Iatrogenic infection of a colonic cystic lymphangioma following cold-forceps biopsy

An incidental 4-cm, cecal, subepithelial compression with a smooth mucosa was found during colonoscopy in a 63-year-old man (Fig. 1). A computed tomography (CT) scan demonstrated a 4.4 × 2.7-cm, cystic cecal mass (Fig. 2). A 12-MHz, through-the-scope, endoscopic ultrasound (EUS) miniprobe demonstrated an anechoic, multiseptated, submucosal cecal cyst with intact muscularis propria (Fig. 3), consistent with a colonic cystic lymphangioma (CCL). To document the benign overlying mucosa, a standard, cold-forceps pinch biopsy (Boston Scientific Corp., Natick, Massachusetts, USA) was performed, which resulted in drainage of a small amount of whitish fluid.

Sixteen hours later, the patient developed abdominal pain, chills and a low grade fever (100°F). A repeat CT scan demonstrated an increase in the size of the cecal cyst with air pockets and pericecal stranding suggestive of infection (Fig. 4). Intravenous broad-spectrum antibiotics were given for the first 24 hours, followed by oral antibiotics, which were continued for a total of 14 days. The biopsy subsequently revealed colonic mucosa with markedly dilated lymphatic channels confirming CCL (Fig. 5). Successive patient follow-up ensured the clinical resolution of all symptoms.

Lymphangiomas are rare benign lymphatic tissue malformations. Endoscopically, CCLs appear as a subepithelial compression. Demonstration of an anechoic, multiseptated, submucosal cyst by EUS is conceivably sufficient for diagnosis [1, 2]. Because CCLs are benign, asymptomatic patients can be managed conservatively by observation [1]. Definitive therapy includes segmental or radical resection for larger lymphangiomas (>2.5 cm) [3, 4]. To our knowledge, there are no published cases of iatrogenic infection of CCLs. In this case, a forceps biopsy was obtained primarily for histological confirmation of the normal overlying mucosa. The resultant unanticipated infection of the CCL indicates the risks involved with such interventions.

In conclusion, EUS is essential for the non-invasive diagnosis of CCLs. An endoscopic biopsy of the overlying normal-appearing
mucosa may lead to an infectious complication. Forceps biopsy may not be necessary if the EUS image is typical for a benign CCL. If it is deemed clinically necessary to perform such a biopsy, we would suggest, based on our experience, the use of prophylactic antibiotics to prevent an infectious complication.

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Competing interests: None

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