Infected pancreatic pseudocysts are serious complications of acute and chronic pancreatitis [1–3]. Endoscopic vacuum-assisted therapy (EVAT) is a reliable treatment for abscesses that are accessible endoscopically [4, 5]. We report the first case in which EVAT was used in the treatment of an infected pancreatic pseudocyst.

A 28-year-old woman was admitted with a severe inflammatory response syndrome (SIRS) due to a 20 cm infected pancreatic pseudocyst. We performed endoscopic ultrasound-guided transgastric puncture, dilated the transgastric access by balloon catheter (Olympus Medical Systems, Hamburg, Germany), and drained the pseudocyst using three 10-Fr double-pigtail endoprotheses (Medi-Globe, Achenmühle, Germany) and a nasocystic tube (PBD-21Z; Olympus, Tokyo, Japan).

Over the next 6 days, 1500 mL normal saline per 24 hours was continuously injected into the cyst via the nasocystic tube. On the second and fifth days after the initial drainage, we again dilated the transgastric access to 14 mm using a balloon catheter, intubated the cyst with the endoscope (GIF Q180, Olympus, Tokyo, Japan), and removed infected fluid and tissue in a Dormia basket (Endoflex, Voerde, Germany; Fig. 1). The cyst was therefore cleaned and the SIRS resolved; however, 7 days after the initial drainage, the pseudocyst had still not completely collapsed (Fig. 2).

We removed all the endoprotheses, dilated the access to 16 mm and started EVAT following insertion of the Endo-Sponge system (B. Braun, Melsungen, Germany). The size of the sponge was adjusted according to the local topography and placed into the cyst by means of a grasping forceps and guide wire (Jagwire; Boston Scientific, Miami, USA; Figs. 3 and 4). The suction tube was extended with a nasogastric tube and secretions were continuously evacuated with a suction of 120 mm Hg (16 kPa). All procedures were performed whilst the patient was under conscious sedation with midazolam and propofol.

The Endo-Sponge system was replaced on the third day. The wall of the cyst had become very well supplied with blood and

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demonstrated reddish granulation tissue without signs of infection (Fig. 5).

Throughout the period the patient received antibiotics and oral nutrition. On the seventh day, EVAT was completed by extracting the sponge without re-intubation of the cyst in order to maintain the cyst in its collapsed state. The gastrocystic fistula was closed by metallic clips (Olympus; Fig. 6).

No complications occurred during or within 8 weeks of therapy. In our opinion EVAT has the potential to become a new standard therapy for complicated infected pancreatic pseudocysts, because no further drainage of the cyst was necessary and the treatment of the infected pancreatic pseudocyst was completed during a single hospital stay.

References

Competing interests: None

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