

CASE REPORT

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# A case of perforation of a pancreatic duct by a pancreatic stent during chemoradiotherapy for pancreatic head cancer: a case report

Takuya Mori, Go Ohira\*, Kenjiro Kimura, Sadaaki Yamazoe, Ryosuke Amano and Masaichi Ohira

## Abstract

**Background:** Pancreatic injuries are rare, and no treatment plan has yet been established for grade III injuries. In many cases, pancreatic stent placement has resulted in saving patients. However, some cases of perforation of a pancreatic duct during the placement of a stent have been described, and there are also a few cases of delayed perforation by a pancreatic stent.

**Case presentation:** A 62-year-old man had obstructive jaundice and pancreatitis due to locally advanced pancreatic head cancer. Both biliary and pancreatic stent were placed by endoscopy, after which chemoradiotherapy was performed. Four months later, he visited our hospital with severe abdominal pain. We performed enhanced CT and diagnosed the patient as having a perforation of a pancreatic duct by a pancreatic stent; therefore, we performed an emergency operation. Since we deemed pancreatectomy risky, we inserted pancreatic tubes into both sides of the perforated site and performed percutaneous transgastric drainage. The postoperative course was uneventful. We thereafter cut the tubes and switched to internal drainage.

**Conclusion:** Many cases of pancreatic injuries have reported that pancreatic stent placement results in saving the patient, but there have been few cases in which a pancreatic stent causes perforation of a pancreatic duct. External drainage by pancreatic tubes is very effective in resolving perforation of a pancreatic duct.

**Keywords:** Pancreatic injury, Perforation of a pancreatic duct, Pancreatic stent, External drainage

## Background

Pancreatic injuries are rare, and no treatment plan has yet been established for grade III injuries (grade III on the American Association of Surgeons for Trauma [AAST] scale) [1]. In many cases, pancreatic stent placement has resulted in saving patients. However, some cases of perforation of a pancreatic duct during placement of a stent have been described, and there are also a few cases of delayed perforation by a pancreatic stent.

We herein report a case of perforation of a pancreatic duct after pancreatic stent placement, along with some literature review.

## Case presentation

A 62-year-old man had obstructive jaundice and pancreatitis due to locally advanced pancreatic head cancer (T3, N1, M0, stage IIB, TNM classification on UICC). Endoscopic placement of a biliary and pancreatic stent (plastic stent, 5Fr, 9 cm) was performed, after which chemoradiotherapy (20 Gy, gemcitabine 1353 mg/body + S-1 120 mg/body) had been performed for 5 weeks. Four months later, he suddenly developed severe abdominal pain with symptoms of peritoneal irritation and presented to our hospital. His blood pressure was 91/67 mmHg, pulse rate 113/min, and temperature 37.0 °C. His abdomen was hard with some tenderness.

Laboratory data showed elevation of leukocytes (10,100/ $\mu$ L; reference values 4500 to 8000/ $\mu$ L) and C-reactive protein (13.92 mg/dL; reference values 0 to 0.40 mg/dL). Computed

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# Case Report Pancreatic Stent Perforation

**Léo Pomar**

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

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Proceedings of the Falk Symposium 143 held in Freiburg Germany October 14 15 2004     **International Surgery** ,1966

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