An endoscopic salvage procedure for the treatment of regurgitation occurring after an unsuccessful esophagectomy with gastric tube reconstruction and subsequent colonic bypass surgery

Anastomotic leaks and strictures after esophagectomy are associated with high morbidity and mortality [1,2]. We present here a patient who had a subtotal esophagectomy with gastric interposition because of esophageal adenocarcinoma. Anastomotic leakage occurred and was treated by endoscopic applications of fibrin glue. One month after discharge she was unable to resume normal oral feeding and her body weight stabilized. This endoscopic approach has not been described in the published literature before. It represents a useful alternative for the treatment of this serious clinical situation.

References

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Fig. 1 A water-soluble contrast study and a schematic illustration key showing the gastric tube without filling of the colonic bypass (A, tracheal stent; B, esophagus proximal to the stenotic collar anastomosis; C, the gastric tube; D, location of the colonic bypass).

Fig. 2 a Upper gastrointestinal endoscopic image showing a sufficiently wide collar anastomosis of the side-to-side esophago-colostomy. b A stenotic collar anastomosis with a siphon-like anatomical configuration at the entrance to the gastric interposition.

Fig. 3 A water-soluble contrast study and a schematic illustration key showing the appearance after endoscopic de-epithelialization of the stenotic gastric tube and sealing with bucrylate and histoacrylate. An adequate efflux of the contrast medium without filling of the sealed gastric tube was achieved (A, tracheal stent; B, esophagus proximal to the stenotic gastric tube and sealing with bucrylate and histoacrylate). A stenotic entrance to the gastric interposition would most probably have led to further necrosis. The presence of the nasojejunal tube caused considerable psychological stress and impaired the patient’s quality of life. To enable her to recommence oral feeding, ascending colo-jejunal bypass surgery with collar side-to-side esophago-colostomy and intra-abdominal side-to-side colojejunostomy was performed 11 months after the initial operation, leaving the stenotic bypass in situ. The endoscopic control showed a wide anastomosis of the esophago-colostomy, but a siphon-like reservoir at the stenotic entrance of the gastric interposition led to regurgitation. We therefore performed an endoscopic closure of the esophagogastic anastomosis, with de-epithelialization of the stenotic gastric tube and sealing with bucrylate and histoacrylate. Control radiography showed adequate efflux without filling of the sealed gastric tube. She was able to resume normal oral feeding and her body weight stabilized. This endoscopic approach has not been described in the published literature before. It represents a useful alternative for the treatment of this serious clinical situation.