A 71-year-old woman presented with a 1-week history of dyspnoea, right pleuritic chest pain and bilateral ankle oedema. There was no history of cough, fever or haemoptysis. Her body mass index was >30. Her jugular venous pressure was raised with reduced air entry over the right lung base. She was anaemic (haemoglobin 6.8 g/dl, mean corpuscular volume 67) with type II respiratory failure (pH 7.40, oxygen tension 9.30 kPa, carbon dioxide tension 9.32 kPa on 0.5 fraction of inspired oxygen). Chest radiography revealed a moderate right pleural effusion. A subsequent contrast-enhanced CT scan of the chest revealed a probable pulmonary arteriovenous malformation (PAVM) in the right lower lobe and a compressing organised haemothorax with significant mediastinal shift (fig 1A). Pulmonary angiography confirmed a massive PAVM with multiple large feeding arteries and other smaller PAVMs in the right lower lobe (fig 1B). Primary embolisation failed to secure haemostasis and subsequent urgent exploratory thoracotomy showed a PAVM involving predominantly the lower and middle lobes and gross active bleeding once the clot was evacuated. This was controlled by simple oversewing of the bleeding area. The patient then underwent serial PAVM embolisations to which she responded well (fig 2).

Spontaneous haemothorax is a rare complication of PAVM. To our knowledge, such massive haemothorax causing tamponading with mediastinal shift has not previously been reported. Surgical resection of PAVM is indicated in patients who have intrapleural rupture of PAVM. In our case, combined surgical management of the acute bleed followed by catheter embolisation of the PAVM led to a successful outcome.
Massive pulmonary arteriovenous malformation presenting with tamponading haemothorax

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Thorax 2007 62: 836
doi: 10.1136/thx.2006.071852

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