Pancreatic stenting is widely used to prevent pancreatitis occurring after endoscopic retrograde cholangiopancreatography (ERCP) [1]. In general, a pancreatic spontaneous dislodgement stent (PSDS) with a duodenal pigtail prevents intraductal migration. Serious adverse events after PSDS placement, such as migration into the portal vein, have been reported [2]. Here, we present a case of pancreatic perforation and fistula caused by a dislocated and migrated PSDS and the technique by which rescue was achieved.

A 58-year-old man with biliary stones after Billroth-I reconstruction for gastric cancer was referred. We performed endoscopic stone extraction; however, selective biliary cannulation was difficult. A 7-Fr biliary stent and 5-Fr PSDS (Advanix...
pancreatic stent, single pigtail on the duodenal side, unflanged, 5 cm; Boston Scientific Japan, Tokyo, Japan) were placed following transpancreatic sphincterotomy in the first session (Fig. 1; Video 1). Two days later, the patient suddenly complained of severe exacerbation of abdominal pain and fever. Computed tomography showed pancreatic perforation and fistula caused by PSDS (Fig. 2). A second ERCP was performed, and the PSDS was removed using alligator forceps. Endoscopic retrograde pancreatography (ERP) confirmed the perforation and fistula, and endoscopic naso-pancreatic drainage was placed across the perforated site (Fig. 3; Video 1). The symptoms immediately improved. Three days later, a third ERCP was performed with successful biliary stone extraction. However, ERP still showed perforation and fistula, and a 7-fr pancreatic stent (Flexima, straight, double-flanged, 7-cm; Boston Scientific) was placed

When a prophylactic PSDS is placed, the possibility of adverse effects caused by dislocation and inward migration should be taken into account. Although challenging, if perforation and fistula are diagnosed, endoscopists should consider not only stent removal [2] but also immediate pancreatic drainage across the perforated site as a rescue treatment.

Competing interests

The authors declare that they have no conflict of interest.

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