A 25-year-old man presented with post-prandial vomiting and abdominal pain. He had no significant past medical history and had a normal physical examination. Duodenoscopy and endoscopic ultrasound (EUS) revealed an obstructing, intra-luminal, cystic mass in the third part of the duodenum (D3) (Fig. 1). It occupied the entire duodenal lumen, correlating with computed tomography images (Fig. 2). EUS and magnetic resonance imaging suggested a benign cyst (Fig. 3).

The surgical approach involved an upper midline laparotomy with wedge excision of the duodenal wall incorporating the cyst, followed by primary closure of the duodenum. Histological examination demonstrated the duodenal wall with a subjacent cyst containing blood and lined by histiocytes. Bile was noted within the wall and no epithelial lining was identified. The radiological and histological features were in keeping with a duodenal duplication cyst.

Duodenal duplication cyst is a rare benign congenital anomaly acquired during embryonic development of the digestive system [1], with a prevalence of less than 1 per 100,000 live births [2]. Features include the presence of an intimate attachment to the native gastrointestinal tract, a smooth muscle coat, and an alimentary mucosal lining. Classically, they are located in the second or third part of the duodenum and share a common wall, communicating with the duodenal lumen in 25% of cases [3]. Presentation is usually in infancy or childhood [4], typically with nausea and vomiting, and pancreatitis is the most common complication [2]. Presentation in adulthood is rare. It should be noted that there are reports of malignant transformation in the literature [5]. Treatment is either endoscopic or surgical and should be considered in all patients [2]. Intraluminal cysts may be treated endoscopically, but those that cannot be approached endoscopically will require an open procedure with total cyst excision or marsupialization [2].

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References

Bibliography
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