Endoscopically guided percutaneous suturing to facilitate closure of a large gastrocutaneous fistula with an over-the-scope clip

Persistent gastrocutaneous fistula (GCF) after percutaneous endoscopic gastrostomy (PEG) tube removal is an uncommon complication [1]. Advances in endoscopy have enabled endoscopic closure of these defects with a multitude of modalities, including argon plasma coagulation (APC), endoscopic suturing, and over-the-scope clips (OTSCs) [2–4]. Percutaneous endoscopic suturing has recently been described for closure of GCF (Fig. 1, Video 1) [5].

We describe the case of a 24-year-old man with a history of acquired immunodeficiency syndrome and disseminated Mycobacterium avium complex, who was not compliant with medical treatment. For 6 months he had experienced increasing discharge from a former PEG site (the PEG tube had been removed 10 years previously). On upper endoscopy he had a large GCF (Fig. 2). APC was applied to the fistula tract and surrounding tissue (Fig. 3). Two interrupted sutures were used to close the defect using the overstitch device (Apollo Endosurgery, Austin, Texas, USA). The was no evidence of a leak from the cutaneous side of the fistula after closure. The patient resumed a full diet and was placed on acid suppression therapy.

He re-presented 2 weeks later with recurrent leakage from the GCF. On upper endoscopy, the GCF had reopened and the sutures had loosened (Fig. 4). APC was again applied to the GCF. Then, two
percutaneous endoscopic sutures were used to close the GCF (Fig. 5). After suturing, the edges of the fistula were more closely approximated; however, the fistula remained open (Fig. 6). An OTSC was used to close the fistula, as it was now possible to bring the edges of the fistula into the cap of the OTSC delivery device. There had been no further leakage from the GCF 12 months following the closure.

In large GCFs, percutaneous endoscopic suturing can facilitate the apposition of the gastric mucosal surface to allow complete closure of the fistula tract with an OTSC.

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Competing interests

Dr. Khashab is a consultant and is on the medical advisory board for Boston Scientific and Olympus. Dr. Kumbhari is a consultant for Boston Scientific, Apollo Endosurgery, ReShape Life Sciences, and Medtronic.

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