Endoscopic pancreatic stenting for symptomatic strictures is beneficial to patients with chronic pancreatitis [1]. However, stent-related problems occur, including migration and immobility, which are more serious for pancreatic stents than for biliary stents because the pancreatic duct bends and is narrow [2]. We encountered a rare case with a pancreatic stent that could not be removed using forceps and was successfully retrieved using a novel thin-tipped balloon catheter.

A 77-year-old man with chronic pancreatitis was admitted for abdominal pain caused by a severe main pancreatic duct stricture. A 7-Fr plastic stent (Boston Scientific Corporation, Marlborough, Massachusetts, USA) was placed and his symptoms improved (▶Fig. 1). Endoscopic retrograde cholangiopancreatography (ERCP) was performed 3 months later to retrieve or exchange the stent. However, when we attempted to remove the stent with forceps, resistance was encountered, the stent did not move and part of it tore off (▶Fig. 2). This was probably associated with the severity and length of the stricture, and stent degradation. After the lumen of the stent had been cannulated with a 0.025-inch guidewire, a novel balloon catheter with a thinner tip (REN Biliary Balloon Dilatation Catheter; 4-mm wide, 30-mm long; Kaneka Corporation, Osaka, Japan) was inserted, inflated inside the stent, and we attempted to pull the stent down (▶Fig. 3). The stent was successfully retrieved without any adverse events (▶Video 1).

Although rare, an immovable pancreatic stent can be a major complication. Removal using forceps can tear off a plastic stent that is immobile and perishing. The novel balloon catheter used to retrieve the stent from this patient has a tapered and thinner 3-Fr tip that is of adequate rigidity (▶Fig. 4) [3]. Hence, when forceps cannot remove a pancreatic stent, balloon retrieval should be attempted, and the aforementioned thin-tipped balloon catheter may be more suitable for this procedure than other conventional balloon catheters.

Competing interests

None
Video 1: The pancreatic stent could not be removed using forceps and part of it tore off. After a guidewire had been inserted, a balloon dilation catheter with a thinner tip was inserted and inflated inside the stent. The catheter was then pulled down, and the stent was successfully removed through the scope.

Fig. 2 Images from an attempt to remove the pancreatic stent 3 months after its placement showing: a failure to remove the stent with forceps; b the remnant of the stent after part of it had torn off; c the torn-off section of stent present in the duodenal bulb.
References


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DOI https://doi.org/10.1055/s-0043-106734
Endoscopy 2017; 49: E157–E159
© Georg Thieme Verlag KG
Stuttgart · New York
ISSN 0013-726X

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