Successful closure of a colon perforation via the over-the-scope-clip system after accidental ingestion of a fish bone

Bowel perforation due to accidental ingestion of foreign bodies is rare, and large-bowel perforation is rarer [1]. An 87-year-old man was admitted for removal of a foreign body in the colon, which was detected incidentally on computed tomography (CT) following penetration of the sigmoid colon (Fig. 1). The foreign body was not detected on radiography. As the patient had no symptoms or abdominal rigidity, we planned to remove the foreign body endoscopically (Video 1).

On endoscopy, the foreign body was identified to be a fish bone with a sharp end; the point of penetration corresponded with its sharp end (Fig. 2). We pulled the bone in the oral direction and removed it using grasping forceps. After removal, a deep ulcer formed following mucosal edema (Fig. 3). We decided to close the ulcer using the over-the-scope-clip (OTSC) system (Ovesco Endoscopy AG, Tübingen, Germany), as regular clipping was not possible. Endoscopic double-grasping forceps (“twin-grasper”) could not grasp the tissue because the ulcerated area was too inflamed and friable. Eventually, we suctioned and pulled the colon mucosa into the hood of the OTSC system, focusing on the central point of penetration. The OTSC was applied and successfully closed the perforation (Fig. 4). CT showed the metal clip in the sigmoid colon and no complications (Fig. 5). The patient was thus treated conservatively.

Accidental ingestion of foreign bodies is a common reason for hospital visits. If the foreign body is sharp, as with the fish bone, the penetration is generally 15%–35% deep [2]. For colon perforations, the OTSC has been shown to be comparable to surgical closure in an animal model [3]. Even for acute gastrointestinal wall defects in humans, such as nonsurgical perforations and postoperative anastomotic leaks or perforations, the OTSC has been reported to be effective in > 75% of patients [4].
Competing interests

None

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DOI https://doi.org/10.1055/a-1024-3373
Published online: 25.10.2019
Endoscopy 2020; 52: E126–E127
© Georg Thieme Verlag KG
Stuttgart · New York
ISSN 0013-726X

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