

bronchopulmonary anomalies were considered to be individual, distinct malformations, but nowadays more and more evidence is emerging to suggest that they share a similar etiopathological mechanism and overlapping clinical, radiological, and even histopathological features.^{1,2}

We report the case of a 43-year-old asymptomatic man with no significant clinical history. An incidental finding in a chest X-ray obtained before inguinal hernia surgery revealed a nodular lesion in the left upper lobe (LUL) and significant radiopacity in the left lung base (Fig. 1A). Chest computed tomography (CT) confirmed the existence of a cystic-type nodular lesion (no uptake of intravenous contrast medium) with well-defined margins in the LUL, showing characteristic fluid–fluid level. Supernatant fluid density was similar to water, while the sedimented fluid in the lower region of the nodular lesion had a calcific density (Fig. 1B). This typical sedimentation (supernatant with low attenuation and sediment with calcific density), called “milk of calcium”, is considered a pathognomonic radiological sign of intrapulmonary BC³ so we could confidently diagnose this entity. Moreover, a multicystic lesion suggestive of dysplasia/malformation, with no systemic vascularization and no apparent communication with the airway, was also observed in the basal segments of the left lower lobe. This lesion produced a mild mass effect on the adjacent lung parenchyma, shifting the mediastinum to the right side. Its radiological appearance was that of a type I CAM (Fig. 1C and D). Finally, in the lower posterior mediastinum, adjacent to the anterior esophageal wall, another single-cavity cystic lesion with well-defined margins was visualized. This lesion, which showed no uptake of intravenous contrast, had the appearance of an EDC (Fig. 1E). In the absence of thoracic symptoms, the patient decided to forego more aggressive diagnostic tests (except for an ultrasound-guided endoscopy for better characterization of the mediastinal lesion). He refused surgical intervention for the cystic lesions in the left lung.

Lung Volume Reduction Coil Treatment: Is There an Indication for Antibiotic Prophylaxis?*

Reducción de volumen pulmonar mediante espirales: ¿está indicada la profilaxis con antibióticos?

To the Editor,

In their article, Deslee et al. show that the use of metal coils for lung volume reduction (LVR) is feasible, safe, and effective.¹ They report that 5.2% of patients developed pneumonia within 30 days after treatment, even after patients with clinically significant recurrent respiratory infections were excluded.

The indications for LVR using coils have already been characterized,^{2–4} but the contraindications and risk factors for complications, such as post-operative pneumonia, still have to be determined. This is particularly important for patients with limited respiratory reserve, in whom infectious complications are potentially fatal.

We report the case of a 69-year-old woman with phase IV chronic obstructive pulmonary disease (FEV₁ 24% predicted and residual volume 244% predicted), severe dyspnea and 1–2 exacerbations/year. She underwent LVR surgery to the right upper lobe and received maximum intensity medical treatment, but subsequently relapsed with dyspnea and functional limitation, without

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pulmonary hypertension. Imaging studies showed predominantly apical heterogeneous emphysema. Repeat LVR surgery was ruled out in view of the high risk of complications. Three months before the coil intervention, she had been diagnosed with onset of an exacerbation caused by *Pseudomonas aeruginosa*. This was treated with meropenem, resulting in clinical improvement and a negative sputum culture.

Nine coils were placed in the left upper lobe with endoscopic LVR, with no immediate complications. There were no secretions, bronchial aspirate culture was sterile, and no antibiotic prophylaxis was administered. Two weeks later, the patient developed fever, cough, and worsening dyspnea. Clinical laboratory tests showed raised neutrophils and C-reactive protein levels, and chest X-ray revealed new alveolar infiltrations in the lower left lobe, so piperacillin and tazobactam were administered while waiting for sputum culture results. The patient suffered septic shock, requiring mechanical ventilation, and the alveolar infiltration was seen to have extended. Sputum cultures were positive for *P. aeruginosa* and *Aspergillus fumigatus*, so we decided to prescribe meropenem and voriconazole. The diagnosis was redefined as septic shock caused by *P. aeruginosa* pneumonia and probable semi-invasive pulmonary aspergillosis. Clinical progress was good and the patient was discharged from hospital after 2 months.

This case, like those reported by Deslee et al., illustrates that the use of coils for performing LVR may be associated with severe pneumonia. Specialists should be aware of this risk and evaluate the administration of prophylactic antibiotics, at least in the subgroup of patients who have had previous colonization or infections with pathogenic bacteria. The gradual increase in the use of coils for LVR may lead in the future to a better definition of the risk–benefit

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ratio of the intervention, providing a better understanding of the infectious complications.

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Conflict of interests

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Blindness and Deafness as Initial Manifestation of Non-small Cell Lung Cancer[☆]



Ceguera y sordera como manifestación inicial de un cáncer de pulmón no microcítico

To the Editor,

Meningeal carcinomatosis (MC) is an uncommon and devastating entity characterized by malignant infiltration of the leptomeninges and subarachnoid space. Although it is usually a later finding in patients with known disseminated disease, it can also be the initial manifestation.

We report the case of a 71-year-old woman, non-smoker, with *situs inversus totalis* who was admitted to a neurology department

due to a 2-month history of progressive visual and hearing loss. Physical examination showed bilateral amaurosis and hypoacusia. Brain computed tomography (CT) showed no intracranial lesions (Fig. 1A) and gadolinium-enhanced magnetic resonance imaging (MRI) of the brain showed no focal or diffuse leptomeningeal enhancement or tumoral lesions. A lumbar puncture was performed and pathological analysis of the cerebrospinal fluid (CSF) revealed adenocarcinoma cells with immunohistochemistry showing positivity for TTF-1 and cytokeratin 7, indicative of a pulmonary origin. A chest CT showed a 3 cm lobulated mass in the right lower lobe (RLL) (Fig. 1B). A percutaneous CT-guided core biopsy was conducted in an attempt to obtain additional tumor tissue to perform EGFR mutation sequencing. Histology showed pulmonary parenchyma occupied by neoplastic structures with

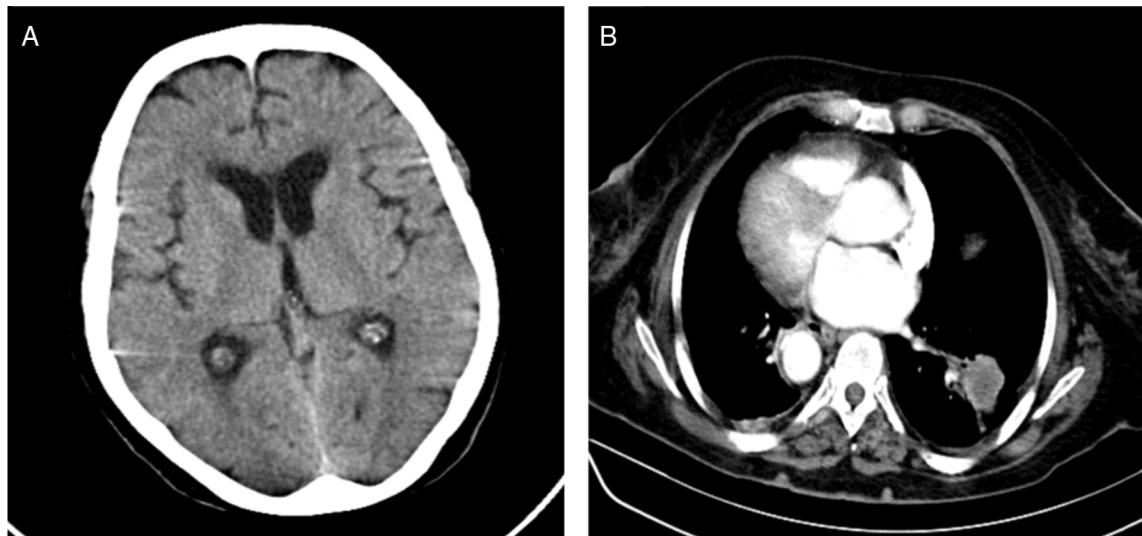


Fig. 1. (A) Brain CT with no intracranial lesions; (B) chest CT showing a 3 cm lobulated mass in the right lower lobe.

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