Double-wire-guided reopenable-clip closure of a mucosal defect after endoscopic papillectomy

Endoscopic papillectomy has been reported as a curative endoscopic treatment for laterally spreading tumors of the duodenal papilla and near the papilla [1,2]. However, endoscopic papillectomy is associated with postoperative complications such as pancreatitis, choledochopancreatostomy, and bleeding. Insertion of a pancreatic ductal stent may prevent these problems and should be performed if possible [3,4]. In addition, clip closure of mucosal defects may reduce delayed bleeding [5]. However, the presence of pancreatic and bile duct stents may interfere with clip closure and result in incomplete closure of the mucosal defects. We developed a new method, double-wire-guided closure with reopenable clips, which enables closure of mucosal defects before pancreatic and bile duct stents are inserted. With this method, guidewires are inserted into the pancreatic and bile ducts after complete resection of the lesion. The mucosal defect is then securely closed using a reopenable clip (SureClip; Micro-Tech Co., Ltd, Nanjing, China), with two guidewires in place to prevent respiratory movement. The clip can be opened and closed even with the elevator mechanism of conventional duodenoscopes.

Our patient was a 65-year-old man with a laterally spreading tumor in the descending duodenum extending to the papilla. We performed piecemeal resection of the tumor with a duodenoscope (TJF-290V; Olympus Medical Systems). We closed the mucosal defect using double-
wire-guided closure with a re-openable clip. If the re-openable clip inadvertently gripped the ulcer base of the mucosal defect, it could be re-opened and re-closed to completely close the defect on both sides. Since two wires were intubated into the pancreatic and bile ducts, respiratory movement was prevented, and the re-openable clip could be easily positioned. Subsequently, pancreatic and bile duct stents were inserted. The mucosal defect was completely closed (▶Fig. 1, ▶Video 1). The patient was discharged without any adverse events. Double-wire-guided closure with re-openable clips can reliably close the mucosal defect after endoscopic papillectomy before pancreatic and bile duct stents are inserted.

The authors

Tatsuma Nomura1,2, Shinya Sugimoto2, Toji Murabayashi1, Jun Oyamada2, Keiichi Ito1, Akira Kamei2
1 Department of Gastroenterology, Mie Prefectural Shima Hospital, Shima, Mie, Japan
2 Department of Gastroenterology, Ise Red Cross Hospital, Ise, Mie, Japan

Corresponding author

Tatsuma Nomura, MD
Department of Gastroenterology, Mie Prefectural Shima Hospital, 1257 Ugata, Shima, Mie 517-0595, Japan
m06076tn@icloud.com

Bibliography

References


Endoscopy

DOI 10.1055/a-1408-1572
ISSN 0013-726X
published online 2021
© 2021, 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

Competing interests

The authors declare that they have no conflict of interest.