Resection of gallbladder polyps following endoscopic ultrasound-guided cholecystoduodenostomy using a lumen-apposing metal stent

A 52-year-old woman with gallbladder polyps had a strong wish to keep her gallbladder. Abdominal ultrasound showed the contractile function of her gallbladder was good. Imaging including endoscopic ultrasound (EUS), computed tomography (CT), and abdominal ultrasound indicated that these polyps were benign lesions. Therefore, an EUS-guided gallbladder polyp resection was performed, instead of cholecystectomy (▶Video 1).

Firstly, the gallbladder was scanned by EUS at the duodenal bulb, which showed a hyperechoic lesion (▶Fig. 1). A 19-gauge needle was used to puncture the body of the gallbladder and this was followed by injection of contrast medium through the needle. A 0.035-inch guide-wire was then advanced through the needle to allow insertion of an electrocautery-enhanced lumen-apposing metal stent (ECE-LAMS). The LAMS was released and its position was confirmed radiographically (▶Fig. 2a, b).

Nasojejunal enteral nutrition was administered. One week after the cholecystoduodenostomy, a gastroscope was introduced into the gallbladder via the LAMS, and three polys were revealed (▶Fig. 2c), two of which were initially resected by snares. Owing to the limited space and visual field for operating, the LAMS was removed straight after these resections. The last polyp was then resected, and the fistula was immediately closed with clips (▶Fig. 2d).

During 2 months of follow-up, the patient recovered well without any complications, such as peritonitis, infection, or bleeding. Pathological examination of the resected polyps indicated that they were adenomatous polyps (▶Fig. 3).
This is the first case report to show in detail the procedure of EUS-guided gallbladder polyp resection, thereby avoiding cholecystectomy. Compared with laparoscopic cholecystectomy, the advantage of this endoscopic technique is retention of the gallbladder, which is especially important for those who are diagnosed with gallbladder polyps but have a well-functioning gallbladder [1]. In this case, an ECE-LAMS, a novel stent combining a LAMS with an electrocautery-enhanced delivery system, was used for the formation of the fistula tract [2]. The use of the ECE-LAMS promoted the efficiency and safety of the procedure by reducing the time needed to replace accessories that would otherwise have been required to place the stent.

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Competing interests

None

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