An intradiverticular papilla (IDP) can make biliary cannulation difficult during endoscopic retrograde cholangiopancreatography (ERCP), and endoscopists sometimes need to use special techniques to achieve deep common bile duct (CBD) cannulation [1–3]. We describe two difficult IDP cases in which successful biliary cannulation was achieved after using endoclips to facilitate a temporary change in the anatomical position of the major papilla.

A 56-year-old man underwent ERCP for CBD stones. On duodenoscopy, the major papilla was observed to be lying on the floppy mucosa, within the inferior rim of a diverticulum (Fig. 1a). Although the papilla could be everted from the diverticulum using a catheter tip (Fig. 1b), it would rotate back inside soon after the mechanical traction was withdrawn. This anatomical orientation prevented cannulation. An endoclip (Hx-600–135, Olympus Medical Systems Corp., Tokyo, Japan) was used to rotate the papilla externally and to fix it on the outside rim of the diverticulum. This procedure resulted in successful biliary cannulation (Fig. 1c).

A 77-year-old woman underwent ERCP for biliary sepsis with shock. On duodenoscopy, the small papilla could be identified on the left edge of the diverticulum only when the scope was advanced within the diverticulum (Fig. 2a). Biliary cannulation was unsuccessful in this anatomical position. Therefore, two endoclips were applied to the inferior and lateral diverticular walls and the duodenal mucosa. This manipulation successfully everted and fixed the papilla on the diverticular margin (Fig. 2b). The altered orientation allowed biliary cannulation to be carried out along the diverticular rim (Fig. 2c).

Scotiniotis and Ginsberg reported the first case of successful treatment of IDP using endoclip-assisted biliary cannulation [4]. The satisfactory results obtained in our two cases confirm that this method can be added to the inventory for difficult biliary cannulation.

**Competing interests:** None
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