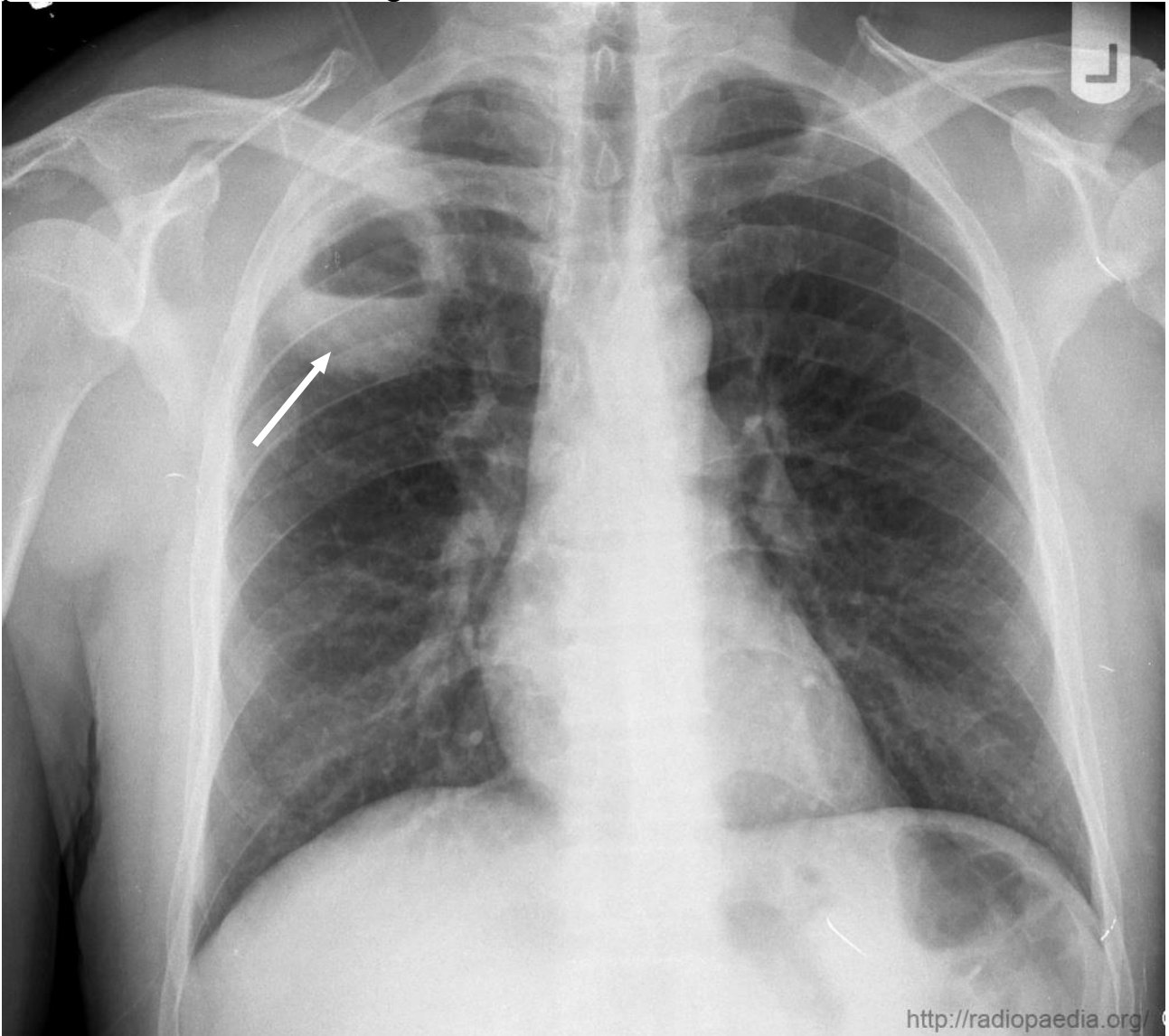


**Odesa National Medical University**  
**Internal medicine #1**

**Task №1**

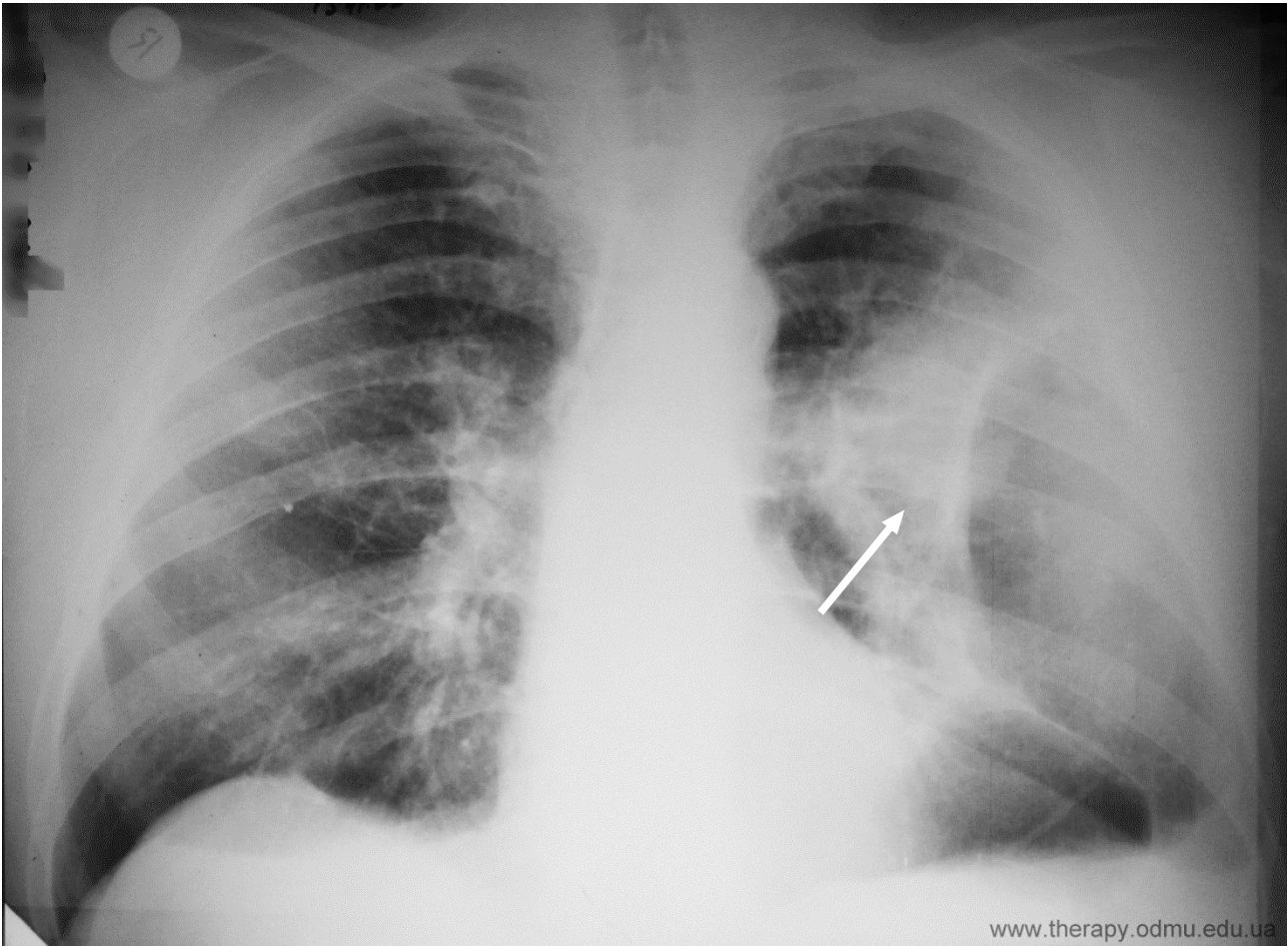
A 60-years-old patient, was treated for severe community acquired pneumonia for two weeks. His condition worsened: hectic fever, weakness, cough with purulent sputum appeared. Chest X-ray revealed following changes.

Make a conclusion on the basis of the X-ray analysis. What is the cause for the patient's condition worsening?



### Task №2

A 68-years-old patient was delivered by the ambulance to the emergency care department having lung bleeding, severe dyspnea, cough. Chest X-ray was performed. What is the most probable diagnosis?



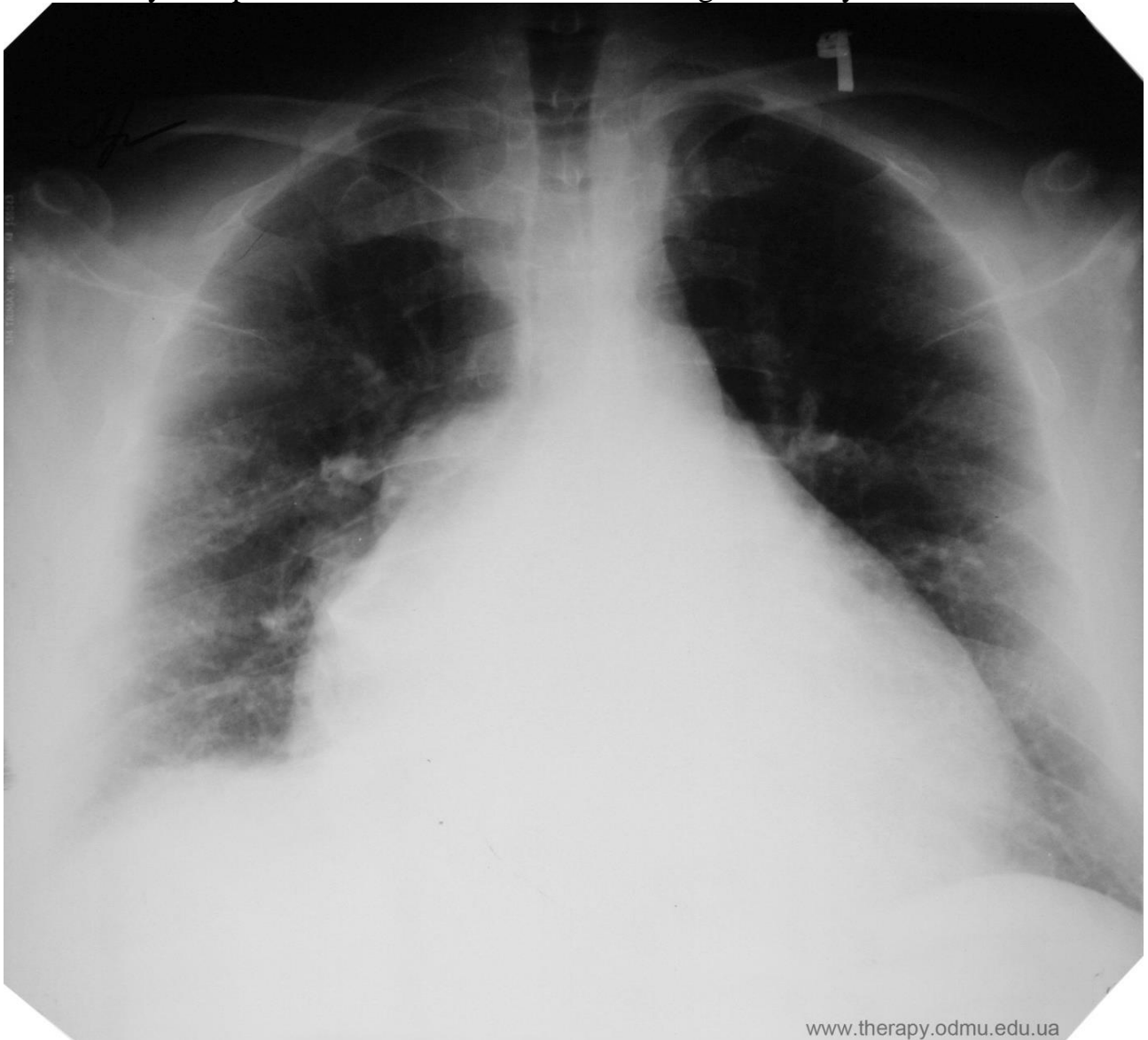
### Task №3

A 59-years-old female, complains of pain and edema in the small joints of both hands, weak pain in the heart region, dyspnea, overall weakness, joint stiffness in the morning for 1,5 hours. Considers herself ill for 8 years. X-ray of both hands was performed. What is the most probable diagnosis?



#### Task №4

A 38-years-old patient, who suffered several attacks of rheumocarditis in the childhood, complains of palpitations. During examination heart hump was found, percussion borders of heart are shifted outwards, atrial fibrillation was diagnosed. Chest X-ray was performed. Give a conclusion on a given X-ray.



### Task №5

A 32 years old patient, after 3 days of ARVI complains of cough with mucous sputum, increased temperature up to 39°C, weakness and headache. Chest X-ray was performed. What is the most probable diagnosis?



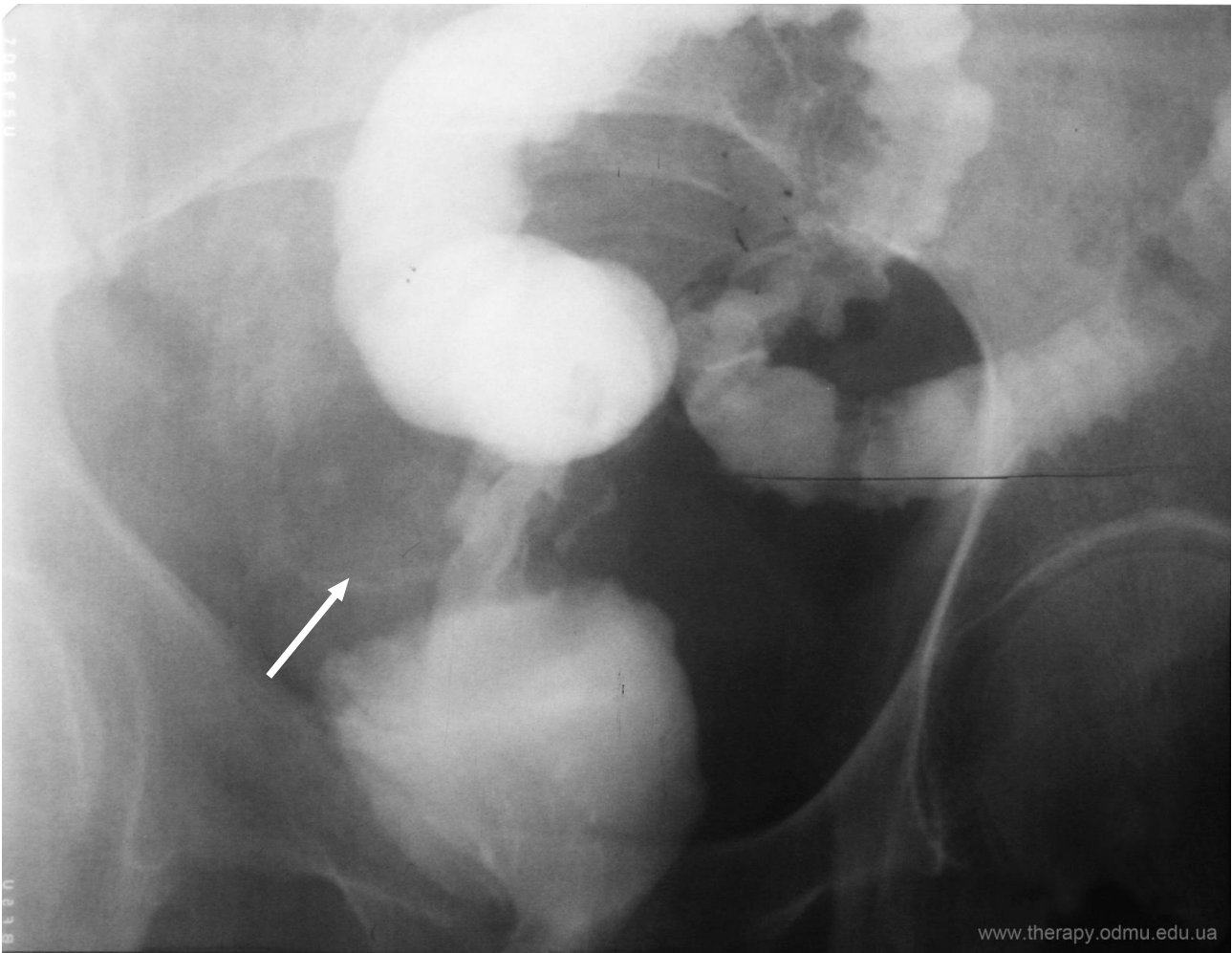
### Task №6

A 37 years old patient was admitted to the surgical department because of acute thrombophlebitis. Suddenly patient's condition worsened - shortness of breath, episode of fainting appeared. CT-angiogram of pulmonary artery was performed. Make a conclusion based on the X-ray examination. What complication had developed in this patient?



### Task №7

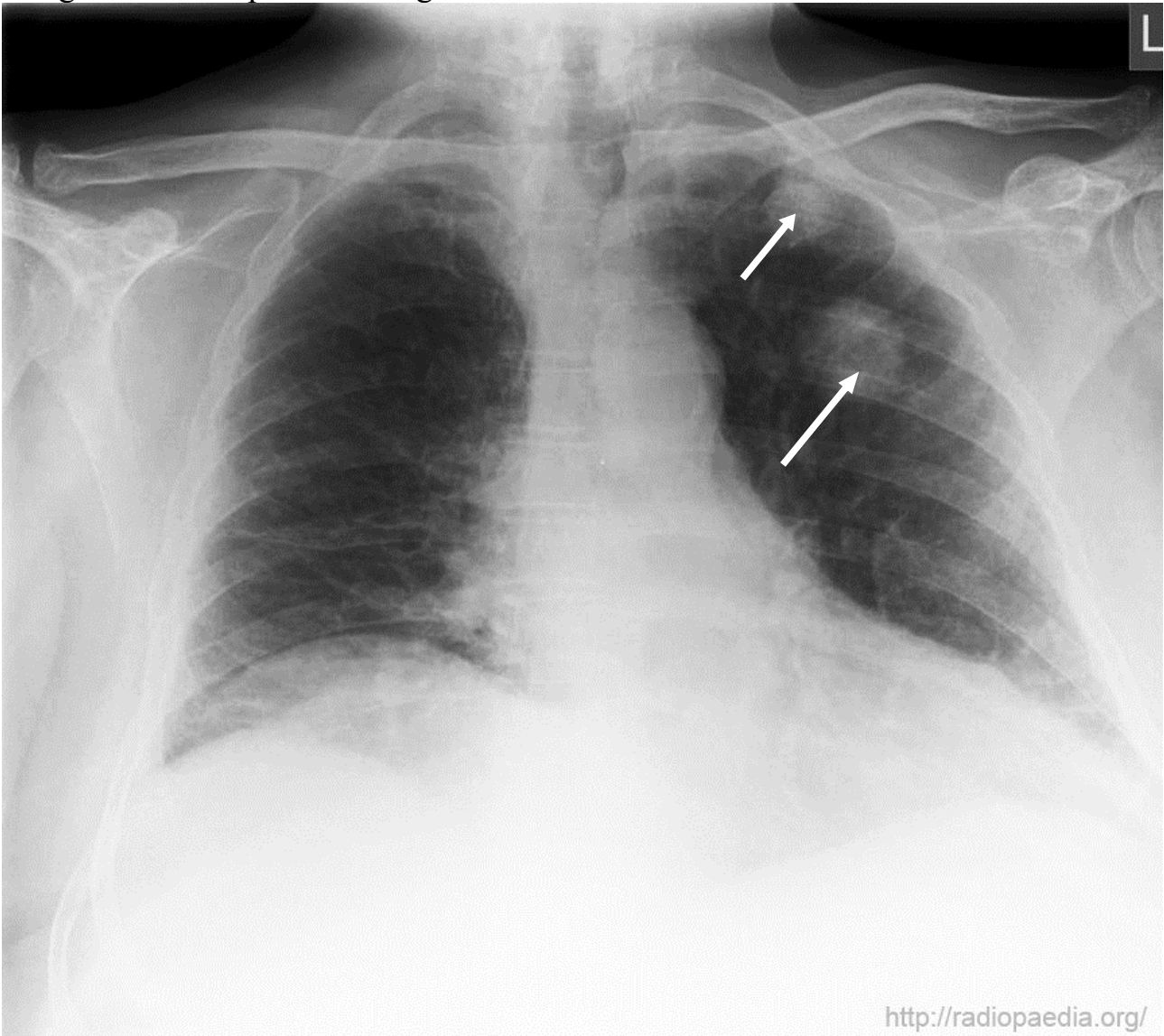
A 60 years old patient was admitted to the gastroenterological department with complaints of constipation, periodical admixtures of blood in stool, weight loss. X-ray examination was performed. Make a conclusion, based on the X-ray and make a diagnosis.





### Task №8

A 66-years old patient has complaints about permanent cough, weight loss, weakness. Chest X-ray was performed. Make a conclusion, based on the X-ray results and give the most probable diagnosis.





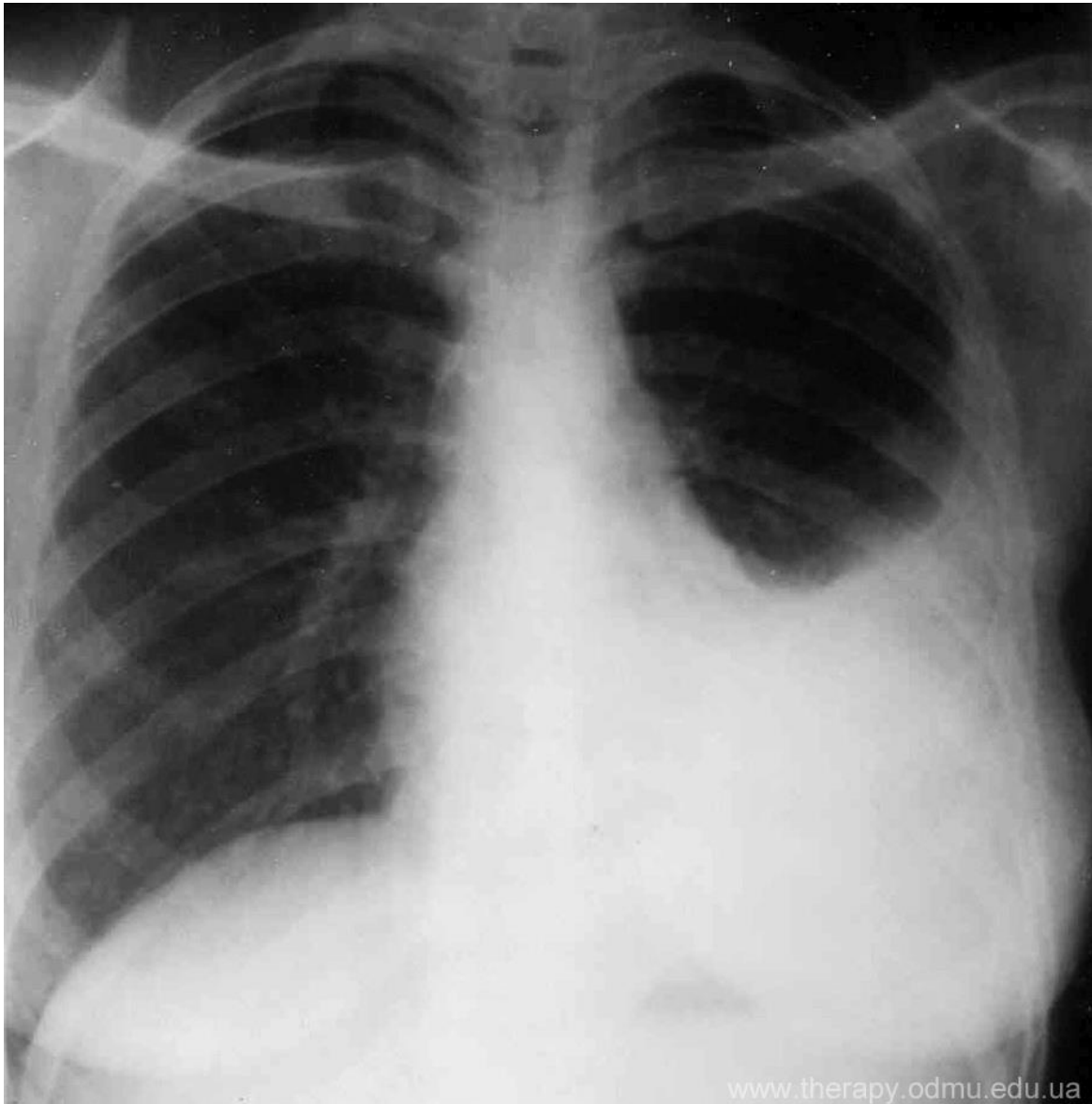
### Task №9

A 68 years old woman, obese, experiences pain for more than 15 years in the knee joints in vertical position and while walking. A patient continues work as a cashier. Knee-joint X-ray was performed. Make a conclusion, based on X-ray and give the diagnosis.



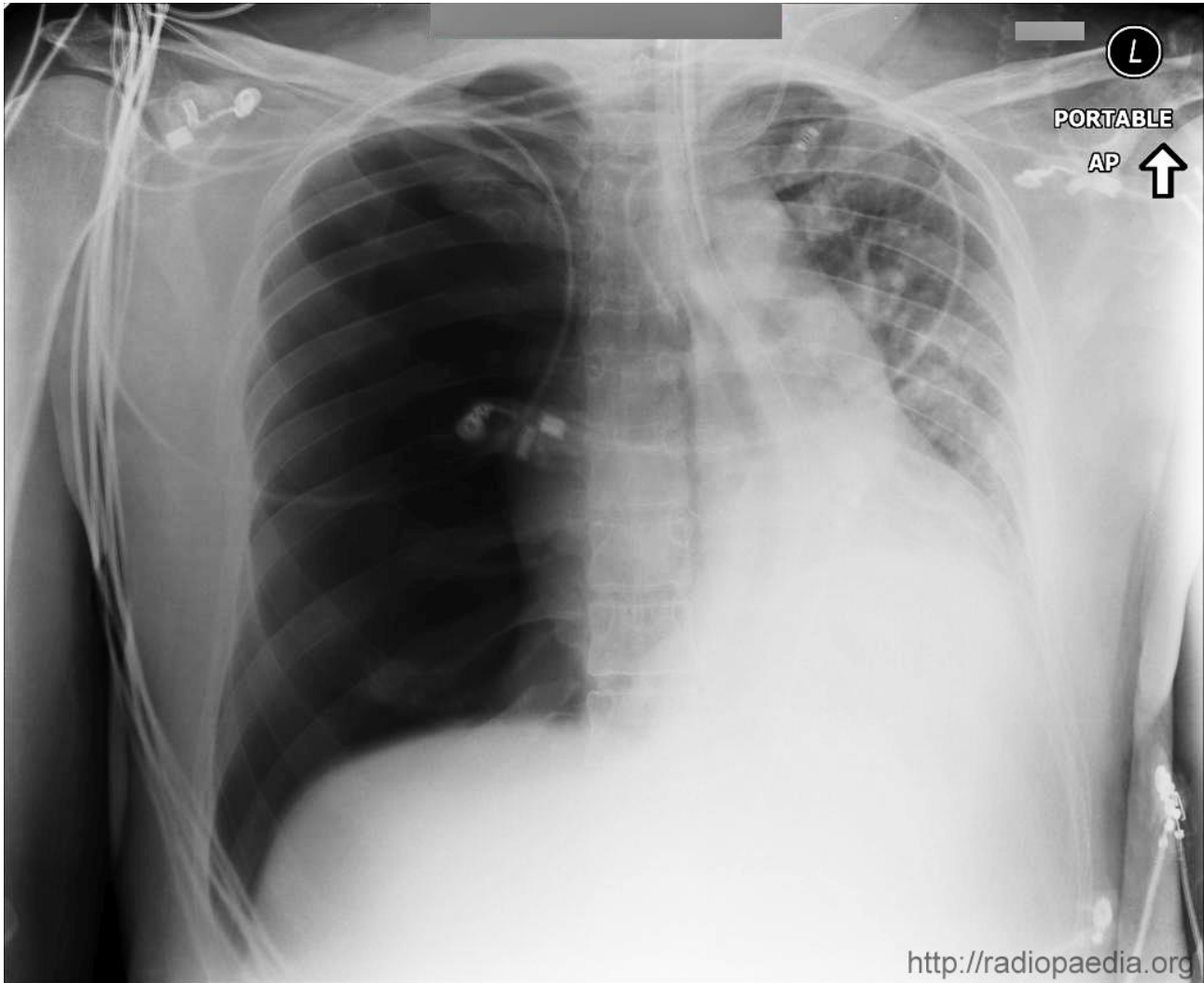
### Task №10

A 24 year old female, fell acutely ill after long cold exposure. Complains of pain in left side of chest, dyspnea and fever. During physical examination —absence of breathing sounds and dullness of percussion sound above the lower part of left lung. Chest X-ray was performed. What is the most probable diagnosis?



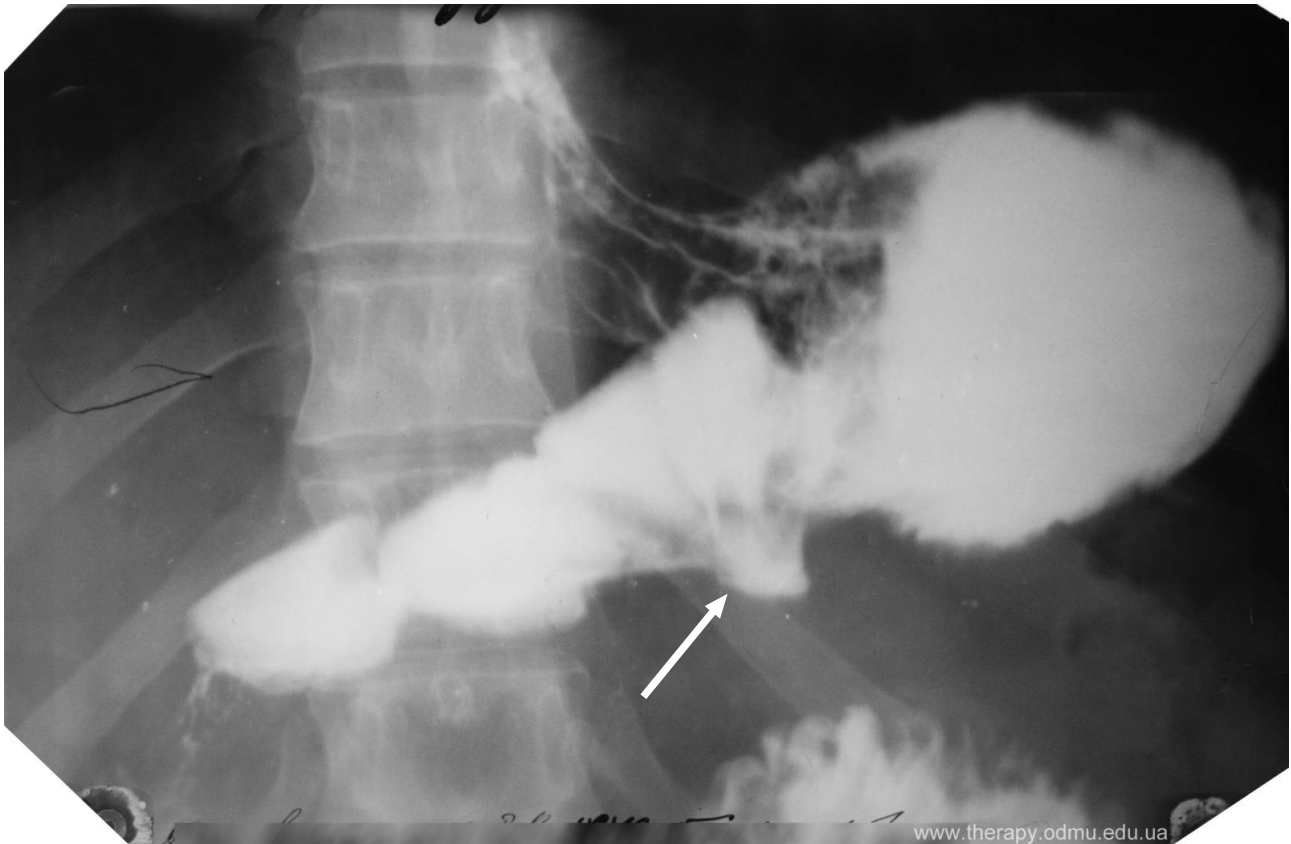
### Task №11

A 35-years-old male patient complains of chest pain, dyspnea, palpitation, dry cough that started after he lifted heavy weight. On objective examination: cyanosis, absence of breathing sounds above right chest side. Pulse 120/min. BP- 90/60mmHg, respiration rate 32/min. Chest X-ray was performed. Establish the diagnosis.



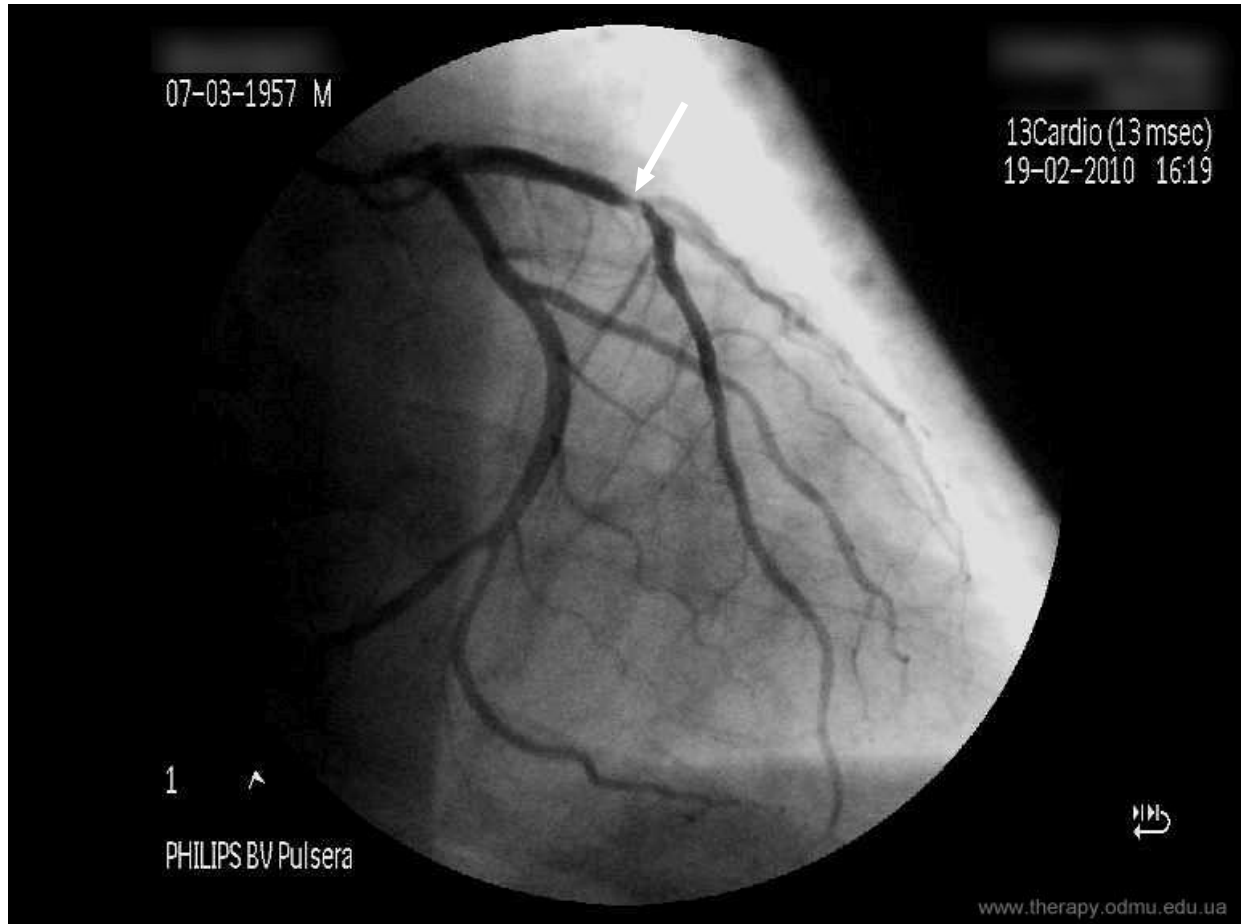
### Task №12

51 years-old male, height 187cm, weight 52 kg. Complains of having pain in epigastric region that appears after meals, “hunger pains”, heartburn with periodic vomiting that happened several times before the admission. X-ray of abdominal cavity was performed. Greater stomach curvature shows the “niche sign”. What is the most probable diagnosis?



### Task №13

A 59 years-old male, director of a private enterprise, was taken to the cardiology department with complaints of intense squeezing pain in the heart, which began about 45 minutes ago. Coronary angiography was performed. Assess the angiogram and specify the most probable cause of pain.



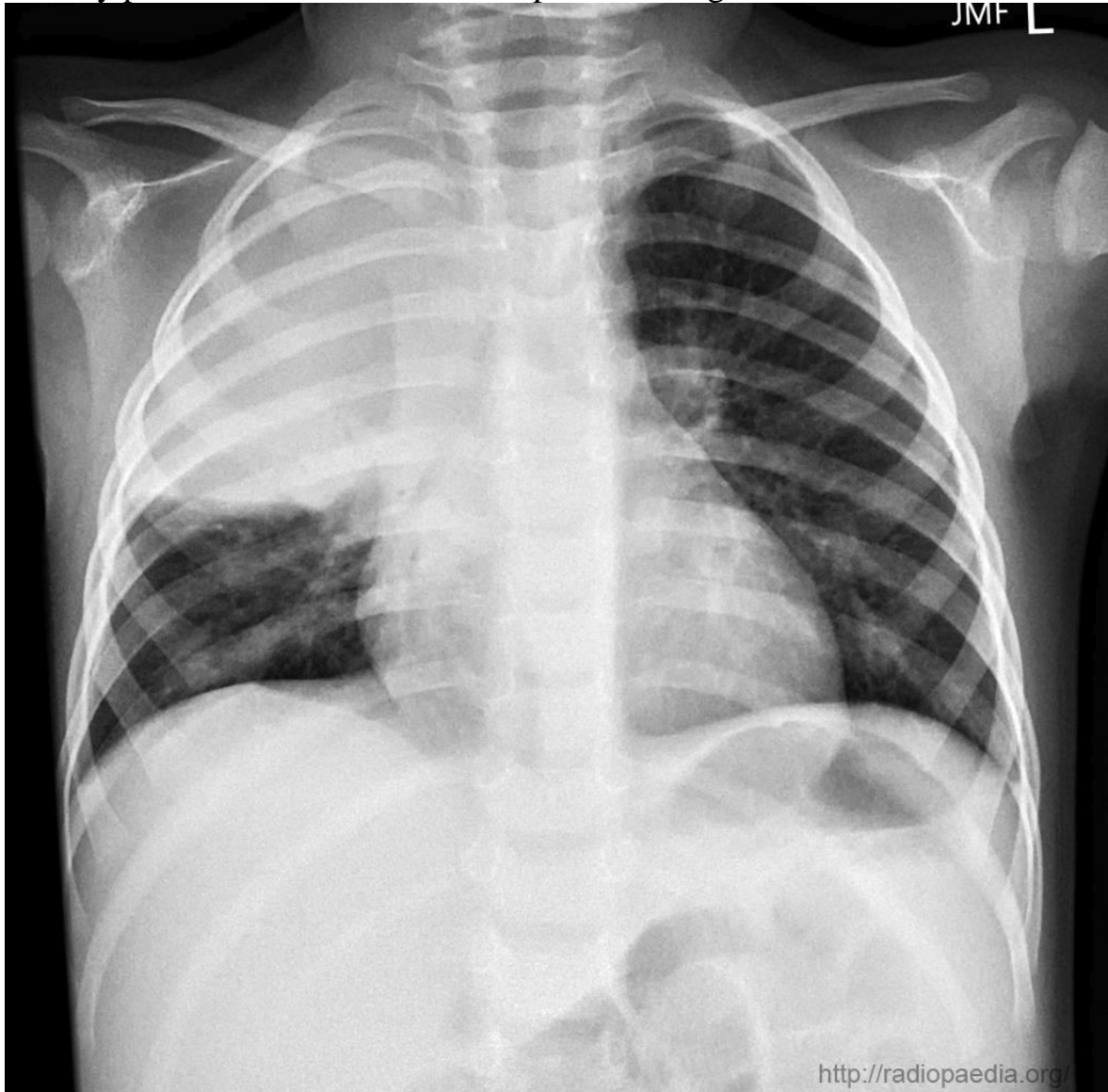
### Task №14

A 49 years-old lawyer was admitted to the clinic complaining of intense pain in the I metatarso-phalangeal joint of the left foot, its redness and swelling, which began last night, after celebrating his birthday. Foot radiogram was performed. Analyse the X-ray and give the most probable diagnosis.



### Task №15

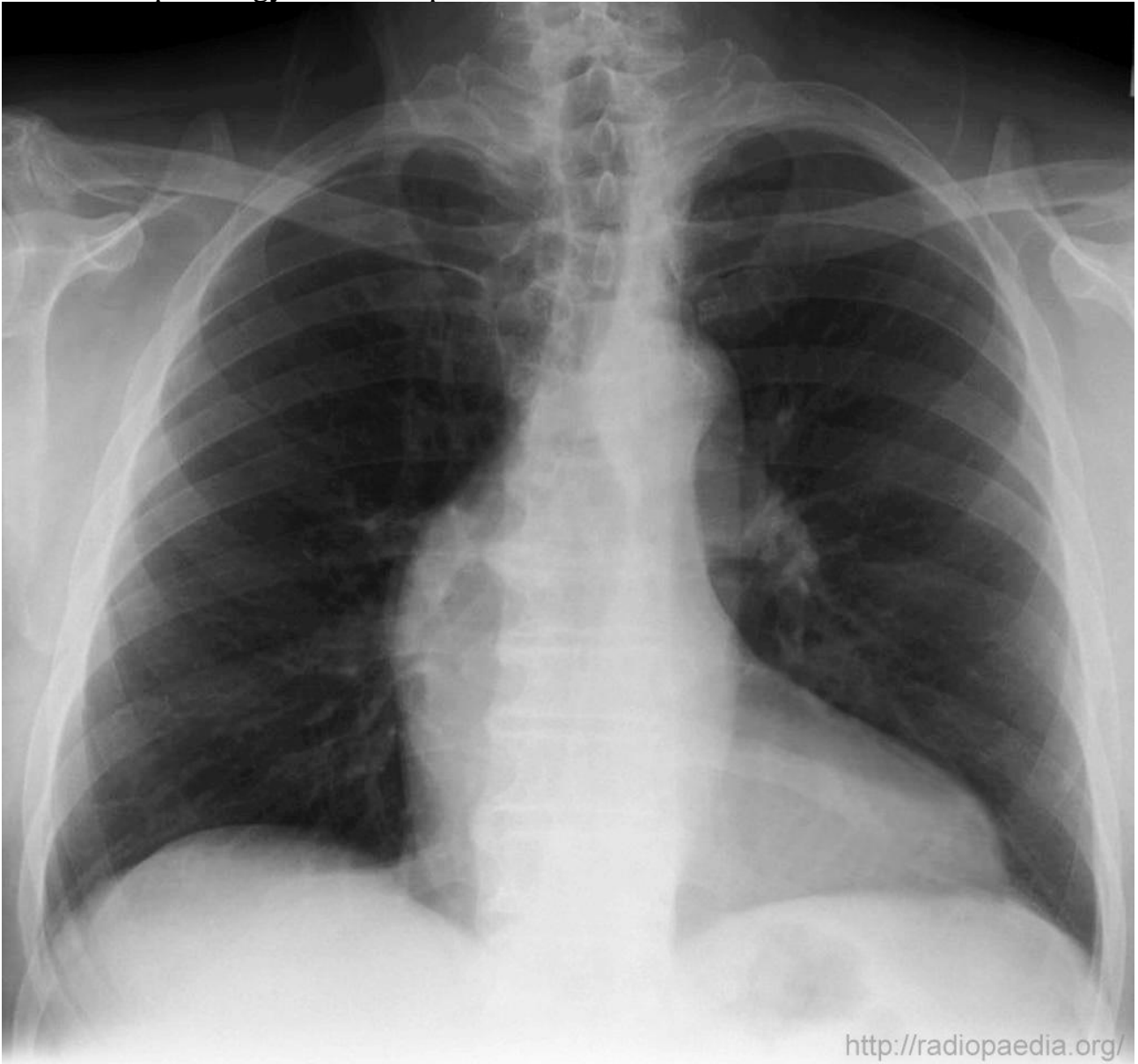
18 years-old female, came to the doctor with complaints of fever up to 38,7°C, severe weakness, shortness of breath, palpitations, cough with mucous sputum. The disease began after she worked in a cold room for a long time. The patient had her chest X-ray performed. What is the most probable diagnosis?





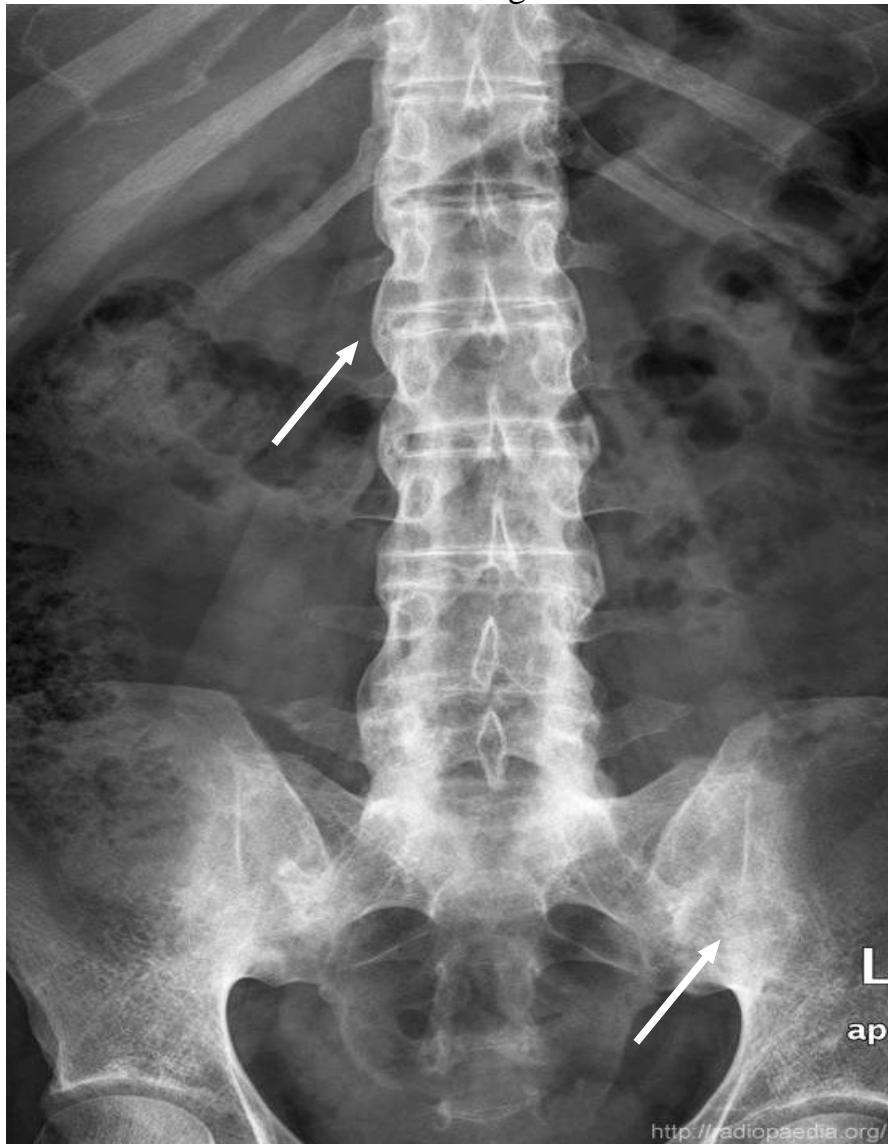
### Task №16

A 52-years-old patient complains of palpitations, pain in the heart area, dyspnea. Chest X-ray was performed. The X-ray shows heart borders shifted to the left, aortic arch enlarged and strongly expressed. Give a conclusion on the X-ray. What heart pathology can be suspected?



### Task №17

A 33 years old male patient, complains of severe restriction of mobility in the spine on tilting and rotation, back pain at the slightest movement, pain is worse at night and after sleeping. Objectively - the patient is slouching, movement in all parts of the spine are drastically reduced. Radiogram of thoracic and lumbosacral spine was performed. Give a conclusion on the radiogram.



### Task №18

A 65 years old male, delivered in an intensive care unit in serious condition. In anamnesis: observation because of prostatic hyperplasia with increased prostate oncomarker (PSA). Objectively: confused consciousness, icteric skin colour, "hepatic" breath smell, abdominal enlargement, swelling of the lower extremities. The liver edge is 5 cm below the costal arch, painful on palpation. Computed tomography of the abdominal cavity was performed. Give an opinion on CT imaging.



### Task №19

Patient L., 72 years old, was admitted to the cardiology department because of an expressed general weakness, shortness of breath at rest. Objectively: the patient is sitting, leaning forward; RR – 24/min., jugular veins distension; on palpation apical beat is not determined; on percussion - expanding of cardiac dullness in all directions; on auscultation - tone deafness at all points. Liver - 3 cm below the costal margin. Expressed lower extremities edema.

Patient underwent computed tomography of the chest.

Give an opinion on imaging performed.



### Task №20

Patient K., 70 years old, turned to the family doctor because of cough, fever. Has a history of chronic rheumatic heart disease, valvular defect operation. The patient had chest X-ray performed. Give an opinion on the radiogram; describe the possible origin of the artifacts found.

