A 44-year-old woman underwent pancreatic sphincterotomy with placement of a 5-Fr, 3-cm pancreatic duct stent (Geenen Sof-Flex; Cook Endoscopy, Winston-Salem, NC, USA). The stent did not pass spontaneously and migrated upstream (Fig. 1). Attempts to grasp the stent with a pediatric biopsy forceps failed (Fig. 2), but inadvertently advanced the stent toward the pancreatic tail. A 0.018-inch wire was advanced through the stent lumen. A 5-Fr stent retriever was not available. Attempts to retrieve the stent with over-the-wire snare and basket failed (Fig. 3). Finally, a 5–4–3-Fr biliary catheter (Contour; Boston Scientific, Marlborough, MA, USA) was forcefully wedged into the stent lumen (Fig. 4). The stent was withdrawn (Video 1).

Retrieval of proximally migrated pancreatic duct stents can be technically difficult despite the variety of accessories available [1–3]. Pancreatostomy-assisted removal is limited when the pancreatic duct is small [4]. Endoscopic ultrasound-guided transgastric pancreatic puncture is also an option [5].

We believe our technique was successful because the stent material was pliable and expandable, allowing the catheter to wedge into the stent. This provided sufficient axial tension to securely retrieve the stent.

Endoscopy_UCTN_Code_CPL_1AK_2AG

Funding

National Institutes of Health
T32DK007634

Theodore W. James receives research and training support by a grant from the National Institutes of Health (T32DK007634). Todd H. Baron declares no relevant funding for this work.

Competing interests

Theodore W. James declares that he has no conflict of interest.
Todd H. Baron: Boston Scientific, Olympus, Cook Endoscopy.

The authors

Theodore W. James, Todd H. Baron
Division of Gastroenterology and Hepatology, University of North Carolina, Chapel Hill, North Carolina, United States
Fig. 4 Radiographic image with a 5–4–3-Fr catheter wedged inside the stent lumen. The radiopaque tip is seen inside the stent. The stent was withdrawn from the duct leaving the wire in place. A prophylactic pancreatic duct stent with external pigtail was placed at the end of the procedure.

Video 1 Removal of a proximally migrated 5-Fr pancreatic stent with a 5–4–3-Fr catheter using a wedge technique.

Corresponding author
Todd H. Baron, MD
130 Mason Farm Road, CB 7080, Chapel Hill, NC 27599-0001, United States
Fax: +1-994-974-0744
todd_baron@med.unc.edu

References


Bibliography
DOI https://doi.org/10.1055/a-1089-7252
Published online: 2020
Endoscopy
© Georg Thieme Verlag KG
Stuttgart · New York
ISSN 0013-726X

ENDOSCOPY E-VIDEOS
https://eref.thieme.de/e-videos

Endoscopy E-Videos is a free access online section, reporting on interesting cases and new techniques in gastroenterological endoscopy. All papers include a high quality video and all contributions are freely accessible online.

This section has its own submission website at https://mc.manuscriptcentral.com/e-videos