Afferent loop syndrome is a complication that infrequently occurs after pancreato-coduodenectomy [1]. Complete obstruction occurs which leads to cholangitis, pancreatitis, perforation, and necrosis. In particular, patients with cancer recurrence cannot continue chemotherapy treatment, become debilitated, and may eventually die. Therefore, early and appropriate decompression treatment is needed.

This report describes endoscopic ultrasound (EUS)-guided gastrojejunostomy for treatment of afferent loop syndrome, using a lumen-apposing metal stent (LAMS) incorporated into an electrocautery-enhanced delivery system.

A 44-year-old man was admitted to our hospital with vomiting and abdominal pain; he had undergone pancreatoduodenostomy for pancreatic head cancer 11 months earlier. Computed tomography (CT) revealed dilation of the afferent loop associated with a recurrence of cancer (▶Fig.1). First, multiple plastic stents were inserted by balloon-assisted enteroscopy (▶Fig.2) and his clinical condition improved. However, 1 month later he was admitted again with abdominal pain because of stent occlusion. CT revealed dilation of the afferent loop and intrahepatic bile duct (▶Fig.3). We performed EUS-guided gastrojejunostomy with a LAMS incorporated into an electrocautery-enhanced delivery system (Hot AXIOS; Boston Scientific, Natick, Massachusetts, USA) (▶Fig.4, ▶Video 1). CT on the following day showed improvement in the dilation of the afferent loop (▶Fig.5). The patient showed resolution of clinical symptoms and received outpatient chemotherapy.

A previous report has demonstrated the usefulness of LAMS for transenteric drainage of pancreatic pseudocysts and the gallbladder [2]. Recently, EUS-guided transgastric access into the afferent limb with LAMS has been reported [3, 4]. The use of the Hot AXIOS system has some advantages compared with conventional LAMS, namely, avoidance of the need to exchange devices for stent placement, shortening of procedure time, prevention of leakage in the abdominal cavity, and prevention of separation of the digestive wall and afferent loop tract wall during the procedure.

Therefore, EUS-guided drainage with LAMS is a safe, easy-to-perform, and highly effective minimally invasive treatment modality for afferent loop syndrome.
Fig. 2  Multiple plastic stents were inserted by balloon-assisted enteroscopy.

Fig. 3  CT revealed dilation of the afferent loop and intrahepatic bile duct.

Fig. 4  Endoscopic ultrasound (EUS)-guided gastrojejunostomy was performed.

Fig. 5  CT on postoperative day 1 showed improvement in the dilation of the afferent loop.

Competing interests

None

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