Intestinal bowel perforation and bacterial peritonitis secondary to migrated biliary and pancreatic stents

**Case report**

Intestinal bowel perforation by migrated biliary or pancreatic stent is a rare complication that can occur anywhere in the gastrointestinal tract [1–5]. We report two patients with intestinal perforation and bacterial peritonitis secondary to a migrated stent from the common bile duct and pancreatic duct.

A 43-year-old male with chronic pancreatitis, who underwent an endoscopic cystogastrostomy for a pseudocyst and migrated stent from the common bile duct and pancreatic duct.

**Fig. 1** Curved multiplanar reformatted CT image showing a pancreatic stent perforating the duodenum, ascites, intra-abdominal free air, and pancreatic calcifications.

Blood test revealed leukocytosis and cholestasis. Abdominal computed tomography (CT) scan showed ascites, intra-abdominal free air, two pigtail stents still in situ in the cystogastrostomy, and migration of a pancreatic stent with duodenal perforation (**Fig. 1**).

Treatment consisted of endoscopic removal of the perforating stent and pigtail stents, percutaneous drainage of purulent ascites, intravenous antibiotics, bowel rest, and parenteral feeding. The patient recovered fully and was discharged from the hospital 14 days later.

The second case was that of a 71-year-old female patient with peritoneal dialysis, who underwent endoscopic retrograde cholangiopancreatography (ERCP) with biliary stenting for obstructive cholangitis. Three weeks later she developed bacterial peritonitis with *Enterococcus* sp., *Klebsiella oxytoca*, and *Candida albicans*. Abdominal CT scan revealed perforation of the ileum by the migrated biliary stent (**Fig. 2** and 3). Because she developed septic shock, the biliary stent was surgically removed and primary repair of the ileal perforation was performed. The patient is still recovering.

The possibility of intestinal bowel perforation secondary to migrated biliary or pancreatic stent should be considered in patients presenting with abdominal pain after ERCP placement of stents. The choice between surgical vs. conservative management should be individualized and depends on the size and site of the perforation and any co-morbidity in the patient [2,5].

**References**


**Bibliography**

Endoscopy 2008; 40: E25
© Georg Thieme Verlag KG Stuttgart - New York - ISSN 0013-726X

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Seerden TC et al. Intestinal bowel perforation and bacterial peritonitis... Endoscopy 2008; 40: E25