How to facilitate cannulation of an intradiverticular papilla: a technique with two devices in one channel using pediatric forceps

The proportion of patients undergoing endoscopic retrograde cholangiopancreatography (ERCP) with a periamplarillary duodenal diverticulum ranges in the literature from 9% to 32% [1]. The prevalence of periamplarillary diverticula increases with age, and they are associated with a higher risk of choledocholithiasis [2]. In a few series, they have been identified as a risk factor for difficulty in and failure of biliary catheterization [3]. Several techniques have been proposed to facilitate cannulation, such as clips, or in one case forceps [4,5]. ▶ Video 1 shows three patients who benefited from our technique involving double instrumentation in one channel for the treatment of biliary obstruction with peridiverticular papillae. Among 7151 ERCPs performed between 2008 and 2017, a duodenal diverticulum was found in 346 patients (5%). Among these, nine patients with a non-visible or non-reachable orifice benefited from the previously described technique for cannulation. The objective was to reverse the papilla’s orifice to stabilize it in front of the sphincterotome. The procedures were performed with a duodenoscope (Olympus TJF 160; operating channel 4.2 mm). The devices used were a sphincterotome (Cotton Cannula-tome II; Cook Medical, USA) loaded with a 0.035-inch guidewire (JagWire; Boston Scientific, USA) and pediatric biopsy forceps (Captura 1.8 mm; Cook Medical), which were simultaneously introduced into the operating channel. The papilla was grasped at its base and pulled back towards the tip of the sphincterotome, which was advanced to catheterize the bile duct with the wire (▶ Fig. 1). The procedure was successful in less than 10 minutes without the need for a precut in all of the patients. The findings were biliary stones in six patients, undetermined stricture in two patients, and pancreatic cancer in one patient. No adverse events occurred.

In conclusion, this approach using pediatric forceps simultaneously introduced with the sphincterotome to fix the papilla and facilitate cannulation is very useful, safe, and effective in patients with a periamplarillary diverticulum and difficult access to the orifice, helping to avoid the need for a challenging precut.

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Competing interests

None

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