

Spontaneous intramural haematoma of the oesophagus

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Spontaneous intramural dissection of the oesophagus is a rare condition and few cases have been published. Elderly women are most frequently affected, whereas in the Mallory-Weiss and Boerhaave syndrome there is a preponderance of men. Retrosternal pain, haematemesis, and the radiological findings of the barium swallow have always been sufficient for the diagnosis. We report a case, however, which differs from those previously published in that the barium swallow was normal and the dissection affected only the muscular layer without any tear in the mucosa.

Case report

A 58-year-old woman who had been taking aspirin for a few days suddenly suffered retrosternal and epigastric pain

with shock. Her electrocardiogram was unremarkable but laboratory data showed a haemoglobin concentration of 7.4 g/100 ml. The chest radiograph showed a large right lower paramediastinal shadow with a sharp outline (fig 1).

The patient was then transferred to our institute, where a new radiograph and a barium swallow showed a right pleural effusion and displacement of the middle and lower oesophagus to the left, without alteration of the lumen or the mucous membrane (fig 2). The appearances at the subsequent oesophagoscopy were unremarkable, but right thoracentesis showed the presence of a haemothorax.

At operation there was a large quantity of blood in the pleura with a large laceration of the mediastinal pleura and massive necrosis of the muscular layer of the oesophagus, which had been dissected off the mucosal layer by a wide-

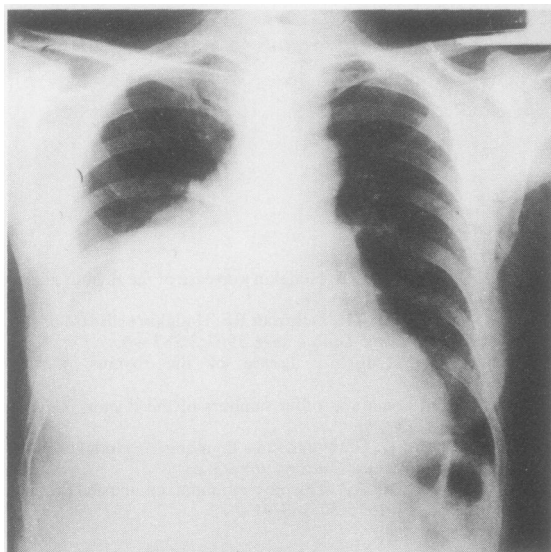


Fig 1 Chest radiograph showing a right paramediastinal shadow with a sharp outline, caused by an encapsulated mediastinal haematoma.

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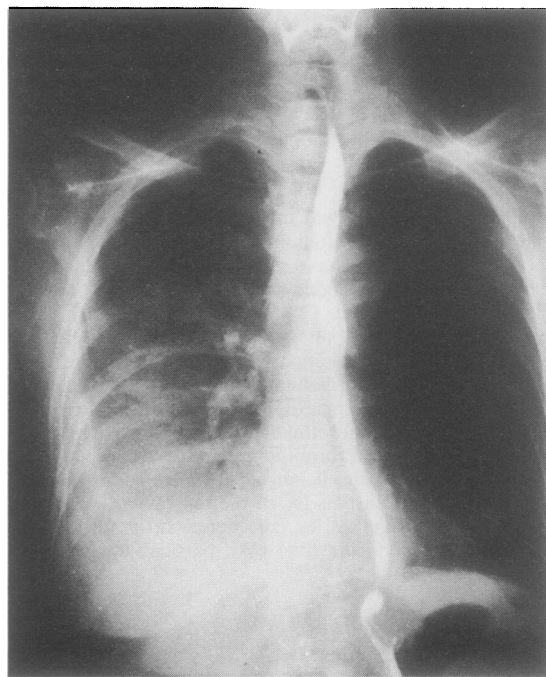


Fig 2 Chest radiograph and barium swallow showing a right haemothorax and displacement of the lower oesophagus to the left, with a normal mucosal profile.

spread haematoma over the whole length of the thoracic oesophagus. After resection of nearly all the muscular layer no damage to the mucous membrane was observed and oesophagectomy was not required.

The patient was discharged in good health, with a normal barium swallow, on the 13th day after admission. Five months later a repeat barium swallow and oesophagoscopy showed no alteration of the oesophageal lumen or abnormality of the mucosa.

Discussion

Intramural rupture and spontaneous intramural dissection of the oesophagus are probably more frequent than the published cases suggest. The onset of a severe or rapidly worsening retrosternal and epigastric pain associated with modest haematemesis and dysphagia has characterised almost all the observed cases and has led, after a barium swallow, to the diagnosis.¹⁻⁴

The interest of our case results not just from the presence of a spontaneous intramural dissection but also from the unusual presentation and pathological findings. The absence of dysphagia and haematemesis and the normal findings at oesophagoscopy and barium swallow led us to exclude an oesophageal lesion. The finding of an intramural haematoma of the oesophagus with extensive necrosis of the muscular layer was therefore unexpected. In the other reported cases there has always been a mucosal tear with submucosal dissection but without lesions of the muscular layer. Furthermore, only Borrie and Sheat⁵ have reported a case with pleural effusion and

no cases have been described with a normal barium swallow.

The aspirin ingestion may have caused the bleeding, as in a case observed by Smith *et al.*,⁶ but it is difficult to explain why the oesophagus should be the sole target organ and why there were no mucosal lesions in the oesophagus, stomach, or duodenum despite the gravity of the bleeding and the extent of the muscular necrosis.

As with other reported cases the treatment was conservative and this produced a satisfactory result, even though the oesophagus was almost totally deprived of its muscular layer.

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