Bleeding into the bile duct from a hepatic artery pseudoaneurysm is a rare complication of liver transplantation [1–4] which can be treated by transcatheter coil embolization. Biliary coil erosion after pseudoaneurysm embolization has been reported only once before, and the treatment in that case consisted of surgical choledochotomy [5].

We present a patient who underwent coil embolization of a bleeding pseudoaneurysm after transplantation, in whom coils were later found to have migrated into the bile duct. Surgery was avoided in this patient by removal of the coils by percutaneous cholangioscopy.

A 72-year old patient was admitted in July 2005 with biliary colic. In 2002 he had undergone liver transplantation because of primary biliary cirrhosis. Arterial reperfusion was achieved by end-to-end arterial anastomosis, and biliary reconstruction by duct-to-duct anastomosis. On day 73 after the transplantation he developed a gastrointestinal bleed caused by rupture of a hepatic artery anastomotic pseudoaneurysm, which was treated by packing with microcoils. The bleeding recurred and angiography showed revascularization of the pseudoaneurysm and a hepatic artery anastomotic stenosis. A balloon-expandable ePTFE-covered coronary stent graft was inserted into the hepatic artery to exclude the pseudoaneurysm from the circulation [1]. The clinical course was then uneventful until the biliary colic developed.

Endoscopic retrograde cholangiopancreatography was unsuccessful. Percutaneous transhepatic cholangioscopy was performed, yielding a direct view of the cluster of vascular coils. All the coils were successfully removed via the percutaneous track using a biopsy snare.

On entering the bile duct by percutaneous cholangioscopy, and after removal of the stone by electrohydraulic lithotripsy, a cluster of vascular coils that had migrated from the hepatic artery pseudoaneurysm into the bile duct was seen. All the coils were grasped and removed one by one using a biopsy snare, without any sign of bleeding from the arterio-biliary fistula. By the end of a second cholangioscopic procedure, the eroded coils had been completely cleared from the bile duct system.

Successful percutaneous cholangioscopic extraction of vascular coils that had eroded into the bile duct after liver transplantation

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References


Bibliography

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