A 77-year-old man was admitted with severe abdominal pain. His laboratory tests and abdominal ultrasound revealed an acute-on-chronic pancreatitis, with a dilated main pancreatic duct (MPD) up to 10 mm and multiple stones causing the symptoms (▶Video 1).

The patient was therefore scheduled to undergo endoscopic retrograde cholangiopancreatography (ERCP) of the MPD, and this confirmed the ultrasound findings. In addition, a high grade stenosis of the MPD was observed in the corpus and a 0.018-inch guidewire could not be passed beyond this under fluoroscopy guidance. On the basis of these findings, a digital single-operator pancreatoscopy (SOP; SpyGlass DS, Boston Scientific, USA) was performed. The pancreatoscope was negotiated into the MPD verifying the presence of the intraductal stones and that the stenosis of the MPD was caused by a membranous inflammatory scar (▶Video 1).

As an incidental finding, a villous polypoid lesion of 3 mm was seen within the MPD in the pancreatic head. Under direct visualization, several biopsies were taken using forceps (SpyBite; Boston Scientific). Subsequently, electrohydraulic lithotripsy of the stones was performed and the fragments were retrieved. Under pancreatoscopic guidance, the stenosis was intubated with a guidewire and dilated to 6 mm, following which a pancreatic plastic stent (10 Fr × 10 cm) was inserted. The patient was free of symptoms by 2 days after the intervention.

Histology of the lesion revealed a pancreatic intraepithelial neoplasia with severe nuclear atypia (PanIN-3; a premalignant condition). Therefore, the patient underwent a pylorus-preserving Whipple’s procedure without complications. The final histology was confirmed as PanIN-3.

In conclusion, despite the use of high resolution magnetic resonance imaging, computed tomography scanning, and endoscopic ultrasound [1, 2], the detection of neoplasia remains a diagnostic challenge in chronic pancreatitis. SOP offers a unique extension of the available techniques, through which even very small potentially malignant lesions of the MPD can be visualized and sampled. In this case, the PanIN-3 lesion was an incidental finding that led to resection of the premalignant polyp, thereby potentially preventing the development of pancreatic carcinoma [3, 4].

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Competing interests

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