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 of around 38 °C 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 °C. 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 55 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 initially treated with a third-generation cephalosporin and amikacin. The patient responded favorably. At discharge, edema persisted although it had gradually decreased in the last days of his stay. He was afebrile and chest x-rays revealed satisfactory improvement.

* N nova was first isolated and described by Tsukamura 
1 in 1982. This group is mainly characterized by its sensitivity to ampicillin and erythromycin. 4,5 N nova has been described as the cause of skin infection and sinusitis, as well as infection through catheters. Three cases of pneumonia caused by *N nova* have also been reported: one after a heart transplant coinfected with *Aspergillus fumigatus*, another in a patient with lung cancer, 7 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. 4 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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