We present a novel technique developed in our institution: repeated single-port transgastric debridement of walled-off pancreatic necrotic tissue using TriPort Access System (Olympus, Warsaw, Poland). After routine endotracheal intubation, gastric insufflation with a gastroscope is carried out to obtain approximation of the anterior gastric and abdominal walls. Percutaneous gastropexy is then carried out to stabilize the port insertion site. This is followed by a skin and fascial incision (1.5 – 2 cm) and opening of the anterior gastric wall (under gastroscopic view). The port introducer is inserted into the lumen of the stomach and the TriPort Access System (port) is securely positioned and fixed as recommended by the manufacturer (Fig. 1). From this point both anterior abdominal and anterior gastric walls are embraced by the port. The laparoscope is introduced and the posterior wall of the stomach is visualized; the gastroscope is retracted. Two 5-mm instruments are introduced: articulating grasper and LigaSure V Sealer/Divider (Valleylab, Covidien, Warsaw, Poland). Next, a 3 – 4-cm incision is made in the posterior wall of the stomach (optionally under ultrasound guidance) to enable extensive lavage and gentle debridement of the necrotic tissue under direct vision (Video 1). A Flocare tube (Nutricia Polska, Warsaw, Poland) is inserted and a drain is introduced and positioned in the lesser sac for continuous lavage (Fig. 2). The instruments are removed and the patient transferred to the intensive care unit with the port in place. Repeated explorations are now possible without endoscopic assistance. Opening of the port’s cap enables direct debridement with open surgery instrumentation (Fig. 3). Continuous lavage is also possible between revisions.

Video 1
Direct debridement of infected pancreatic necrosis during one of the revisions.
In summary, the presented innovative technique seems to be an effective approach (Fig. 4) for the treatment of walled-off pancreatic necrotic tissue in patients with acute pancreatitis. Compartmentalization of the necrotic tissue and extensive communication between the necrotic collection and the stomach have to be balanced against the potential for impaired gastric motility, strictures, or a chronic gastric fistula [1,2]. Studies comparing the feasibility, safety, and efficiency of this technique with other approaches are warranted [3,4].

**Competing interests:** None

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**References**