Lung cancer masquerading as atrial myxoma

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Case report

A 53 year old Greek seaman and lifelong heavy smoker (60 cigarettes a day) was referred for treatment of a suspected bronchial carcinoma. He had noticed some palpitations in the preceding weeks and a chest radiograph showed a mass 8 cm in diameter within the apical segment of the left lower lobe. The day before he attended he had noted headache, difficulty with vision, and left sided paraesthesiae.

On examination he was in sinus rhythm and had an abnormal cardiac impulse, which was tapping in quality. There was a loud first heart sound but no opening snap. A mid-diastolic murmur was heard intermittently. He had left homonymous hemianopia. Carcinoma of the bronchus with cerebral secondaries was diagnosed clinically.

Fibroptic bronchoscopy showed an obstruction in the apical segment of the left lower lobe but a biopsy was inconclusive. Percutaneous fine needle aspiration biopsy confirmed the diagnosis of malignancy, the cell type being uncertain. Computerised tomography showed an abnormality in the right posterior cerebral cortex which had the appearances of infarction rather than secondary tumour. In view of the abnormal heart sounds the possibility of embolism from the heart was considered and echocardiography was performed to exclude coexistent mitral stenosis. Two dimensional echocardiography showed an intracardiac mass with the appearances of a left atrial myxoma.

Although the possibility that this was an intracardiac extension of the bronchial carcinoma was considered the appearances were thought suggestive of myxoma. As there had already been one cerebral infarct urgent surgery was performed to prevent further embolism.

At operation via a median sternotomy bypass was established and the left atrium was opened through the usual right sided incision parallel to the atrioventricular groove. A 20 cm semilobulated tongue of tissue (fig) passing from the left atrium through the mitral valve was discovered. An intra-atrial attachment was sought but the tumour was seen to be protruding from the left inferior pulmonary vein. This vessel was opened from the outside and the tumour, together with the mass in the apical segment of the left lower lobe, was removed from the left side of the heart. It was removed complete with the left lung. Histological examination of the tumour showed it to be an anaplastic bronchial carcinoma.

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References