Fasciola gigantica in the Common Bile Duct: Diagnosis by ERCP

A 40-year-old German woman traveled in Madagascar in June 1992. In September 1992, she presented with a hepatic abscess, leading to a right hemihepatectomy. The histology proved an abscess, with involvement of the bile ducts and tissue eosinophilia, suggesting helminthic infection. The culture was sterile.

She was readmitted in June 1993 when a new abscess occurred. The physical examination was normal after hemihepatectomy. There was no blood eosinophilia, leukocyte alkaline phosphatase (LAP) was 69 U/l (n 11–33), and alanine aminotransferase (ALT) was 21 U/l (n 5–19). A high concentration of antibodies against Fasciola hepatica was detected (50 U, n < 10; ELISA) and a low concentration of antibodies against Ascaris (1:20, n < 1:20; HAI). No parasites or worm eggs were detected in the bile or stool after enrichment.

Endoscopic retrograde cholangiography showed irregularities of the distal common bile duct, compatible with chronic cholangitis and a variable, longish foreign body in the prepyloric region (Figure 1). After papillotomy, a live adult Fasciola gigantica, 3.9 cm in length, (identification by D. Büttner, Bernhard-Nocht-Institut, Hamburg) was extracted (Figure 2) using the Dormia basket. Systemic treatment with praziquantel was given for seven days (3 x 25 mg/kg b.w.). A follow-up examination after 17 months showed no signs of a new abscess.

Fascioliasis is a rare cause of focal liver lesions (1). It should be suspected if a sterile liver abscess is found with cholangitis and tissue eosinophilia. Immunoassays are helpful in the differential diagnosis, but may be hampered by nonspecific cross reactions with other helminths (2). Specific parasitologic diagnosis in Fasciola infection can be difficult, as the number of worm eggs in stool or bile is often low, even after enrichment before microscopy. In these cases, endoscopic retrograde cholangiopancreatography appears to be a favorable diagnostic and therapeutic procedure, if a parasitic origin of cholangitis (3) or even pancreatitis (4) is suspected, reducing the need for surgery (5). However, systemic antihelminthic treatment should follow, since the presence of further worms cannot be excluded.

References


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