A 59-year-old woman underwent composite multivisceral transplantation as a result of cryptogenic cirrhosis and extensive thrombosis of the splanchnic vessels. She presented with obstructive jaundice with elevated liver enzymes 48 days later. A computed tomography (CT) scan (Fig. 1) disclosed two large hepatic abscesses with dilated intra- and extrahepatic bile ducts. She underwent interventional percutaneous drainage and administration of antibiotics for the abscesses and was referred for endoscopic retrograde cholangiopancreatography (ERCP) on the following day. At ERCP, a dilated common bile duct was found with a large intraductal filling defect extending into the intrahepatic system (Fig. 2). Endoscopic biliary sphincterotomy was performed followed by balloon retrieval of biliary debris. Bile duct clearance was not possible and therefore plastic stents were placed. Laboratory test results did not improve. A percutaneous transhepatic cholangiogram was performed 2 weeks later demonstrating a very dilated and severely irregular biliary tree filled with casts (Fig. 3). Although the hepatic abscesses disappeared, the severe biliary tree distortion remained unresolved (Fig. 4) despite repeated interventions. The graft damage was progressive and eventually the patient died after multiple complications.

Biliary cast syndrome is an entity defined by the cholangiographic findings of multiple fixed filling defects in the intra- or extrahepatic biliary tree, mirroring the luminal dimensions of the respective affected bile duct segment. Cast material can be soft or hard and may adhere to the bile duct wall. Theories concerning etiology include sloughed biliary epithelium (owing to prolonged cold ischemia or ongoing hepatic artery thrombosis), chronic rejection, infection, bile stasis, or alteration of bile metabolism [1]. The incidence varies between 2.5% and 18% [2,3] of orthotopic liver transplant recipients.
recipients, and retention of lithogenic material in the bile duct may lead to obstructive cholangitis and subsequent liver damage.

Limited success using ERCP or percutaneous exploration has been reported and most patients will ultimately require retransplantation [1 – 4].

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Fig. 4 The hepatic abscesses disappeared but a radiographic image indicated that the severe biliary tree distortion remained unresolved despite repeated interventions.