

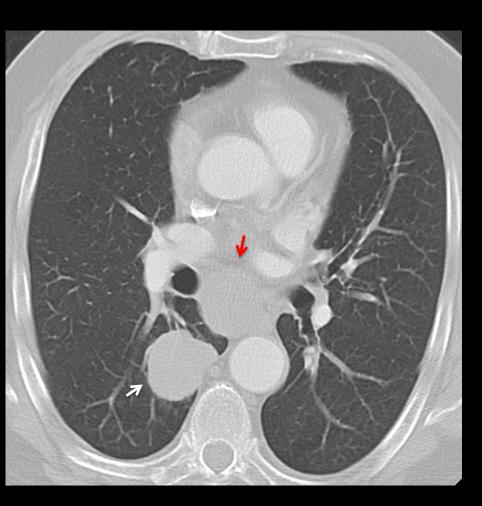
The lateral chest radiograph

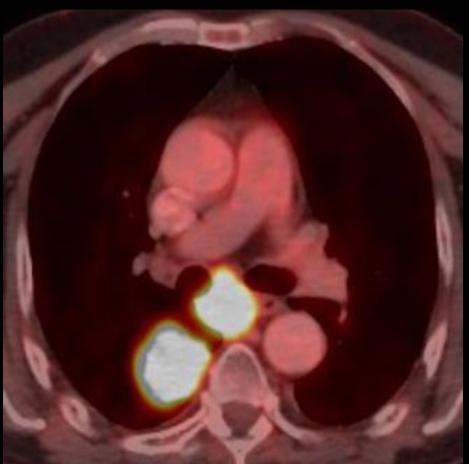


61 y.o. man with hemoptysis. Do you see any lesion?

- 1. Yes
- 2. No
- 3. Want a lateral view







Carcinoma with metastases to subcarinal lymph nodes

# Role of the lateral chest radiograph

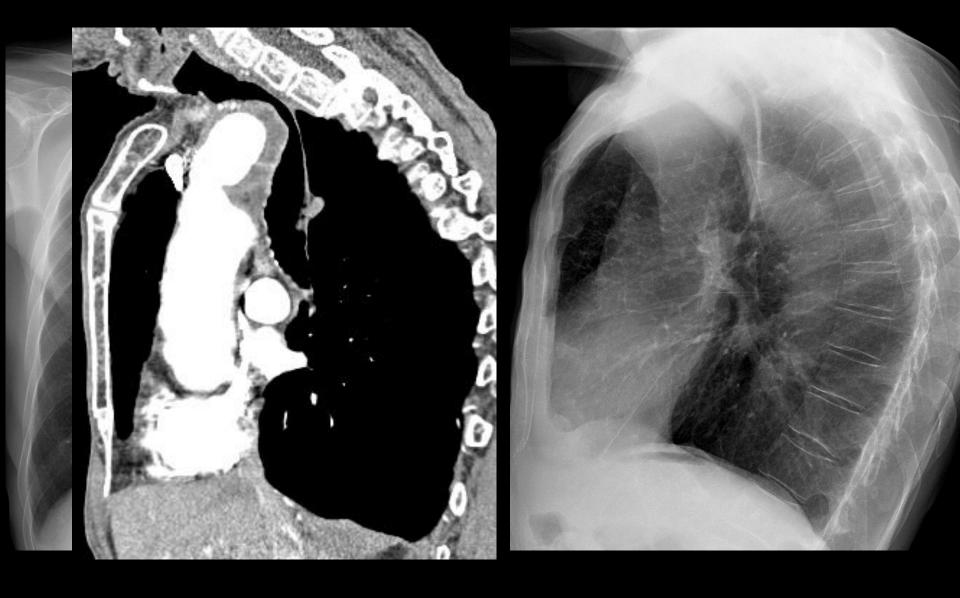
1. To detect lesions not visible in the PA view

2. To clarify obscure lesions in the PA view

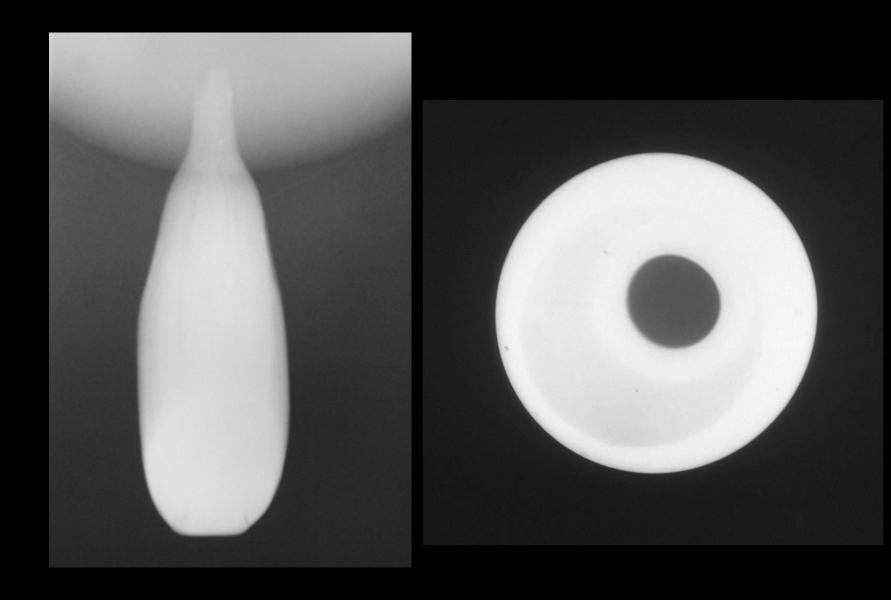


Chotas HG, Ravin CE. Radiology, November 1994

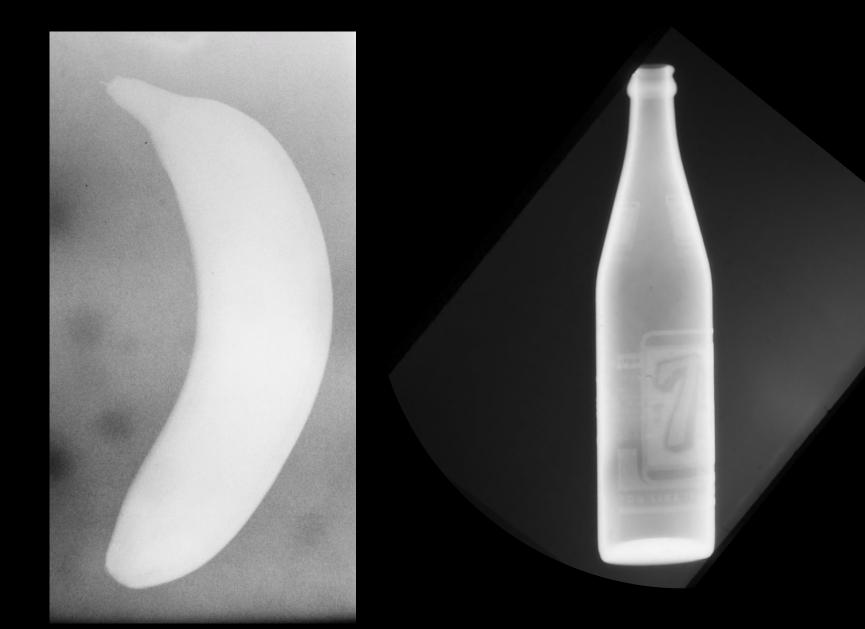
"On average, 26.4% of the lung volume was obscured by cardiac, mediastinal and subdiaphragmatic structures"

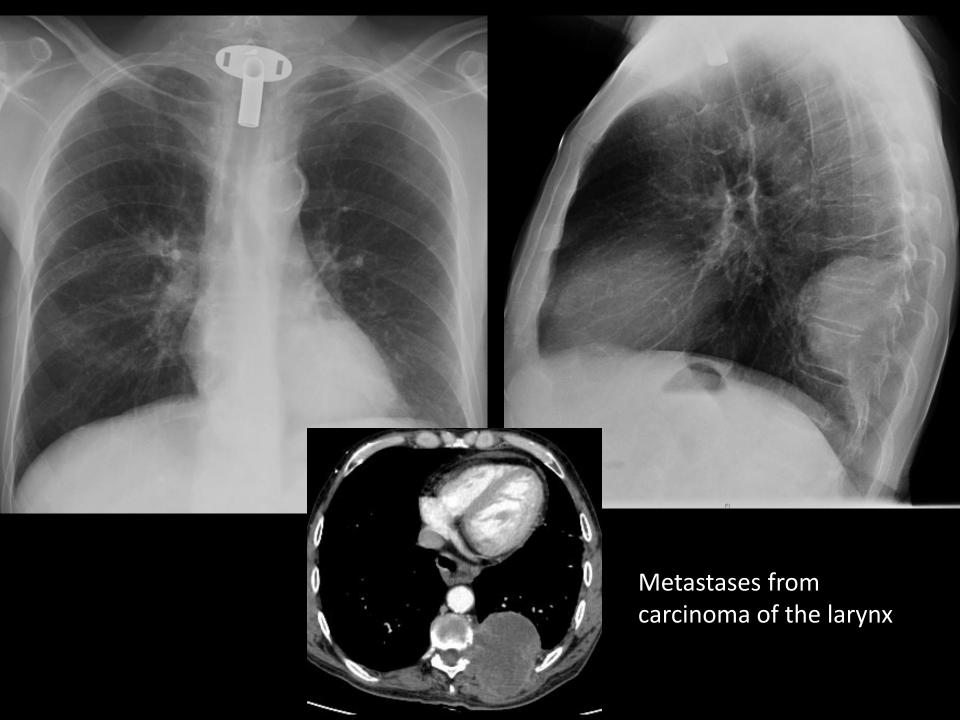


Aneurysm of right brachiocephalic artery impinging on the trachea



Radiographs of two different familiar objects. Can you guess what they are?





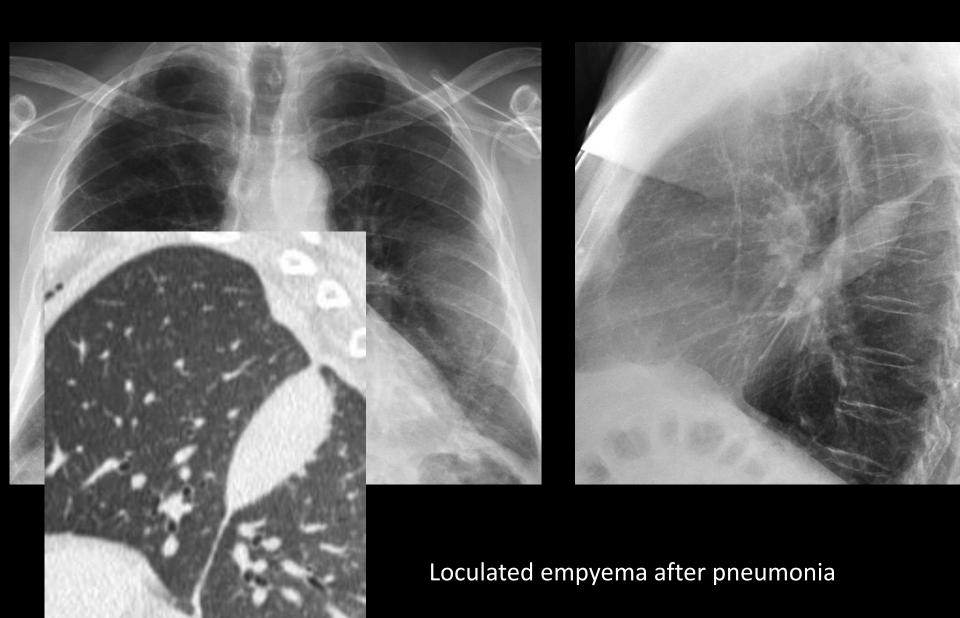
59 y.o. man with cough and fever

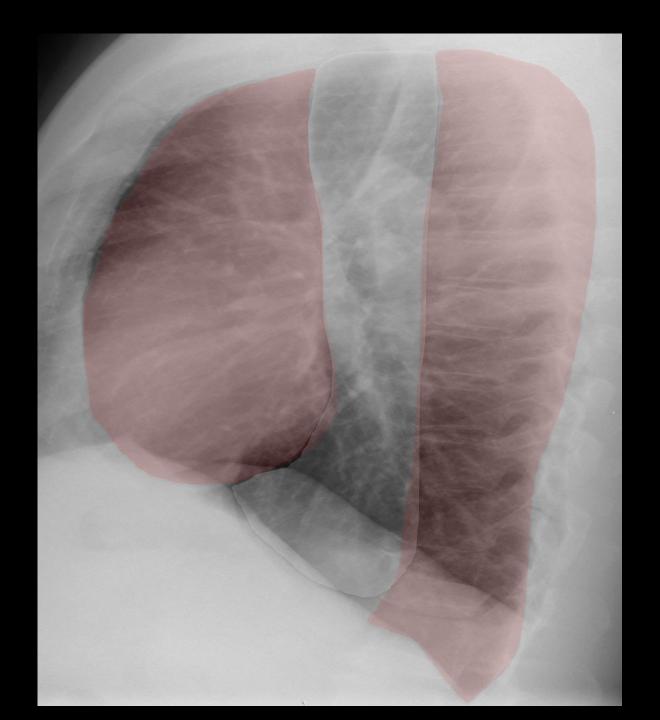




Loculated empyema after pneumonia

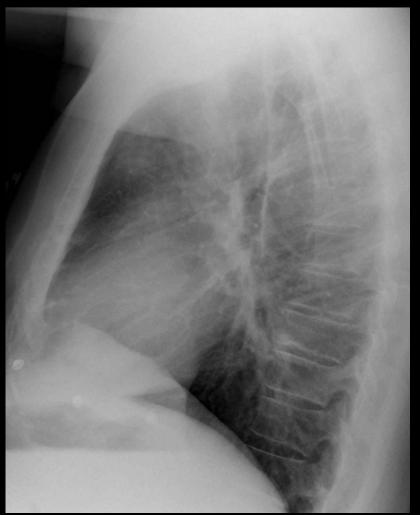
59 y.o. man with cough and fever





42 y.o. man with pain in right hemithorax



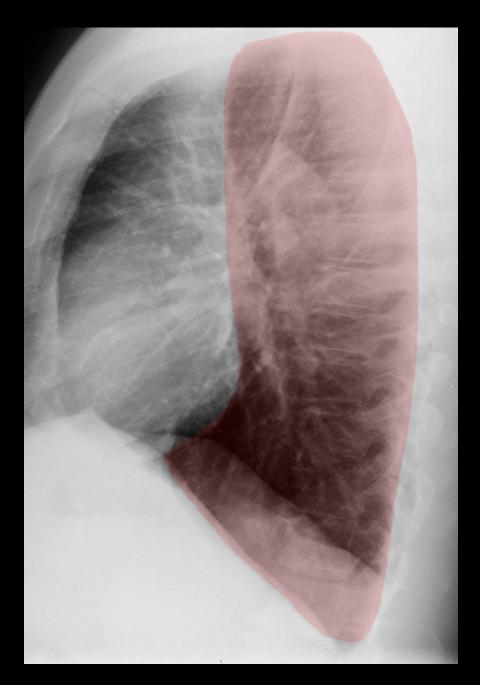


Most likely diagnosis:

- 1. Neurogenic tumor
- 2. Fibrous pleural tumor
- 3. Metastatic pleural nodule
- 4. Any of the above



Benign thymoma and unrelated neurofibroma



#### ANTERIOR AREA BASIC CHECKLIST:

Sternum - Osseous lesions, pectus excavatum

Anterior clear space - Look for opacities

**Heart** - Size, contour and calcifications

48 y.o. man with cough and fever





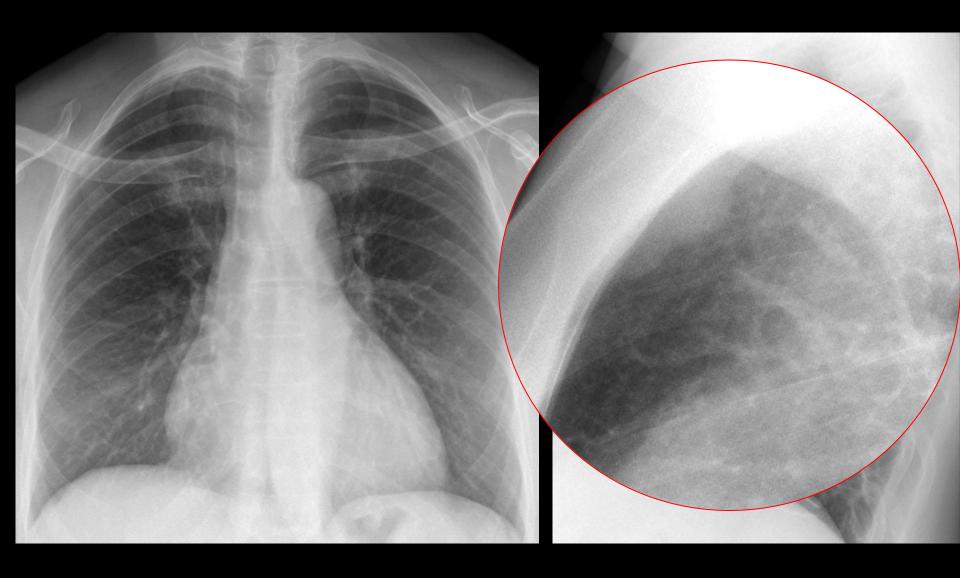
48 y.o. man with cough and fever

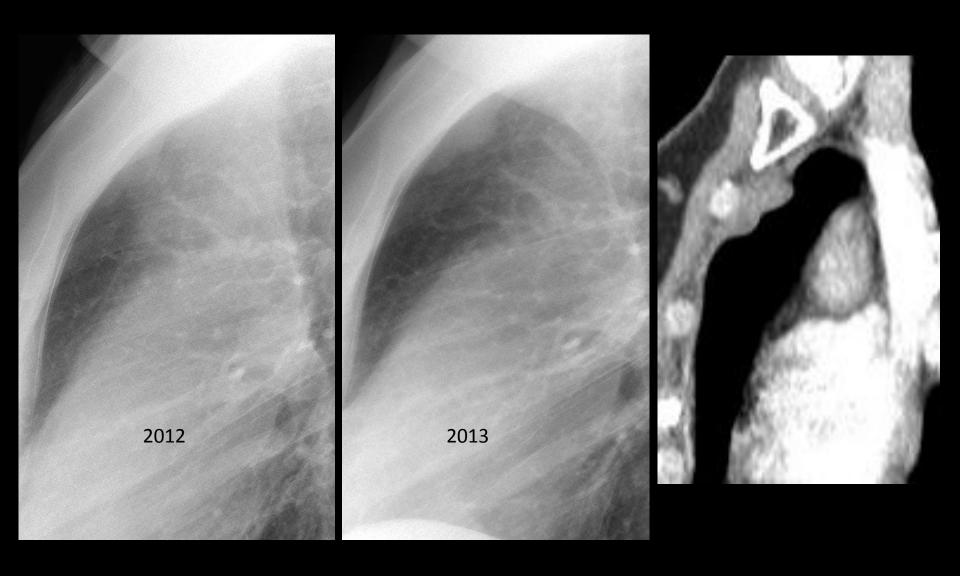


Routine annual chest films in a 54 y.o. woman operated for breast carcinoma five years ago



Routine annual chest films in a 54 y.o. woman operated for breast carcinoma five years ago





Metastatic mammary lymph nodes

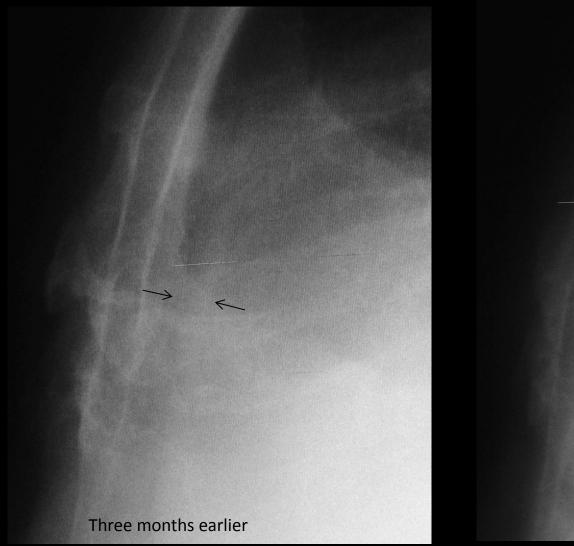
# 53 y.o man with chest pain





Diagnosis:

- 1. Mitral disease
- 2. Pericardial effusion
- 3. Myocardiopathy
- 4. Mediastinal tumor



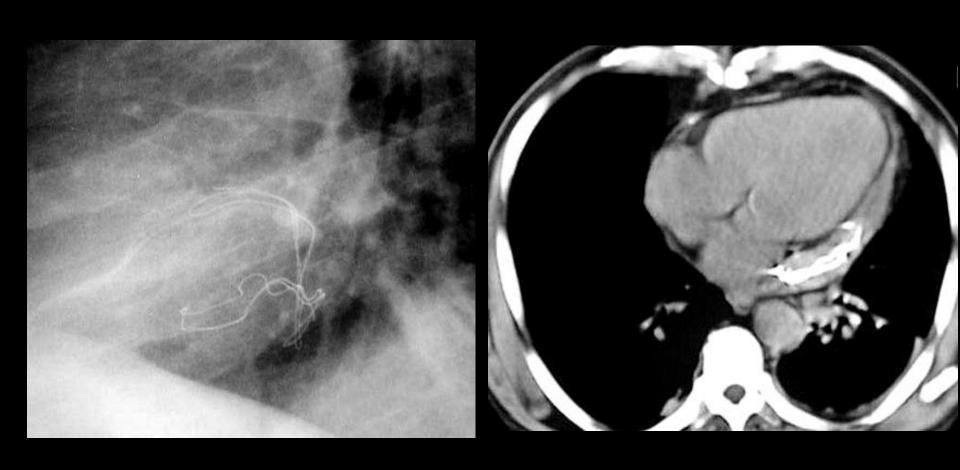




56 y.o. with persistent fever after cardiac surgery

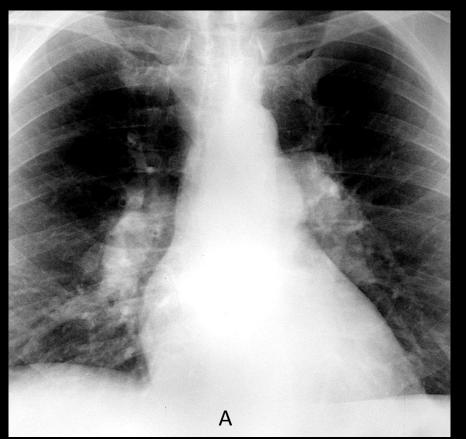


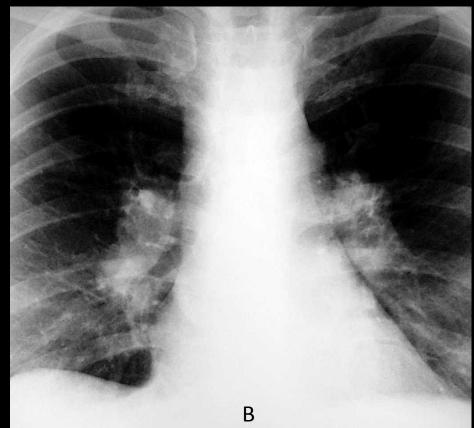




Surgical gauze in pericardium

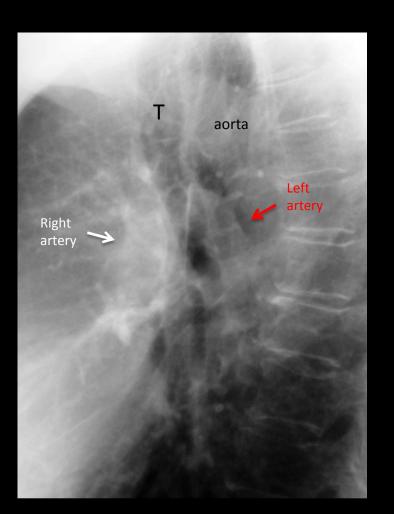
## Two different patients with prominent hilar shadows in the PA view

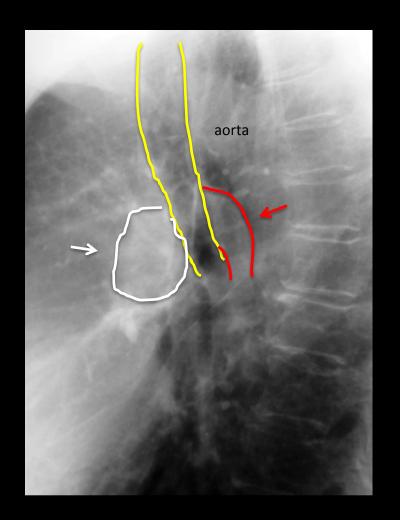


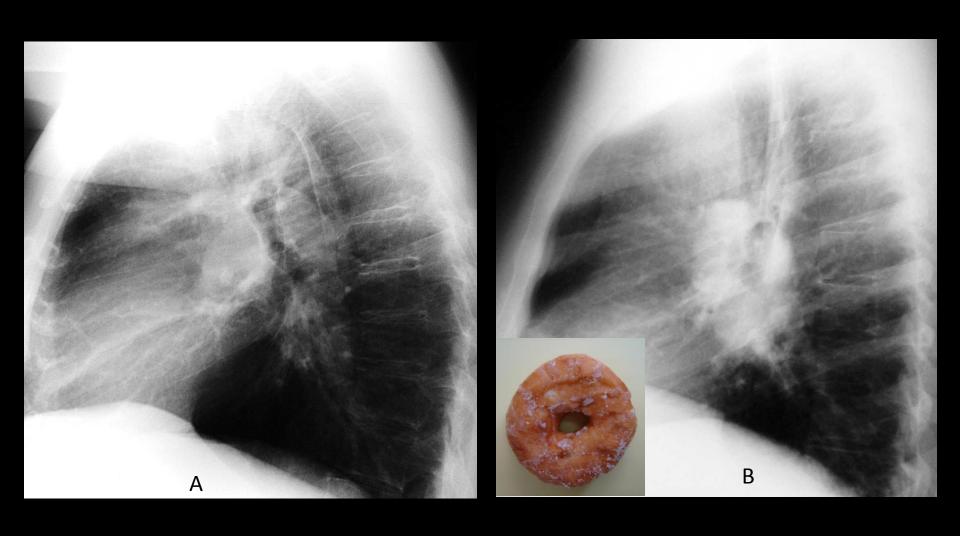


## Diagnosis:

- 1. A has enlarged arteries and B enlarged nodes
- 2. A has enlarged nodes and B enlarged arteries
- 3. Both have enlarged arteries
- 4. Both have enlarged nodes

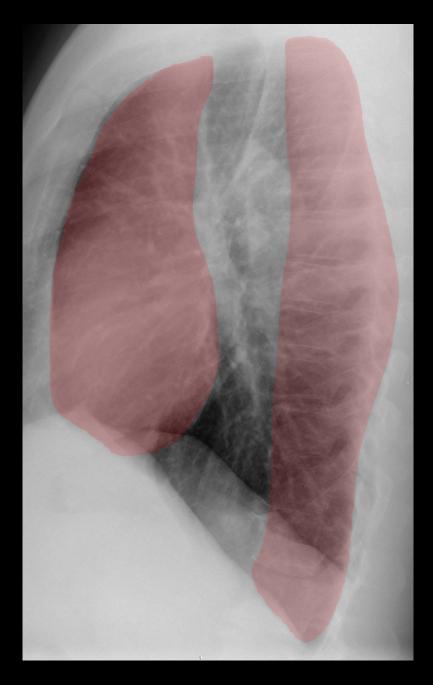






Pulmonary arterial hypertension

Lymphoma



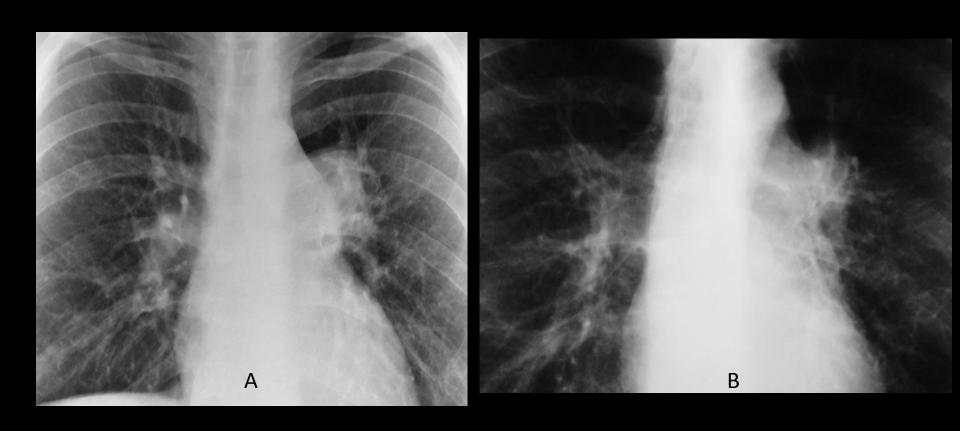
#### MIDDLE AREA BASIC CHECKLIST:

Hila – arterial size, donut sign

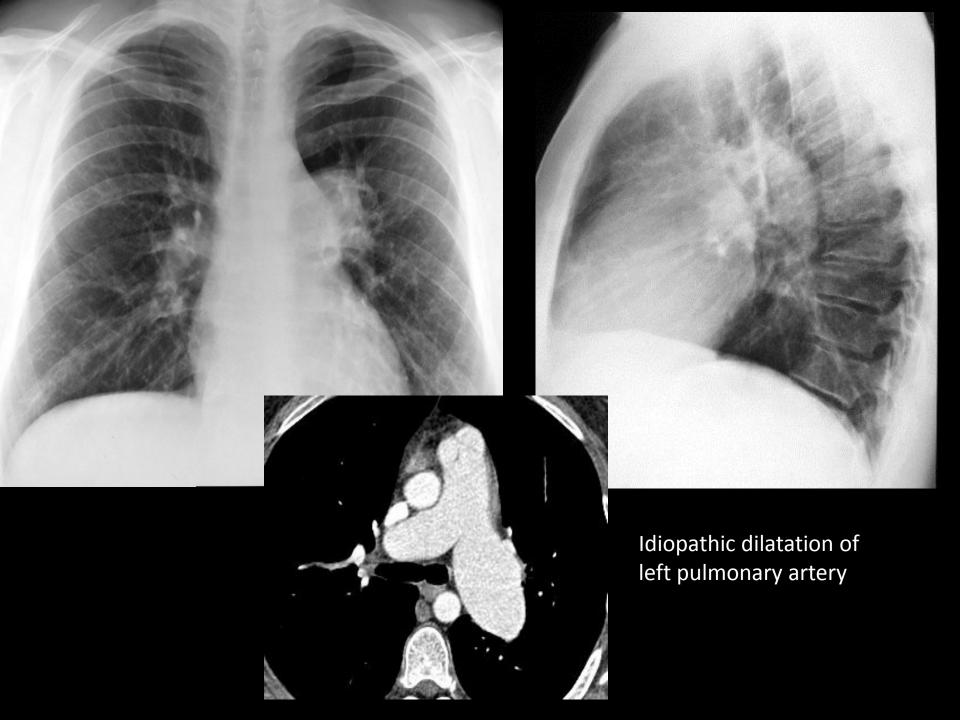
Trachea - Caliber changes, displacement

Raider triangle – Opacification

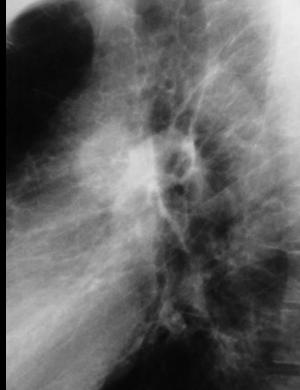
**Retrocardiac space** - Opacifications



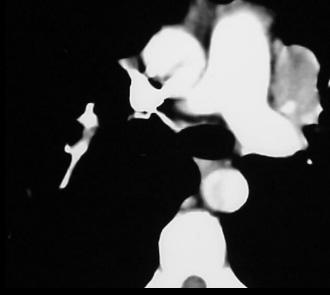
Two different patients with dense left hilum



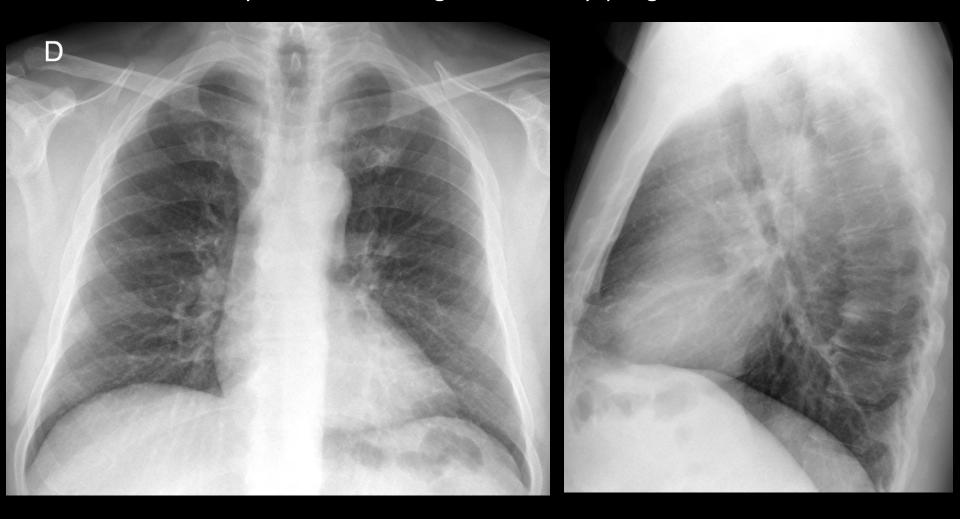




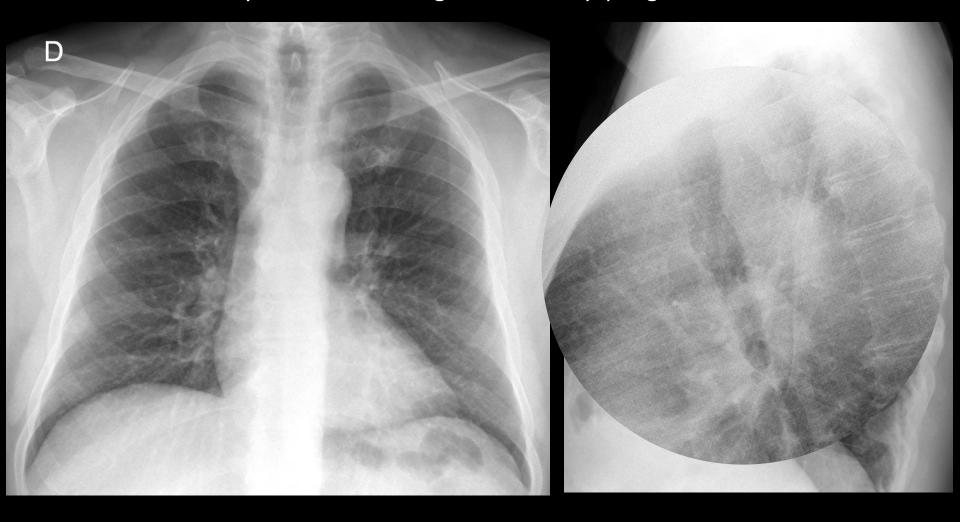
Lung carcinoma



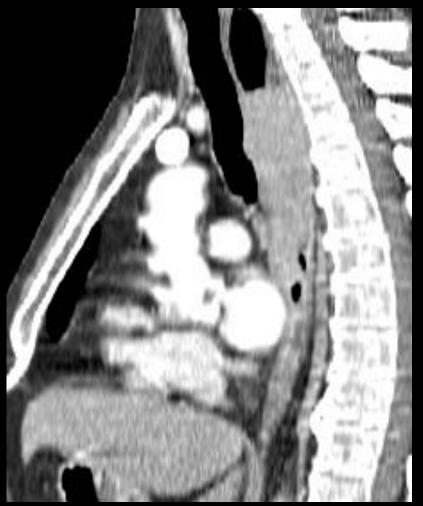
49 y.o. man with weight loss and dysphagia



49 y.o. man with weight loss and dysphagia

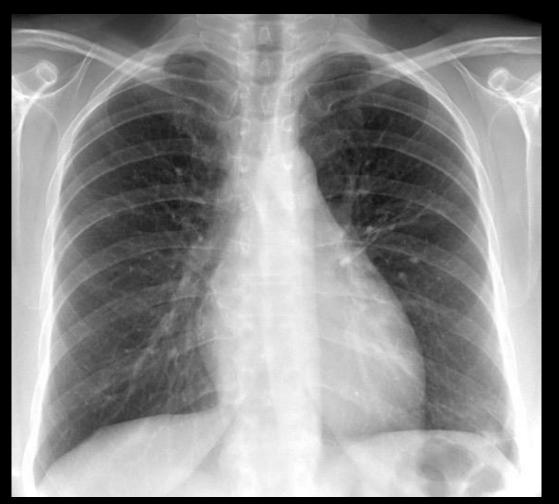






Carcinoma of esophagus

32 y.o. woman with fever and cough





Do you see the pneumonia?



Retrocardiac pneumonia, visible in the lateral view

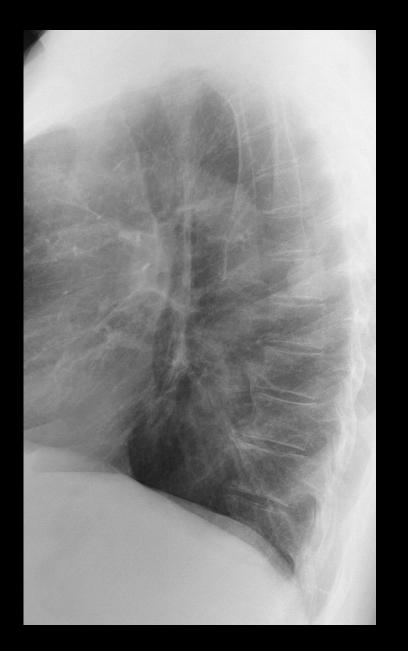
## Routine check-up in a 65 y.o. male

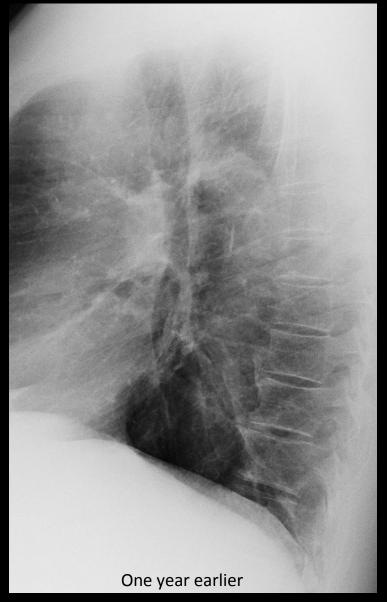


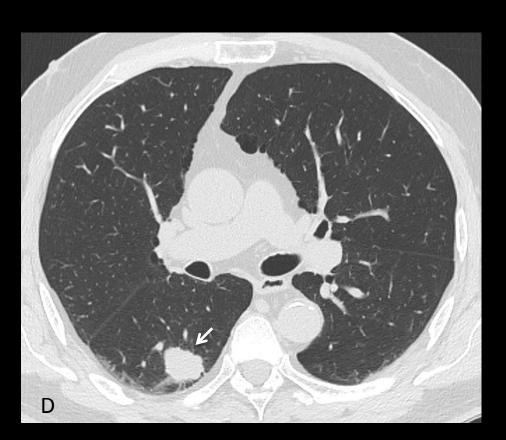


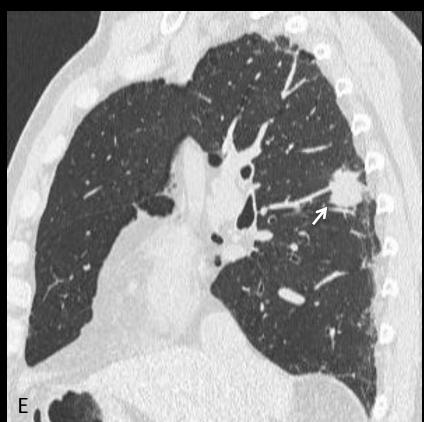
Do you see any abnormality?

- 1. Yes
- 2. No
- 3. Want a CT

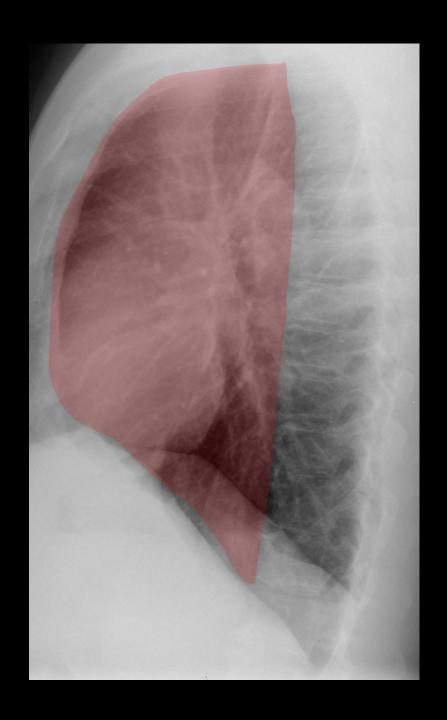








Final diagnosis: lung carcinoma, hidden by the right hilum in the PA view.



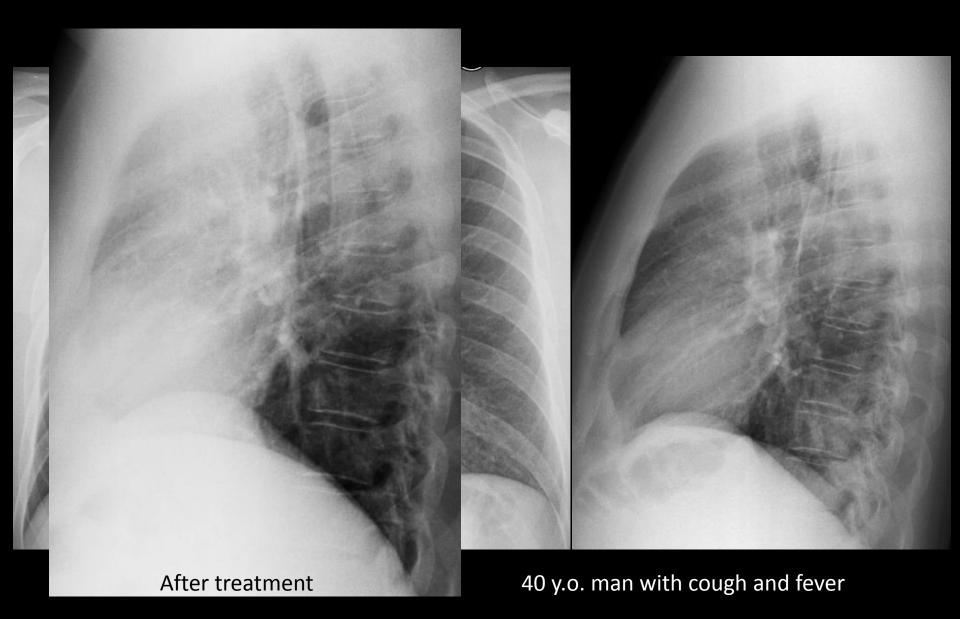
## POSTERIOR AREA BASIC CHECKLIST:

Thoracic spine - Vertebral and disk lesions, superimposed lesions

Posterior clear space - Opacifications



40 y.o. man with cough and fever Where is the pneumonia?



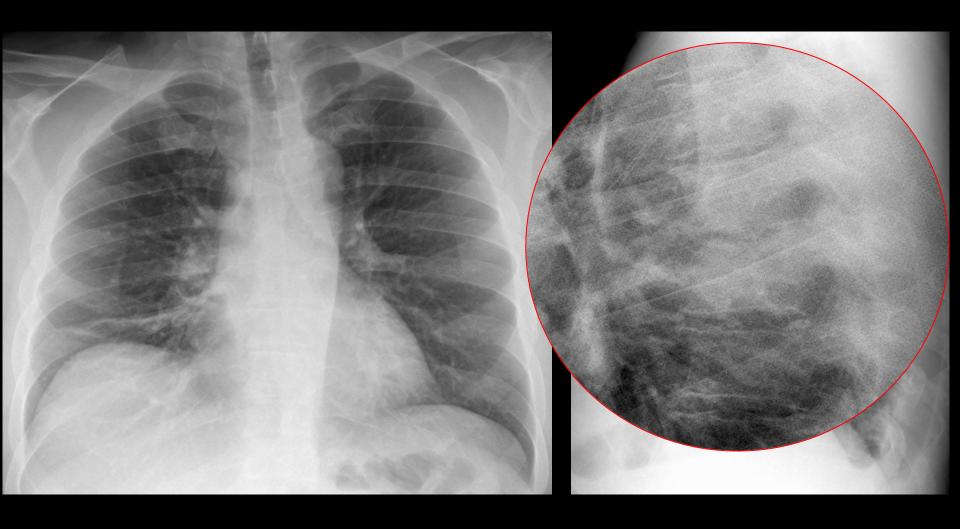
Where is the pneumonia?

52 y.o man with chest pain and fever





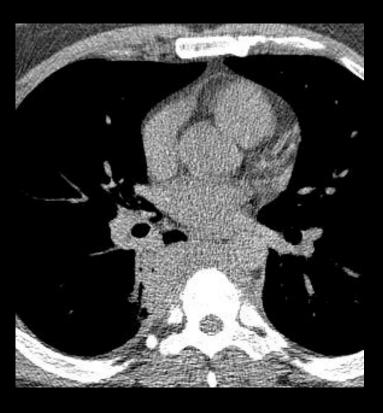
52 y.o man with chest pain and fever



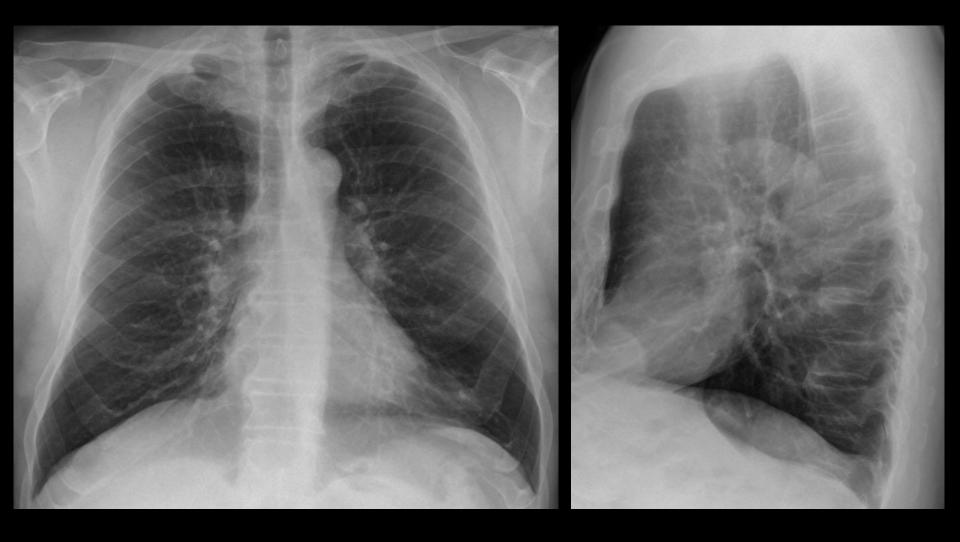
## Infectious spondylitis



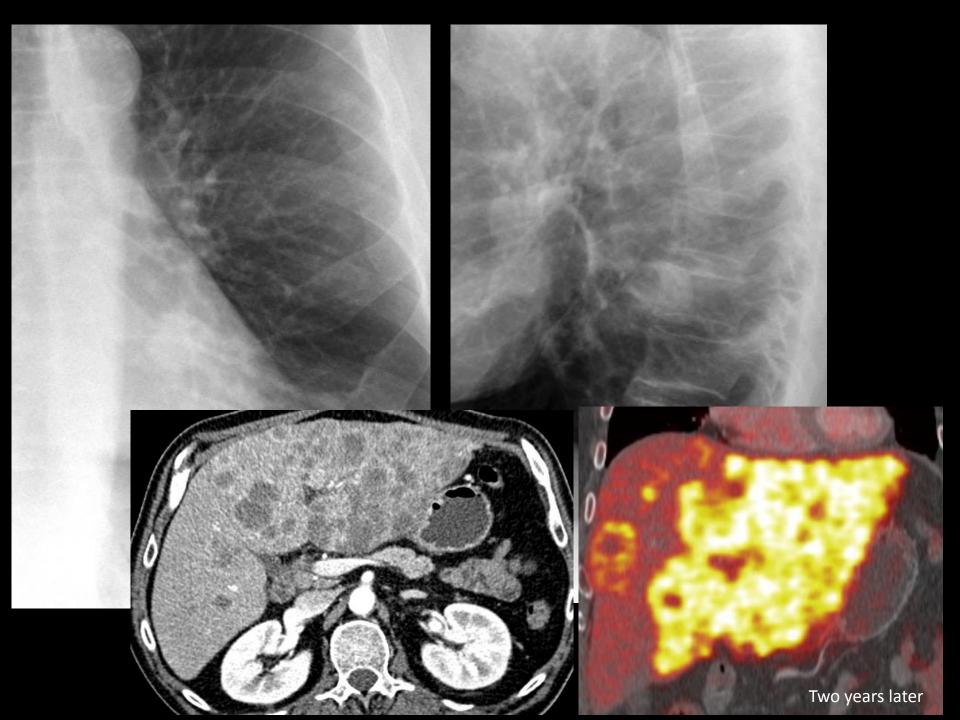




53 y.o. man with vague chest complaints









## Follow Dr. Pepe's advice:

- 1. About 25% of the lung is hidden in the PA view
- 2. Areas to examine in the lateral view:
  - Anterior clear space
  - Posterior clear space
  - Middle zone
  - Thoracic spine