Anatomical variations of the biliary tract are not uncommonly seen during routine endoscopic retrograde cholangiopancreatography (ERCP) [1–5]. A 91-year-old woman was evaluated for right upper abdominal colicky pain followed by jaundice. The patient denied fever, chills, dark urine or clay-colored stool. A physical examination revealed a soft abdomen with right upper quadrant tenderness and jaundice. Laboratory results indicated a cholestatic profile with elevated total bilirubin of 7.75 mg/dL (normal range: 0.10–1.20 mg/dL), alkaline phosphatase of 198 U/L (normal range: 35–105 U/L), and \( \gamma \)-glutamyl transferase of 463 U/L (normal range: 0–38 U/L). Abdominal ultrasound examination showed a stone-free gallbladder. The intrahepatic bile duct system was found to be normal but the extrahepatic duct system was dilated (common bile duct: 11.7 mm in diameter). ERCP was indicated when abdominal computed tomography scan showed a dilated extrahepatic CBD with suspected cholangiolithiasis. During this procedure the papillary orifice was intubated. Fluoroscopy showed an 8-mm wide tubular structure leading directly to the neck of the gallbladder. After securing this duct with the guide wire on the second attempt, another, massively dilated tubular structure with barrel-shaped contrast sparrings typical for extrahepatic cholangiolithiasis was opacified after intubation of a separate orifice directly beneath the first opening (Fig. 1). After this latter duct was identified as the CBD with extrahepatic cholangiolithiasis, a selective sphincterotomy was performed. After successful mechanical lithotripsy most stone fragments could be removed (Fig. 2). With lithogenesis within the gallbladder, movement of concretions into the CBD via the normal route (e.g. cystic duct) would seem to be impossible in this case due to anatomical variations with a separate insertion of the cystic duct via a proprietary orifice at the papillary level. Therefore, by definition, in this case the extrahepatic CBD stones could be only primary bile duct stones with lithogenesis within the duct itself.

Competing interests: None

Endoscopy_UCTN_Code_CCL_1AZ_2AK

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DOI http://dx.doi.org/10.1055/s-0032-1309921
Endoscopy 2012; 44: E280–E281
© Georg Thieme Verlag KG
Stuttgart · New York
ISSN 0013-726X

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