Endoscopic management of stent displacement after pancreatic pseudocyst drainage

A 50-year-old man who had experienced acute alcoholic pancreatitis 2 years earlier presented with abdominal pain. An abdominal computed tomography (CT) scan revealed a pseudocyst, 16 × 8 cm in size, in the pancreatic tail (Fig. 1). After multidisciplinary discussion, the patient was referred for endoscopic pseudocyst drainage.

Transgastric puncture of the pseudocyst was performed using a 19-gauge fine-needle aspiration needle, under endoscopic ultrasound (EUS) guidance. A 0.035-inch guidewire was advanced through the needle and the tract was dilated to 6 mm. A fully covered double-flanged metal stent (40 × 14 mm) was then deployed across the tract under endoscopic, EUS, and fluoroscopic guidance. The deployment was complicated by complete intracystic migration of the stent. We decided to place a fully covered biliary metal stent (60 × 10 mm) in an attempt to save the performed cystogastrostomy, and planned to retrieve the migrated stent at a later time. The patient was discharged with no symptoms. The patient was readmitted to our department 1 week later with fever and upper abdominal pain. Abdominal CT scan showed complete migration of the two stents into the pseudocyst cavity (12 × 6 cm) (Fig. 2).

Under endoscopic, EUS, and fluoroscopic guidance, we placed another fully covered double-flanged metal stent (40 × 14 mm) through the patent cystogastrostomy (Fig. 3). The two intracystic migrated stents were then removed through the third stent using a foreign body forceps. Effective drainage of the pseudocyst was observed and the patient became asymptomatic (Video 1).

At follow-up 1 month later, after an abdominal CT scan showed complete resolution of the pseudocyst (Fig. 4), the stent was removed endoscopically (Fig. 5).
Fig. 2  Abdominal computed tomography scan in axial view showing complete migration of the first two stents into the pseudocyst cavity.

Fig. 3  Fluoroscopic image showing the third stent through the cystogastrostomy and the first two stents in the pseudocyst cavity.

Fig. 4  Abdominal computed tomography scan. a Coronal view, showing a correctly positioned fully covered double-flanged metal stent. b Axial view, showing complete resolution of the pancreatic pseudocyst.
Intracystic stent migration is a rare (<1%) complication of endoscopic drainage. It seems to be more frequent in transgastric drainage of pseudocysts of the pancreatic tail owing to variable luminal compression during the creation of cystogastrostomy [1].

We propose an alternative endoscopic method to solve intracystic stent migration, avoiding surgery [2].

References


Competing interests

None

The authors

Juliana M. Costa1, Bruno M. Gonçalves1, Rita S. Costa1, Filipa Costeira2, Nuno Dias1, Raquel Gonçalves1, João B. Soares1
1 Department of Gastroenterology, Hospital de Braga, Braga, Portugal
2 Department of Radiology, Hospital de Braga, Braga, Portugal

Corresponding author

Juliana M. Costa, MD
Gastroenterology Department, Hospital de Braga, Sete Fontes – São Victor, 4710-243 Braga, Portugal
Fax: +35-253-027999
julianamcosta87@gmail.com

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Fig. 5 Endoscopy image showing collapsed perigastric cavity consistent with complete resolution of the pseudocyst.