Subphrenic hematoma mimicking malpositioned gallbladder during endoscopic retrograde cholangiopancreatography

A 60-year-old woman with recurrent upper abdominal pain of 10 days’ duration visited our hospital. Abdominal computed tomography demonstrated a stone in the common bile duct (CBD), and endoscopic retrograde cholangiopancreatography (ERCP) was performed to remove it. The patient’s hematological and clotting parameters were normal. Deep biliary cannulation with a 0.035-inch straight-tip guidewire (Jagwire; Boston Scientific, Natick, Massachusetts, USA) was attempted. The CBD stone was extracted successfully with endoscopic sphincterotomy and a disposable extraction basket (Endo-Flex, Voerde, Germany). However, cholangiography showed an ovoid collection of contrast at the upper pole of the liver. In particular, occlusive cholangiography demonstrated leakage of contrast from the right intrahepatic duct to the subphrenic area (Fig. 1). We assumed this lesion to be a positional variation of the gallbladder.

On the following day, the patient continued to experience vague right upper quadrant pain without tenderness or signs of peritonitis. Follow-up abdominal computed tomography demonstrated a 10 × 6-cm air-filled hematoma mixed with contrast in the subphrenic area, complicated by a pleural effusion (Fig. 2). On a coronal computed tomographic scan, we could distinguish the gallbladder from the subphrenic hematoma (Fig. 3). The patient was hemodynamically stable, and the hematoma was successfully treated by percutaneous drainage with a pigtail catheter.

Although several cases of subcapsular hematoma have been diagnosed by computed tomography several days after ERCP, [1, 2] this is the first report in the literature of a subphrenic hematoma visualized by cholangiography during ERCP. Guide-wire trauma into the liver parenchyma, by deep cannulation into the intrahepatic bile duct and the forceful injection of contrast during occlusive cholangiography are thought to be contributing factors. The iatrogenic formation of a subphrenic hematoma during ERCP can be prevented by cautious manipulation of the guide-wire and the avoidance of excessive pressure during occlusive cholangiography.

Competing interests: None

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References

Bibliography
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