A 38-year-old woman with abdominal gunshot injury underwent hepatorrhaphy, gastrorrhaphy, splenectomy, and hemicolecction for severe liver, gastric, splenic, and colonic injury. On postoperative day 10, Gastroenterology was consulted for evaluation of a bile leak, after bilious drainage was seen in the perihepatic intra-abdominal drain. Abdominal computed tomography scan showed a fluid collection around the right hepatic lobe. Endoscopic retrograde cholangiopancreatography (ERCP), performed for evaluation of the bile leak, showed contrast leakage from a branch of the right hepatic duct, for which a biliary stent was placed. After prolonged hospitalization, repeat ERCP was performed on an outpatient basis at 3 and 6 months. During this period, there was persistent bile leakage from a branch of the right hepatic duct despite biliary stent exchanges (▶ Fig. 1). In the interim, the patient also developed a biliocutaneous fistula, with bilious discharge from the skin over the right upper quadrant. A decision was made to proceed with intrabiliary coil placement [1] after consulting with Hepatobiliary Surgery. Platinum embolization coils (Tornado; Cook Medical, Bloomington, Indiana, USA), 0.035 inches in diameter and 4.1 cm in length, were backloaded into a long-wire 4.4 Fr sphincterotome. The sphincterotome was advanced to the site of the biliary leak, and two coils were deployed by using a 0.035-inch guidewire to push them through the sphincterotome. After deployment, the coils assumed their circular shape, confirming coil deployment at the site of duct disruption (▶ Video 1). There was resolution of the biliocutaneous fistula within 24 hours. The patient was given oral ciprofloxacin for a week after ERCP. There was no fever or abdominal pain at 2 month follow-up, indicating successful treatment of refractory bile leak by endobiliary coil placement. This case demonstrates an off-label use of platinum embolization coils, which are primarily used by interventional radiologists for endovascular use. Endobiliary coil placement is an effective strategy for managing difficult and refractory bile leaks arising from liver trauma.

**Competition interests**

None

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[Video 1] Refractory bile leak with biliocutaneous fistula treated by endobiliary coil placement.
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