A 73-year-old man underwent a total gastrectomy plus splenectomy for a gastric adenocarcinoma (T3N1M0). At the early postoperative stage, the patient presented an esophagojejunostomy leak (>1cm diameter; Fig. 1a). Medical management and endoscopic treatment were considered first. A customized, partially covered biodegradable stent (Fig. 1b) (Ella Stent; ELLA-CS, Hradec Kralove, Czech Republic; diameter 31/25/31mm, length 110mm) was successfully placed under fluoroscopic and endoscopic guidance 5 weeks after surgery. At follow-up with endoscopic monitoring at 4 days (Fig. 1c, d), 20 days, and 2 months (Fig. 1e) after stent placement, adherence of each non-covered stent end (proximally and distally) was observed, as was an intrastent fold causing partial obstruction of the stent’s lumen. Balloon dilation up to 20mm was performed without incident, improving the luminal patency of the stent. The patient felt progressively better, and oral feeding was started after barium transit had shown nonleakage of the lumen with resolution of the dehiscence (Fig. 1f). Upper endoscopy 14 weeks later confirmed the total disappearance of the biodegradable stent and sealing of the anastomotic leakage. A granular appearance of the mucosa was identified in the area where the noncovered stent ends had adhered (Video 1). The patient had a favorable outcome and he is currently tolerating most kinds of food.

Anastomotic leakage of an esophagojejunostomy after total gastrectomy is a severe complication associated with high mortality. In this situation, the use of self-expanding metal stents (SEMSs), fully or partially covered, has been reported to have a high stent-related adverse event rate [1 – 3]. Partially covered biodegradable stents could overcome some of the problems encountered with SEMSs. Their main advantage over SEMSs is that endoscopic removal is not needed. But up to the present time, the only commercially available biodegradable stents are uncovered or fully covered [1 – 5].

Video 1

Customized, partially covered biodegradable stent for anastomotic leakage after total gastrectomy.
Endoscopy_UCTN_Code_TTT_1AO_2Al

Competing interests: None

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DOI http://dx.doi.org/10.1055/s-0034-1390864
Endoscopy 2015; 47: E137–E138
© Georg Thieme Verlag KG Stuttgart · New York ISSN 0013-726X

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