Haemoptysis as the sole presenting symptom of dissection of the aorta

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ABSTRACT A 75 year old man who had had haemoptysis for 24 hours was found to have his left lower lobe compressed by a dissection of the aorta, which was otherwise symptomless.

Haemoptysis is a rare complication of aortic dissection, and recurrent haemoptysis as the sole initial symptom is most unusual. We report such a case.

Case report

A 75 year old man was admitted to our department because of recurrent haemoptysis of 24 hours' duration. His medical history included hypertension and mild diabetes mellitus of five years' duration. He had been admitted to hospital two years earlier because of recurrent transient ischaemic attacks.

The patient was symptomless and on physical examination was generally well, without dyspnoea or chest pain. The pulse was regular at 100 beats/min and the blood pressure was 160/110 mm Hg. No murmurs were heard over the heart; breath sounds were diminished over the lower part of the left lung. The femoral arteries were palpated but peripheral pulses were absent.

The pertinent laboratory data included packed cell volume (0.51) and prothrombin time, platelet count, and creatinine concentration, which were all within the normal range. No acid fast bacili were identified in sputum.

An initial chest radiograph showed a tortuous and enlarged aorta with a questionable double contour at the left edge of the aortic arch. Computed tomography showed an enlarged aeurysmal aorta with an intimal flap (fig 1). Irregular crowding of the left lower lobe due to compression by the aneurysm was also seen (fig 2). Subsequent angiography confirmed dissection of the descending aorta. At bronchoscopy the only abnormal finding was a clot in the left lower lobe bronchus.

The patient refused surgical intervention. Paraparesis developed and he died two weeks later in uraemic coma. Postmortem examination showed dissection of the descending aorta beyond the origin of the left subclavian artery, adhesions of the aneurysm along the left lung, and an infected area in the lung adjacent to the aneurysm.

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Accepted 6 January 1989

Discussion

The characteristic clinical picture of dissection of the aorta is dominated in more than 90% of cases by severe and unremitting pain. Painless dissection has been described, but in the absence of pain the diagnosis is frequently overlooked. Bleeding due to oozing or rupture from a dissecting aneurysm into the pleural cavity is a known
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complication. Haemoptysis, on the other hand, has been described only rarely.

The haemoptysis in our case may have been due to pressure from the aneurysm on the lung, causing collapse and infection, or alternatively erosion of a small vessel of the compressed lung by the aneurysm.

No communication between the aneurysm and lung was found at necropsy, though the lung adjacent to the aneurysm was infected. We presume therefore that the haemoptysis was due to compression of the lower lobe of the left lung by the aneurysm.

Recurrent haemoptysis as the sole presenting symptom of dissecting aneurysm has not been previously described. In a review of 130 cases of haemoptysis this aetiology was not mentioned. Despite its rarity as a cause, we suggest that dissecting aneurysm should be included in the differential diagnosis of haemoptysis of obscure aetiology.

References
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Thorax 1989 44: 444-445
doi: 10.1136/thx.44.5.444