Novel sphincterotomy device that orientates blade along the axis of the bile duct in patients with Roux-en-Y anastomosis

Endoscopic papillary large balloon dilation (EPLBD) following endoscopic sphincterotomy (EST) is an effective and safe treatment for common bile duct (CBD) stones in patients with Roux-en-Y anastomosis [1, 2]. However, performing EST using the conventional sphincterotomy approach in these patients is considered difficult because it has to be done in the opposite direction [3, 4]. The direction of the blade does not correspond with the correct incision direction (axis of the bile duct) in this situation. It is desirable, therefore, for the blade to be oriented in the appropriate incision direction in patients with Roux-en-Y anastomosis (▶ Fig. 1).

The Correctome (Boston Scientific, Marlborough, Massachusetts, USA) is a new sphincterotomy device that allows optimal orientation of the blade. The blade of the Correctome can be stretched for the conventional sphincterotomy approach. Furthermore, this blade can be loosened in the opposite direction, resulting in wide bowing (▶ Fig. 2).

A 69-year-old man who had undergone total gastrectomy with Roux-en-Y anastomosis was admitted to our hospital for the treatment of CBD stones. A short-type single-balloon enteroscope (SIF-H290; Olympus Medical Systems, Tokyo, Japan) was inserted into the papilla, and selective biliary cannulation was successfully performed [5]. Next, the Correctome was intubated into the papilla over the guidewire, and the blade was loosened to achieve wide bowing (▶ Fig. 3). The opening to the ampulla was enlarged by cutting (▶ Fig. 4), and
EPLBD was performed (Fig. 5). All stones were successfully removed. This novel sphincterotomy device that allows orientation of the blade along the axis of the bile duct is considered useful for EST, not only for patients with normal anatomy but also for patients with Roux-en-Y anastomosis (Video 1).

Endoscopy_UCTN_Code_TTT_1AS_2AG

Competing interests

None

The authors

Mamoru Takenaka, Tomoe Yoshikawa, Ayana Okamoto, Atsushi Nakai, Kosuke Minaga, Kentaro Yamao, Masatoshi Kudo
Department of Gastroenterology and Hepatology, Kindai University Faculty of Medicine, Osaka-Sayama, Japan

Corresponding author

Mamoru Takenaka, MD
Department of Gastroenterology and Hepatology, Kindai University Faculty of Medicine, 377-2 Ohno-Higashi, Osaka-Sayama 589-8511, Japan
Fax: +81-72-3672880
mamoxyo45@gmail.com

References


Bibliography
DOI https://doi.org/10.1055/a-0858-9831
Published online: 25.3.2019
Endoscopy 2019; 51: E132–E134
© Georg Thieme Verlag KG
Stuttgart · New York
ISSN 0013-726X

Endoscopy E-Videos is a free access online section, reporting on interesting cases and new techniques in gastroenterological endoscopy. All papers include a high quality video and all contributions are freely accessible online.

This section has its own submission website at https://mc.manuscriptcentral.com/e-videos