Endoscopic transpapillary stenting and/or transluminal drainage is recommended for disconnected pancreatic duct syndrome (DPDS). Transpapillary stenting can be considered, preferably with the stent bridging the disruption in the main pancreatic duct (MPD) [1,2]. Such treatment is currently feasible for patients with partial, but not complete, MPD disruption [3,4]. If this treatment fails, surgery is an alternative in patients with either partial or complete disruption – but the majority of these patients go on to develop diabetes mellitus [5]. For this reason, if possible, endoscopic treatment is preferred in order to preserve pancreatic function. We report a successful stent bridging technique for DPDS with complete MPD disruption after intentional endoscopic nasopancreatic drainage (ENPD) tube into a pancreatic fistula.

A 48-year-old man was diagnosed with disconnected pancreatic duct syndrome caused by severe acute pancreatitis. The pancreatic fistula was not encapsulated (arrowhead).

Fig. 1 A 48-year-old man was diagnosed with disconnected pancreatic duct syndrome caused by severe acute pancreatitis. The pancreatic fistula was not encapsulated (arrowhead).

Endoscopic retrograde pancreatography (ERP) showed that the main pancreatic duct (MPD) in the body of the pancreas was completely disrupted (circle).

Fig. 2 Endoscopic retrograde pancreatography (ERP) showed that the main pancreatic duct (MPD) in the body of the pancreas was completely disrupted (circle).

After waste fluid was controlled using endoscopic nasopancreatic drainage (ENPD), there was no peripancreatic fluid collection (arrowhead).

Fig. 3 After waste fluid was controlled using endoscopic nasopancreatic drainage (ENPD), there was no peripancreatic fluid collection (arrowhead).

A 48-year-old man was diagnosed with DPDS caused by severe acute pancreatitis. The patient suffered from recurring unbearable pain related to a pancreatic fistula. The pancreatic fistula was not encapsulated (Fig. 1), so we performed
transpapillary stenting rather than transluminal drainage. According to endoscopic retrograde pancreatography (ERP), the MPD in the body of the pancreas was completely disrupted (▶Fig. 2). The upstream MPD could not be visualized, and because it was difficult to bridge the disrupted MPD, we planned to temporarily place an ENPD tube in the unencapsulated pancreatic fistula. Flushing via an ENPD enabled cloudy waste fluid to be controlled, and peripancreatic fluid collection was absent (▶Fig. 3).

Thereafter, we repeated ERP and identified the MPD in the tail of the pancreas beyond the disruption, which we successfully bridged (▶Fig. 4; ▶Video 1). We then exchanged external for internal drainage and replaced the drain every 8–12 weeks. Six months later, we confirmed the absence of leakage by contrast pancreatography (▶Fig. 5) and removed the stent. The patient was cured and did not develop complications, including diabetes mellitus. The technique enables bridging of a completely disrupted MPD in patients with DPDS.

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Competing interests

The authors declare that they have no conflict of interest.

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Video 1 Intentional endoscopic nasopancreatic drainage to a pancreatic fistula in the treatment of disconnected pancreatic duct syndrome.