Hepatic subcapsular biloma complicating laparoscopic cholecystectomy

A 74-year-old woman presented with upper abdominal pain. An ultrasound scan showed signs of acute cholecystitis but the liver parenchyma and liver function tests were normal. She underwent laparoscopic cholecystectomy. An intraoperative cholangiogram was normal.

On the 12th postoperative day, she presented to the emergency room with right upper quadrant pain. She had an elevated white blood cell count (13.2 × 10⁹/L [upper limit of normal 8 × 10⁹/L]) and C-reactive protein (30mg/L [upper limit of normal 5 mg/L]). Her liver function tests remained normal. An abdominal computed tomography (CT) scan revealed a hepatic subcapsular fluid collection (Fig. 1). This was drained percutaneously and was shown to be a biloma. A drainage catheter was left in place.

Three days later, ≥500 mL of bile continued to drain daily and an endoscopic retrograde cholangiopancreatography (ERCP) was performed. A cholangiogram showed a bile leak from the cystic duct stump communicating with the hepatic subcapsular space (Fig. 2). An endoscopic sphincterotomy was performed and a biliary stent was inserted.

The percutaneous drainage catheter was removed 2 days post-ERCP. The patient had an uneventful recovery, and 4 weeks later repeat CT scan showed complete biloma regression. Repeat cholangiogram upon stent removal 4 months later showed no bile leak.

Although bile leak into the peritoneal cavity is a well-known complication of laparoscopic cholecystectomy, subcapsular bilomas only rarely occur [1–5]. A case of subcapsular biloma has been reported following iatrogenic common bile duct transection [2], but usually no bile leak site is identified [1,3–5]. However, in most published reports, ERCP was not performed [3–5], and subcapsular bilomas were treated with percutaneous drainage [1,3–5].

To our knowledge, the current case is the first in which a bile leak from the cystic duct stump has been shown to be the cause of hepatic subcapsular biloma. It also indicates that ERCP with biliary stenting is a valid treatment in patients with hepatic subcapsular bilomas following cholecystectomy.

Competing interests: None

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