Luftsichel sign and juxtaphrenic peak sign

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DESCRIPTION
A 56-year-old man presented with a 1-week history of cough, dyspnoea and left-sided chest pain. A chest radiograph revealed left mid lung infiltrates (figures 1 and 2). He was treated as an outpatient with an antibiotic for community-acquired pneumonia. His symptoms resolved and a chest X-ray 2 months later showed an elevated left hemidiaphragm with a characteristic Luftsichel sign (figures 3 and 4). A lateral view X-ray showed left upper lobe collapse with anterior displacement of the oblique fissure and elevation of the left hemidiaphragm (figure 5). A CT of the chest confirmed left upper lobe collapse due to an endobronchial lesion (figure 6). In addition, chest X-ray showed presence of a juxtaphrenic peak sign that had become more...
prominent compared to prior chest X-ray (figure 3) and was confirmed on CT of the chest (figure 7).

Luftsichel sign (in German: Luft: air and sichel: crescent) was first described in 1942.\(^1\) This sign is seen in left upper lobe collapse. When the left upper lobe collapses, the superior segment of the left lower lobe shifts upwards and anteriorly, interspersing between the aortic arch and the collapsed left upper lobe. The ensuing air crescent around the aortic arch is the Luftsichel sign.\(^2\)

Juxtaphrenic peak sign has been well described in chest X-rays following upper lobe volume loss (for eg, lobectomy, tuberculosis or radiation). A prominent inferior accessory fissure is the main reason for this sign. This sign is noted to appear in 70% of patients after right upper lobectomy and in 50% after left upper lobectomy. Presence of this sign is suggestive of upper lobe volume loss and is never seen after lower lobe lobectomy.\(^3\)

**Learning points**

- Luftsichel (air crescent) sign is suggestive of left upper lobe collapse.
- Juxtaphrenic peak sign is seen in chest X-rays following upper lobe volume loss.

**Competing interests** None declared.

**Patient consent** Obtained.

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**REFERENCES**
