The term *mycotic aneurysm* is a misnomer that has nevertheless been generally adopted to describe aneurysms that occur secondary to the infectious destruction of the arterial wall. Mycotic aneurysm secondary to tuberculous infection of the aorta is a rare and life-threatening disease. Both abdominal and thoracic aorta are involved with equal frequency. Tuberculous aneurysms are usually a consequence of transmural perforation caused by direct extension to the vessel from a contiguous focus, often lymphadenitis, but also pulmonary, digestive or vertebral. Other mechanisms implicated are haematogenous contamination through the vasa vasorum, or an autoimmune response to tuberculosis.

Clinical features are highly variable, ranging from asymptomatic aneurysm with or without constitutional symptoms, pulsatile or palpable mass, chest pain, dysphagia, hoarseness, abdominal pain, back pain, to frank rupture, bleeding and shock. The key to the diagnosis is a high index of suspicion.

A 55-year-old man with prior exposure to tuberculosis, presented with low-grade fever, loss of appetite, significant weight loss and vague and atypical chest pain of 3 months duration. Investigations revealed lymphocytosis, raised erythrocyte sedimentation rate (94 mm for the first hour) and a positive Mantoux test. Chest x-ray showed multiple, enlarged hilar lymph nodes and a widened mediastinum. Two-dimensional echocardiography showed a dilated descending thoracic aorta compressing the left atrium (figure 1A,B; online videos 1–3). CT of the thorax confirmed multiple, enlarged hilar and mediastinal lymph nodes with central caseation (figure 2A) and a 6.5×6 cm saccular aneurysm involving the descending thoracic aorta (D6 and D7 level), with thin peripheral intraluminal thrombus (figure 2C,D). There was also evidence of an aneurysm of the left circumflex (LCX) coronary artery which was seen also on echocardiography (figures 1 and 2B).

The patient underwent surgery and biopsy and confirmed the diagnosis. He was started on four-drug antituberculous regimen and is doing well at 1 year follow-up. The index case highlights the importance of timely surgery. Whether the LCX aneurysm was secondary to tuberculosis could be debated.

**Learning points**

▸ Symptomatic tubercular mycotic aneurysm is an extremely rare but uniformly fatal lesion if not diagnosed promptly. High index of suspicion is the key.  
▸ Clinical presentation can be highly variable, ranging from asymptomatic state, vague chest pain, constitutional symptoms to hypovolemic shock and death.  
▸ Combined medical and surgical therapies offer the best chance for a cure. Medical therapy alone is ineffective.
Figure 2  (A) CT of the thorax showing enlarged mediastinal lymph node with central caseation.  (B) CT of the thorax showing the left circumflex coronary artery aneurysm.  (C) Three-dimensional reconstructed CT image showing aneurysm of the descending aorta.  (D) CT of an aortogram showing saccular aneurysm of the descending thoracic aorta (D6 and D7 level), with thin peripheral intraluminal thrombus.

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