Dual esophageal and colon self-expanding metal stenting for colon cancer arising in esophageal interposition



Fig. 1 Endoscopic view showing a mass in the colonic interposition that was significantly occluding the lumen.



A 67-year-old man was referred for highgrade stenosis of the esophagus and metastatic adenocarcinoma. His relevant medical history included esophageal metastatic adenocarcinoma resected 10 years previously, for which he had undergone colonic interposition and chemotherapy. His risk factors included smoking one pack of cigarettes/day for over 20 years and consuming 2 ounces of alcohol/day for 30 years. He complained of progressive dysphagia to solids that had started 2 days before referral. An upper gastrointestinal series had been performed, which had been reported as a presumably malignant, high-grade stenosis of the distal esophagus adjacent to the esophagogastric junction, and he was therefore referred to our center.

Esophagogastroduodenoscopy (EGD) showed a normal esophagocolonic anastomosis and an 8×5-cm mass at the colonic interposition, which was partially occluding the esophageal lumen (> Fig. 1). A contrast esophagogram performed during the EGD showed a 4-cm area of stenosis in the mid and distal neoesophagus (> Fig. 2). Two self-expanding metal stents were inserted. The first, a fully-covered esophageal stent (12 cm in length), was placed at the cologastric anastomosis to prevent tumor ingrowth (> Fig. 3 a). The second, a non-covered colonic stent (10 cm in length), was placed proximally in a "stentin-stent" fashion to anchor the covered stent (**•** Fig. 3b, c). The stented area was endoscopically reassessed, and adequate expansion of the stents was confirmed (**•** Fig. 4). No complications arose; the patient's symptoms improved and he was discharged home the same day.

Colonic interposition replacing the esophagus was described by Kelling and Vuillet in 1911 [1,2]. It is currently used in both benign (for example, stenosis or iatrogenic fistulae) and malignant cases that warrant esophageal replacement. Acute complications include anastomotic dehiscence, fistula formation, interposed segment necrosis, and surgical site infection [3]. Longterm complications are less common, but include strictures, dumping syndrome, obstruction, gastrocolic reflux, diverticula formation, and rarely neoplasia [4,5].

Endoscopic palliation of neoplasia arising from colonic interposition is tricky, as esophageal stents do not have sufficient radial expansion to expand within a "colon" lumen. In our case, this difficulty was circumvented using a double-stenting technique that involved inserting first an esophageal stent and then a colonic stent to anchor the previous one, thereby ensuring adequate proximal expansion of the colon stent within the colonic-interposition neoesophagus.

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Fig.3 Radiographic images showing: **a** the esophageal stent after its deployment; **b** the colonic stent being deployed in a "stent-in-stent" fashion; **c** the colonic stent after its placement to anchor the esophageal stent.



Fig. 4 Endoscopic view of the stented area confirming adequate expansion of the stents.

Bibliography

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