Endoscopic retrograde cholangiopancreato-
tography (ERCP) in patients with altered small-bowel anatomy is challenging, often needing device-assisted enteroscopy [1]. We report on a complicated ERCP procedure using a single-balloon enteroscope (SIF Q180, Olympus) in a 90-year-old patient who had undergone Roux-en-Y total gastrectomy in 1992 for gastric carcino-
ma. The indication for the ERCP was Acinetobacter pittii cholangitis and sepsis due to a large common bile duct stone. The procedure was performed with the patient under general anesthesia. The enteroscope was introduced through the esophagojejunostomy to reach the side-to-side Roux-en-Y anastomosis. From there, the afferent limb was intubated and the intact major papilla was cannulat-
ed. A cholangiogram confirmed the pres-
ence of a large common bile duct stone (Fig. 1).

A sphincterotomy and 8-mm balloon sphincteroplasty were performed (Fig. 2). After an unsuccessful attempt at balloon extraction, a capsule retrieval basket was tried. The stone having been captured in the basket could not be re-
moved through the sphincterotomy however and could not be crushed [2]. To deal with this complication, the handle of the basket was cut, leaving it in the common bile duct. Meanwhile, the enteroscope was removed and reintroduced into the gastrointestinal tract, passing through the esophagojejunostomy and the Roux-en-Y anastomosis alongside the basket catheter (Fig. 3 and Fig. 4). The papilla was then cannulated with the basket catheter in place and a 15-mm balloon sphincteroplasty was performed. Because of the long and tortuous position of the basket catheter in the intestinal loops, mere traction on the catheter would have caused trauma to the intest-
tine. Therefore, we used the enteroscope as a safeguard by applying traction on both the enteroscope and the adjacent basket catheter, as we have previously described [3] (Fig. 5a). In this way it was possible to remove the basket from the common bile duct and to retrieve the stone.

Finally, the enteroscope was introduced again to inspect the papilla and the enteroscope was introduced through the sphincteroplasty into the common bile duct to perform direct cholangioscopy (Fig. 5b). This revealed no evidence of remaining stones, bleeding, or perfora-
tion. The patient subsequently recovered well without complications.
Competing interests: None

Olivier Dhollander¹, Hilde De Bruyne¹, Bart Op de Beeck², Paul A. Pelckmans¹, Tom G. Moreels¹

¹ Department of Gastroenterology & Hepatology, Antwerp University Hospital, Antwerp, Belgium
² Department of Radiology, Antwerp University Hospital, Antwerp, Belgium

References

Bibliography
Endoscopy 2014; 46: E295–E296
© Georg Thieme Verlag KG Stuttgart · New York
ISSN 0013-726X

Corresponding author
Tom G. Moreels, MD, PhD
Antwerp University Hospital
Dept. Gastroenterology Hepatology
Wilrijkstraat 10
B-2650 Antwerp
Belgium
tom.moreels@uza.be