Successful endoscopic treatment using biological fibrin glue (Tissucol) for an enterocutaneous fistula occurring after cephalic duodenopancreatectomy

An enterocutaneous fistula is an abnormal communication between the small or large bowel and the skin, which leads to external drainage of intestinal contents. It is an important issue in surgical practice, as most cases occur secondary to surgical complications and cause significant morbidity owing to septic complications and cause significant mortality. Postoperative fistulas account for 75%–85% of all enterocutaneous fistulas. One-third of fistulas close spontaneously; the remainder require surgical intervention, with variable levels of success [1, 2]. Postoperative fistulas are frequently caused by surgical intervention, and we therefore opted to treat him endoscopically with biological fibrin glue (Tissucol Duo; Baxter).

A colonoscopy was performed, during which a guidewire was introduced through the fistula and visualized in the transverse colon (Fig. 1). Initially we attempted to close the defect with the over-the-scope clip (OTSC) system (Ovesco, Tübingen, Germany); however, because of the existence of fibrosis around the orifice, this was not successful. We therefore proceeded to debride the orifice and to seal the fistula with Tissucol (Fig. 1b), passing through the fistulous tract from the internal lumen to the skin (Fig. 2a).

The patient’s progress following this procedure was satisfactory. The fistula closed completely over the following 2 weeks, and there was no further leakage from the fistula. A year later there had been no recurrence (Fig. 2b).

Complete closure was achieved following one treatment session, hence we believe that this procedure could be useful in patients who are considered high risk for surgery and who have an enterocutaneous fistula that is accessible on endoscopy.

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