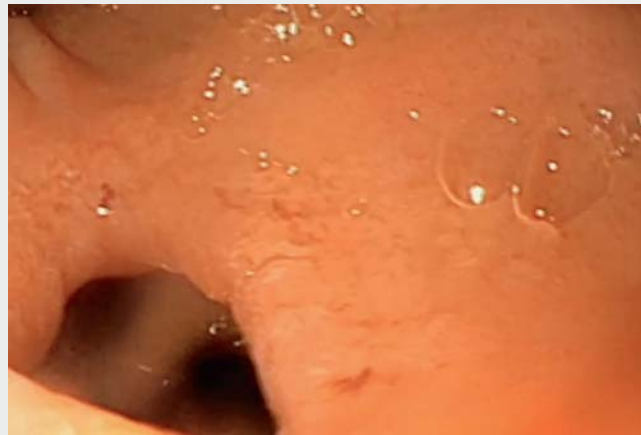


Lumen-apposing metal stent placement after endoscopic ultrasound-guided duodenojejunal anastomosis for direct access to excluded jejunal limb: findings after 5 years



► **Fig. 1** X-ray showing that the lumen-apposing metal stent was no longer in place.



► **Video 1** Upper endoscopy showing large duodenojejunal anastomosis 5 years after endoscopic ultrasound-guided placement of a lumen-apposing metal stent. The scope could pass through easily and visualize the hepaticojejunal anastomosis.

Since their introduction, lumen-apposing metal stents (LAMSs) have been used successfully for symptomatic intra-abdominal collections [1] and biliary system (gallbladder, common bile duct) drainage [2]. More recently, they have also been used for gastrointestinal anastomosis [3]. We previously reported on a case series of 11 consecutive patients who underwent endoscopic ultrasound-guided duodeno- and jejunojunal anastomosis with LAMS to obtain direct access to the excluded jejunal limb in patients with hepatico-jejunal stricture [3]. During an average follow-up of 781 days (SD 253.1 days) after duodenojejunal anastomosis, LAMSs were still in place with no evidence of adverse events. The aim of leaving the LAMS in place was to keep patient access to the hepatico-jejunostomy even after resolution of the stricture given its high recurrence rate. Here we report on two patients 5 years after LAMS placement, at which time a standard follow-up video endoscopy was performed as per protocol.

In both patients, although the LAMS was not found in place (► **Fig. 1**, ► **Video 1**), a patent duodenojejunal anastomosis, fully epithelialized, was present. It was possible for both forward-viewing and side-viewing scopes to pass through without any difficulties, allowing access to the hepaticojejunal anastomosis. These findings confirmed our expectation that keeping the LAMS in place is safe and permits durable permanent access to the excluded limb, even after LAMS migration. The most likely underlying mechanism is the permanent lateral expansion and shortening force of LAMS on the apposing gut wall, inducing chronic ischemia without trauma, which contributes to the creation of a permanent anastomosis with consequent migration of the LAMS itself. In conclusion, endoscopic ultrasound-guided duodenojejunal anastomosis through LAMS can create a permanent communication between the two segments, without leak or stenosis, despite

stent migration, resulting in a permanent large anastomosis at 5 years' follow-up.

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Competing interests

The authors declare that they have no conflict of interest.

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