Bronchoesophageal Fistula as a Complication of Cytomegalovirus Esophagitis in AIDS

Cytomegalovirus is the most frequent cause of esophageal ulceration in patients with the acquired immunodeficiency syndrome (AIDS), responsible for almost half of the cases (1). Although cytomegalovirus esophagitis may be complicated by bleeding and stricture (1,2), tracheoesophageal fistula caused by cytomegalovirus has been rarely described, and usually occurs in the setting of other pathogens (3).

A 30-year-old woman with AIDS presented with a six-week history of worsening odynophagia and dysphagia to both solids and liquids, associated with cough, fever, and dyspnea. The evaluation revealed a right middle lobe pneumonia, and upper endoscopy demonstrated severe ulcerative esophagitis extending from 24 cm to 32 cm from the incisors, with biopsies demonstrating cytomegalovirus (Figure 1). A barium esophagram revealed a small bronchoesophageal fistula extending from the mid-esophagus to the right main stem bronchus. Ganciclovir therapy was ineffective, and surgery was performed. Despite maintenance ganciclovir, however, she presented with right-sided chest pain five months later. Endoscopy revealed a deep ulcer with a large fistula (Figure 2), and multiple biopsies of the ulcer demonstrated diagnostic features of cytomegalovirus without other pathogens.

In patients with AIDS, tracheoesophageal fistulas are most commonly due to Mycobacterium tuberculosis (4,5). The endoscopic features of a tracheoesophageal fistula caused by cytomegalovirus have not been previously reported. The present patient documents the fact that cytomegalovirus esophagitis alone may cause tracheoesophageal fistula. Despite both surgical therapy and maintenance ganciclovir, relapse of cytomegalovirus esophagitis and fistula recurred at the initial site of infection.

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References


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