A 62-year-old man with a history of alcohol abuse was admitted with exertional dyspnea and massive pleural effusion bilaterally. Despite repeated thoracocentesis with placement of a chest tube, the sanguineous pleural effusions remained refractory. Follow-up investigations revealed exudative pleural fluid with a markedly elevated amylase level (34,620 IU/L) and acute pancreatitis with peripancreatic exudation in the transitional area between the head and the body of the pancreas. Endoscopic retrograde cholangiopancreatography showed incomplete pancreas divisum and a short-segment stenosis of the mid pancreatic duct with fistulization into the left pleural cavity (Fig. 1). Despite successful intubation of the pancreatic duct via the major duodenal papilla, insertion of a plastic stent was unsuccessful due to extensive kinking of the pancreatic duct in the pancreatic head (Fig. 2). However, a Terumo wire was successfully passed through the major papilla and led retrogradely back into the duodenum through the minor papilla (Fig. 3). Next, needle-knife papillotomy of the minor papilla was carried out using the Terumo wire as a guide, and a plastic stent (5 Fr, 16 cm) was placed in the pancreatic duct, passing the stenotic segment of the duct (Figs. 3, 4). This successful drainage led to disappearance of the pleural effusions and closure of the pancreaticopleural fistula within days. Follow-up investigation after stent removal showed complete disappearance of the pancreatic duct stenosis and the pancreaticopleural fistula.

Only 37 cases of pancreaticopleural fistula were described in the Western literature from 1990 to 2004 [1]. Endoscopic drainage of the pancreatic duct may lead to successful resolution of such a fistula [2–5]. However, pancreaticopleural fistula in pancreas divisum and its successful treatment using a rendezvous technique between the major and minor duodenal papillae have not been described before.

We conclude that endoscopic drainage of the pancreatic duct represents an option for successful treatment of pancreaticopleural fistulas even in anatomically difficult cases.

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Corresponding author

T. Frieling, MD
Department of Gastroenterology, Hepatology, Infectiology, Neurogastroenterology, Hematology and Oncology
Helios Clinic Krefeld
47805 Krefeld
Lutherplatz 40
Germany
Fax: +49-2151-322078
thomas.frieling@helios-kliniken.de