Hemobilia is a rare but potentially fatal cause of gastrointestinal bleeding [1]. Identifying the source of bleeding may require investigations such as angiography and laparotomy [2].

A 54-year-old man with a history of cholecystectomy was admitted to our hospital with obstructive jaundice and cholangitis. Radiologic imaging showed choledocholithiasis and multiple intrahepatic abscesses. Endoscopic retrograde cholangiopancreatography (ERCP) was unsuccessful due to a bulbar papilla with advanced stenosis of the duodenal bulb, so a percutaneous transhepatic biliary drainage (PTBD) procedure was performed. In the first day after this, massive hemorrhagic drainage was observed. No arterial bleeding was identified by hepatic angiography and a surgical exploration was planned. At operation, stones and large clots were extracted and active bleeding was identified. Cholangioscopy, using an ultrathin endoscope (5.9 mm), was performed through the choledochotomy site, and reached the dilated intrahepatic bile ducts. The left biliary system was normal (Video 1); however, active bleeding was detected from the area of the PTBD catheter in segment 6 (Video 2).

After confirmation of the bleeding by intraoperative Doppler ultrasonography, selective segment 6 portal vein ligation was performed through a high hilar dissection [3] and the bleeding was controlled. Hepaticoduodenostomy and gastrojejunostomy procedures were also performed. No complications occurred and the patient was discharged 6 days after the operation.

PTBD-associated hemobilia develops in 2–10% of patients [4]. Although the most suspicious branch of the portal vein is that located in front of the punctured bile duct, this must be verified as the source of bleeding at operation. There are some advantages of using an ultrathin endoscope over a standard rigid cholangioscope, which include superior suction and irrigation ability, and the capability for four-directional maneuverability. Intraoperative cholangioscopy with an ultrathin endoscope may be useful to detect the source of bleeding in selected patients with hemobilia and can also help the surgeon to plan appropriate surgical management.

**References**


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