Use of an over-the-scope clip for endoscopic sealing of anastomotic dehiscence after anterior resection for rectal cancer

Oncological colo-rectal surgery may be complicated by anastomotic leakage, especially in patients who have undergone anterior resection for distal cancer. Occurring in up to 20% of such patients [1], anastomotic leakage usually requires emergency intervention with a prolonged hospital stay, adversely affects both long-term survival and quality of life, and may result in the need for a permanent stoma [1,2].

Here, we report the case of a 72-year-old woman presenting with fever 15 days after undergoing a laparotomy with anterior resection of the rectum, total mesorectal excision, and Knight-Griffen reconstruction for distal rectal adenocarcinoma (pT4N1M0 G2). Computed tomography revealed a 4-cm para-anastomotic abscess (Fig. 1). Proctosigmoidoscopy confirmed a 12-mm orifice along the right edge of the rectal anastomosis, 3 cm from the pectinate line (Fig. 2). Based on the size and position of the leak, it was decided to place an over-the-scope clip (OTSC; Ovesco Endoscopy, Tübingen, Germany) for dehiscence sealing.

First, the endoscope was withdrawn, and an OTSC with a 6-mm depth and pointed teeth was mounted on its tip [3]. Afterward, an “anchor” device (Ovesco) was advanced through the working channel of the scope toward the leak edges. Maneuvering the scope with gentle axial turning allowed correct placement of the anchor (Fig. 3); then, the anchor was pulled into the distal cap of the OTSC system under continuous suction. The OTSC was deployed after more than half of the volume of the clear distal cap was filled with tissue, as previously described [4]. The OTSC setup took about 3 minutes, after which endoscopic views revealed complete closure of the leak despite maximal insufflation (Fig. 4 and Fig. 5). A few hours later, a laparotomy with peritoneal lavage was performed to drain the pelvic abscess, with two peritoneal drains left in place. The patient’s clinical condition quickly improved, and spontaneous bowel movements resumed 72 hours later. Accordingly, the patient was discharged 7 days later.

This case is interesting for several reasons. First, we have for the first time demonstrated the use of an OTSC to manage a distal rectal dehiscence and have also provided a detailed description of the procedure, which may be helpful in future cases. Second, we have shown that the endoscopic sealing of a distal rectal anastomotic dehiscence is feasible, and combined with...
a conservative surgical approach, it can avoid the need for a redo anastomosis or a permanent stoma. Finally, our report adds to the growing literature on the potential applications of OTSCs [4,5]. Indeed, the recently introduced OTSC system provides a practical alternative for the treatment of low rectal anastomotic leakage, in which standard surgical approaches are associated with considerable risks and require aggressive strategies.

Competing interests: None

References


Bibliography

DOI http://dx.doi.org/10.1055/s-0034-1391875
Endoscopy 2015; 47: E278–E279
© Georg Thieme Verlag KG
Stuttgart · New York
ISSN 0013-726X

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