An African American man with dysphagia: a unique initial presentation of sarcoidosis

A 46-year-old African American man whose past medical history was only notable for hypertension was referred to the gastrointestinal clinic with a 1-year history of dysphagia. The dysphagia related only to solid foods and had been progressively worsening over the preceding few months. The patient described the sensation of food getting stuck at the level of the mid to lower chest. He denied any odynophagia or difficulty with swallowing liquids. He denied any chronic heartburn symptoms, regurgitation, hematemesis, or weight loss. Physical examination was unremarkable. Laboratory studies including complete blood count, basic metabolic panel, and liver function tests were within normal limits. A barium swallow was performed and revealed a mid-esophageal stricture with obstruction of approximately 50% of the lumen.

In light of the biopsy results, a computed tomography (CT) scan of the chest was obtained. In addition to thickening of the mid esophagus, CT demonstrated significant mediastinal and right hilar lymphadenopathy. Endoscopic ultrasound (EUS) was employed to further evaluate the esophagus and to obtain a biopsy of the mediastinal lymphadenopathy. On EUS the esophageal lesion was visualized as thickened mucosal and submucosal layers. At 32 cm from the incisors, the esophageal lesion was almost circumferential and causing narrowing. The mucosa at 32 cm was measured as 6.7 mm. Several enlarged lymph nodes were seen in the mediastinum at the level of 32, 25, and 21 cm from the incisors. Fine-needle aspiration (FNA) without suction of the lymph node at 32 cm was performed with a 22-gauge needle, and cell block preparation revealed cellular changes consistent with granulomatous inflammation.

The diagnosis of sarcoidosis requires a compatible clinical picture, histology of noncaseating granulomas, and exclusion of other granulomatous diseases. EUS-guided FNA has been shown to be a safe and sensitive method to detect granulomas in the lymph nodes of patients suspected of sarcoidosis. In the light of this patient’s CT scan findings and evidence of granulomas in the mediastinal lymph nodes and the esophagus, a diagnosis of mediastinal sarcoidosis with esophageal involvement was made.
Esophageal involvement in sarcoidosis is rare. Dysphagia is the most common presentation and can be attributed to dysmotility from neuropathy or myopathy. It may also be due to mechanical obstruction from infiltration of the esophageal wall or extrinsic compression from subcarinal lymphadenopathy. As in our case, granulomatous infiltration of the esophageal wall can produce a thickened, distorted, and narrow esophagus. Infiltration of the wall, producing aphthous lesions, plaque-like protrusions, and esophageal strictures has also been reported in the literature [2].

Given the low frequency of sarcoidosis affecting the esophagus, there are no trials comparing various treatment modalities. The role of steroids in the treatment of gastrointestinal sarcoidosis is unclear, although case reports indicate a potential benefit. Esophageal inflammation and gastric ulceration related to infiltration from sarcoidosis have been shown to respond to antisecretory therapy [2, 3].

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