A 76-year-old Caucasian man presented to our institution with progressive fatigue and weight loss. He had undergone esophagogastroduodenoscopy 1 year previously, which suggested a large duodenal ulcer [1,2].

Laboratory data showed abnormal liver function tests consistent with obstructive jaundice. Magnetic resonance cholangiopancreatography (MRCP) showed dilatation of the main pancreatic duct (MPD) and biliary tree, and a multilobular cystic lesion adhering to the duodenal wall (Fig. 1).

Esophagogastroduodenoscopy revealed a large crater (3 cm wide) in the posterior wall of the duodenal bulb, giving a massive mucinous discharge (Video 1).

Biopsies were taken from the edges of the lesion, and histological findings showed tubulovillous adenoma with high-grade dysplasia (Fig. 3).

Subsequent endoscopic ultrasound (EUS) showed a marked diffuse dilatation of the MPD, which contained echogenic material compatible with mucus, and intraductal papillary vegetations. At the level of the isthmus there was a wide communication between the MPD and a large solid and cystic lesion adhering to the duodenal wall (Fig. 4).

Endoscopic ultrasound (EUS) showed a fistula (arrow) between the cystic cavity and duodenum.

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cystic lesion (8 × 6 cm) adhering to the duodenal wall (Fig. 4).

A disruption of the parietal layers of the bulb was also demonstrated, consistent with a fistula between the lesion and the bulb (corresponding to the endoscopic finding) (Fig. 5, Video 2).

These findings were suggestive of a main-duct malignant intraductal papillary mucinous neoplasm (IPMN) with mixed solid and cystic degeneration (typical of the disease), fistulizing into the duodenum. Because of several co-morbidities, the patient was not a candidate for surgery and was referred for palliative care.

Fewer than 100 cases have been reported of IPMN forming fistulas in surrounding organs [1]. The proposed pathogenesis comprises mechanical compression from the cystic mass and/or direct neoplastic infiltration. The majority of these cases have been documented with computed tomography or MRCP, while EUS has rarely been described [2]. In our case, EUS was a useful adjunct in the diagnostic work-up allowing direct visualization of the fistula tract and clarifying the nature of the pancreatic disease.

Competing interests: None

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Video 2

Endoscopic ultrasound (EUS) showing the main pancreatic duct interruption that communicates with a massive solid and cystic lesion adhering to the duodenal wall, and fistula between the cystic cavity and duodenum.