The Dortmund endoscopic full-thickness resection method: combination of the over-the-scope clip system and the Inoue cap

The over-the-scope clip (OTSC) system was developed for the closure of perforations and fistulas, and for the endoscopic therapy of gastrointestinal bleeding. Small mucosal and submucosal neoplastic lesions can be aspirated into the cap and, after releasing the clip, a “pseudopolyp” is created. This pseudopolyp located above the closed clip can then be resected using a polypectomy snare. However, placing a snare on the pseudopolyp may be difficult due to the shape of the clip. Herein, we present a dual technique using both the OTSC and the Inoue cap to accomplish endoscopic full-thickness resection (eFTR).

An 80-year-old patient who had undergone incomplete endoscopic resection (R1) of a 15-mm sigmoid colon polyp with carcinoma (SM1), underwent an eFTR of the remaining base of the lesion using this new technique. The procedure was performed 14 days after initial polypectomy. The steps of the technique were as follows. 1) The tissue was pulled into the cap of the OTSC (14/6t; Ovesco Endoscopy AG, Tübingen, Germany) using a grasping forceps to create a pseudopolyp. a) The tissue is pulled into the cap of the OTSC. b) The OTSC is released at the base of the pseudopolyp. c) The Inoue endoscopic mucosal resection kit (cap with snare) suctioning the pseudopolyp above the clip. d) The bowel base after resection.

The size of the resection specimen was 25 mm. Histological analysis did not reveal any carcinoma in the lateral or vertical margins of the lesion. The patient recovered well and surgery was thus avoided.

Endoscopy_UCTN_Code_CPL_1AJ_2AD

Competing interests: None

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Bibliography
DOI http://dx.doi.org/10.1055/s-0034-1377548
Endoscopy 2014; 46: E466
© Georg Thieme Verlag KG Stuttgart · New York
ISSN 0013-726X

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Fig. 1 Use of the Dortmund endoscopic full-thickness resection method, combining the over-the-scope clip (OTSC) system and the Inoue cap, following incomplete endoscopic resection of a sigmoid colon polyp. a) The tissue is pulled into the cap of the OTSC. b) The OTSC is released at the base of the pseudopolyp. c) The Inoue endoscopic mucosal resection kit (cap with snare) suctioning the pseudopolyp above the clip. d) The bowel base after resection.

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