Pancreatic stent migration into the bile duct causing cholangitis

A 71-year-old woman with history of surgical sphincteroplasty for a benign ampullary stricture presented with recurrent episodes of acute pancreatitis. An endoscopic retrograde cholangiopancreatography (ERCP) showed the common bile duct outlet separated from the ampulla, and distal stenosis of the ventral pancreatic duct. A pancreatic sphincterotomy was carried out, followed by the placement of a straight plastic 5-Fr × 3 cm stent into the pancreatic duct (Fig. 1). Post procedure computed tomography, carried out for abdominal pain, showed the pancreatic stent lying within the head of the pancreas (Fig. 2a). An abdominal radiograph obtained 10 days later showed the stent in the area of the hepatic flexure, suggesting spontaneous distal migration (Fig. 3). After 2 months, the patient presented with cholangitis. Abdominal CT revealed a bright linear object extending from the common hepatic duct to the right intrahepatic biliary tree (Fig. 2b). An ERCP was done and the 5-Fr × 3 cm plastic pancreatic duct stent was removed from the right intrahepatic biliary tree using a biliary extraction balloon catheter. Distal spontaneous migration is common among 5-Fr × 3 cm pancreatic duct stents that do not have a flange on the pancreatic duct side; the migration rate is up to 96.7 % by day 3 [1]. Proximal migration occurs in up to 5 % of cases [2]. We present an unusual case of pancreatic stent migration where the stent migrated distally into the duodenum and then migrated into and far up the biliary tree, causing cholangitis. Surgical sphincteroplasty probably allowed entry of the straight stent into the biliary tree. We suggest the use of single-pigtail pancreatic duct stents in patients with altered ampullary anatomy to decrease the risk of such occurrences.
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