

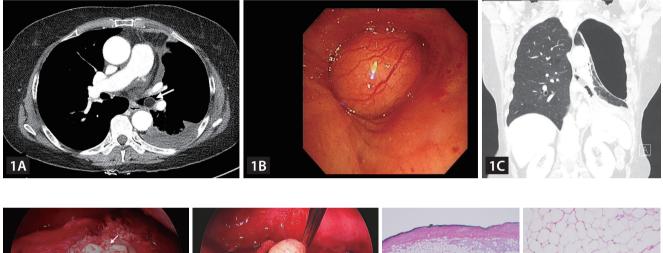
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An unusual cause of a bronchopleural fistula

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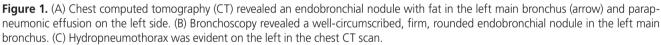


Figure 2. (A) Intraoperatively, an 1.0-cm-long bronchopleural fistula with pus discharge (arrow) was evident in the superior segment of the lower lobe. (B) A homogeneous and narrow-based yellowish mass was deeply embedded into the wall of the left main bronchus. (C) Adipose tissue was observed under the bronchial epithelium (Hematoxylin and Eosin [H&E], ×40). (D) Mature adipose tissue without any cellular atypia was noted (H&E, ×200).

A 70-year-old woman was admitted to the hospital with left pleuritic chest pain for 3 days. She complained of a cough, sputum, and chilling sensation but no dyspnea. She had no history of smoking or trauma. Pneumonia with a parapneumonic effusion and endobronchial nodule were evident on the chest computed tomography and flexible bronchoscopy (Fig. 1A, B). Despite receiving intravenous antibiotics and undergoing toilet bronchoscopy, the patient's fever persisted. A pneumothorax was also detected, which recurred despite a closed thoracostomy (Fig. 1C). To address the obstruction of the left main bronchus, which was causing prolonged obstructive pneumonia and barotrau-

ma, the patient underwent surgery. Thoracoscopically, the left lower lung was totally consolidated and purulent pus with a thickened pleura was noted (Fig. 2A). An endobronchial mass was removed through the bronchus (Fig. 2B). We performed a lobectomy of the left lower lung and the final histological diagnosis was endobronchial lipoma (Fig. 2C, D).

Endobronchial lipomas are extremely rare and benign (0.1–0.5% of all lung tumors). Bronchoscopic intervention can be effective in preserving the lung function. However, despite the lipoma being benign, our patient required a lobectomy due to post-obstructive pneumonia intractable to



medical treatment and irreversible lung damage. It is important to tailor the treatment according to the patient's clinical condition.

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Dongyoon Keum: visualization, writing - original draft, writing - review & editing; Mincheol Chae: writing - review & editing; Ilseon Hwang: formal analysis, visualization, writing - original draft; Hyun Jung Kim: conceptualization, funding acquisition, writing - original draft, writing - review & editing

Conflicts of interest

The authors disclose no conflicts.

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