A 70-year-old man with a history of cholelithiasis underwent laparoscopic cholecystectomy. At a follow-up visit 2 months later, he complained of epigastric pain and weight loss. Alkaline phosphatase, γ-glutamyl transferase, and bilirubin levels were all elevated. Magnetic resonance cholangiopancreatography showed a stricture in the middle of the common bile duct and dilatation above the stricture.

The patient was referred to us for endoscopic retrograde cholangiopancreatography (ERCP), which revealed an iatrogenic stenosis of the common bile duct at the level of the junction with the cystic duct, caused by cholecystectomy clips, with dilatation of the bile ducts above that level. Attempts to advance several kinds of guide wires beyond the stricture, including Jagwire 0.035–0.025 inches (Boston Scientific, Natick, Massachusetts, USA) and angled Terumo (Terumo Europe, Leuven, Belgium), were unsuccessful because of the severe narrowing and eccentric position of the opening of the stricture due to the clip angulation, which caused the wire to advance only into the cystic duct (Fig. 1).

A decision was made to use the SpyGlass Direct Visualization System (SDVS) (Boston Scientific, Natick, Massachusetts, USA). The SDVS was introduced into the bile duct and a clear visualization of the openings of the stricture and the cystic duct was achieved (Fig. 2). Subsequently, the stricture was easily cannulated, dilated, and stented (Fig. 3).

ERCP-guided cholangiopancreatoscopy with SDVS allows direct visualization of the bile ducts, tissue sampling, and therapeutic maneuvers [1–3]. Tight and eccentric strictures are a common cause of unsuccessful cannulation and ERCP failure. In such cases a second ERCP is usually attempted and, if unsuccessful, a percutaneous approach or revision surgery is usually employed. To the best of our knowledge this is one of the very few reported cases of the use of SDVS for cholangioscopic placement of a guide wire across a difficult stricture. The first reported case concerned an anastomotic stricture in a liver transplant recipient and the second one a patient with a hilar biliary tumor [4, 5]. We suggest that in cases where ordinary cannulation of an iatrogenic biliary stricture fails, the use of SDVS for guided cannulation may represent an alternative, innovative and successful approach.

**Competing interests:** None
References


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