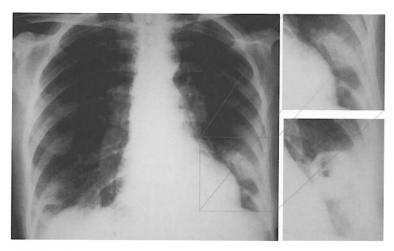
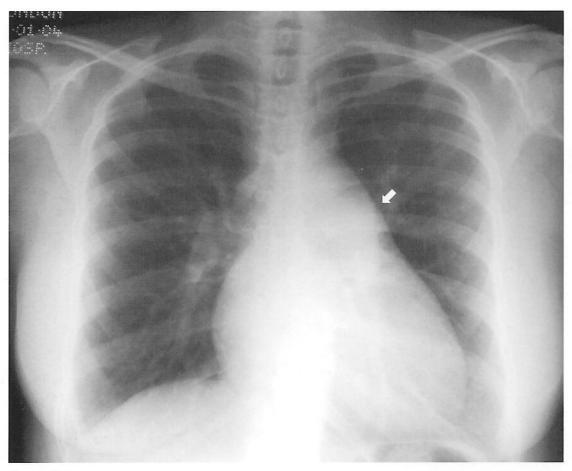
## **Pulmonary embolic disease**

- The CXR in acute pulmonary embolus (PE) is often normal and its main value is in identifying other possible causes for the symptoms thought to be due to a PE.
- A CXR is required to accurately interpret a ventilation/perfusion scan if this is to be used to diagnose a PE.
- Some signs on the CXR that may indicate a PE are peripheral wedge-shaped opacities representing
  infarcted sub-segmental areas of lung that may cavitate (Fig 13.1), pleural effusion, atelectasis and
  paucity of vascular markings in the region of the PE.



**Figure 13.1**Frontal CXR of an adult male patient with a left lower lobe pulmonary infarct that subsequently cavitated (lower inset taken from CXR 3 weeks later).

- Chronic pulmonary embolic disease results from multiple small emboli to the lungs over a long period of time manifest in a gradual deterioration of pulmonary function.
- The signs associated with an acute PE are not a feature, but the development of pulmonary arterial hypertension may be evident with prominent proximal pulmonary arteries (Fig 13.2).



**Figure 13.2**Frontal CXR of an adult male with pulmonary hypertension. Note the dilated pulmonary outflow tract causing an abnormal left mediastinal border (white arrow).