

## Endoscopic ultrasound-guided transmural gallbladder drainage with a lumen-apposing metal stent using an electrocautery enhanced delivery system

A 77-year-old woman with multiple comorbidities was referred for symptomatic chronic calculous cholecystitis. She was not a surgical candidate for cholecystectomy and refused percutaneous gallbladder drainage. Endoscopic ultrasound (EUS)-guided transmural gallbladder drainage with a lumen-apposing metal stent (LAMS) using an electrocautery enhanced delivery system was performed (▶ **Video 1**).

The echoendoscope was advanced to the duodenal bulb. The gallbladder was accessed with a needle, and contrast injection confirmed the location. A guidewire was coiled within the gallbladder lumen. A 15-mm LAMS with an electrocautery enhanced delivery system was used to dissect a transmural tract into the gallbladder. The stent was deployed with the distal flange in the gallbladder and the proximal flange in the duodenal bulb. Dilation of the stent to 15 mm was performed using a controlled radial expansion balloon. Following dilation, pus and dark bile were seen draining from the gallbladder (▶ **Fig. 1**).

The patient was discharged home the next day without any abdominal pain. She had no recurrence of abdominal pain at 6-month follow-up.

The use of LAMS with an electrocautery enhanced delivery system minimizes the risks associated with dilation of the transmural tract prior to stent placement, including gallbladder decompression, bile leak, and stent migration [1,2]. EUS-guided transmural gallbladder drainage using LAMS has also been described for internal gallbladder drainage in patients with

percutaneous cholecystostomy catheters who are poor candidates for cholecystectomy [3]. EUS-guided transmural gallbladder drainage is safe, feasible, and effective for decompressing the gallbladder in patients who are poor surgical candidates.

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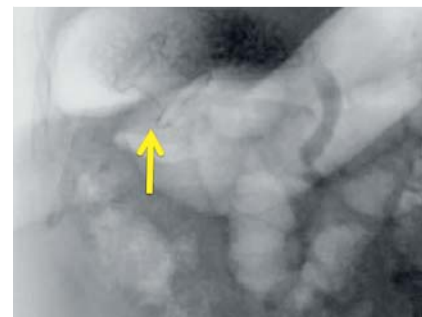
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**Fig. 1** Fluoroscopic image of a lumen-apposing metal stent (yellow arrow) between the gallbladder and duodenum for endoscopic management of cholecystitis.

### Video 1



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### Bibliography

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