Herpes and cytomegalovirus esophagitis

A 46-year-old man who underwent a liver transplant in 2001 for fulminant hepatitis of unknown etiology was diagnosed with a liver non-Hodgkin lymphoma (post-transplant lymphoproliferative disease) in 2011. Some months later, he developed an acute hepatocellular rejection that was treated with high doses of steroids.

The patient was admitted because of fever and severe odynophagia that was hindering oral intake. He had multiple painful ulcers on his tongue, palate, and oral mucosa. Upper gastrointestinal endoscopy revealed large superficial, circumferential ulcers with well-defined margins and yellow exudate in the mid and upper esophagus (Fig. 1). Biopsies taken from the ulcer base and borders confirmed herpes simplex virus (HSV) and cytomegalovirus (CMV) co-infection (Fig. 2). Polymerase chain reaction (PCR) of the esophageal mucosa for HSV and CMV DNA was positive. Human immunodeficiency virus (HIV) serology was negative. The patient's condition rapidly deteriorated and he died from sepsis and liver failure.

Patients with HIV infection, those on chemotherapeutic agents or steroids, and transplant recipients have a high frequency of esophageal infections, although cases of multiple viral infections are very rare [1]. Long-term high-dose corticosteroids may predispose to HSV and CMV infection, although they are much less commonly diagnosed than Candida infections [2].

Esophageal ulcers due to CMV are typically large, shallow, solitary or multiple, and located in the mid or distal esophagus [3]. In HSV esophagitis, the morphology depends on the duration of infection [2] and includes nonspecific inflammation, discrete ulcers, coalescent ulcers, and pseudomembranous esophagitis in the mid or lower esophagus. Ulcers due to HSV are typically associated with a yellowish exudate [4]. Three or more biopsies are generally required to rule out viral esophagitis [5]. Co-infection with HSV and CMV has a higher incidence of complications, namely perforation and bleeding [1].

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