An 83-year-old man presented with a 2-week history of intermittent left-sided chest pain. His chest radiograph and electrocardiogram were unremarkable, and so upper gastrointestinal endoscopy was performed for screening purposes. The intubation and procedure were carried out without difficulty, although the patient gagged occasionally. There was no obvious evidence of a site of perforation. Shortly after endoscopy, the patient became distressed, complaining of diffuse cervical swelling and a severe sore throat.

Examination at that time revealed subcutaneous emphysema of the neck. He had a fever, dyspnea, and hypoxemia. His laboratory results revealed a white blood cell count of 18 000/mm³ and a C-reactive protein level of 22.5 mg/dl. A chest radiograph showed pneumomediastinum and subcutaneous emphysema. Cervical and thoracic computed tomographic scans revealed cervical necrotizing fasciitis and descending necrotizing mediastinitis (Figure 1).

Endotracheal intubation was performed and he was started on broad-spectrum antibiotics. A thoracostomy tube was inserted; and a percutaneous catheter was inserted, from the cervical space along the route of infection. Bacteriological investigation did not reveal any microorganism. He underwent a gastrointestinal radiographic contrast study, but no evidence of esophageal perforation was found. The patient was treated conservatively with antibiotic therapy and insertion of a drainage catheter. He improved gradually, and was discharged 60 days after the upper gastrointestinal endoscopy. In our case, the patient presented with severe sore throat shortly after endoscopy, so we considered that the air could initially have been forced through weak points in the oropharyngeal mucosa, the infection then spreading along the oropharyngeal space to reach the mediastinum. Descending necrotizing mediastinitis is an uncommon condition and is associated with a high mortality rate [5]. It is important that physicians should be alert to the fact that descending necrotizing mediastinitis can be a complication of routine upper gastrointestinal endoscopy.

References


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