A 34-year-old man presented with a 3-month history of recurrent episodes of vomiting, anorexia, and weight loss of 16 kg. There was no history of ingestion of nonsteroidal anti-inflammatory drugs and clinical examination was unremarkable. Laboratory investigations revealed hemoglobin of 9.6 g/dL (normal range: 12–18 g/dL) with an erythrocyte sedimentation rate (ESR) of 46 mm/h. Upper gastrointestinal endoscopy revealed an impassable stricture with mucosal ulceration at the junction of the first and second parts of duodenum. An antral biopsy showed *Helicobacter pylori*, so the patient was started on a proton pump inhibitor (PPI) with antibiotics to eradicate *H. pylori*. There was no improvement in his symptoms, and repeat endoscopy was performed 4 weeks later, which revealed similar features (Fig. 1).

Multiple-site gastric biopsies on this occasion were negative for *H. pylori* and biopsy from the stricture site revealed features of nonspecific chronic inflammation. An endoscopic ultrasound (EUS) was performed, which revealed a markedly thickened duodenal wall with loss of the layered pattern and enlargement of the surrounding lymph nodes (Fig. 2).

Multiple lymph nodes were also noted at the porta hepatitis, celiac axis, and subcarina. EUS-guided fine-needle aspiration (FNA) was performed from the subcarinal and periduodenal lymph nodes (Fig. 3), and yielded caseous material. The cytological examination revealed extensive caseating necrosis (Fig. 4) and acid-fast bacilli were present (Fig. 5).

The patient was started on four-drug antitubercular therapy, which produced an improvement in his symptoms.

Duodenal tuberculosis accounts for 1%–3% of cases of gastrointestinal tuberculosis [1,2]. Tuberculosis is a rare cause of gastric outlet obstruction (GOO), even in developing countries. In one study from India involving 74 patients with GOO, tuberculosis was the cause in only two patients (2.7%) [3]. The rarity of duodenal involvement is presumed to be due to the rapid transit time through the duodenum and the complete lack of lymphoid tissue [4]. Tuberculosis may primarily affect the duodenum by an intrinsic process or by extrinsic compression from lymph nodes. A variety of other duodenal abnormalities, including strictures, ulcers, polypoidal masses, perforations, and fistulas, have been reported in the literature [1,2,4]. Nonresponse to PPIs should be an important trigger to consider causes of GOO other than peptic ulcer disease, and in the evaluation of such diagnostic dilemmas, EUS, with or without FNA, may be an important investigation.
Competing interests: None

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