Endoscopic resection of a large adenocarcinoma involving the appendix using a full-thickness resection device

The endoscopic treatment of adenomas involving the appendiceal orifice with endoscopic mucosal resection (EMR) or endoscopic submucosal dissection (ESD) is a big challenge, even for experienced endoscopists, because of the high risks of incomplete resection and perforation [1–3]. To date, these lesions have usually required surgical therapy, for example ileocecal resection. Endoscopic full-thickness resection (EFTR) using a full-thickness resection device (FTRD; Ovesco, Tübingen, Germany) was introduced in 2011. Since 2014, the device has had a Conformité Européene (CE) mark and been commercially available in Europe. The device has been well investigated in several studies [4, 5] and one indication for its use is lesions involving the appendix [4, 5].

We present the case of a large laterally spreading tumor (LST) invading the appendectomy site (Fig. 1). A staging computed tomography (CT) scan of the chest, abdomen, and pelvis did not reveal any distant metastases or other masses. The resection procedure was performed with the patient under deep sedation (continuous propofol infusion) without endotracheal intubation. The patient received prophylactic antibiotic therapy with intravenous ciprofloxacin and metronidazole.

The lateral margins of the lesion were marked with argon plasma coagulation (25 W; Erbe APC 300) (Fig. 2a). To facilitate the introduction of the FTRD, a stiff guidewire was left in the cecum (Jagwire Guidewire ST Stiff; Boston Scientific) (Fig. 2b). The over-the-scope clip (OTSC) device was mounted on the tip of the colonoscope (EC 760 R; Fujifilm). The target lesion was grasped and pulled into the cap using grasping forceps (Fig. 2c) and EFTR was performed (Fig. 2d; Video 1).

After the procedure, the patient developed acute appendicitis 12 hours later, which was treated conservatively with...
medical therapy. Histology subsequently revealed a carcinoma in situ (▶Fig. 3).

The risk of acute appendicitis after the closure of the appendiceal orifice with the FTRD is real and conservative treatment is certainly the best therapeutic choice. We are firmly convinced of the importance of the discussion with the patient prior to this procedure and of multidisciplinary management.

Endoscopy_UCTN_Code_TTT_1AQ_2AD

Competing interests

None

The authors

Gianluca Andrisani, Francesco Di Matteo
Digestive Endoscopy Unit, Campus Bio-Medico, Rome, Italy

Corresponding author

Gianluca Andrisani, MD, PhD
Digestive Endoscopy Unit, Campus Bio-Medico, University of Rome, via Alvaro del Portillo 200, 00128 Roma, Italy
gianluca.andrisani@gmail.com

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DOI https://doi.org/10.1055/a-0919-4249
Published online: 1.7.2019
Endoscopy 2019; 51: 1181–1182
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Stuttgart · New York
ISSN 0013-726X