Because the cyst wall originated from the submucosal layer in the Endoscopic Ultrasound (EUS) study, the diagnosis of duplication cyst was considered preoperatively. Duplication cysts are rare congenital anomalies that arise during early embryonic development. They are most frequently found in the proximal small intestine, although they can also be found in the esophagus, stomach, and colon. The cysts are usually incidentally discovered through radiologic studies or at endoscopy, since they are mostly asymptomatic. Dysphagia, abdominal pain, bleeding, and pancreatitis (when located near the ampulla of Vater) have been reported.\(^1\) Reports of malignant transformation (adenocarcinoma and squamous cell carcinoma), bleeding, and infection in cysts exist.\(^2\)\(^-\)\(^6\) Duplication cysts appear as a submucosal mass lesion with normal overlying mucosa or as a diverticulum that can vary in size from several millimeters up to 5 cm at endoscopy. They are most commonly diagnosed by CT scan or MRI since they are infrequently seen endoluminally. Endosonography usually shows anechoic homogeneous lesions with regular margins arising from the submucosa (the third layer) or extrinsic to the gastrointestinal wall. The diagnosis can usually be made through the characteristic endoscopic and endosonographic features. Endoscopic ultrasound-guided fine-needle aspiration (EUS-guided FNA) has been used to establish the diagnosis of an esophageal cyst\(^7\) although this is not necessary and has the risk of causing infection.\(^8\)

Although most duplication cysts in adults are incidentally found on imaging studies or during endoscopy and can be managed expectantly, this large symptomatic cyst was removed completely in an open surgery with no postoperative complications. Although the progressive symptoms in the adult patient raised the possibility of complications, the excised cyst was lined with a ciliated pseudostratified columnar epithelium with scattered mucus-secreting cells without any signs of dysplasia and it merely contained mucoid fluid.

References


