Case Report

Iatrogenic, postoperative enterocutaneous fistulas remain difficult to manage but common problem after gastrointestinal surgery. Surgical revision, after failure of conservative treatment, is not only partially efficient but also carries a high mortality risk, mainly due to patients’ general condition and usually multiples comorbidities. Because of that alternative minimally invasive techniques are extensively studied, but unfortunately the data are still confounding [1,2]. We present a case of 38 – y.o. man with past history of nephrolithiasis, accidentally diagnosed with 30 mm gastrointestinal stromal tumour of the duodenum (Figures 1a-1c).

Tumour resection with end-to-end anastomosis of transversal duodenum was performed, but the procedure was complicated by massive intraabdominal bleeding leading to acute pancreatitis and finally to enterocutaneous fistula forming. In course of treatment, the patient required five reoperations with Roux-en-Y resection and sewing patch on the fistula’s enteral orifice, but no one was efficient (Figures 2a & 2b). To avoid another reoperation we decided to perform endoscopic fistula closure by injection fibrin glue (Tisseel, Baxter) into the internal opening (Figures 3a-3c). Procedure was performed via catheter using standard Olympus videendoscope. We observed immediate fistula closing, and there were no early nor late complications related to the procedure. Patient was discharged after 67 days of hospital stay. After 11 months of follow-up patient remains cured (Figure 4). In conclusion, the fibrin sealant treatment is safer and much less invasive viable option, and it should be taken into account in selected cases [3]. It appears that fistula closure is more efficient if performed from the internal opening.
Figure 2a: Tumor of the duodenum and preformed resection scheme.

Figure 2b: Contrast enhanced multidetector multiphase computed tomography of the abdomen and pelvis showing solid tumor (Ø 30 mm) between duodenum and pancreas (anterior-posterior section) (arrow).

Figure 3a: Internal opening of duodenocutaneous fistula with catheter.

Figure 3b: Administration of fibrin sealant via catheter.

Figure 3c: Immediate fistula closing.

Figure 4: Abdominal wall after 11 months of follow-up.
References


