A 34-year-old woman presented with hepatalgia, fever, and chills. She had previously undergone three successive liver grafts. Most recently, she had developed a symptomatic biliary anastomotic stricture, which was treated by placement of plastic stents. Three weeks before her admission, she was treated for cholangitis related to the distal migration of the plastic stents. A 10-mm diameter × 80-mm long fully covered self-expandable metal stent (Fc-SEMS) (Wallflex; Boston Scientific, Natick, Massachusetts, USA) was placed across the stricture, with the expectation of good results [1].

On admission, physical examination revealed slightly painful liver and fever (38.5°C). Blood tests showed isolated mild cholestasis and low C-reactive protein (CRP) level (19 mg/L). Intravenous antibiotic treatment was initiated. Abdominal plain film (Fig. 1) and magnetic resonance cholangiopancreatography (Fig. 2) showed no stent migration or intrahepatic biliary tract dilatation, but there was suspicion of intraprosthetic sludge. CRP increased to 180 mg/L and blood cultures were positive for Escherichia coli.

The cholangiogram confirmed the adequate transpapillary and subhilar position of the stent and normal intrahepatic bile ducts (Fig. 3a). Pulling on the inflated balloon in the stent did not disclose any material but did lead to stent dislodgement under the stricture, revealing two cystic duct remnants (Fig. 3b). Simultaneously, pus was flowing through the stent and the duodenum. The Fc-SEMS was replaced by three plastic stents across the stricture. The patient was discharged 3 days later with oral antibiotics. At follow-up 2 months later, the plastic stents were still in place and the patient was asymptomatic.

As far as we know, this cause of cholangitis has never been described and is probably related to the specific anatomy of this transplant patient, with the stricture close to two cystic stumps. Similarly, the incidence of cholecystitis associated with Fc-SEMS placement has been reported as negligible [2, 3]. The use of Fc-SEMS for post-transplant biliary stenosis treatment is controversial, may be associated with more complications, and should only be used in highly specialized, tertiary referral centers [4, 5].

Competing interests: None
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Fig. 3 Cholangiogram. a Stent in place: there was neither intrahepatic bile duct dilatation nor bile material inside the stent. b The stent was dislodged revealing the two cystic stumps at the level of the anastomotic stricture.