Prefixation with clip-anchored endoloop: a novel method facilitating endoscopic resection of a giant duodenal polyp with thick stalk

Although pretreatment of the stalk is a standard method to prevent bleeding for endoscopic removal of large pedunculated lesions [1], adequate stalk ligation is still challenging in some difficult cases [2]. In this study, we report a prefixation technique to improve endoscopic treatment of a giant duodenal polyp by reliably ligating the stalk with a clip-anchored endoloop (▶ Video 1).

A symptomatic 49-year-old woman was diagnosed with a giant pedunculated polyp (5.0 cm) extending from the duodenal bulb to the descending duodenum under esophagogastroduodenoscopy (▶ Fig. 1a). Because the mass almost occluded the duodenal lumen, we decided to remove it endoscopically based on its benign appearance. Because the enormous mass spared little space and the long, thick stalk (1.5 cm) moved freely in the small lumen, sufficient mass could not be ensnared with an endoloop (▶ Fig. 1b) [3] even with the aid of grasping forceps (▶ Fig. 1c) [2]. The endoloop was then preloaded in the working channel of the endoscope and extended out to link with a clip (▶ Fig. 2a). Because the endoloop was pre-fixed to the base of the mass with the clip (▶ Fig. 2b), it perfectly trapped the mass and ligated its thick stalk by means of the clip-created fulcrum (▶ Fig. 2c). With the stalk cut off by a hook knife (▶ Fig. 2d), a neat base along with the clip-anchored endoloop was retained (▶ Fig. 2e). The resected specimen was extracted and measured (▶ Fig. 2f). The histology diagnosed the large polyp as a Brunner’s gland hamartoma without malignancy (▶ Fig. 3) [4]. Because the prefixation technique using a clip-anchored endoloop could reliably ligate the thick stalk pre-resection, precisely set the resecting edge to achieve...
convenient removal of the whole lesion and solid preservation of the normal tissue, and dependably avoid endoloop slippage-related bleeding post-resection, it may serve as a standard treatment for all pedunculated lesions.

Endoscopy_UCTN_Code_TTT_1AO_2AG

Competing interests

The authors declare that they have no conflict of interest.

The authors

Xiao Hu1,2, Xu-dan Yang2,3, Ying-hui Zhang1,2, Cheng-hong Li1,2, Sheng-xi Han1,2, Wei-hui Liu1,2

1 Department of Gastroenterology and Hepatology, Sichuan Academy of Medical Sciences & Sichuan Provincial People’s Hospital, Chengdu, Sichuan Province, China
2 School of Medicine, University of Electronic Science and Technology of China, Chengdu, Sichuan Province, China
3 Department of Pathology, Sichuan Academy of Medical Sciences & Sichuan Provincial People’s Hospital, Chengdu, Sichuan Province, China

Corresponding author

Wei-hui Liu, MD
Department of Gastroenterology and Hepatology, Sichuan Academy of Medical Sciences & Sichuan Provincial People’s Hospital, Chengdu, Sichuan Province, 610072, China
Fax: +86-288-657-1251
audiliu12@163.com

Fig. 2 Pre-fix technique with clip-anchored endoloop facilitates successful endoscopic resection of a giant duodenal pedunculated polyp. a An endoloop was extended out of the working channel of the endoscope and then equipped with a clip. b The endoloop was fixed to the root of the giant mass by the clip. c The thick stalk of the mass was completely ligated by the endoloop. d A hook knife was introduced to resect the giant mass. e A neat base after resection was well-fastened by the clip-anchored endoloop. f The resected specimen measured 5.0 × 2.5 cm.
References


Bibliography

Endoscopy 2021; 53: E87–E89
DOI 10.1055/a-1198-4200
ISSN 0013-726X
published online 17.7.2020
© 2020. Thieme. All rights reserved.
Georg Thieme Verlag KG, Rüdigerstraße 14, 70469 Stuttgart, Germany

ENDOSCOPY E-VIDEOS
https://eref.thieme.de/e-videos

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