Spontaneous perforation of the subvesical bile duct

Subvesical bile ducts, which are frequently incorrectly termed “ducts of Luschka,” traverse within, or in close contact with, the gallbladder fossa [1]. They are one of the most common etiologies of bile leak in cholecystectomy and have gained increased clinical attention in the present laparoscopic era. Subvesical bile ducts are hardly ever detected preoperatively because their mean diameter is 2 mm [1]. Indeed, in most patients, subvesical bile duct leaks are detected postoperatively, generally during the first postoperative week [2]. This report describes a case of spontaneous perforation of the subvesical bile duct.

A 57-year-old woman was admitted to our department with acute upper abdominal pain. She described the pain as having worsened over the previous 24 hours, followed by a sudden, sharp pain in her right upper quadrant. Computed tomography (CT) scanning revealed a localized fluid collection at the hepatic hilum (Fig. 1). Given the location of this collection, perforation of the gallbladder or bile ducts was suspected. An urgent endoscopic retrograde cholangiography (ERC) was performed, during which extravasation of contrast out of a

▶ Fig. 1 Abdominal computed tomography scan showing a localized fluid collection at the hepatic hilum in a 57-year-old woman who presented with acute upper abdominal pain.

▶ Fig. 2 Cholangiographic image showing extravasation of contrast out of the subvesical bile duct (arrow).

▶ Video 1 An urgent endoscopic retrograde cholangiography revealed extravasation of contrast out of the subvesical bile duct on fluoroscopy.
The subvesical bile duct was identified on fluoroscopy (▶ Fig. 2; ▶ Video 1). A diagnosis of biliary peritonitis due to spontaneous perforation of the subvesical bile duct was confirmed, and endoscopic nasobiliary drainage was performed. Cholangiography through the nasobiliary drainage tube 9 days later confirmed healing of the bile leak. The patient was discharged without complications following removal of the drainage tube. The subvesical bile duct with traces of the bile leak was subsequently found and ligated during an elective open cholecystectomy.

Spontaneous perforation of bile duct in adults is extremely rare and the most common perforation site is the common bile duct. To our knowledge, this is the first case of spontaneous perforation of a subvesical bile duct.

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Competing interests

None

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