Ductal hypertension is regarded as one of the drivers of chronic pancreatitis-related pain and has therefore been the main target of therapy. Although previous randomized controlled trials have supported surgical decompression, endoscopic therapy of symptomatic chronic pancreatitis has undergone a true revolution over the past decade [1]. The advent of digital single-operator pancreatoscopy (DSOP) and endoscopic ultrasound-guided pancreatic drainage have radically changed our endoscopic approach, which is now aimed at complete ductal clearance [2–4].

A 62-year-old patient with a history of smoking and alcohol abuse was referred to our center following chronic recurrent episodes of upper abdominal pain. Abdominal computed tomography revealed extensive calcifications in the head of the pancreas with an acute component of pancreatitis and a large obstructive, cylindrical stone (▶ Fig. 1). Intermittent discomfort persisted and magnetic resonance imaging showed clear retro-obstructive dilation of the main pancreatic duct (MPD), without signs of malignancy (▶ Fig. 2). Owing to persisting symptoms and as the lesion proved unsuitable for extracorporeal shock wave lithotripsy, primary endoscopic treatment was proposed.

Under general anesthesia, the duodenoscope was introduced and showed an impacted stone at the level of the papilla (▶ Fig. 3). Balloon extraction and MPD cannulation alongside the stone were attempted; both proved unsuccessful (▶ Video 1). As the impacted stone protruded into the duodenum, intraluminal electrohydraulic lithotripsy was deemed suboptimal. The decision was therefore made to extract the stone using a polypectomy snare. To improve traction, a right hemi-ampullectomy was required, after which the large MPD stone (15 × 8 mm) was evacuated transorally (▶ Fig. 4). DSOP-assisted electrohydraulic lithotripsy (▶ Fig. 5), 6-mm balloon dilation, and stone extraction with a basket were performed without complications, followed by biliary (60 × 10 mm covered self-expandable metal stent) and MPD (8.5 Fr) stenting.

Our case illustrates the usefulness of snare-assisted treatment of impacted MPD stones, and highlights the multimodal treatment occasionally required to achieve complete ductal clearance.

Endoscopy_UCTN_Code_TTT_1AR_2AH

Competing interests

Michiel Bronswijk has received grants from Prion Medical, Taewoong, and Takeda, and has consultancy agreements with Prion Medical and Taewoong. Schalk van der Merwe holds the Cook and Boston-Scientific chair in interventional endoscopy and holds consultancy agreements with Cook, Pentax, and Olympus. Diederik Persyn and Philip Caenepeel declare that they have no conflict of interest.
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Endoscopy
DOI 10.1055/a-1540-6319
ISSN 0013-726X
published online 2021 © 2021. Thieme. All rights reserved.
Georg Thieme Verlag KG, Rüdigerstraße 14, 70469 Stuttgart, Germany

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