

Giant air-inflated hydatid cyst of the lung mimicking massive pneumothorax

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A 68-year-old Caucasian man was admitted to our emergency department with a 6-month history of progressive dyspnoea, tachycardia, chronic cough and purulent sputum production. The patient's medical history was notable for hepatic echinococcosis diagnosed in 2002.

Physical examination revealed no chest wall movement, a hyper-resonant sound on percussion, absent tactile fremitus and no audible breath sound in the right hemithorax. A slight tracheal deviation towards the left could also be felt on palpation in the middle of the anterior neck behind the jugular notch of the manubrium.

The heart rate was 120 bpm, blood pressure 100/65 mm Hg and SpO₂ 92% on room air.

A chest radiograph (figure 1) showed a massive right-sided hydropneumothorax that might have encouraged immediate chest drain insertion. However, there were no clinical features of tension pneumothorax, and the prolonged duration of the patient's symptoms and presentation alongside stable physiological observations suggested a chronic underlying cause.

The patient underwent a CT that revealed two hepatic localisations and a further giant air-filled hydatid cyst¹ of the right lower lobe (figure 2A, B) including a direct communication between the cyst and lateral basal subsegmental bronchi. The pulmonary cyst involved the complete right hemithorax, compressing the normal adjacent lung parenchyma.

The patient received albendazole therapy and subsequent surgical excision of the complete cyst² via right thoracotomy, preserving the right lower lobe and packing the operative field with sponges soaked in scolicalid agents. The atelectatic right lung was completely reinflated although post-operative recovery was complicated by a prolonged air leak managed conservatively with a chest drain left in-situ for several days.

In conclusion, we report an unusual case of giant air-inflated hydatid cyst of the lung mimicking a massive pneumothorax. The case emphasises the importance of careful history-taking and clinical assessment, using second-line investigations such as CT in atypical presentations and potentially complex cases. This approach can help avoid



Figure 1 Chest radiograph showing a right massive hydropneumothorax.

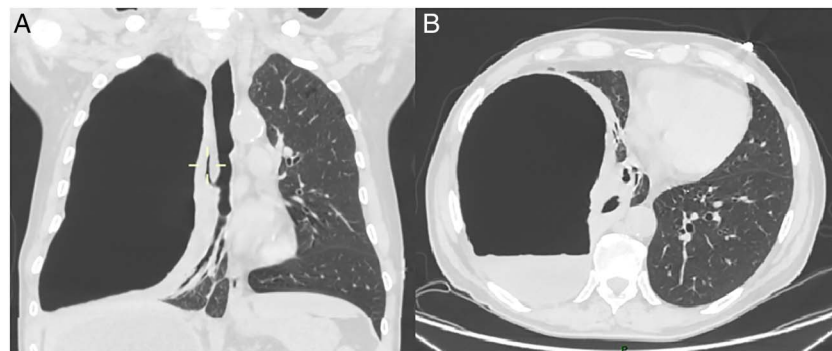


Figure 2 Coronal (A) and axial (B) CT scan of the chest showing a giant air-inflated hydatid cyst of the right lower lobe.



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inappropriate intervention that might otherwise complicate further treatment and recovery.

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- 2 Dogan R, Yüksel M, Cetin G, *et al*. Surgical treatment of hydatid cysts of the lung: report on 1055 patients. *Thorax* 1989;44:192–9.