A 57-year-old man was admitted with acute chest pain and shortness of breath. He had cirrhosis secondary to hepatitis C infection and had undergone multiple thoracocentesis in the last months for recurrent pleural effusions. Chest X-ray showed increased density in the right lung base and chest CT showed a right pleural effusion, partial atelectasis of the right lower lobe, middle lobe bronchovascular structures twisted on themselves with a swirling appearance, obliteration of the proximal middle lobe artery, narrowing of the accompanying bronchus and ground-glass opacities in this same lobe (figure 1). Symptoms persisted over the next week and a repeat chest CT again showed the swirl appearance of the bronchovascular structures of the middle lobe, more extensive ground-glass opacities, areas of consolidation, interlobular septal thickening and increased middle lobe volume, probably as a result of venous congestion and infarction (figure 2). Open chest surgery confirmed middle lobe torsion, with signs of haemorrhagic infarction (figure 3). After detorsion, the lobe was non-viable, so resection was performed. Postoperative recovery was uneventful.
Pleural effusions, as seen in this patient, can be a complication of cirrhotic patients. Passage of ascitic fluid through diaphragmatic defects, as a result of negative intrathoracic pressure and positive intra-abdominal pressure, seems to be the main cause.

Lung torsion is a very rare entity (reported incidence: 0.09%–0.4%), which is typically described as an adverse event after lung resection.1–3 It occurs when a lobe (or the complete lung) rotates around hilar structures. The degree of rotation is usually 180°, although in some instances 90° or 360° torsion can occur.4 Bronchovascular pedicle rotation can result in airway obstruction, venous compromise, ischaemia, infarction and gangrene. The clinical presentation of lung torsion is usually acute, but the rarity of this condition commonly results in a significant delay in diagnosis. Felson describes some radiographic signs of pulmonary torsion: collapsed or consolidated lobe, hilar displacement and unusual pulmonary vasculature positioning, rapid opacification of a pulmonary lobe, an opacified lobe positional change on sequentially obtained radiographs, bronchial cut-off or distortion and lobar air trapping.7 CT findings include tapered obliteration of the proximal pulmonary artery and accompanying bronchus of the involved lobe and amorphous soft-tissue attenuation at the hilum. The torsed lobe can show poorly enhancing consolidation with increased volume, ground-glass attenuation, interlobular septal thickening and intralobular linear attenuation.

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REFERENCES