the responses of the diary could be compared. In any event, this study suggests that the use of the Spanish version of the ABSS symptoms diary is reliable in acute bronchitis.

References


Interstitial Pneumonitis With Bronchiolitis: Presentation of a Case and Review of the Literature

Intersticialis neumonitis con bronquiolitis: presentación de un caso y revisión de la literatura

Dear Editor:

We present the case of a 43-year-old male who is an ex-smoker. He presented progressive dyspnea and hypoxia, and chest radiograph showed bilateral diffuse interstitial alterations. Thoracic CT revealed worsened bilateral ground glass opacities, with no signs of focal consolidation or interstitial alterations (Fig. 1a). The patient was intubated and ventilated and a lung biopsy was taken. The biopsy demonstrated a combination of interstitial lymphocytic infiltrate with altered architecture in many areas, associated with elements of bronchiolitis obliterans that mainly affected the airways at the level of the alveolar ducts, but in a few areas it also affected the respiratory bronchioles. This combination is described as bronchiolitis interstitial pneumonitis (BIP) (Fig. 1b). The patient improved slowly, with no specific treatment. At the follow-up consultation six months later, there was evidence of a complete recuperation. A repeat thoracic CT showed complete resolution of the BIP.

The classification of interstitial pneumopathies is largely based on the patterns observed in open or transbronchial biopsy samples. In 2008, Mark et al. described a cohort of 31 patients who, upon anatomopathological examination, presented interstitial pneumonitis with bronchiolitis.1 100% of the cases reported in the only series published presented signs of bronchiolitis obliterans as well as interstitial fibrosis. It should be noted that the fibrosis was at a distance from the bronchiolar disease, which suggests that the fibrosis and the bronchiolar disease are not a direct consequence of one another. In all the cases, the interstitial fibrosis was observed at a greater rate than the lymphocytic interstitial inflammation.

Interstitial pneumonitis was defined as an interstitial infiltrate of lymphocytes and fibrosis.1 The inflammation and fibrosis were present in all the cases. Interstitial pneumonitis with bronchiolitis presented a response to corticosteroids that was inferior to that of bronchiolitis obliterans organizing pneumonia (BOOP), but superior to that of usual interstitial pneumonitis (UIP) and non-specific interstitial pneumonia/fibrosis (NSIP). Fibroblastic foci were observed in only 21% of the cases.1

Figure 1. (A) Diffuse interstitial infiltrate in both lungs, as observed on thoracic CT. (B) Interstitial inflammation and fibrosis under strong magnification in bronchiolitis interstitial pneumonitis.

Another important differential diagnosis that should also be taken into account in this case is respiratory bronchiolitis-associated interstitial lung disease (RB-ILD). RB-ILD is often observed in patients who are current or ex-smokers, although its appearance has also been described in non-smokers. Evidence has been obtained indicating an accumulation of macrophages with dark pigmentation in the respiratory bronchioles and in the surrounding airspace associated with a submucosal and peribronchiolar infiltration dotted with lymphocytes and histiocytes. Peribronchiolar fibrosis may also be observed. In this disorder, fibroblastic foci are not observed, which differentiates it from other idiopathic interstitial pneumonias.

This case poses the question of the utility of open lung biopsies being more frequently done and the need for a more sophisticated histologic analysis. The anatomopathological examination is less useful when obtained later on in the course of the disease or after treatment is initiated.

Our case is a contribution towards the limited amount of data published to date about this entity, which is reported very infrequently. It is the first reported case of spontaneous resolution of BIP. It is very important to be more aware of this entity, as many cases may not be diagnosed or may currently be misdiagnosed.

References


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Empyema due to Bordetella pertussis in an Adult Patient With Lung Cancer

Empiema por Bordetella pertussis en un paciente adulto con cáncer de pulmón

Dear Editor:

Bordetella pertussis (BP) is a small Gram-negative coccobacillus with an exclusive affinity for the mucous layers of the human respiratory tract. BP is an important cause of respiratory disease and it is a persistent public health problem. In 2010, a BP epidemic was detected in the city of Aydin, Turkey. Although pleural effusions or empyemas with BP infection are extremely rare, we present a case of non-small-cell lung carcinoma and unilateral pleural effusion with infection due to BP. A 64-year-old woman was hospitalized due to progressive dyspnea and thoracic pain. The patient had a history of non-small-cell lung cancer and she was receiving treatment. Previously, she had smoked 4–5 cigarettes per day for a period of some 10 years. Upon exploration, she showed signs of illness and emaciation, while presenting clinical anemia and signs of massive left pleural effusion on chest CT (Fig. 1). Heart rate was 85 bpm, blood pressure 120/85, with no signs of heart failure. Chest radiography confirmed left unilateral effusion. Hemoglobin was 9.1 g/100 ml.

Figure 1. Massive left pleural effusion on chest CT.