Endoscopic transvaginal drainage and necrosectomy of presacral walled-off pancreatic necrosis

Transluminal drainage and necrosectomy has become the preferred choice of treatment for complicated walled-off pancreatic necrosis (WON). Transgastric, transduodenal, transrectal, and transcolonic approaches have been described [1–4], but in some cases the location of the WON prevents access through the gastrointestinal tract. We here describe a case of transvaginal drainage and necrosectomy.

The patient was a 50-year-old woman with Crohn’s disease and previous proctocolectomy. She underwent an endoscopic retrograde cholangiopancreatography (ERCP) for common bile duct stones. The procedure was complicated by severe post-ERCP pancreatitis. After 36 days, the patient developed a large WON surrounding the right kidney, extending into the pelvis and the right thigh (▶Fig. 1).

The WON was initially drained percutaneously as it was inaccessible from the gastrointestinal tract. After six video-assisted retroperitoneal debridement (VARD) procedures and continuous drainage via multiple percutaneous drains, the right-sided WON had resolved. A residual area of infected presacral necrosis was inaccessible for VARD; however, the patient developed a spontaneous fistula between this area of necrosis and the vagina. Vaginoscopy was performed using a therapeutic gastroscope (▶Video 1). Under fluoroscopic guidance, a contrast catheter with guidewire (VisiGlide2; Olympus, Hamburg, Germany) was introduced through the fistula into the area of necrosis. The fistula was balloon dilated to 10 mm and two 12-cm 7-Fr double-pigtail stents were inserted, along with a 7-Fr irrigation catheter (▶Fig. 2; ▶Video 1).

During three additional procedures, the vaginal fistula was gradually dilated up to 18.5 mm and extensive endoscopic necrosectomy was performed using polypectomy snares until the WON was free of debris. During the final procedure, two double-pigtail stents were inserted, which were removed 1 month later. The patient was discharged 81 days after the initial VARD procedure. Currently, 3 years after discharge, there has been no recurrence of the pancreatitis or pancreatic fluid collection and the patient has no vaginal complaints.

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Competing interests
The authors declare that they have no conflict of interest.

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References