A 38-year-old man with chronic pancreatitis caused by heavy alcohol consumption presented with recurrent abdominal pain due to underlying pancreatic duct calculi and stricture of the main pancreatic duct (Fig. 1a). Endoscopic cholangiopancreatography (ERCP) was performed and a plastic pancreatic stent was inserted, which relieved the pain. Attempts at stricture dilation with a dilation balloon (Fig. 1b) and insertion of multiple plastic stents, and fragmentation of the pancreatic duct stones by extracorporeal shockwave lithotripsy (ESWL) were unsuccessful.

A 6×90-mm fully covered self-expandable metal stent (FCSEMS) designed for pancreatic duct drainage (Niti-S Bumpy Pancreatic Stent; Taewoong Medical, Gyeonggi-do, South Korea) was therefore inserted to dilate the stricture (Fig. 1c). When the FCSEMS was removed 3 months later the stricture had resolved and ERCP with intraductal pancreatoscopy (Spyglass; Boston Scientific Corp., Marlboro, Massachusetts, USA) and Holmium-yttrium aluminum garnet laser lithotripsy could be successfully performed (Fig. 1d; Video 1). There were no procedure-related complications.

The limited data on the use of laser lithotripsy for pancreatic duct calculi have suggested it may be safe and effective. A US multicenter study with 28 patients reported successful resolution in 79% of patients, with one episode of post-ERCP pancreatitis [4]. In our patient, both FCSEMS placement and pancreatoscopy with laser lithotripsy were required to achieve successful endoscopic therapy.

Competing interests

None

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Video 1: Endoscopic cholangiopancreatography is performed with balloon dilation of a pancreatic stricture followed by insertion of a fully covered self-expandable metal stent. After subsequent removal of the stent, intraductal pancreatoscopy with laser lithotripsy is performed and the stone is successfully extracted.