## PHOTO QUIZ

## A pulmonary masquerade...

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## CASE REPORT

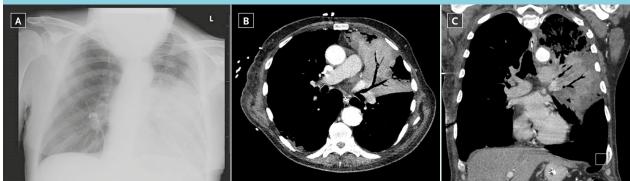
A 66-year-old male was admitted to the intensive care unit in respiratory distress. Medical history revealed type 2 diabetes mellitus, a small right-sided lacunary cerebral infarction and alcohol/nicotine abuse. Known prescribed medications were metformin, folic acid, clopidogrel, pravastatin, fosinopril, amlodipine, ranitidine and hydrochlorothiazide. Physical examination showed a very tachypnoeic patient using the accessory respiratory muscles, respiratory rate 40/minute, SatO, 85% with 15 litres/minute oxygen on a non-rebreather mask, blood pressure of 160/80 mmHg, heart rate of 100/minute and tympanic temperature of 37.3 °C. Blood gas analysis showed a metabolic compensated respiratory acidosis (pH 7.38, pCO<sub>2</sub> 7.0 kPa, HCO<sup>3-</sup> 30.6 mmol/l, base excess 4.4 mmol/l) and hypoxia (pO, 8.5 kPa, SatO, 90%). He was intubated and immediately mechanically ventilated. Laboratory results showed leucocytosis (35 x 109/l) and C-reactive protein of 39 mg/l. Chest X-ray (figure 1, panel A) showed extensive infiltration of the left upper lobe, suspicious for infectious pneumonia. We suspected a severe case of community-acquired pneumonia and started intravenous treatment with penicillin 6 million units a day and ciprofloxacin 400 mg three times a day.

In the next few days the patient did not improve. Urine testing on Legionella pneumophila and Streptococcus pneumoniae antigen was negative, as were blood/sputum cultures and PCR testing on bacterial and viral respiratory micro-organisms. CT scan (figure 1, panel B and C) showed dense consolidation with air bronchograms, suspicious for necrotising pneumonia. On day 3, a bronchoalveolar lavage (BAL) was performed, which showed no airway obstructions but large quantities of thin, bright, clear-white foamy sputum. Again, all cultures stayed negative. Eosinophilic pneumonia/pneumonitis was excluded by testing the BAL liquid on eosinophil count. His situation worsened and intermittent ventilation in a prone position was needed. Finally he was treated with high-dosed steroids for a 'cryptogenic organising pneumonia'. Again there was no improvement.

## WHAT IS YOUR DIAGNOSIS?

See page 222 for the answer to this photo quiz.

**Figure 1.** A. Chest X-ray: dense consolidation in the left upper lobe, with positive silhouette sign with the heart and normal appearance of the left hemi-diaphragm; B. CT scan of the chest with intravenous contrast, axial view: consolidation left upper lobe, with air bronchogram; C. Chest CT scan with intravenous contrast, coronal view: consolidation of left upper lobe, with air bronchogram



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