Endoscopic ultrasound-guided gastroenterostomy for the treatment of gastro-duodenal obstruction in severe chronic pancreatitis

Endoscopic ultrasound (EUS)-guided gastroenterostomy is a newly described endoscopic technique that can be used to palliate the symptoms of gastroduodenal obstruction due to benign or malignant conditions. Multidisciplinary care, incorporating oncologists, surgeons, radiologists, and gastroenterologists, is strongly encouraged to ensure proper patient selection given the potential for severe adverse events, such as perforation and peritonitis.

We report the case of a 63-year-old man with a history of heavy smoking, alcohol abuse, and severe chronic calcific pancreatitis who had been admitted several times over the preceding 2 years because of nausea, vomiting, abdominal pain, and weight loss. During this admission, his nasogastric tube output was more than 5L per day. Abdominal imaging showed a calcified pancreas, with marked dilatation of the stomach and the first portion of the duodenum (Fig. 1). Multiple endoscopic dilations of the duodenum had been performed without clinical success in the past and he was deemed not to be a candidate for surgery. An EUS-guided gastroenterostomy was therefore performed as shown in Video 1 and Fig. 2 and Fig. 3.

Surgery offers better long-term outcomes; however, it is associated with higher rates of morbidity and mortality when compared to endoscopic stenting. Endoscopic stenting is safe and effective for symptom palliation and, when compared to surgery, it has lower complication rates and patients have shorter hospital stays. However, owing to the uncovered enteral stent design, it may not provide a long-term solution in benign conditions where re-intervention rates may be high because of stent occlusion [1].

The idea of creating a luminal anastomosis between the stomach and small bowel using EUS and dedicated devices was
initially developed in animals [2, 3], where it has shown successful outcomes and no adverse events. This is a novel technique with promising published data evaluating its efficacy and safety, although these are limited to a few small human studies [4–6].

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Competing interests

Uzma D. Siddiqui is a consultant for Boston Scientific and Olympus.

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