Knock-knock-knockin’ on bile duct’s door: the “tip-of-the-biopsy-forceps technique” – probing the route during freehand-intubated direct cholangioscopy

Direct cholangioscopy is a highly innovative field in pancreaticobiliary endoscopy; however, its wider dissemination is hampered by high technical procedural demands and/or the need for specialized equipment. Much technological progress is underway including clinical evaluation of double-bending cholangioscopes and next-generation anchoring balloons [1] [2]. By contrast, freehand intubation for direct cholangioscopy has largely been discredited by expert opinion, even though high rates of technical success have been published in single series and individual clinical reports [3].

Here, I report on a novel, easy-to-implement technique to facilitate freehand intubation, called the “tip-of-the-biopsy-forceps technique” (▶ Video 1). ▶ Fig. 1 a shows a papilla at the rim (2 o’clock position) of a periamputillary diverticulum after medium-incision papillotomy, with an air bubble highlighting its entrance (Olympus XP-160, outer diameter 5.9 mm; Olympus, Hamburg, Germany). In successful freehand direct cholangioscopy, it is important to attain close tissue contact during intubation; however, this creates a higher risk of obscured visual orientation (“red out”) (▶ Fig. 1 b). Similar to cap assistance in other endoscopy applications, gentle probing with the tip of a biopsy forceps achieves minimal distance from the mucosa, resulting in anatomic reorientation in an acutely angulated preampullary bile duct (▶ Fig. 1 c; asterisk shows the tip of the forceps), which is firmly intubated in a stable scope position after adjusting the axis (▶ Fig. 1 d).

The presented novel rescue maneuver for difficult freehand intubation for direct cholangioscopy may provide valuable assistance in regaining orientation, while properly maintaining close contact with the papillary mucosa.

Competing interests
None

The Author

Vincent Zimmer1, 2
1 Department of Medicine, Marienhospital St. Josef Kohlhof, Neunkirchen, Germany
2 Department of Medicine II, Saarland University Medical Center, Saarland University, Homburg, Germany
Video 1: The “tip-of-the-biopsy-forceps technique” to facilitate freehand intubation for direct cholangioscopy. This rescue technique is considered critical in reconciling the delicate balance between adequate mucosal contact and visual orientation during intubation of the papilla in a freehand fashion.

References


Bibliography
DOI https://doi.org/10.1055/s-0043-106047
Endoscopy 2017; 49: E153–E154
© Georg Thieme Verlag KG
Stuttgart · New York
ISSN 0013-726X