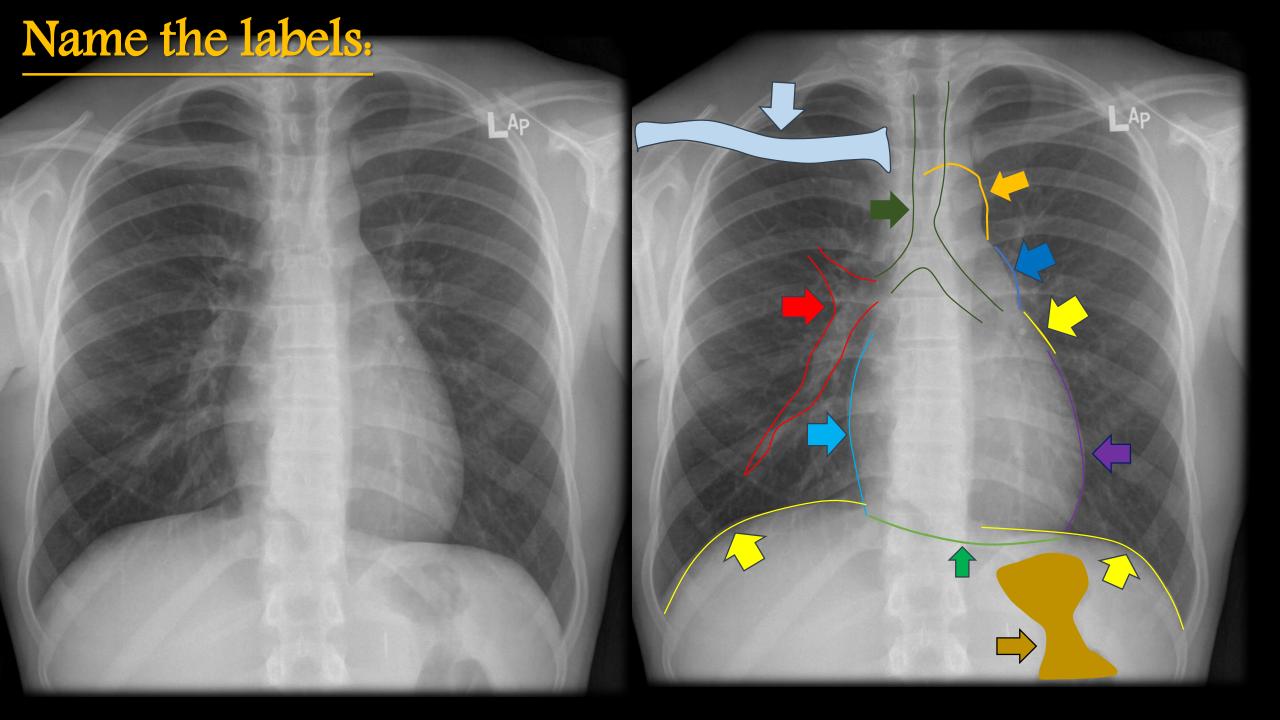
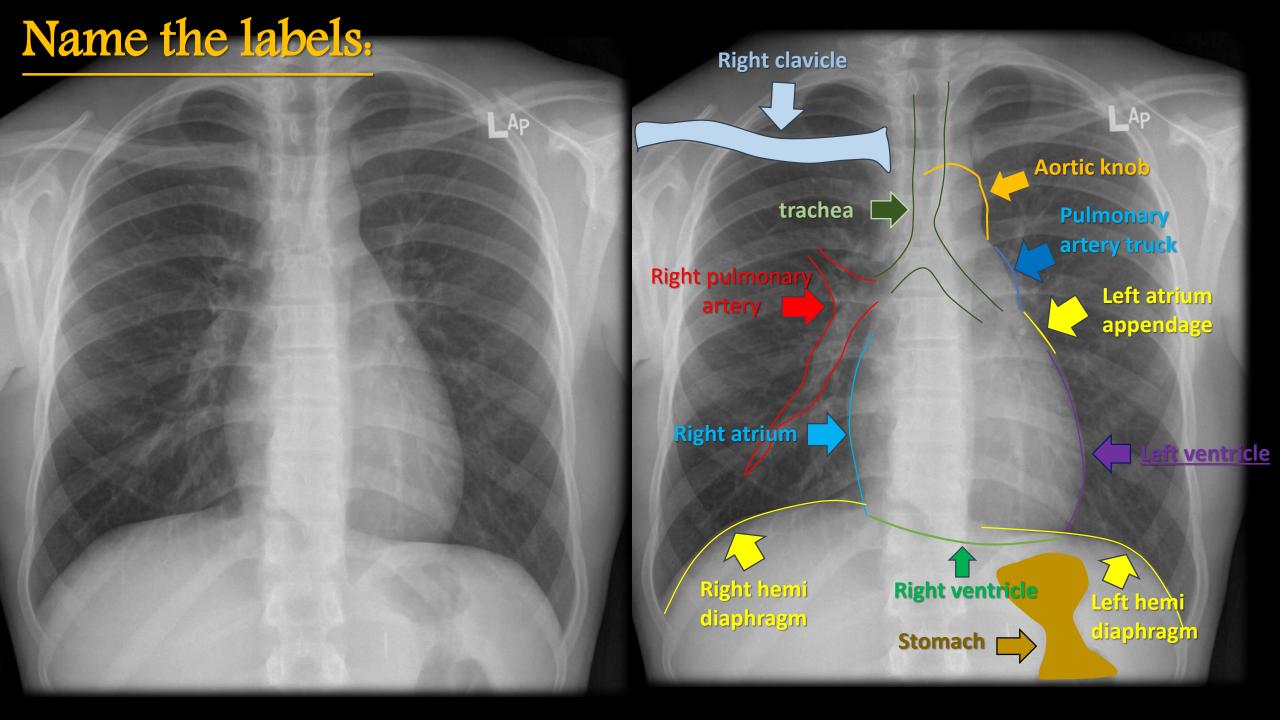
Radiology of cardiorespiratory disease (interactive lecture)

Dr. Reshaid Al Jurayyan

Assistant professor & consultant
Radiology & medical imaging department
King Saud university – medical city



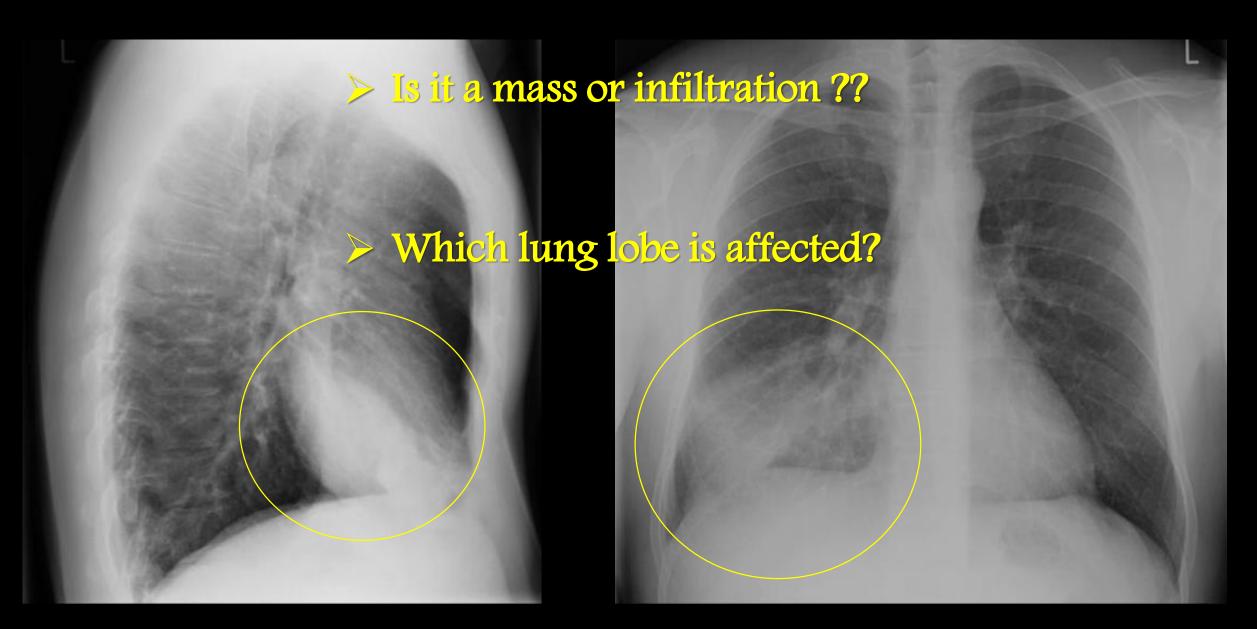


30 year-old with fever.

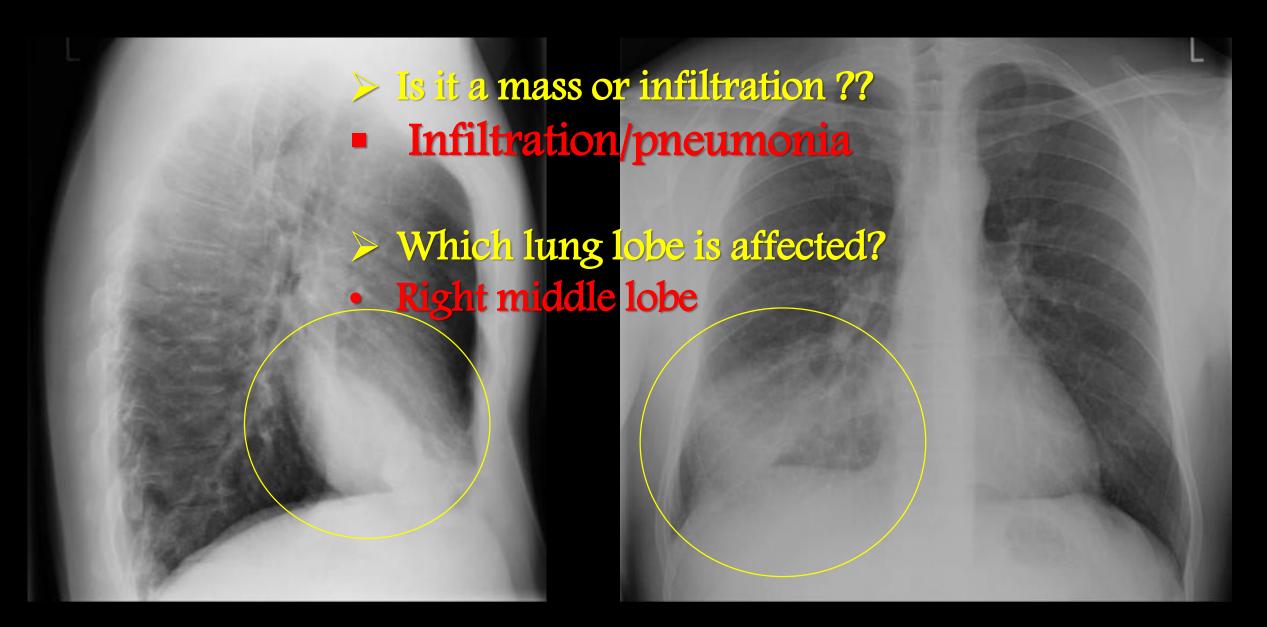




30 year-old with fever.



30 year-old with fever.



50 year-old smoker.

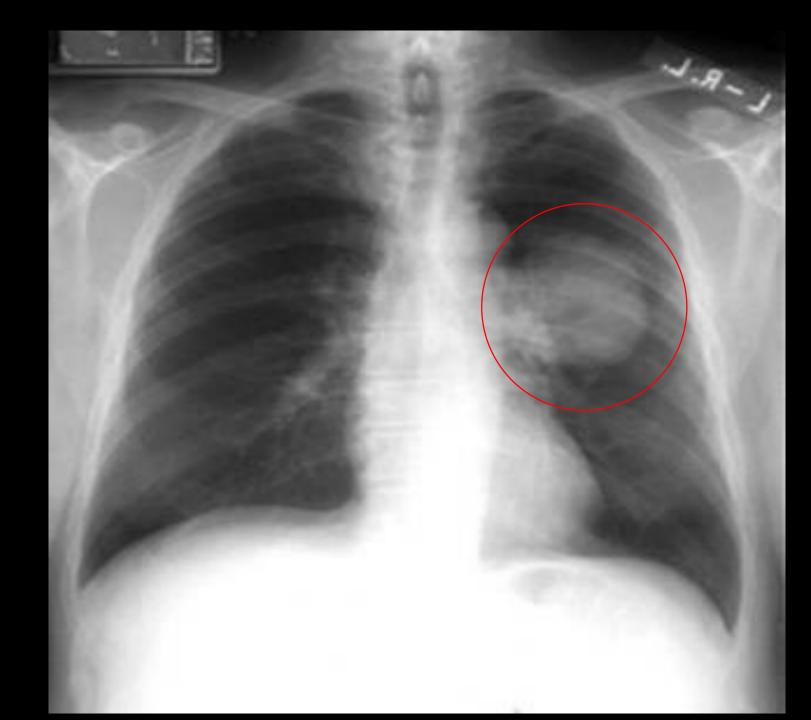
What is the most likely diagnosis?

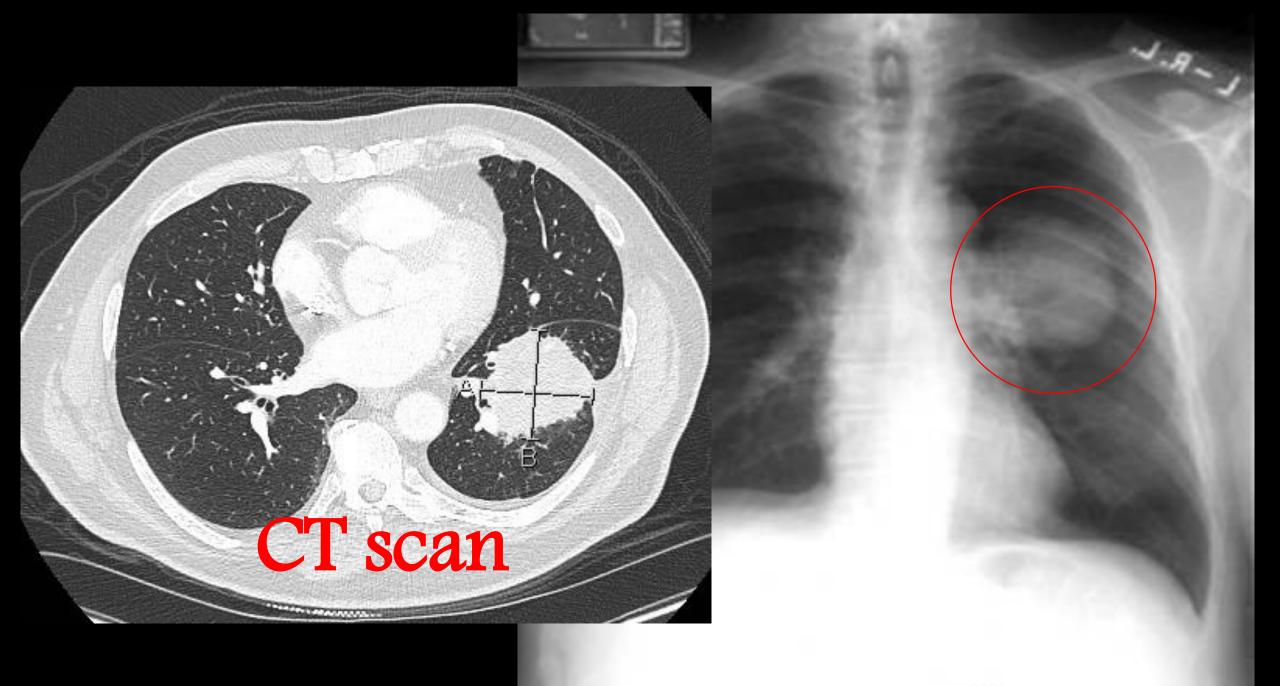


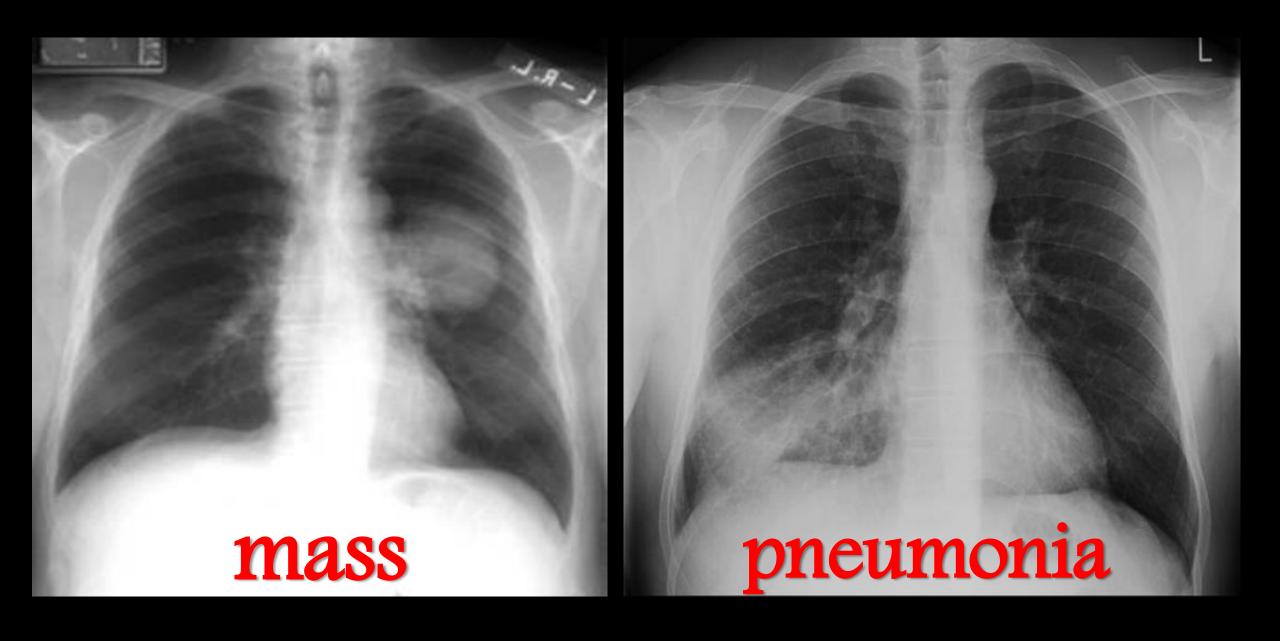
50 year-old smoker.

What is the most likely diagnosis?

Left lung mass.







40 year-old female complaining of dyspnea.

What is the most likely diagnosis?



40 year-old female complaining of dyspnea.

What is the most likely diagnosis?

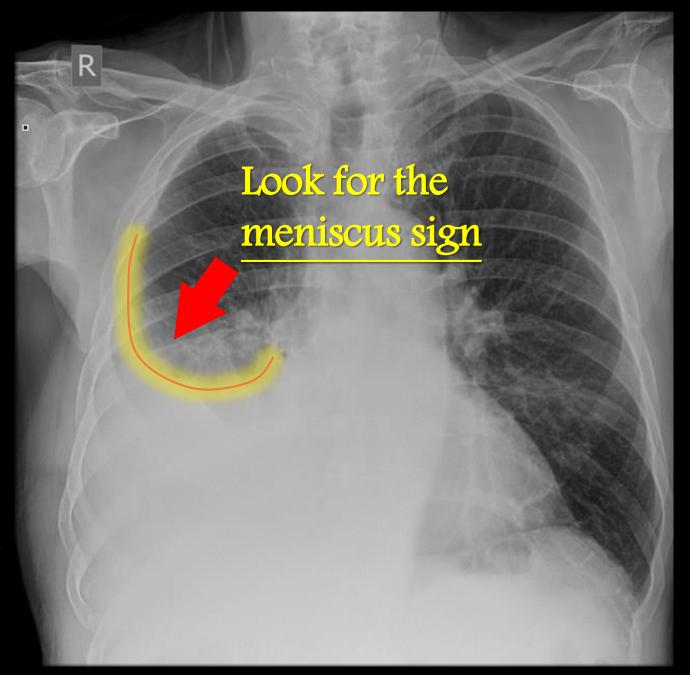
Right pleural effusion.



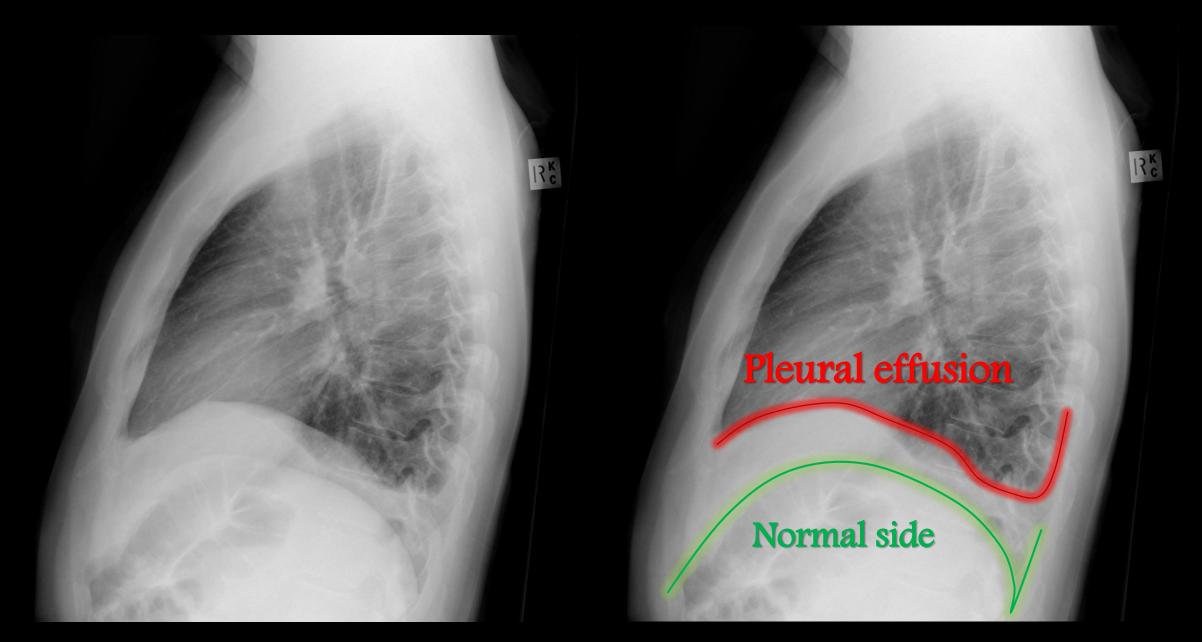
40 year-old female complaining of dyspnea.

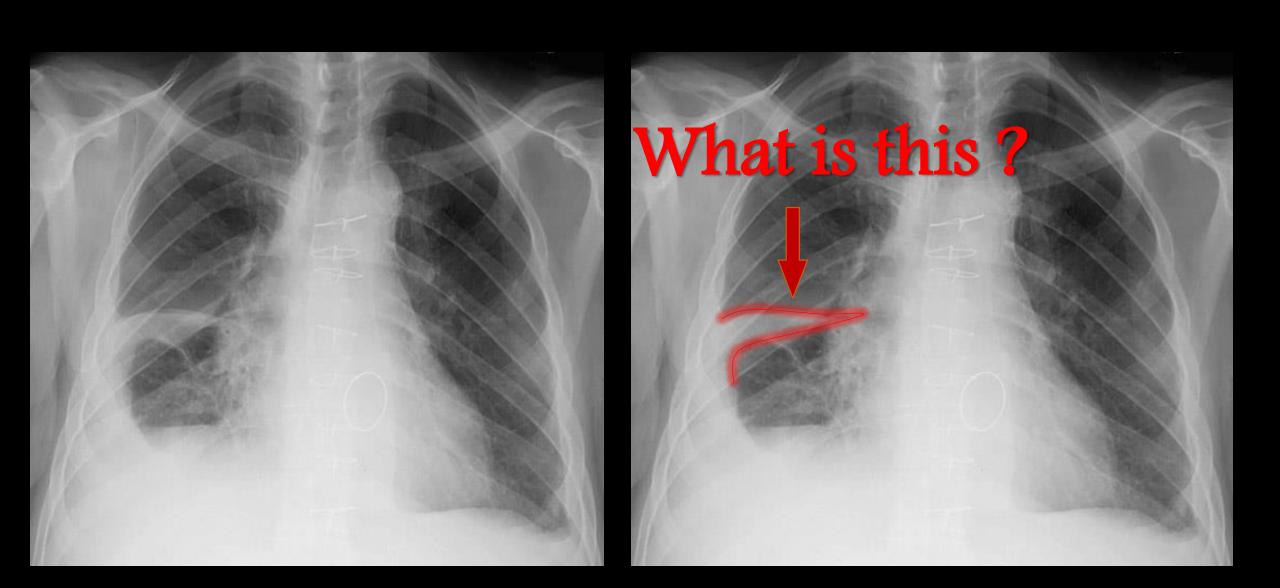
What is the most likely diagnosis?

Right pleural effusion.

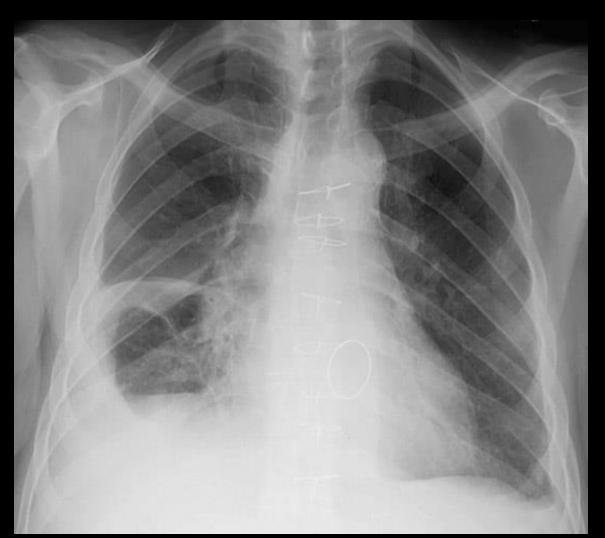


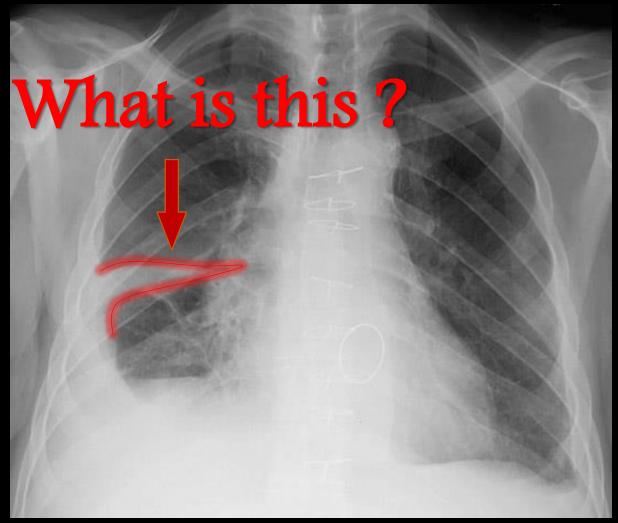
Pleural effusion on lateral view.





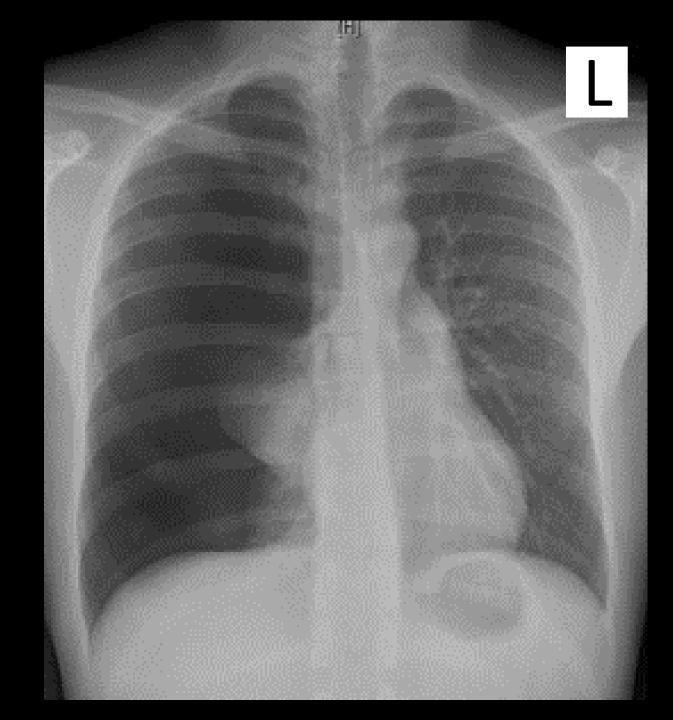
Pleural effusion (fluid tracking into right horizontal fissure)





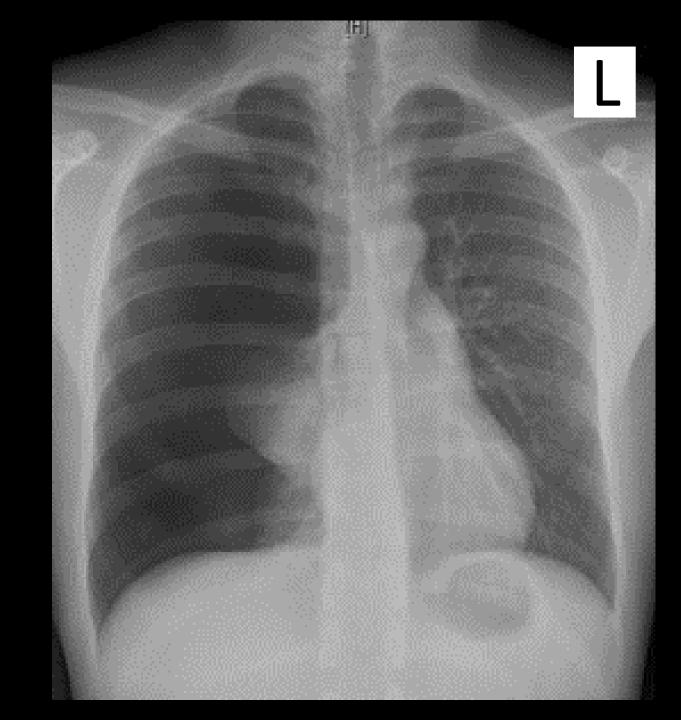
25 year-old male with with chest pain

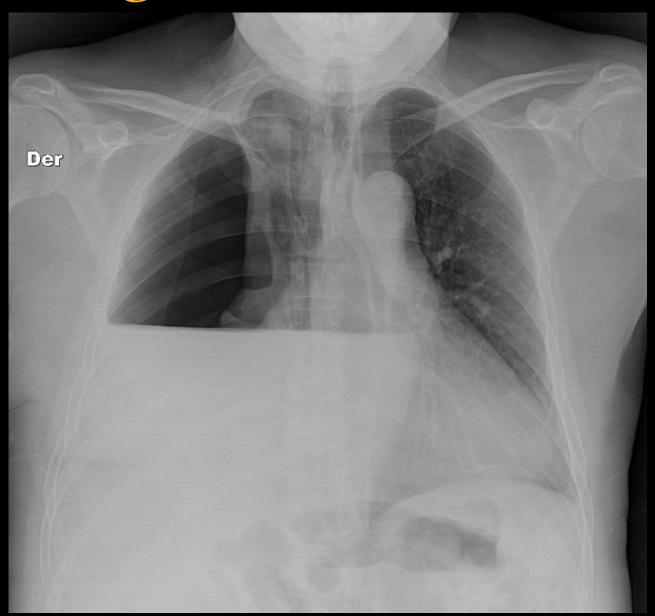
➤ Which side of the chest is abnormal?



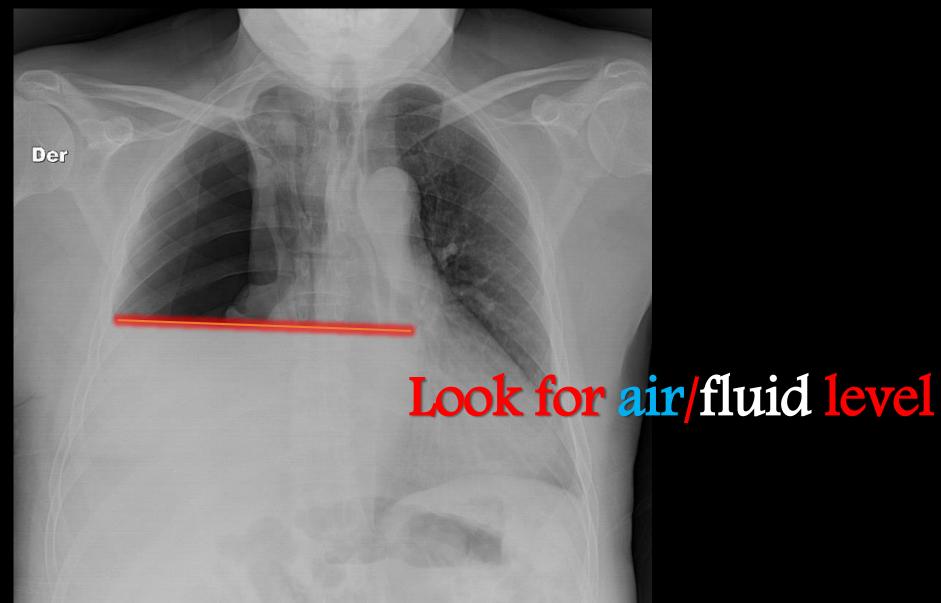
25 year-old male with with chest pain

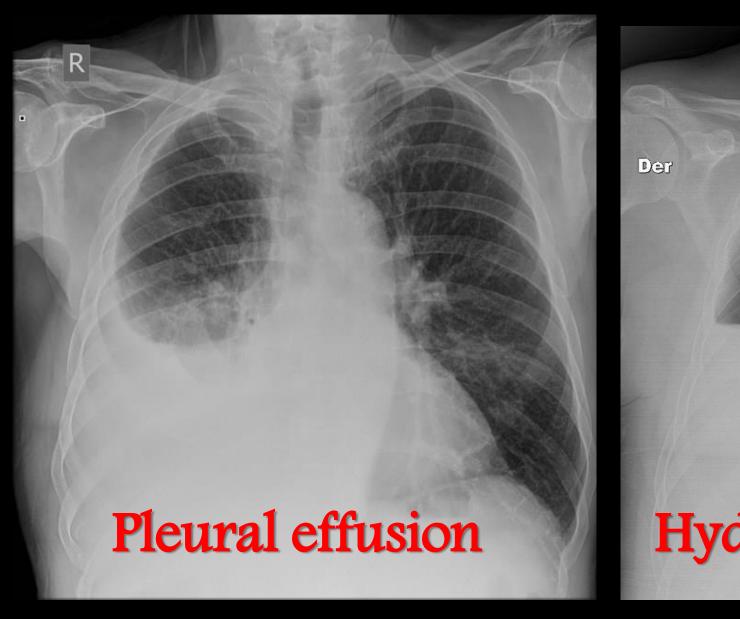
- ➤ Which side of the chest is abnormal?
 - Right side.
- What is the diagnosis?
 - Pneumothorax.

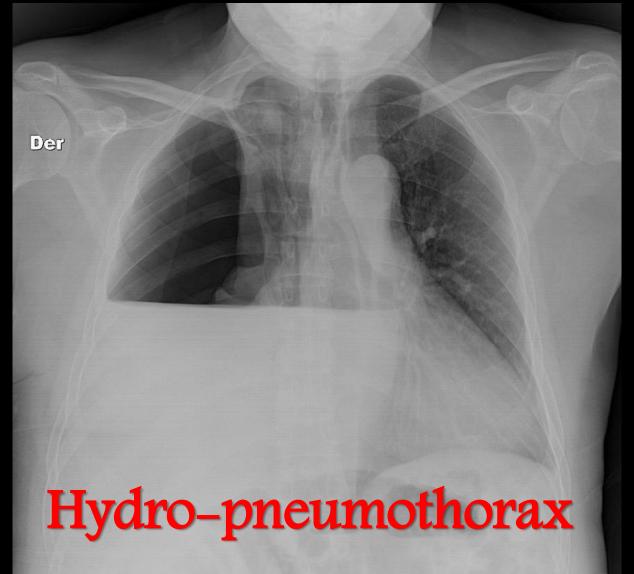


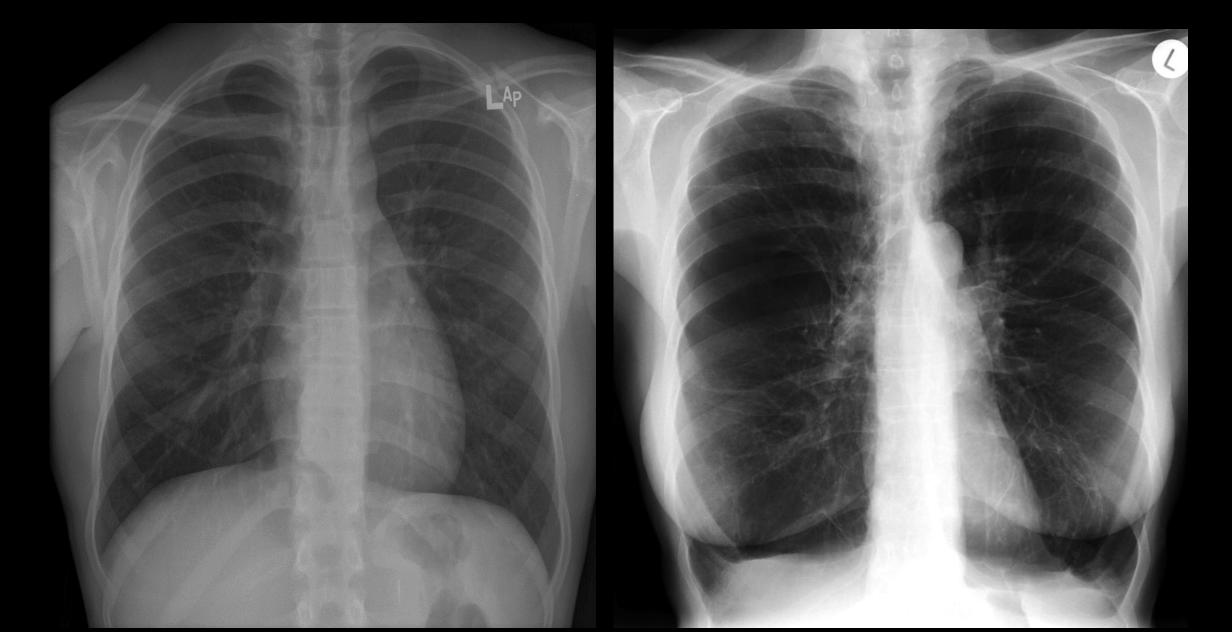


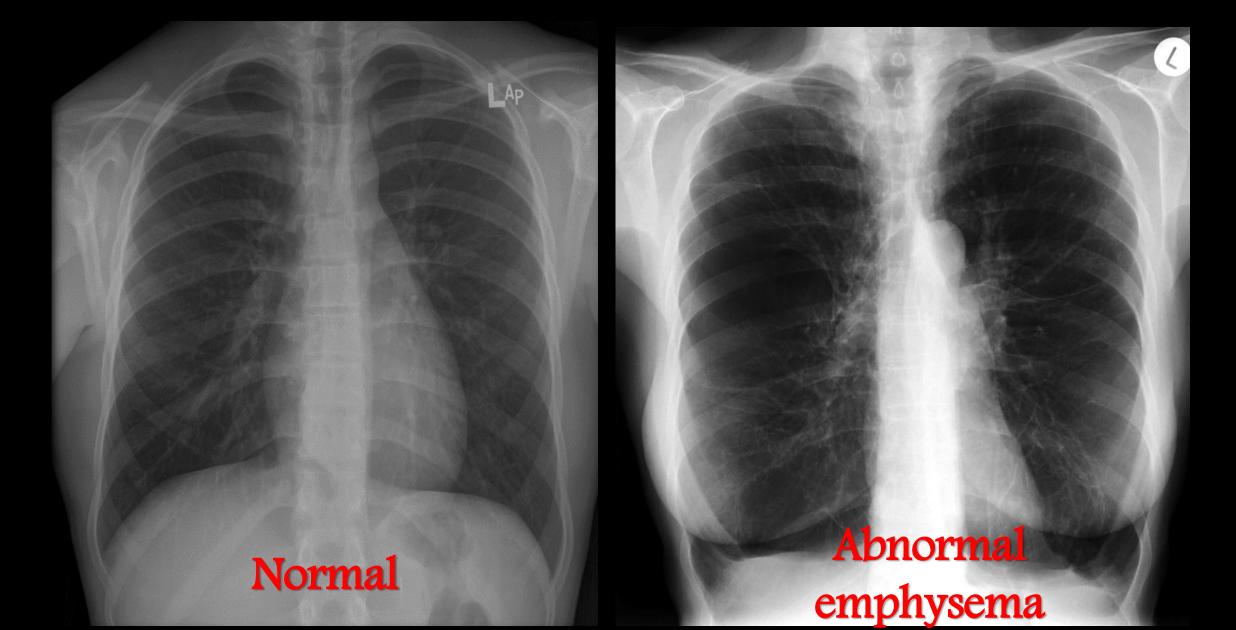
What is the diagnosis? Hydro-pneumothorax



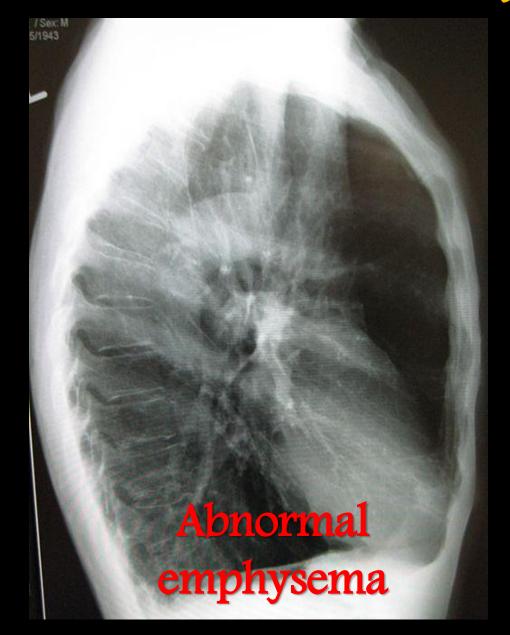


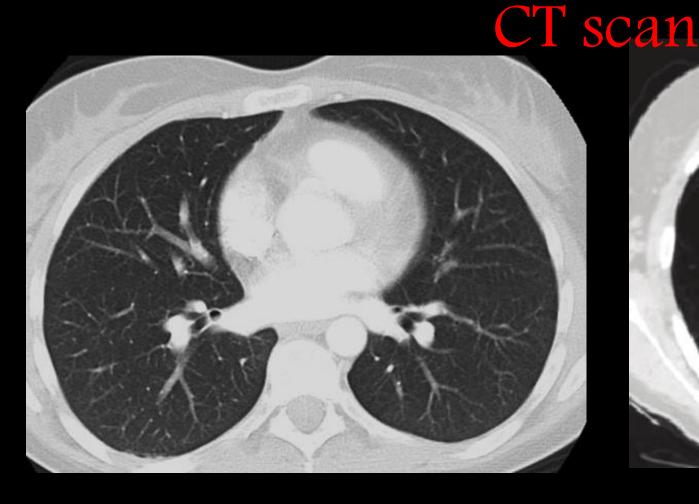


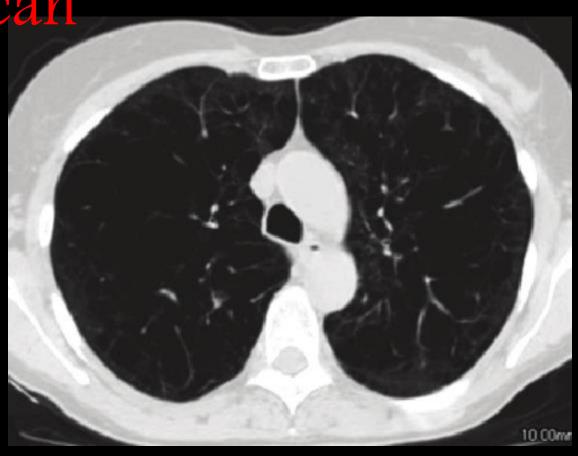






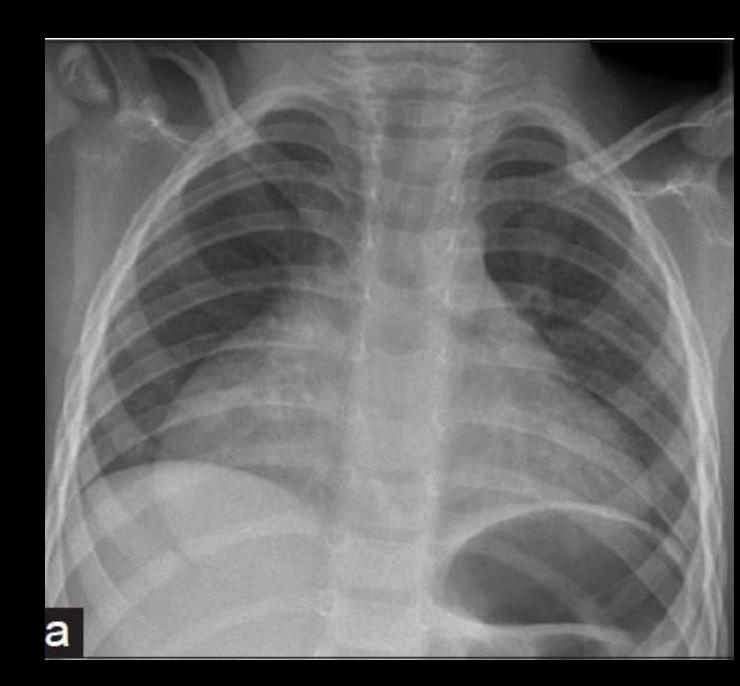




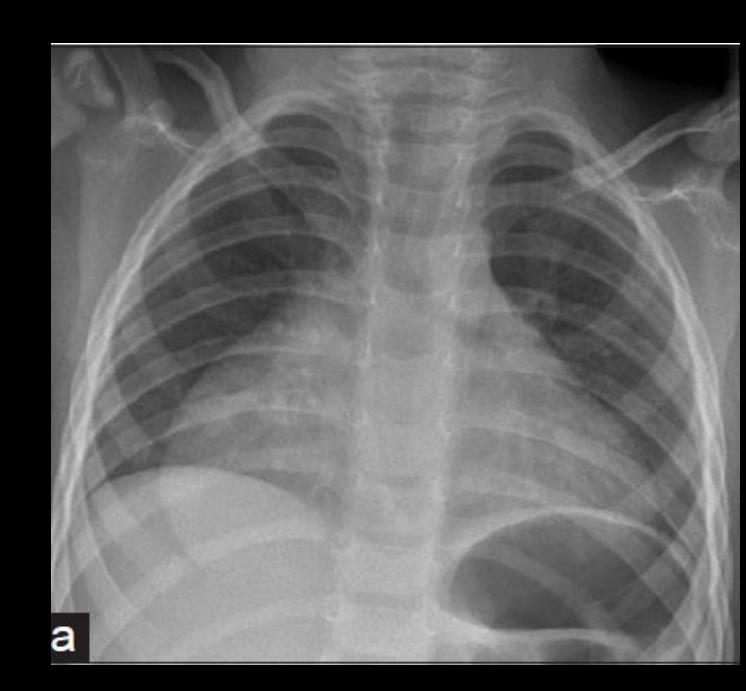


Abnormal emphysema

Normal

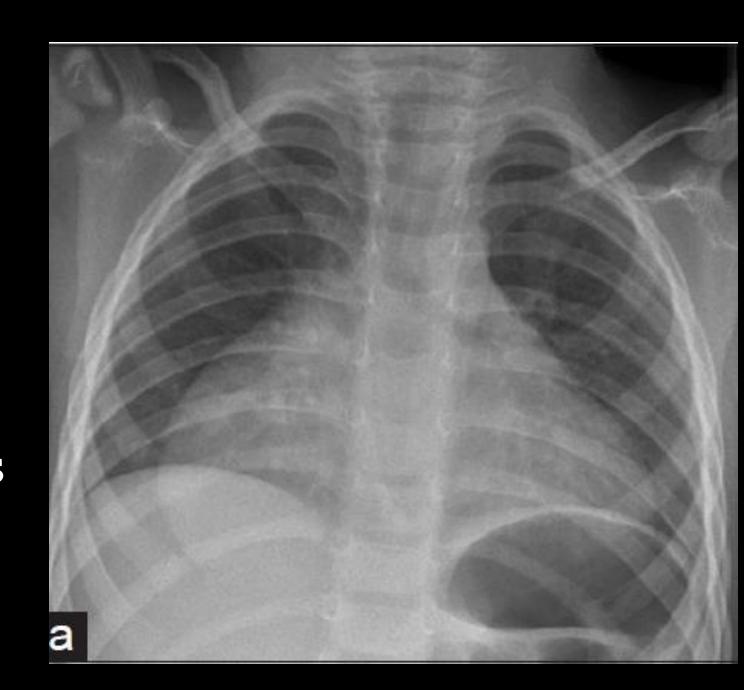


Heart shadow is enlarged



> Heart shadow is enlarged

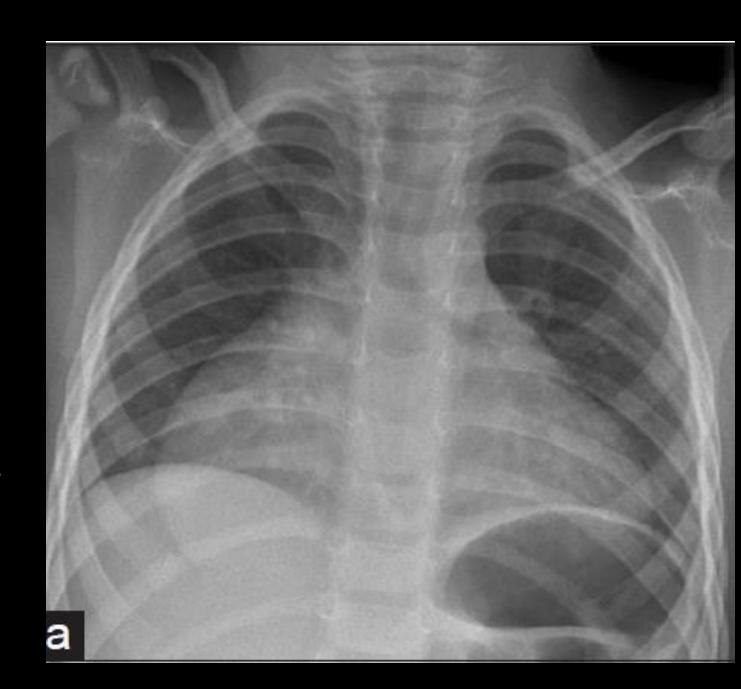
Can you figure out which heart chamber is enlarged?



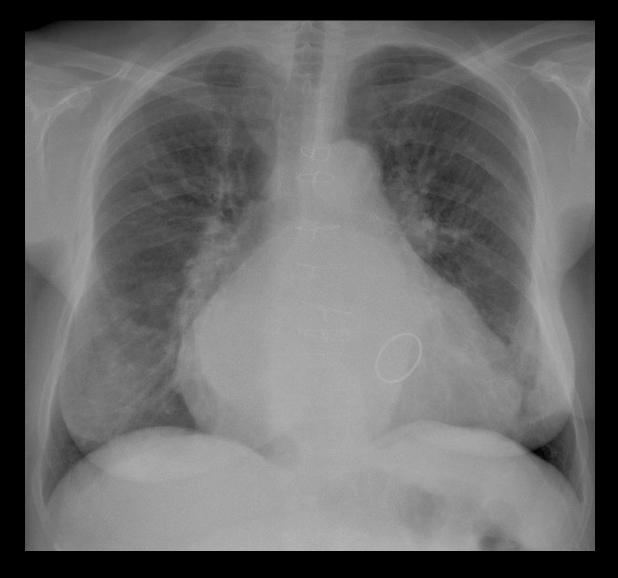
> Heart shadow is enlarged

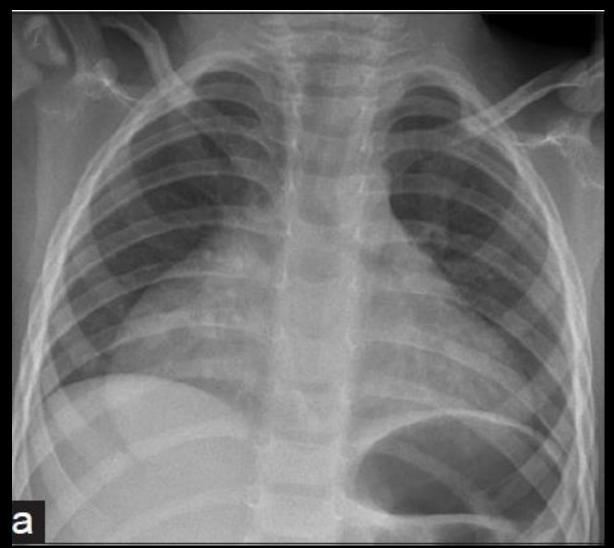
Can you figure out which heart chamber is enlarged?

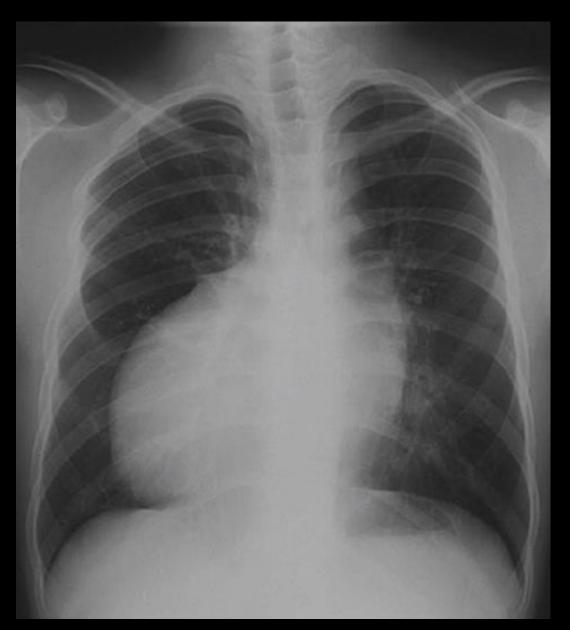
> Right atrium



Left atrium enlargement vs Right atrium enlargement

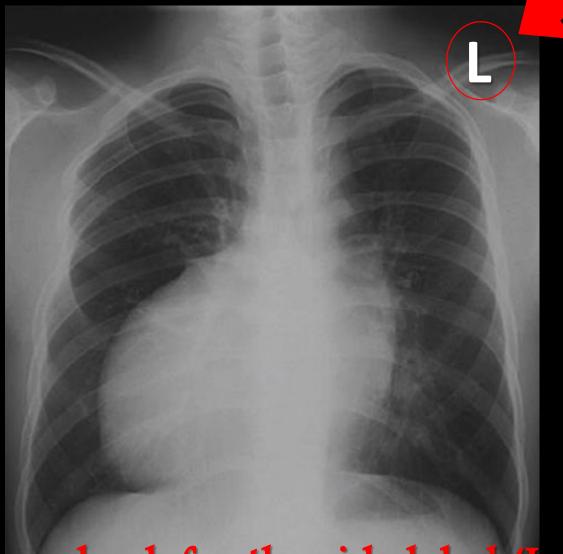












Diagnosis: dextrocardia

Always check for the side label (L or R)

60 year –old male with difficulty in breathing

What is the most likely diagnosis?



60 year —old male with difficulty in breathing

What is the most likely diagnosis?

CardiogenicPulmonary edema(interstitial)



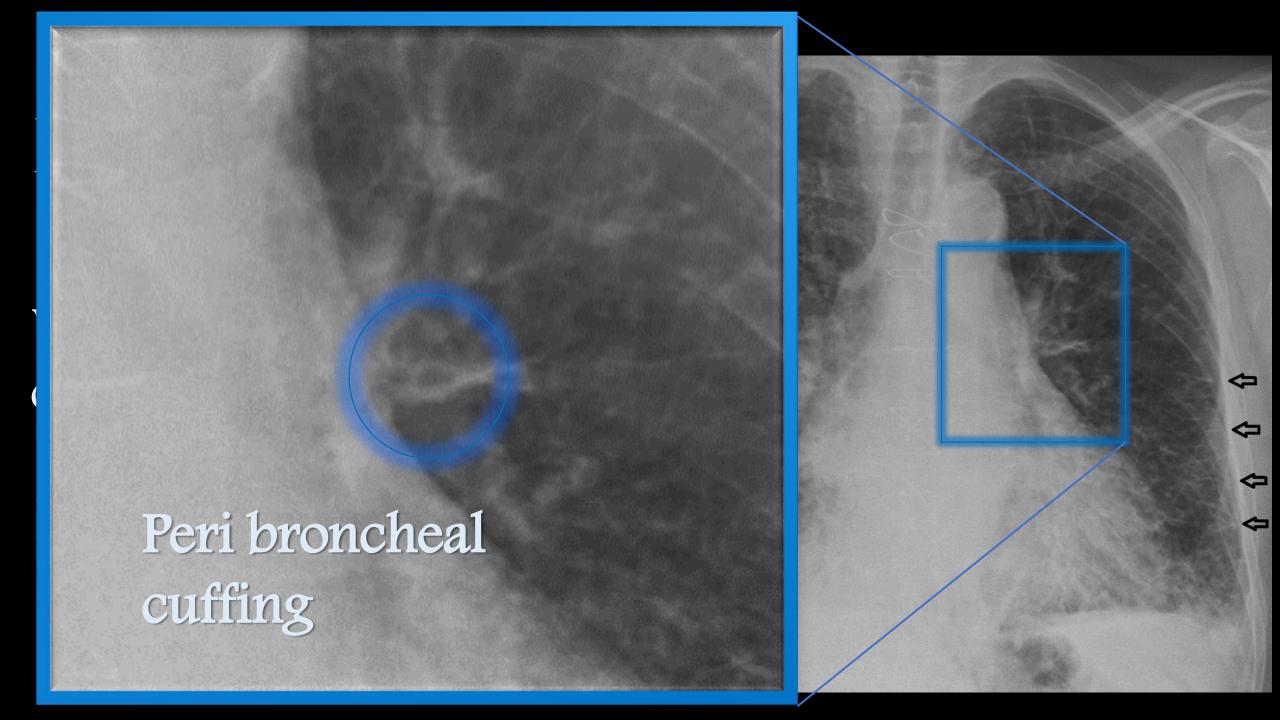
60 year —old male with difficulty in breathing

What is the most likely diagnosis?

CardiogenicPulmonary edema(interstitial)



60 wibre Wł dia **4 Kerley B lines**



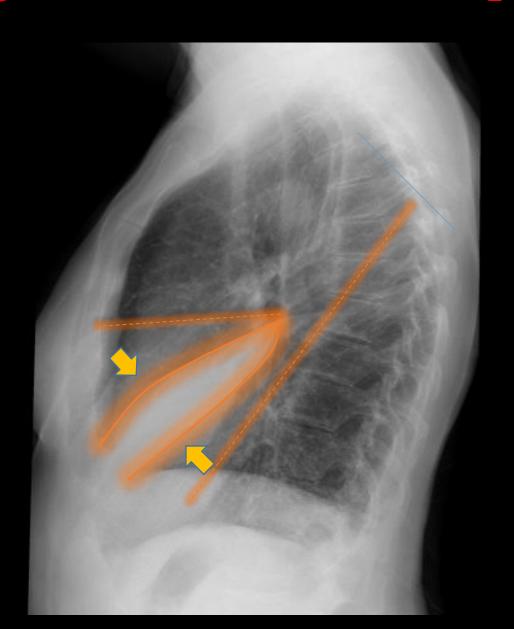
What do you see in this x ray?



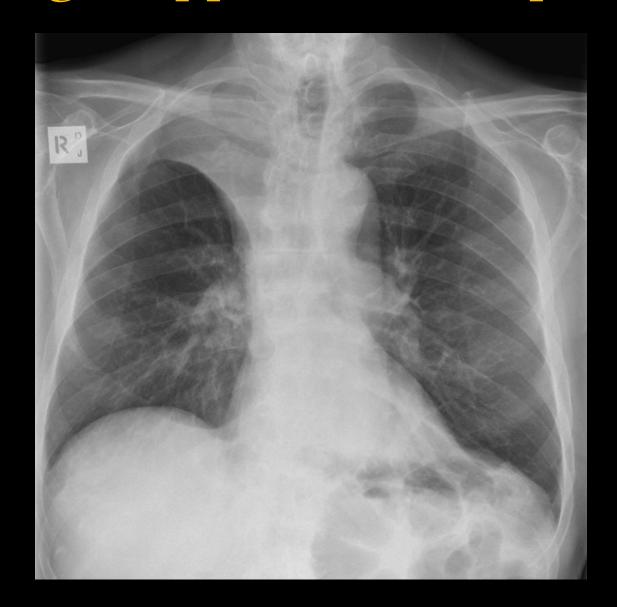


What do you see in this x ray? Right middle lobe collapse.

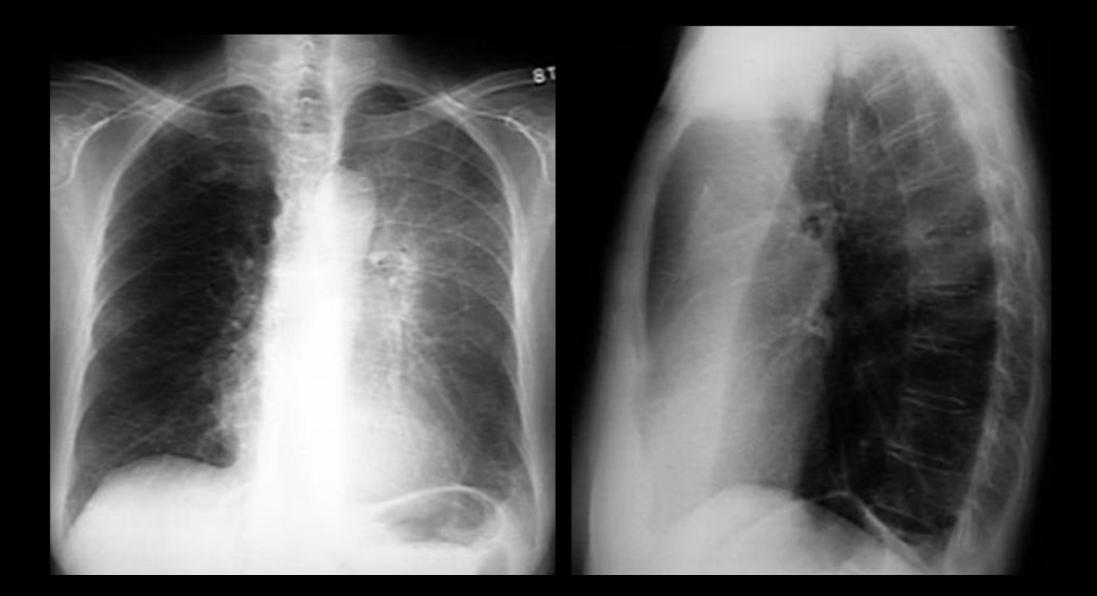




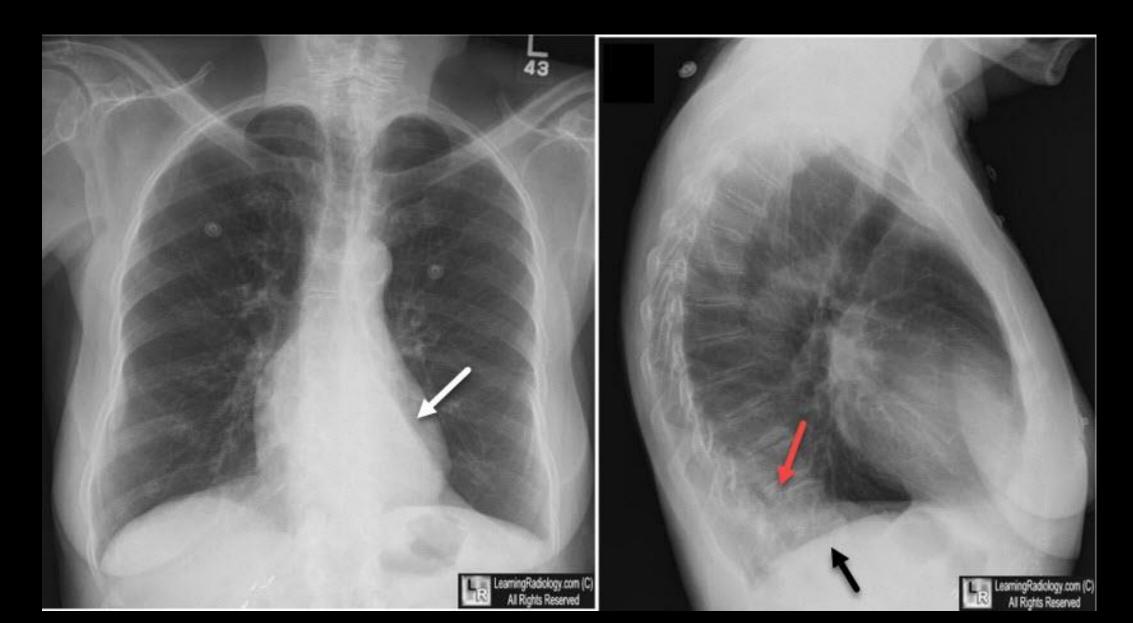
Right upper lobe collapse



Left upper lobe collapse



Left lower lobe collapse



Right lower lobe collapse



50 year-old with severe chest pain.

What is abnormal?



50 year-old with severe chest pain.

What is abnormal?

The aorta is enlarged.

What will you do next?



50 year-old with severe chest pain.

What is abnormal?

The aorta is enlarged.

What will you do next?

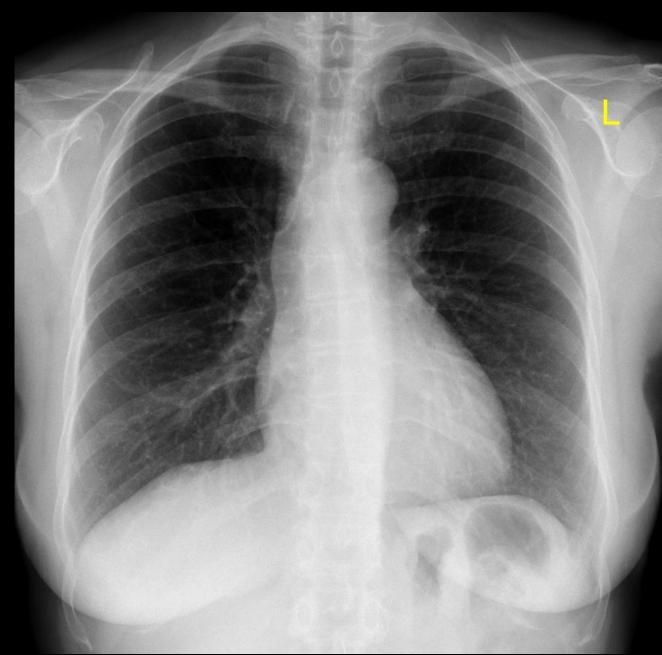
CT scan (CT aortogram)



What is the diagnosis?

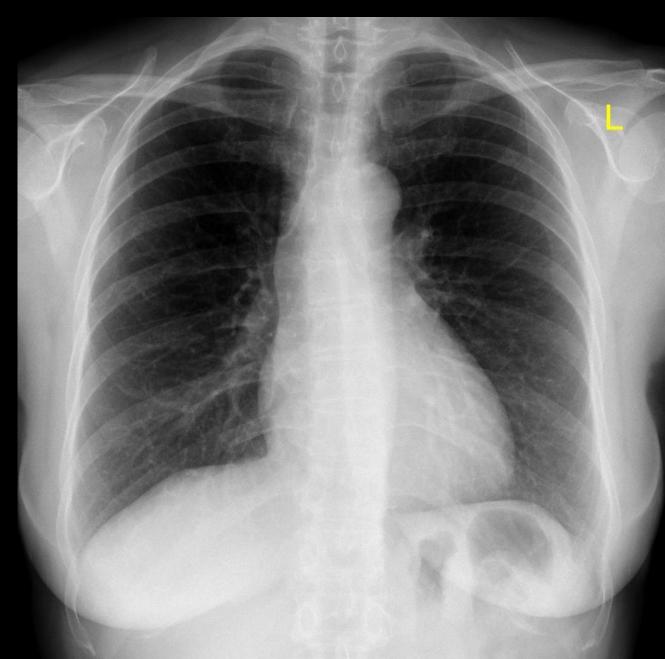
What is the diagnosis ? Aortic dissection.

What are you suspecting this patient has?



What are you suspecting this pataint has?

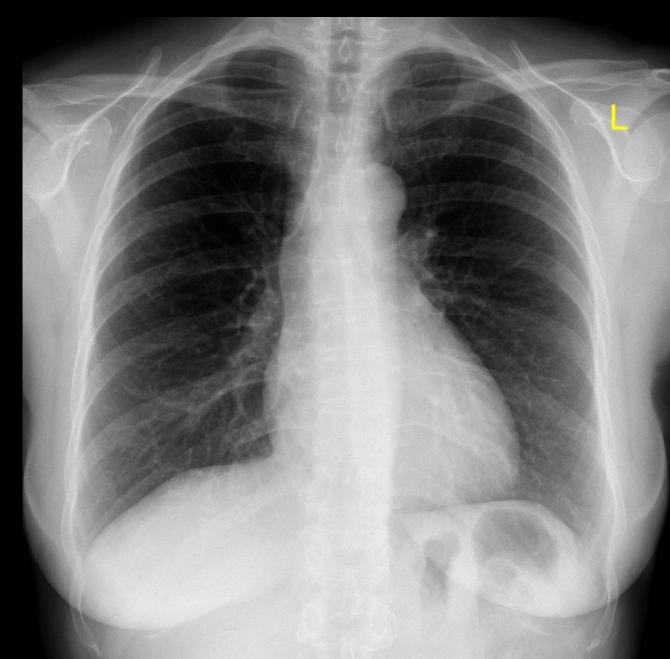
> Pulmonary embolism



What are you suspecting this patient has?

> Pulmonary embolism

Do you see any abnormality in this chest x ray?

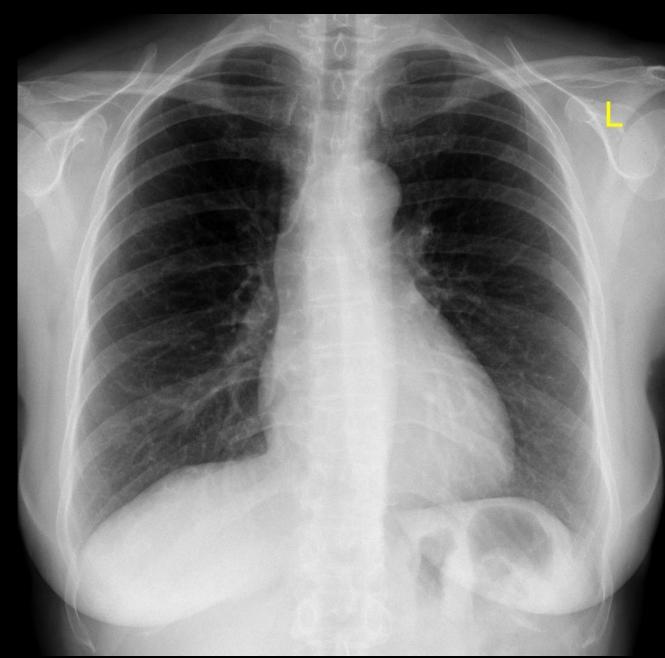


What are you suspecting this patient has?

> Pulmonary embolism

Do you see any abnormality in this chest x ray?

>No



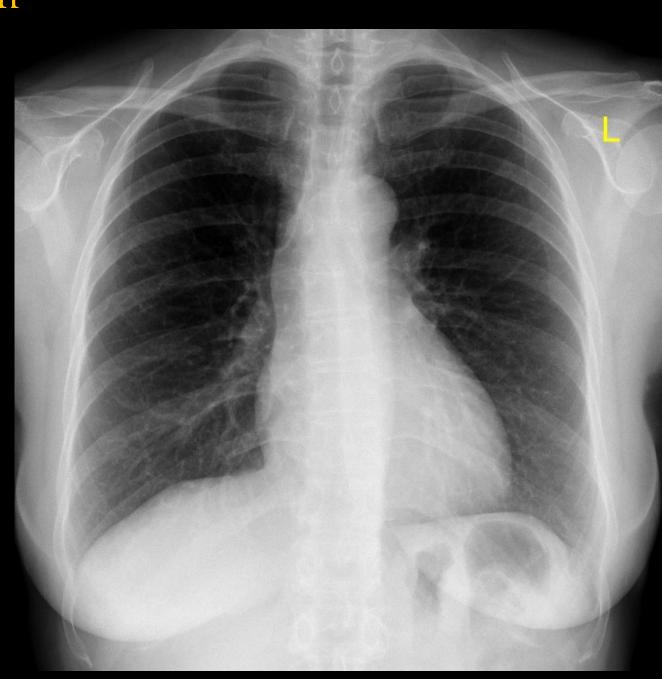
What are you suspecting this patient has?

> Pulmonary embolism

Do you see any abnormality in this chest x ray?

>No

What to do next?



What are you suspecting this pataint has?

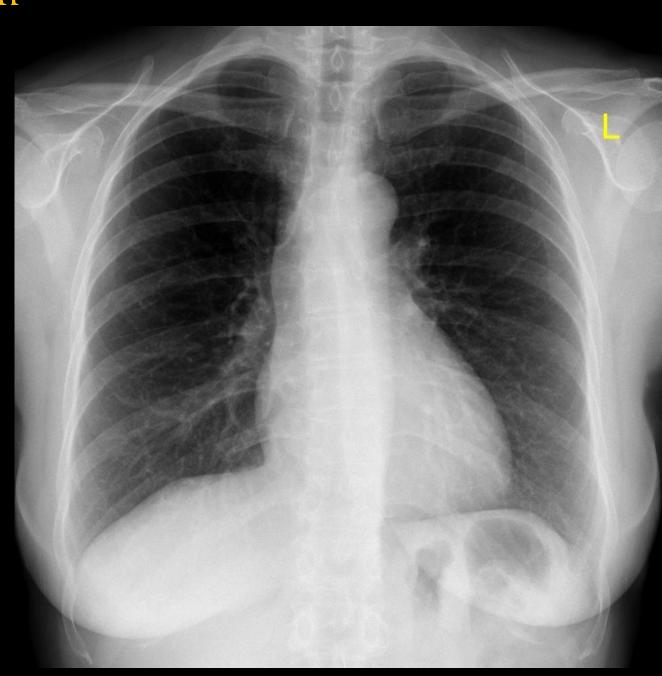
>Pulmonary embolism

Do you see any abnormality in this chest x ray?

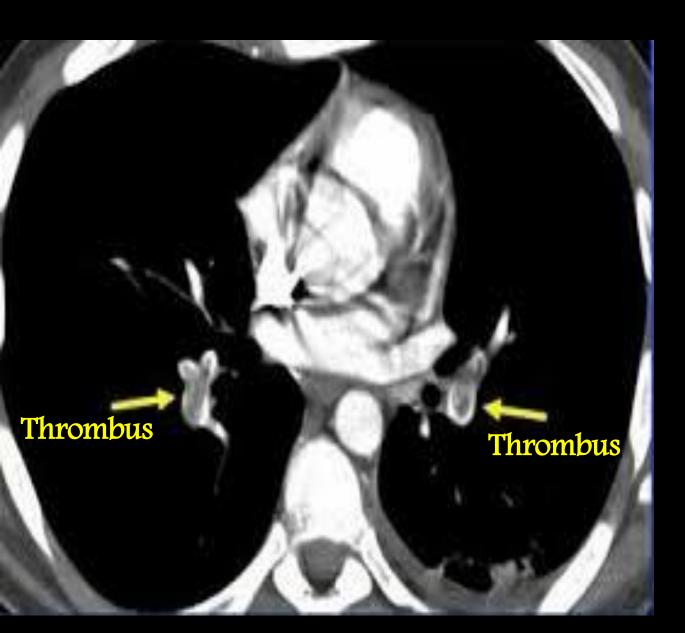
>No

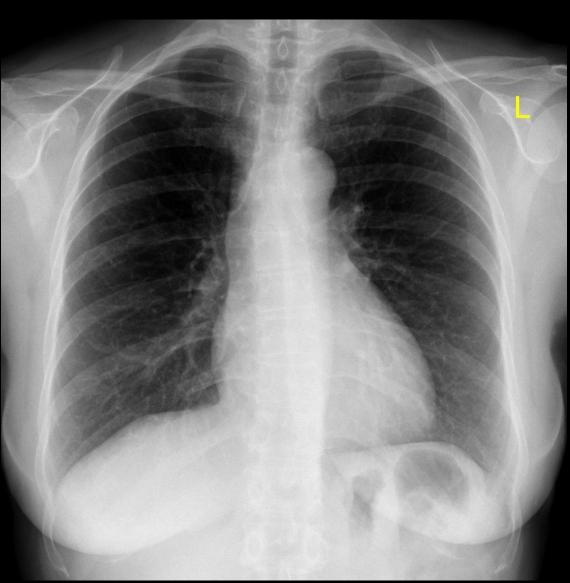
What to do next?

>CT pulmonary angiogram.

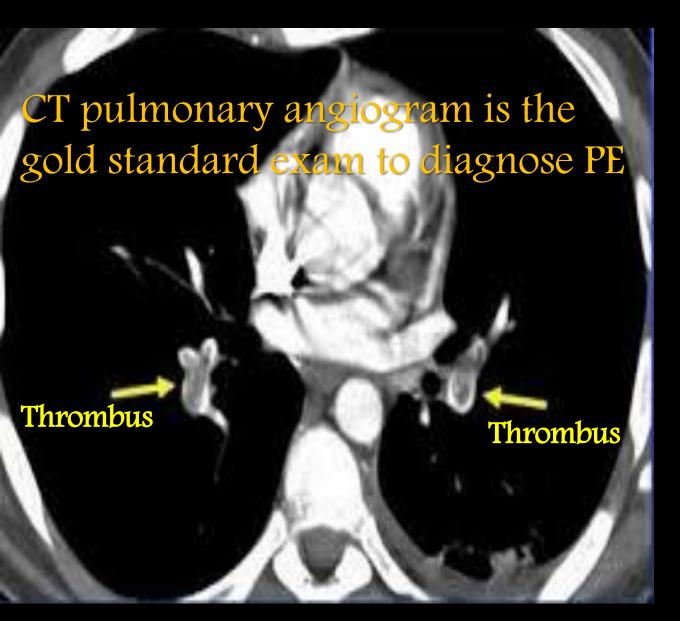


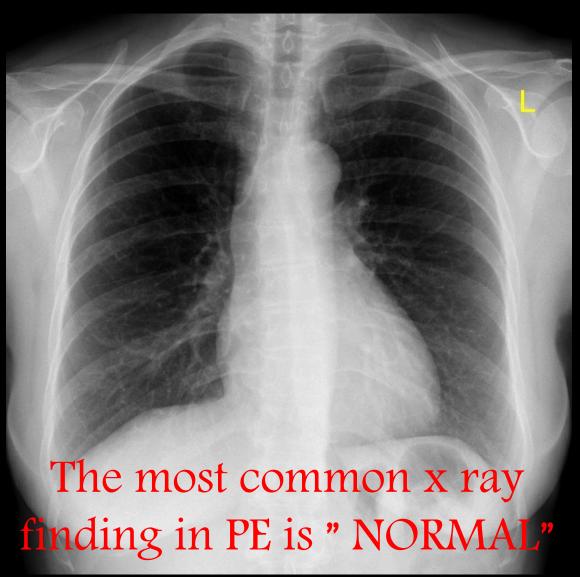
Pulmonary embolism





Pulmonary embolism

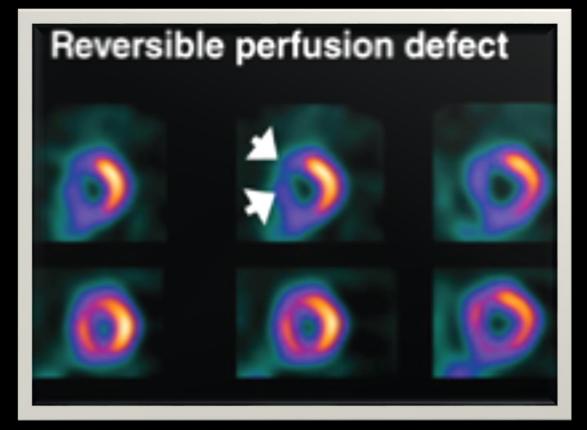


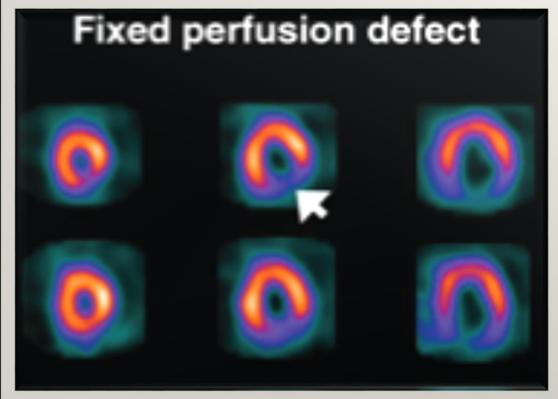


What is the diagnosis?

Stress

Rest

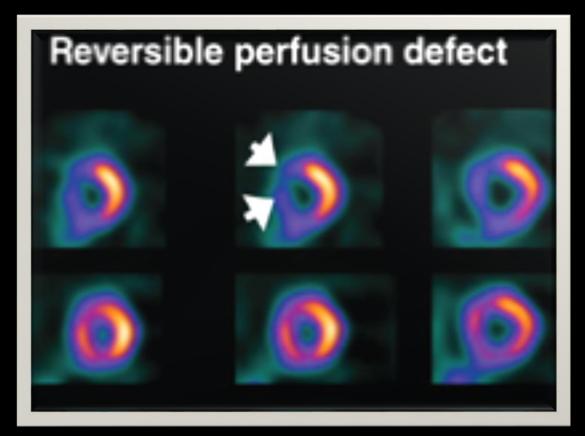




What is the diagnosis?

Stress

Rest





Myocardial ischemia

Myocardial infarction

Thank you