Balloon extraction for the endoscopic removal of proximally migrated pancreatic stent

A 33-year-old man underwent endoscopic retrograde cholangiopancreatography (ERCP) for removal of stones in the pancreatic duct. The stones were removed successfully and a plastic pancreatic duct stent (7 Fr, 10 cm; Wilson-Cook, Winston-Salem, North Carolina, USA) was placed in the pancreatic duct to prevent post-ERCP pancreatitis and obstruction. The patient was admitted 6 months later complaining of abdominal pain. His serum amylase was 118 U/L. ERCP confirmed that the bile duct was not dilated (≤6 mm) but the stent had migrated proximally within the pancreatic duct (Fig. 1). Unfortunately, the stent could not be retrieved due to difficult pancreatic duct cannulation as a result of distal pancreatic duct obstruction by stones and the stent (Fig. 2). A second ERCP procedure was attempted 3 days later. After pancreatic papillotomy using a needle knife (Wilson-Cook), a guidewire was successfully inserted to the point of stricture by passing it through the stent. First, a basket was used to remove the stones from the pancreatic duct (Fig. 3). An extraction balloon (Wilson-Cook) was then inserted over the guidewire to the proximal tip of the stent. The balloon was partially inflated within the pancreatic duct, and withdrawn carefully until the stent could be seen at the ampulla of Vater (Video 1). The stent could then be retrieved by a grasping forceps. The patient’s symptoms resolved after this procedure. Although many devices (basket, snare, and grasping forceps) have been reported to be useful for endoscopic retrieval of proximally migrated pancreatic stents [1–5], we still prefer to try balloon extraction first in order to minimize the mechanical injury to the pancreatic duct [3].

Competing interests: None

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References


Bibliography
© Georg Thieme Verlag KG
Stuttgart · New York
ISSN 0013-726X

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