Endoscopic full-thickness resection in the rectum closed with PolyLoop-and-clips method using single-channel endoscope

Endoscopic submucosal dissection (ESD) allows en bloc resection regardless of tumor size. It is an effective but technically demanding procedure, with perforation rates of about 5% [1]. Nevertheless, the safety profile is adequate, because almost all ESD complications can be managed endoscopically and the risk of surgery related to post-ESD complications (1%) is low [2]. The European Society of Gastrointestinal Endoscopy recommends the use of through-the-scope clips for iatrogenic perforations <10 mm and consideration of the use of the over-the-scope clip for defects >10 mm, nonetheless larger iatrogenic perforations or failed closure may require surgical repair [3]. Another purse-string suture technique to close the perforations using a dual-channel endoscope with a PolyLoop (Olympus, Tokyo, Japan) and clips has been described [4].

We present the case of a 65-year-old man with a 60-mm laterally spreading granular tumor, nodular mixed subtype, at the lower rectum. No deep submucosal invasion signs were observed. It was decided to perform ESD using a conventional technique owing to the presence of fibrosis. At the end of the procedure, the dissection plane was lost due to the patient’s intense breathing movements and Valsalva maneuvers, and full thickness resection was performed (Fig. 1). Bloc resection was completed. Then a PolyLoop attached to a clip inserted through the single-channel endoscope was introduced in parallel. After deploying the first clip, more clips were used to fix the borders of the PolyLoop to the borders of the target area to close (Video 1). The PolyLoop was then closed as well as the full-thickness defect (Fig. 2). There were no complications and the patient was discharged after 24 hours. Final histology was a 67-mm adenoma with high-grade dysplasia (HGD) with negative resection margins. AT 6 months a complete re-epithelialization of the mucosa was observed (Fig. 3). Endoscopic full-thickness resection of large lesions in the rectum might be feasible. Large defects could be closed with a PolyLoop-and-clips method using a single-channel endoscope.

Endoscopy_UCTN_Code_CPL_1AJ_2AD

Competing interests

The authors declare that they have no conflict of interest.
The authors

Edgar Castillo-Regalado1, Carlos Huertas2, Leyanira Torrealba2, Manuela Hombrados2, Montserrat Figa2, David Busquets2, Hugo Uchima2-3*

1 Gastroenterology Department, Hospital de Mataró, Mataró, Barcelona, Spain.
2 Gastroenterology Department, Hospital Universitari Dr. Josep Trueta, Girona, Spain.
3 Endoscopy Unit, Gastroenterology Department, Hospital Universitari Germans Trias i Pujol, Badalona, Barcelona, Spain.

Corresponding author

Hugo Uchima, MD
Endoscopy Unit, Gastroenterology Department, Hospital Universitari Germans Trias i Pujol, Carretera de Canyet s/n, 08916 Badalona, Barcelona, Spain
huchima.germanstrias@gencat.cat

References


Bibliography

Endoscopy 2022; 54: E24–E25
DOI 10.1055/a-1352-2356
ISSN 0013-726X
published online 19.2.2021
© 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