Endoscopic treatment of esophageal intramural abscess caused by embedded metal clip: a rare delayed complication of endoscopic submucosal dissection

Endoscopic submucosal dissection (ESD) is indicated for the treatment of superficial digestive tract cancers [1]. Bleeding and perforation are common complications of ESD. Metal clips have often been used for endoscopic closure of mucosal defects or exposed vessels, in order to reduce the risk of complications. After ESD, most metal clips fall off spontaneously.

We present the case of a 61-year-old man who underwent ESD for early esophageal cancer at the left wall of the middle esophagus, with two clips used for endoscopic closure of a small perforation (▶Fig. 1a, b). In the 3 months after ESD, the patient complained of nausea and vomiting without fever or chest pain. He was referred to our hospital.

The endoscopic examination showed pus flowing from a fistula in the middle of the esophagus (▶Fig. 1c). The patient underwent esophageal barium contrast radiography, which revealed outer compression with a metal clip mimicking an esophageal stricture (▶Fig. 1d). A chest computed tomography scan was then performed, and showed wall thickening in the middle esophagus with a radio-dense foreign body of metal density embedded in the wall (▶Fig. 1e). Endoscopic ultrasound was also performed, and showed heterogeneous echo occupation of the esophageal wall with local hyperechoic change (▶Fig. 1f) [2].

For treatment, we performed endoscopic incision of the wall of the esophageal intramural abscess using a Dual-Knife (Olympus, Tokyo, Japan), which exposed the tip of the embedded clip with outflowing pus. Subsequently, the clip was successfully removed from the esophageal wall using a foreign body forceps (▶Fig. 2a–d, Video 1) [3]. The patient was discharged with no further symptoms after 3 days of intravenous antibiotic treatment.
Remnant metal clip buried in the esophageal wall after ESD and leading to esophageal intramural abscess is rare. To our knowledge, this is the first report of endoscopic removal of a metal clip that was totally embedded in the esophageal wall.

**Competing interests**

None

**References**


**Bibliography**

DOI https://doi.org/10.1055/a-0584-6323
Published online: 22.3.2018
Endoscopy 2018; 50: E134–E135
© Georg Thieme Verlag KG
Stuttgart · New York
ISSN 0013-726X

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