A 77-year-old man was admitted for evaluation of recurrent episodes of cholangitis. He had undergone endoscopic retrograde cholangiography (ERC) several times for biliary stone disease and for cholecystectomy, and suffered from advanced Alzheimer disease. Abdominal magnetic resonance imaging (MRI) revealed dilatation of the right posterior intrahepatic duct (Fig. 1), with aberrant drainage directly into the common hepatic duct. However, multiple attempts to reach this segment by ERC were unsuccessful (Fig. 2). The Spyglass system was then used for selective opacification (Fig. 3) and optical viewing of the aberrant bile duct (Boston Scientific, Natick, Massachusetts, USA) [1, 2]. A reddish nodular lesion was seen obstructing the lumen (Fig. 4), and targeted biopsies with a 3-Fr Spybite mini-forceps (Boston Scientific) confirmed the presence of an adenoma (Fig. 5) [3]. The stricture was dilated with a Hurricane 8-mm, 4-cm balloon (Boston Scientific) and the stones were extracted. The Spyscope was removed and two 7-Fr plastic stents placed. Given the patient’s poor mental and general status, we proposed carrying out endobiliary radiofrequency ablation of the stricture. This was done 4 weeks later with a wire-guided Habib EndoHPB (Emcision, London, UK) (Fig. 6) [4]. This case illustrates the potential impact of selective cholangioscopy with the Spyglass system on diagnosis and management of indeterminate biliary strictures.

Endoscopy_UCTN_Code_TTT_1AR_2AF

Competing interests: None

G. Mavrogenis¹, P. H. Deprez², J. Wallon³, P. Warzée¹

¹ Department of Hepato-gastroenterology, Grand Hôpital de Charleroi, Site Notre Dame, Charleroi, Belgium
² Department of Hepato-gastroenterology, Cliniques Universitaires Saint-Luc, Université Catholique de Louvain, Brussels, Belgium

Fig. 3 Targeted access to the aberrant posterior right bile duct with the Spyglass system showing tumoral obstruction.

Fig. 4 Optical viewing of the aberrant bile duct with the Spyglass system showing a nodular lesion obstructing the lumen.

Fig. 5 Histological section of the biliary adenoma, characterized by the regular sheets of monotonous cells, with monomorphic nuclei localized to the bottom of the cytoplasm (Papanicolaou stain; magnification x 25).

Fig. 6 Guide wire inserted through the biliary stenosis (left) and a Habib EndoHPB catheter placed at the level of the intraductal adenoma (right).

3 Department of Pathology, Cliniques Universitaires Saint-Luc, Université Catholique de Louvain, Brussels, Belgium

References

1 Chen YK. Preclinical characterization of the Spyglass peroral cholangiopancreatoscopy-system for direct access, visualization, and biopsy. Gastrointest Endosc 2007; 65: 303–311

Bibliography

DOI http://dx.doi.org/10.1055/s-0032-1310036
Endoscopy 2012; 44: E290–E291
© Georg Thieme Verlag KG
Stuttgart · New York
ISSN 0013-726X

Corresponding author

P. Warzée

Grand Hôpital de Charleroi
Site Notre Dame
3 Grand Rue
6000 Charleroi
Belgium
Fax: +327-1102-779
pwarzee@hotmail.com