Biliary Pneumonia due to the Presence of a Bronchobiliary Fistula

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Picture.

A 56-year-old woman who underwent living liver transplantation for primary biliary cirrhosis seven years previously presented with symptoms of repetitive cholangitis. She had been suffering from a wet cough for the past three months and had also been treated for bacterial pneumonia, which tended to easily flare up. When referred to our hospital, computed tomography showed consolidation with an air-bronchogram in the right lower lobe (Picture A). The presence of a fistula from the liver to the lung was suggested

(Picture B), but bile scintigraphy did not show any bronchial communication. Because bilious sputum was not apparently present, bronchoscopy was performed. The bronchoscopic lavage specimen was not bilious, but a transbronchial biopsy revealed bilious brown crystals surrounded by neutrophils (Picture C and D), leading to a diagnosis of biliary pneumonia due to bronchobiliary fistula. Bronchobiliary fistula is a rare disorder, and is clinically diagnosed based on the presence of bilious sputum (1). Although a bronchoscopic in-

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spection rarely demonstrates the presence of such a fistula (2), a bronchoscopic biopsy of pneumonic lesions may be diagnostic even when the sputum findings are not bilious.

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