A rare presentation of esophageal actinomycosis in an immunocompetent patient

A 56-year-old man was referred to our hospital with a 2-month history of odynophagia, heartburn, and dysphagia. His physical examination was normal. Laboratory investigations showed a normal complete blood count, normal biochemistry panel, and negative serology for human immunodeficiency virus (HIV). A barium esophagogram revealed a hiatal hernia with a filling defect and irregular mucosal areas in the mid-distal esophagus (Fig. 1 a). A computed tomography (CT) scan confirmed the hiatal hernia, mucosal irregularity, and thickening of the esophagus (Fig. 1 b).

An upper gastrointestinal endoscopy showed white plaques predominantly in the mid esophagus, multiple 1–2-cm shallow ulcers and a 3 × 2-cm, irregular, malignant-appearing ulcer in the distal esophagus, and the hiatal hernia (Fig. 2).

Histological examination of biopsies taken from the esophagus revealed discrete sulfur granules consistent with infection by Actinomyces species. No dysplasia, malignancy, fungi, or viral inclusions were present (Fig. 3).

Intravenous penicillin G (24000U per 24 hours) was administered for 2 weeks. Following this, amoxicillin clavulanate was administered twice daily for 6 weeks. The patient improved clinically following medical treatment. At 10 weeks, a repeat upper gastrointestinal endoscopy showed marked healing of the shallow ulcers, reduced size of the malignant-appearing ulcer, and improvement in the surrounding inflammation.

Actinomycosis is a rare, chronic, supplicative disease caused by Actinomyces spp. that are present in the normal flora of the oral cavity and gastrointestinal tract. It is characterized by the formation of sulfur granules. Esophageal involvement is an extremely rare presentation of Actinomyces spp. particularly in immunocompetent subjects [1, 2]. Currently, the exact mechanism of esophageal actinomycosis is not known. We suggest that the dysmotility of the esophagus in patients with hiatal hernia may be a possible mechanism for co-occurrence of actinomycosis.

Long-term, high-dose antibiotic therapy is required for a successful outcome. Penicillin is the drug of choice. Ampicillin, amoxicillin, tetracycline, macrolides, clindamycin, chloramphenicol, and cephalosporins have also been reported to be effective [3, 4].
Competing interests: None

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DOI http://dx.doi.org/10.1055/s-0033-1344067
Endoscopy 2013; 45: E181–E182
© Georg Thieme Verlag KG Stuttgart · New York
ISSN 0013-726X

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