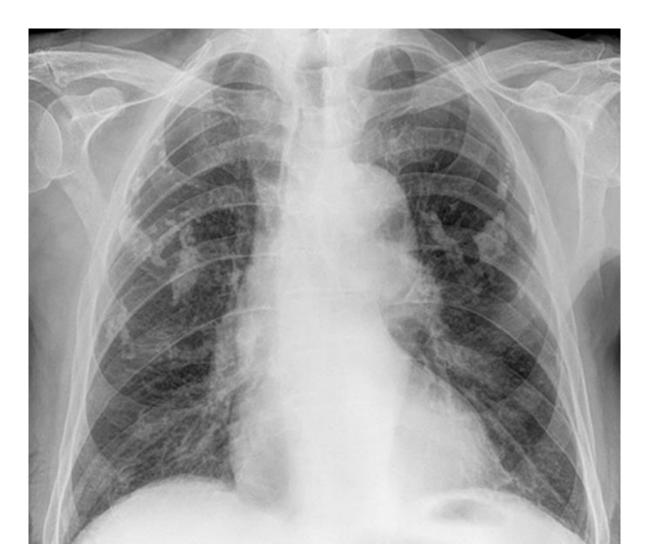


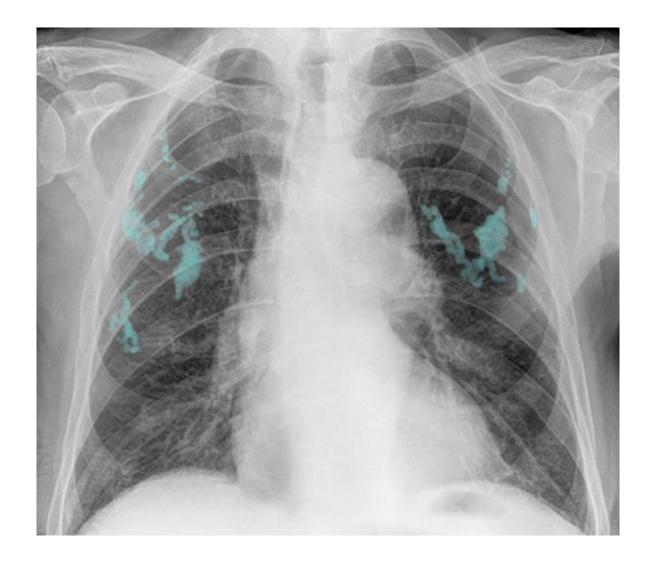






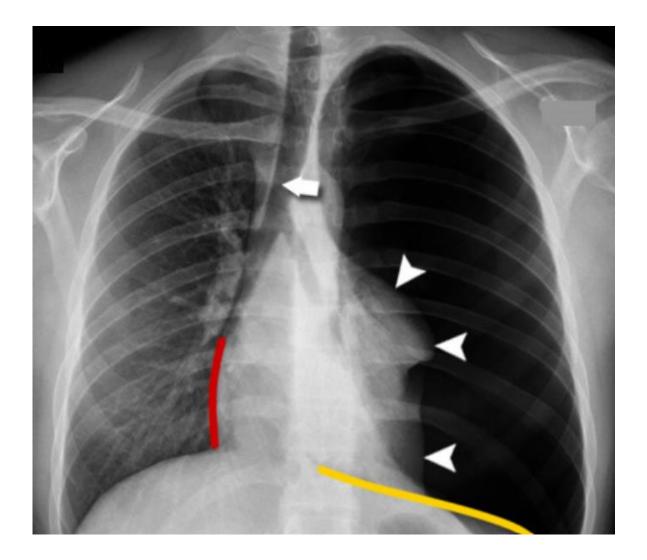


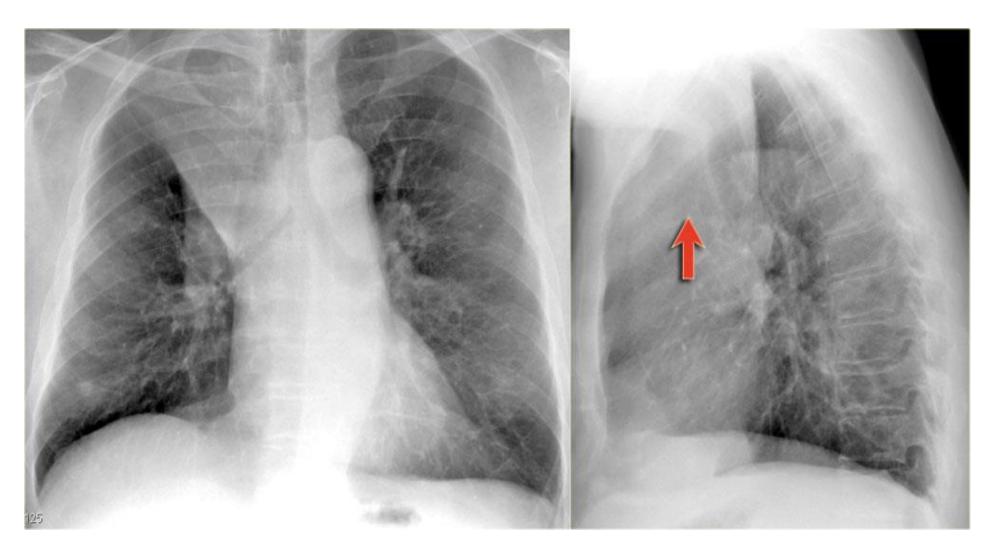




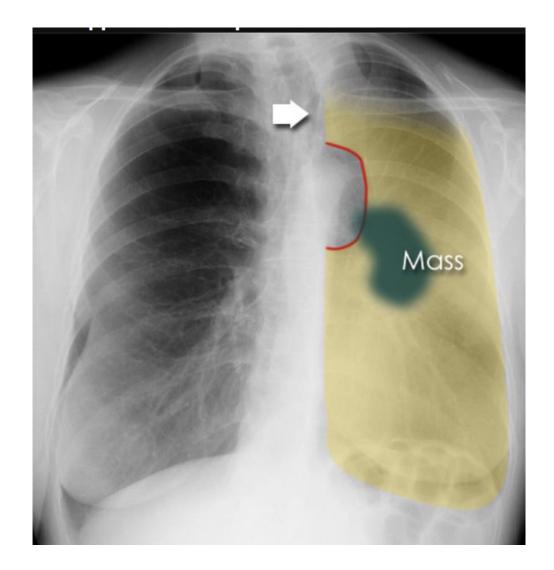












Diagnosis?

