A 15 year old girl was referred with cholestatic jaundice, but no other complaints. Biliary obstruction was identified on ultrasound scanning, and abdominal computed tomography (CT) and magnetic resonance cholangiopancreatography (MRCP) demonstrated bilateral dilatation of the intrahepatic bile ducts and an enlarged gallbladder. Endoscopic retrograde cholangiopancreatography (ERCP) revealed a short segment stricture just below the bifurcation (Fig. 1). Directed biopsies were taken using the Spyglass cholangioscope and a stent was placed.

Histopathological examination of the biopsies showed an inflammatory infiltrate rich in eosinophils compatible with the diagnosis of eosinophilic cholangitis (Fig. 2). The patient developed acute cholecystitis 5 days post ERCP and underwent laparoscopic cholecystectomy. Macroscopically, the gallbladder was markedly edematous with intraluminal purulent material. Pathological examination of the gallbladder revealed chronic cholecystitis and focal eosinophilic infiltrates (Fig. 3). The patient was treated with prednisone (initially 60 mg, tapered over 6 months) followed by azathioprine (50 mg) as a steroid-sparing agent and underwent repeated endoscopic stent exchanges. A year later she remained asymptomatic with normal liver function tests and a normal ERCP (Fig. 4).

We report a case of eosinophilic cholangitis in which the diagnosis was made preoperatively, allowing successful combination therapy with endoscopy and immunosuppression to be implemented. Eosinophilic cholangitis is an extremely rare benign disease [1], which causes eosinophilic infiltration of the biliary tree and other organs. It can result in the formation of strictures within the biliary tree [2–4], as it is characterized by marked fibrosis of the bile ducts [5]. Eosinophilic cholangitis is part of a spectrum of diseases that all show eosinophilic infiltration of organs, with or without peripheral eosinophilia [6, 7]. Suggested diagnostic criteria include thickening or obstruction of the bile ducts, infiltration with eosinophils on bile duct biopsy, and improvement with immunosuppression [6].

The present case is one of only a few cases of eosinophilic cholangitis to be diagnosed without surgery, which allowed us to consider other potential therapeutic strategies as alternatives. In addition, our case is the first case, to our knowledge, in which eosinophilic cholangitis was treated with steroids followed by immunosuppressive therapy. Physicians should consider this possibility when treating this eosinophilic condition.

Competing interests: None
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