Iatrogenic biliary injury in a patient with Roux-en-Y hepaticojejunostomy: stenting repair with single-balloon enteroscopy-assisted ERCP

A 64-year-old woman who had previously undergone a Roux-en-Y hepaticojejunostomy because of iatrogenic bile duct injury during cholecystectomy, presented recurrent episodes of cholangitis due to stricture of the hepaticojejunostomy and so dilation and plastic stenting of the left bile duct was done, but there was accidental injury to the right biliary duct. The percutaneously placed left duct stent and guidewire can be seen. The guidewire is exiting the right duct.

Procedure, the guidewire was straightened and a 7-Fr plastic stent (3 cm; Olympus, Japan) was placed endoscopically (Fig. 4) through the hepaticojejunostomy, excluding the biliary duct laceration (Fig. 4 and Fig. 5). SBE-ERCP was subsequently repeated, with biliary stent removal through the overtube. Cholangiography revealed no biliary leak or anastomotic stricture (Fig. 6).

Iatrogenic biliary duct injuries are serious conditions, for which endoscopic stenting treatment has gained increasing potential. For patients with complex post-surgical anatomy, SBE for ERCP is a safe and
useful method of engaging in biliary endotherapy [1]. In our patient, the use of a combined percutaneous and endoscopic rendezvous technique made it possible to place a biliary stent, establishing biliary continuity and healing an existing biliary duct injury. This procedure, useful for standard ERCP [2], has seldom been described for ERCP by means of balloon-assisted enteroscopy [3–5]. To our knowledge, we present the first description of performance of a rendezvous technique by means of SBE to repair an iatrogenic biliary duct injury. This case also illustrates the gradual improvement of endoscopic biliary interventions in patients with surgically altered anatomy.

References