Endoscopic ultrasound of pneumatosis cystoides intestinalis

An asymptomatic 65-year-old man with an unremarkable medical history underwent colonoscopy for colon cancer screening. This showed multiple bumps in the bowel wall of variable size (2–25 mm) protruding into the lumen. These appeared to be interconnected and covered with normal-looking mucosa, with no areas of sparing in the sigmoid and proximal rectum (Fig. 1). No other lesions of the mucosa were observed. The patient’s physical examination was normal and the results of routine laboratory analysis showed no abnormalities.

To clarify the diagnosis, endoscopic ultrasound (EUS) was performed with a 12-MHz miniprobe that was advanced through the working channel of the colonoscope. This showed multiple hyperchoic air pockets (very echogenic with shadowing) in the submucosal layer, establishing the diagnosis of pneumatosis cystoides intestinalis (PCI) (Fig. 2). No further evaluation or management was needed.

PCI is a rare condition defined as the presence of air-filled cysts in the bowel wall. It occurs in two forms: primary, which is benign and usually asymptomatic, with normal mucosa; and secondary, which is generally due to chronic pulmonary disease or bowel ischemia.

There have been few reports of the use of EUS in the evaluation of bumps in the colon that are suggestive of PCI [1–4]. Colonoscopy and EUS performed with a miniprobe allow for the detailed characterization of bumps in the colonic wall and the diagnosis of PCI in a single procedure with no additional risks. Therefore, it is possible to establish a diagnosis and other diagnostic tests, such as computed tomography (CT) scanning, do not need to be performed. This approach can also avoid the inadvertent and dangerous endoscopic resection of such lesions.

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Bibliography
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