Roux-en-Y biliodigestive reconstruction excludes the biliary tract from conventional endoscopic retrograde cholangiopancreatography (ERCP) [1–3]. However, the 200-cm-long double-balloon enteroscope (DBE) facilitates intubation of the afferent Roux-en-Y limb and maintains its position in front of the biliodigestive anastomosis. The 2.8-mm working channel allows for the introduction of conventional accessories, provided they have 230 cm length available. Choledochojejunostomy balloon dilation using DBE was first reported after living donor liver transplantation [4]. In one multicenter study, two patients successfully underwent DBE ERCP and biliary balloon dilation after Roux-en-Y reconstruction [5]. We report two DBE interventions in one patient who had developed a hepaticojejunostomy stricture after resection of the right lobe of the liver. This 72-year-old man with a Klatskin IIIa tumor underwent curative right hepatectomy and Roux-en-Y hepaticojejunostomy in 2004. Two years later, he presented with cholangitis and dilatation of the intrahepatic biliary tree in the remaining left liver without any evidence of tumor recurrence on magnetic resonance imaging. With the patient under general anesthesia, we reached the hepaticojejunostomy using the Fujinon EN-450T5 therapeutic DBE (Fujinon Corporation, Saitama-Shi, Saitama, Japan). The anastomosis was impacted with sludge entrapped in remaining sutures (Figure 1). It was cannulated with a sclerosing needle catheter to perform cholangiography (Figure 2). The anastomotic stricture was dilated up to 6 mm using an esophageal dilation balloon, leading to swift clearance of intrahepatic contrast (Figure 3). The cholangitis recurred 5 months later as a result of occlusion of the hepaticojejunostomy. During a second DBE procedure we created a new orificium with a sclerosing needle (Figure 4). The anastomosis was dilated over a guide wire, and two 7-Fr biliary stents (12 cm and 9 cm) were introduced through the DBE into the left hepatic branch to avoid rapid stenosis (Figure 5, 6). We used a nasobiliary...
catheter as a pushing device to introduce the stents. Evidence is emerging that DBE allows ERCP interventions after Roux-en-Y surgery. Although it remains an elaborate procedure, it might prevent the need for redo surgery. Accessories adapted to the therapeutic DBE should be made available to enable further developments for this new indication.

Endoscopy_UCTN_Code_TTT_1AP_2AD
Endoscopy_UCTN_Code_TTT_1AR_2AG
Endoscopy_UCTN_Code_TTT_1AR_2AK

T. G. Moreels¹, B. Roth¹, E. J. Vander-vliet², P. M. Parizel², J. Dutrè³, P. A. Pelckmans³

¹ Department of Gastroenterology and Hepatology, Antwerp University Hospital, Antwerp, Belgium
² Department of Radiology, Antwerp University Hospital, Antwerp, Belgium
³ Department of Gastroenterology and Hepatology, ZNA Jan Palfijn Hospital, Merksem, Belgium

References

3 Saad WE, Davies MG, Saad NE et al. Transhepatic dilation of anastomotic biliary strictures in liver transplant recipients with use of a combined cutting and conventional balloon protocol: technical safety and efficacy. J Vasc Interv Radiol 2006; 17: 837–843

Bibliography

Endoscopy 2007; 39: E196–E197
© Georg Thieme Verlag KG Stuttgart - New York - ISSN 0013-726X

Corresponding author
T. G. Moreels, MD, PhD
Antwerp University Hospital
Department of Gastroenterology and Hepatology
Wilrijkstraat 10
B-2650 Antwerp
Belgium
Fax: +32-38214478
tom.moreels@uza.be