Several factors intervened in our choice of a conservative approach: (a) control of bleeding due to the obliteration of the vessel by mediastinal hematoma; (b) the resolution of blood effusion in the pleural cavity after VAT; (c) previous myocardial revascularization (using the left internal mammary artery) with mediastinal fibrosis, making open BAA access difficult; (d) good hemodynamic status. In view of the patient's stable condition, we used VAT as a first-line approach. Moreover, sinus tachycardia and hyperventilation could be symptoms of a worsening general status, requiring an urgent non-targeted approach. Video-assisted thoracoscopy has proved to be ideal for emptying and closing the pleural cavity and allowed us to determine that the bleeding originated in the mediastinum (Fig. 1).

References

Keratinolytic Fungi in the Feather Stuffing of a Sofa: A Rare Cause of Hypersensitive Pneumonitis

Hongos queratinolíticos en el relleno de plumas de un sofá: una causa poco frecuente de neumonitis por hipersensibilidad

Clinical Case Report

We report the case of a 56-year-old man, former smoker, with a history of dyspnea, gastroesophageal reflux, and idiopathic pulmonary fibrosis, referred from another hospital for investigation of progressive interstitial disease. He had been employed as a firefighter and a farm worker. He had contact with chickens and also had a feather sofa. No significant family history was reported.

One year previously, he had presented with pleuritic central chest pain, fever, dry cough, and progressive dyspnea, initially thought to be idiopathic pulmonary disease. All possible sources of domestic exposure were ruled out, and the patient was treated with prednisone 30 mg/day for 3 months, and then with N-acetylcysteine 1800 mg/day, but continued to deteriorate clinically. On physical examination, crackles were heard on lung auscultation and nail clubbing was noted. Autoimmune markers were normal. The only significant finding was raised anti-Aspergillus fumigatus and anti-Penicillium spp. IgG antibodies. Lung function testing showed forced expiratory volume in 1 s (FEV1) of 62%, forced vital capacity (FVC) 62%, FEV1/FVC ratio of 76%, generally reduced lung volumes, and diffusing capacity for carbon monoxide of 54%. He had moderate hypoxemia and normocapnia. In the walk test, he achieved 600 m, with oxygen saturation falling to 87%. Computed tomography showed a pattern inconsistent with usual interstitial pneumonia (Fig. 1). Bronchoalveolar lavage was performed, revealing cellularity and predominant neutrophils. Cryobiopsy was also obtained from the right basal segment. Histology examination showed pulmonary parenchyma with predominantly reactive interstitial histiocyteosis suggestive of hypersensitive pneumonitis.

We suspected that some contact element was causing the clinical picture, so feathers from the sofa were cultivated and Aspergillus fumigatus was isolated. The case was diagnosed as chronic hypersensitive pneumonitis (HP), caused by exposure to this mold. Treatment began with prednisone 30 mg/day, and exposure to the antigen was eliminated. Clinical and functional improvement occurred within a few months.

Discussion

This is the first reported case of HP caused by exposure to the feather stuffing of a sofa colonized by Aspergillus fumigatus.

Differential diagnosis between advanced chronic HP and idiopathic pulmonary fibrosis is difficult and can only be achieved by intensive investigation of potential exposure to antigens.1,2 Some molds (Aspergillus, Acremonium, Alternaria, Beuvaria, Curvularia, Paecilomyces and Penicillium) synthesize keratinases, which degrade keratin in feathers.3 If the clinical picture is compatible, the presence of disease should be considered in patients with raised IgG antibodies to these antigens.4,5 In our case, anti-Aspergillus fumigatus IgG levels were very high, and as this mold was found in an element to which the patient was continually exposed, this anti-

Fig. 1. High-resolution computed tomography of the chest showing subpleural reticular opacities with traction bronchiectasis and subpleural honeycombing images, mainly in the lower lobes. No evaluable air trapping is seen in the sections on expiration. These images suggest a pattern consistent with usual interstitial pneumonia (according to the ATS/ERS/ERS/ALAT consensus criteria on the diagnosis and management of idiopathic pulmonary fibrosis, 2011).
gen was assumed to be the principal cause of HP and worsening symptoms.

In conclusion, diagnosis was possible in this case due to detection of the source antigen by culture of feathers from the patient’s sofa. This experience may be useful in patients with precipitin reactions positive for molds and suspected HP, for whom no other exposure is detected in their case history.

**Funding**

This study did not receive funding of any type.

**Conflict of Interests**

The authors state that they have no conflict of interests.

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Fernanda Hernandez-Gonzalez, Antoni Xaubet, Jacobo Sellarés*

Servicio de Neumología, Institut del Tórax, Hospital Clínic, Barcelona, Spain

*Corresponding author.

E-mail address: sellares@clinic.ub.es (J. Sellarés).

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**Shrinking Lung in Primary Sjögren Syndrome Successfully Treated With Rituximab**

*Síndrome del pulmón encogido en el síndrome de Sjögren primario tratado con éxito con rituximab*

To the Editor,

Shrinking lung syndrome (SLS) is a rare complication of Sjögren’s syndrome. We report the case of a woman diagnosed 5 years previously with primary Sjögren’s syndrome (pSS) who presented SLS. She received steroids, azathioprine and cyclophosphamide, with no response, yet showed remarkable clinical and functional improvement after starting treatment with rituximab.

A 47-year-old woman, with a 5-year diagnosis of pSS, was hospitalized for an 8-week history of left pleuritic pain, discomfort in both sides of the chest and dyspnea on medium effort. Initially, she had been given a presumed diagnosis of right lower lobe pneumonia, but did not respond to treatment. On examination, her breathing rate was 22 breaths/minute, and reduced breath sounds were detected in the right lung base. Chest X-ray showed loss of volume in the right hemithorax and computed tomography angiography revealed areas of atelectasis in the right basal segment, right hemidiaphragm elevation, minimal left pleural thickening, and no evidence of pulmonary embolism. Lung function tests showed a severe restrictive pattern. Fiberoptic bronchoscopy was performed and no changes were observed. Electromyography of the phrenic nerve showed signs of partial axonotmesis.

SLS was diagnosed and the dose of prednisone was increased to 45 mg/day. Inhaled salbutamol and theophylline were added, but dyspnea and lung function failed to improve after 3 months of treatment. In view of this lack of response, azathioprine and later cyclophosphamide were added, but no clinical or functional response was observed. We then decided to try i.v. administration of anti-CD20 monoclonal antibody (rituximab) 1 g repeated after 2 weeks. Clinical, radiological and functional improvement was achieved (Fig. 1), and the patient remained asymptomatic 2 years later.

![Graph showing lung function tests between May 2009 and June 2013. The arrow indicates start of treatment with rituximab. FEV1: forced expiratory volume in 1 second; FVC: forced vital capacity.](Image)

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Please cite this article as: Blanco Pérez JJ, Pérez González A, Guerra Vales JL, Melero Gonzalez R, Pego Reigosa JM. Síndrome del pulmón encogido en el síndrome de Sjögren primario tratado con éxito con rituximab. Arch Bronconeumol. 2015;51:475–476.