A 67-year-old female patient was evaluated at the Hepatogastroenterology Department for the management of a chronic tracheoesophageal fistula. She had previously undergone a right lobectomy for congenital bronchiectasis, an aortic valve replacement, and a laparoscopic Heller myotomy with Toupet fundoplication for achalasia. In the past, she had also been admitted to the intensive care unit several times because of respiratory tract infections that required mechanical ventilation.

An upper endoscopy showed a 6-mm fistulous orifice in the upper third of the esophagus. Argon plasma coagulation was applied and the tract was closed using EZ clips (Olympus Medical Corp., Tokyo, Japan) and Endoloops (Olympus). Her symptoms persisted and a second treatment was attempted. A fully covered metal stent was first placed in the airway. The borders of the fistular opening were then dissected in order to create a submucosal virtual space and a mucosal flap without tension (Video 1). The incision was started using a FlexKnife (Olympus), and then an IT-Knife (Olympus) was employed to continue the dissection with circular movements (Fig. 1) and retroflexion. A two-channel gastroscope was used to place two round pieces of 25-mm biological mesh (Surgisis; Cook Medical, Dublin, Ireland) into the previously created space. This maneuver was performed using grasping forceps (Fig. 2). The mesh was fixed using EZ clips 90° and four 20-mm Endoloops (Fig. 3), under the mucosal flap.

The patient successfully restarted oral food intake and was discharged. Upper endoscopy and bronchoscopy confirmed the closure of the orifice during the subsequent 8 months.

There are currently multiple endoscopic options available for the treatment of tracheoesophageal fistulas, with an overall success rate of 84% [1]. Only one case report has described the use of mucosal resection [2]. Biosynthetic mesh is frequently used in the surgical repair of multiple defects. However, endoscopic placement of mesh for tracheoesophageal fistula has only been described once, where it was deployed from the respiratory tract and achieved a complete closure of the orifice [3]. The case reported here describes a new endoscopic approach to tracheoesophageal fistulas that should be considered as an alternative in the management of these challenging cases.

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