A 51-year-old man with a history of laryngeal cancer requiring total laryngectomy and placement of a forearm skin graft into the hypopharynx developed a nonhealing gastrocutaneous fistula after removal of a gastrostomy tube (Fig. 1a). The injection of indigo carmine through the skin made it possible to determine the precise location of the 3- to 4-mm-diameter gastrocutaneous fistula within thickened gastric folds (Fig. 1b). A gastroscope could be passed into the stomach after an esophageal stenosis between the hypopharynx and upper esophageal sphincter, induced by radiation fibrosis and the presence of a forearm skin graft, had been dilated sequentially with 9-, 10-, and 12-mm Savary bougies; however, it was still not possible to pass the fistula-closing device, an over-the-scope clip (OTSC System; Ovesco Endoscopy, Tübingen, Germany), through the hypopharynx.

Contrast esophagography after the dilation procedure did not show any endoluminal esophageal damage, so an overtube (Guardus overtube-esophageal; inner diameter 16.7 mm, outer diameter 19.9 mm; US Endoscopy, Mentor, Ohio, USA) was inserted into the esophagus. The large-diameter overtube served as a “giant working channel,” allowing smooth passage of the scope with a large fistula-closing device, such as the OTSC System.

In summary, an impossible situation was converted into a therapeutic solution by combining the use of techniques and equipment widely available in the endoscopy suite, such as fluoroscopy, overtubes, dilation balloons, clipping devices, and chromoendoscopy.

The fistula was closed successfully (Fig. 1d). Closure was documented by administering water-soluble contrast through the endoscope. The overtube and endoscope were removed, and the additional administration of contrast at the hypopharynx and upper esophagus did not reveal any damage, leak, or extravasation.

This case is an example of “extreme endoscopy.” First, the complex fistula could be found by using interventional chromoendoscopy. The esophageal stricture was dilated, and an overtube was inserted into the stomach. The overtube served as a bridge of the upper esophageal stenosis, allowing smooth passage of the scope with a large fistula-closing device, such as the OTSC System.

In summary, an impossible situation was converted into a therapeutic solution by combining the use of techniques and equipment widely available in the endoscopy suite, such as fluoroscopy, overtubes, dilation balloons, clipping devices, and chromoendoscopy.

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