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 which contributed to the small body of literature on the role of this microorganism in pulmonary infections.

The patient was first isolated and described by *N. nova* in 1982. This group is mainly characterized by its sensitivity to ampicillin and erythromycin. *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, 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.

**Figure.** Profile of bands obtained by polymerase chain reaction/restriction fragment length polymorphism of gene hsp65 using Msp1 and Hinfl restriction enzymes. Lane 1: molecular weight marker VIII (Roche); lane 2: restriction fragment using Hinf1 enzyme; lane 3: restriction fragment using Msp1 enzyme.

with trimethoprim-sulfamethoxazole was initiated, and the patient responded favorably. At discharge, edema persisted although it had gradually decreased in the last days of his stay. He was afibrile and chest x-rays revealed satisfactory improvement.

*N. nova* was first isolated and described by Tsukamura in 1982. This group is mainly characterized by its sensitivity to ampicillin and erythromycin. *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, 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.

**LETTERS TO THE EDITOR**