A 34-year-old Chinese man was admitted for repeated episodes of diarrhea and abdominal pain following a Whipple procedure for a duodenal stromal tumor. Computed tomography (CT; Fig. 1) and magnetic resonance cholangiopancreatography (MRCP) were performed and revealed a severely dilated pancreatic duct after the procedure. It was possible that endoscopic retrograde cholangiopancreatography (ERCP) would be unsuccessful because of postoperative anomalies, and the patient rejected surgery. Endoscopic ultrasound (EUS)-guided transgastric drainage of the main pancreatic duct was therefore performed. An echo endoscope was introduced into the stomach and EUS demonstrated that the main pancreatic duct was severely dilated. The duct was punctured with a 19-gauge needle through the posterior gastric wall (Figs. 2 and 3); pancreatic juice was aspirated; and a 0.035-inch guide wire was inserted. The gastric wall was incised by the wire-guided needle-knife, and a 7-Fr Soehendra dilator was used to dilate the gastropancreatic fistula. Finally, a 5-cm long plastic 7-Fr double-pigtail stent was inserted into the main pancreatic duct under fluoroscopic guidance (Figs. 4 and 5). There were no complications and the dilation of the pancreatic duct resolved, with gradual disappearance of the abdominal pain. During follow-up at 14 weeks, CT scan showed no recurrence of the pancreatic duct dilatation (Fig. 6). Although a year later gastroscopy has revealed that the stent is no longer in place, unfortunately the fistula cannot be found; the patient has gained weight and is free of abdominal pain.

It has been proposed that EUS-guided drainage of the main pancreatic duct...
could be an effective treatment option for those patients who were high risk surgical candidates and in whom ERCP had been technically unsuccessful [1,2]. On the basis of this report, treatment of chronic pancreatitis after Whipple procedure with dilated pancreatic duct by EUS-guided transgastric direct drainage of the main pancreatic duct is technically feasible and may be effective. However long-term assessment is required as to whether the patient will need a further drainage procedure if the pancreatic duct again becomes dilated.

Endoscopy_UCTN_Code_TTT_1AR_2AI

Competing interests: None

Fig. 6  Computed tomography (CT) image showing no recurrence of the pancreatic duct dilatation after the EUS-guided pancreatic duct drainage.

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Endoscopy 2011; 43: E182–E183
© Georg Thieme Verlag KG Stuttgart · New York · ISSN 0013-726X

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