Endoscopic ultrasound-guided drainage of an abdominal abscess using a lumen-apposing metal stent

Endoscopic ultrasound (EUS)-guided drainage using a lumen-apposing metal stent (LAMS) is an emerging technique for the treatment of peripancreatic fluid collections, acute cholecystitis in patients unfit for surgery, and malignant distal obstructive jaundice after failed endoscopic retrograde cholangiopancreatography (ERCP) [1]. Moreover, it is a promising treatment for the drainage of mediastinal, liver, and pelvic abscesses [2].

Here, we report the case of a 71-year-old man with advanced cancer of the pancreatic head who had had an uncovered self-expandable metal stent (SEMS) placed in the common bile duct to ensure biliary drainage. While undergoing chemotherapy, he developed septic shock and a computed tomography (CT) scan revealed a voluminous abdominal abscess (62 × 68-mm) adjacent to the major gastric curve.

An EUS-guided transgastric drainage was therefore performed. The collection was initially punctured with 19-gauge needle and 5 mL of purulent liquid was obtained for microbiological evaluation. A 15-mm × 10-mm LAMS (Hot Axios, Boston Scientific) was then deployed, with subsequent flow of purulent fluid into the gastric lumen (▶ Video 1). A multiresistant Klebsiella aerogenes was isolated from the culture and targeted antimicrobial therapy was started. A CT scan confirmed correct positioning of the stent (▶ Fig. 1) and his clinical condition rapidly improved.

A follow-up CT scan 10 days later confirmed resolution of the collection. The stent was therefore removed using retrieval forceps and an over-the-scope clip (OTSC 11/6-mm traumatic type; Ovesco, Tübingen, Germany) was placed to close the gastric hole completely. No extraluminal spread of contrast medium was observed. Moderate bleeding was however observed from the phlogistic tissue that was suctioned into OTSC, which stopped...
after an injection of tissue glue (N-butyl
acyanocrylate methacyloxy sulfolane). The patient remained in a satisfactory
clinical condition and he was discharged home the day after the procedure and re-
ferred back to recommence oncology treatment.
In conclusion, EUS-guided drainage of an abdominal abscess using a LAMS can be
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Competing interests

The authors declare that they have no con-

flict of interest.

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