Percutaneous direct-endoscopic necrosectomy for walled-off pancreatic necrosis



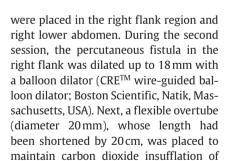
Fig. 1 A contrastenhanced computed tomography (CT) scan showed extensive walled-off pancreatic necrosis (WOPN): a upper abdomen, b pelvic region.







Fig. 2 Direct necrosectomy: **a** the flexible overtube was placed from the right flank region, **b** the gastroscope reached the pelvic floor.



Direct necrosectomy was performed using a gastroscope through the overtube. All the procedures were performed under intravenous anesthesia. The maximum duration of necrosectomy was 2 hours. Abundant solid and purulent necrotic material was removed using a snare, a basket catheter, and alligator forceps. At the end of each necrosectomy session, three drainage catheters (diameter 24Fr) were placed to maintain the fistula, and two irrigation catheters were also placed



Fig. 3 Three drainage catheters and two irrigation catheters inserted from the single fistula.

(**•** Fig. 3). After 11 necrosectomy sessions, the patient was discharged without complications.

Endoscopic necrosectomy via the percutaneous approach can be used as a treatment option if the WOPN is located adjacent to the abdominal wall.

We report a case where percutaneous

direct-endoscopic necrosectomy was suc-

cessfully used to treat walled-off pancre-

atic necrosis (WOPN) that could not be ac-

A 36-year-old woman with severe alcoholic pancreatitis was referred to our in-

stitute. The computed tomography (CT)

scan showed extensive WOPN (larger di-

ameter 26cm) spreading from the level of

the pancreas to the pelvic floor (> Fig. 1).

Citrobacter freundii was detected from the

aspiration fluid obtained from the WOPN.

Transluminal observation of the WOPN by

endoscopic ultrasonography was not pos-

sible, because of the presence of an in-

The patient initially underwent percuta-

neous drainage 17 days after the onset of

pancreatitis. A stent was placed in the

flammatory duodenal stricture.

cessed via the transluminal approach.

the cavity (Fig. 2).

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