Endoscopic ultrasound-guided pelvic abscess drainage using a dedicated, wide, flared-end, fully covered self-expandable metal stent

Endoscopic ultrasound (EUS) can be used to guide drainage of pelvic abscesses. Here, we present a case of successful pelvic abscess drainage using a dedicated, wide, flared-end, fully covered self-expandable metal stent (FCSEMS).

A 68-year-old woman was admitted to our hospital with a high fever that had not settled after 4 weeks of antibiotic use. She had a history of renal transplantation and use of immunosuppressant therapy. A computed tomography (CT) scan revealed a pelvic abscess with an air density of 7.5 × 7.4 cm (Fig. 1).

We attempted transrectal EUS-guided drainage of the abscess (Fig. 2). The abscess was punctured using a 19-gauge needle (EchoTip Ultra; Cook Japan, Tokyo, Japan), and a 0.025-inch guidewire (Visi-Glide 2; Olympus Medical Systems, Tokyo, Japan) was placed (Fig. 3a; Video 1). After the guidewire had been coiled in the abscess, the echoendoscope was withdrawn, leaving the guidewire in place. A forward-viewing, double-channel endoscope (GIF-2T240, Olympus) loaded with a conventional endoscopic retrograde cholangiopancreatography (ERCP) catheter (0120211; MTW Endoskopie, Wesel, Germany) was then introduced into the rectosigmoid junction over the guidewire, but it was not possible to dilate the needle tract using the ERCP catheter.

The needle tract was therefore dilated by a 6-Fr wire-guided diathermic dilator (Cysto-Gastro-Set; Endo-Flex GmbH, Voerde, Germany) using blended cut mode, and step-up dilation was performed using dilation catheters (Soehendra Biliary Dilation Catheter, SBDC-6 and SBDC-9; Cook Japan) (Video 1). A dedicated, wide, flared-end FCSEMS (NAGI stent, 1.6 × 3 cm; Taewoong-Medical Co. Ltd., Seoul, South Korea) and transrectal drainage catheter for irrigation were then successfully placed without complications (Fig. 3b, c; Video 1). The abscess immediately shrank to a size of 3.8 × 3.0 cm and the patient recovered well. Afterwards, the patient was able to receive further therapy for renal failure without the FCSEMS being removed.

EUS-guided pelvic abscess drainage, typically with single or double plastic stents, has been reported in eight case reports/
series [1–8]. To our knowledge, this is the first report of EUS-guided pelvic abscess drainage with a dedicated FCSEMS. A dedicated FCSEMS may be ideal for pancreatic or peripancreatic fluid collections and for treating pelvic or liver abscesses because of its antimigration features and the possibility of direct insertion through the endoscope [9,10].

**Competing interests:** None

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