Successful retrieval of a migrated stent in the pancreatic duct after endoscopic ultrasound-guided pancreaticogastrostomy with peroral pancreatoscopy

Plastic stents are placed at anastomosis sites after endoscopic ultrasound-guided pancreaticogastrostomy (EUS-PGS) [1, 2]. Straight plastic stents have better pushability than double-pigtail plastic stents but are more prone to migrate. We report a case of a straight plastic stent that migrated into the pancreatic duct (PD) and was successfully retrieved. It had been placed during EUS-PGS. The distal end was located at the tail side of the puncture point and was successfully retrieved using the guidewire technique by peroral pancreatoscopy (POPS).

A 68-year-old man underwent pancreatecoduodenectomy for distal bile duct cancer and repeated acute pancreatitis due to PD stricture and stones from alcoholic chronic pancreatitis. While attempting double-balloon endoscopic retrograde cholangiopancreatography for PD drainage, EUS-PGS was performed because an intestinal perforation had occurred at a previous institution.

Double-pigtail plastic stents and straight plastic stents were exchanged every 3 months after EUS-PGS. However, a straight plastic stent migrated into the PD (Fig. 1). The distal end moved from the puncture point toward the pancreatic tail side (Fig. 2). To retrieve it, a guidewire was inserted through the side hole of the flap on the jejunal end of the stent using POPS. Subsequently, the POPS scope was pushed to move the stent into the jejunum. Finally, the stent was completely pushed into the jejunum, and POPS was used to examine the distal end. The stent was successfully retrieved by grasping its distal end with a snare and pulling it back (Video 1).

This may be the first case report describing a migrated straight plastic stent in the PD that was retrieved through the EUS-PGS route from the gastric side [3–5]. Retrieving a migrated plastic stent from the PD is challenging, even when the distal end of the stent is proximal to the puncture point. Using various devices and techniques with POPS led to...
successful removal in a difficult case of a migrated pancreatic stent.

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Conflict of Interest

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The authors

Sho Takahashi¹, Ko Tomishima¹, Yusuke Takasaki¹, Akinori Suzuki¹, Shigeto Ishii², Toshio Fujisawa¹, Hiroyuki Isayama¹

¹ Department of Gastroenterology, Graduate School of Medicine, Juntendo University, Tokyo, Japan

Corresponding author

Hiroyuki Isayama, MD, PhD
Department of Gastroenterology, Graduate School of Medicine, Juntendo University, 2-1-1 Hongo, Bunkyo-Ku, Tokyo 113-8421, Japan
hin-isayama@juntendo.ac.jp

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