LETTERS TO THE EDITOR

Pulmonary Infection Due to Nocardia nova

To the editor: The genus Nocardia includes various species that have been implicated in human infection. N. asteroides is the species most frequently isolated in patients with infection by Nocardia. During a recent taxonomical review, 2 new species were added to this genus: N. farcinica and N. nova. Below we describe a case of pulmonary disease due to N. nova which contributes to the small body of literature on the role of this microorganism in pulmonary infections.

The patient was a 78-year-old man with a personal history of rheumatic polymyalgia undergoing treatment with 10 mg/day of oral corticosteroids for more than 9 months. He also met clinical criteria for chronic bronchitis, with grade II/IV dyspnea in stable condition. He came to our hospital complaining of dyspnea with minimal effort which had steadily increased over the 4 weeks prior to admission. He also showed signs of orthopnea and paroxysmal nighttime dyspnea. Up to 90 mg/day of oral prednisone was prescribed to treat the increase in dyspnea and the rheumatic polymyalgia. The patient reported having cough and purulent sputum as well as a fever around 38 ºC on the days prior to admission. On physical examination the patient was alert and oriented; his blood pressure was 160/90 mm Hg and temperature was 38 ºC. Dependent edema with pitting was noted along the full length of the lower extremities (including the groin). Basal crackles on both sides, best heard over the lower third of the right hemithorax, were detected on pulmonary auscultation. Respiratory rate was 24 breaths/min. Arterial blood gas analysis showed an arterial oxygen pressure of 35 mm Hg, an arterial carbon dioxide pressure of 30 mm Hg, a pH of 7.44, and oxygen saturation at 89%. A chest x-ray showed alveolar condensation in the right lower lobe, and multiple nodular images in both lower lobes, some containing ill-defined radiolucent areas. The patient was first isolated and described by Tsukamura in 1982. This group is mainly characterized by its sensitivity to ampicillin and erythromycin. N. nova has also been reported: one after cardiac transplantation. Eur Dis 1994;18:476. Another report describes a patient with lung cancer, and a third case, similar to the one presented here, of a 52-year-old Japanese woman previously treated with steroids and cyclophosphamide for polymyositis. The application of appropriate identification methods, among them techniques from molecular biology, increases the number of isolates of this identified microorganism.

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