Reverse sphincterotomy of the minor papilla via the major papilla for chronic pancreatitis with incomplete pancreas divisum

A 35-year-old man presented with recurrent abdominal pain due to chronic alcoholic pancreatitis. Magnetic resonance cholangiopancreatography showed a dilated tortuous main pancreatic duct with incomplete pancreas divisum. Endoscopic retrograde cholangiopancreatography (ERCP) was carried out and the major papilla was cannulated with a cannulatome and 0.035-inch guidewire. After contrast opacification of the main pancreatic duct, when deep cannulation was attempted, the guidewire became coiled in the direction of the accessory duct (▶ Fig. 1). Cannulation via the minor papilla was therefore tried, but it was unsuccessful. The cannulatome with the guidewire was then used for cannulation via the major papilla; the guidewire was negotiated into the minor pancreatic duct and through the minor papilla, followed by the cannulatome over the guidewire. Reverse sphincterotomy of the minor papilla was performed and the cannulatome and guidewire were removed (▶ Fig. 2, ▶ Video 1). This was followed by deep pancreatic duct cannulation via the minor papilla, which showed a dilated, tortuous duct with ectatic side-branches. A 7-Fr, 10-cm single-pig-tail stent was deployed into the pancreatic duct across the minor papilla (▶ Fig. 3). The patient improved symptomatically and was asymptomatic at the 6 month follow-up.

Minor papilla sphincterotomy is a routinely performed endoscopic therapy for pancreatitis associated with pancreas divisum. It was first described by Cotton in 1980 [1]. Pancreas divisum is a common anatomical variant of the pancreatic duct. Warshaw et al. proposed its anatomical classification into three types: (i) classic pancreas divisum; (ii) pancreas di-
visum with an absent ventral duct; and (iii) incomplete or partial pancreas divisum (the least common type) [2]. Endoscopic sphincterotomy of the minor papilla is an effective treatment in patients with pancreas divisum and various techniques have been described, for example standard pull-type, needle-knife, and wire-assisted access methods [3]. Reverse sphincterotomy is a very rarely used sphincterotomy technique that can be used effectively to treat acute recurrent pancreatitis or chronic pancreatitis associated with partial pancreas divisum.

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Competing interests

None

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