

Fasciola Hepatica Infestation in an Internist: Letter to the Editor

İç Hastalıkları Uzmanında Fasiola Hepatika Enfestasyonu

Mustafa ALTAY, MD,^a
Adnan TAŞ, MD,^b
Fatma AYBALA ALTAY, MD,^c
Mehmet ARHAN, MD,^b
Seyfettin KÖKLÜ, MD^b

^aDepartment of Endocrinology,
Gazi University Medicine Faculty,
^bDepartment of Gastroenterology,
Ankara Education and Research Hospital,
^cDepartment of
Infectious Diseases and Microbiology,
Dışkapı Yıldırım Beyazıt
Education and Research Hospital,
Ankara

Geliş Tarihi/Received: 14.09.2010
Kabul Tarihi/Accepted: 29.09.2010

Yazışma Adresi/Correspondence:
Adnan TAŞ, MD
Ankara Education and
Research Hospital,
Department of Gastroenterology,
Ankara,
TÜRKİYE/TURKEY
dradnantas@gmail.com

Key Words: *Fasciola hepatica*;
physicians

Anahtar Kelimeler: *Fasyola hepatica*;
doktorlar

Infestation with the liver fluke *Fasciola hepatica* is a common zoonosis in sheep-raising areas of the world. Most reports of human infection have come from South America, Europe, Africa, China, Australia, and the Middle East, but sporadic cases have also been reported in the United States. In Turkey, the diagnosis of fascioliasis is based on extraction of adult parasites during surgery or endoscopy for obstructive jaundice, chronic cholecystitis, cholangitis, cholelithiasis, hepatitis, or gallbladder tumor.¹ This case is characterized by periportal lymphadenopathy and diagnosed by serological tests.

A 31-year-old male (one of the authors) applied with mild abdominal pain on right upper quadrant which began 10 days previously. Fever especially at night, chills, fatigue and itching were also present. He had had a history of holiday journey to Southern part of Turkey a month previously. Physical examination was unremarkable other than mild tenderness on his right upper quadrant and epigastrium. The laboratory findings were as follows: WBC 9300, Hg: 15.6 g/dL, plt: 183000, PMNL 33%, lymphocyte 22%, monocyte 5%, eosinophil 40% in peripheral blood. ESR was 18 mm/h. Biochemical tests were all within the normal limits. Tests for Brucella and Salmonella were negative. Abdominal ultrasonography (USG) showed a thickening and increased echogenicity of intrahepatic bile ducts in right liver lobe. There were two lymphadenopathies with diameter of 11 x 10 mm at portal hilus. Abdominal dynamic computerized tomography (CT) showed a hypodense lesion with a size of 30 x 25 x 40 mm. Parasite and parasite eggs were negative in stool. Echinococcus indirect hemagglutination (IHA) test was negative, *F. Hepatica* IHA test was positive (1/1256). The patient was diagnosed as *F. Hepatica* infection by clinical, radiological and serological findings and he was administered triclabendazole 10 mg/kg/ for two days. The symptoms disappeared gradually in a week. Eosinophil levels and USG findings returned to normal in three and six months, respectively.

The liver fluke *F. hepatica* is one of the few parasites that can cause recurrent cholangitis. Human hepatobiliary infection with this organism includes two stages: an acute, invasive, hepatic phase that starts one to three weeks after infestation, and a chronic biliary phase that starts three to four months after the contaminated material is ingested.^{2,3} The clinical manifestations of hepatic fascioliasis vary according to the stage of the disease. In the initial hepatic invasion, fever, pain, hepatomegaly, general malaise, dyspepsia, eosinophilia, and positive serologic testing may be observed for three months. During the second phase, when the parasite is in the main biliary duct, the disease may feature episodes of biliary colic with or without cholangitis, obvious signs of biological cholestasis, or may remain silent. In some instances, lack of eo-

sinophilia in combination with the absence of manifestations of the disease can make diagnosis quite difficult.⁴ This condition should always be included in the differential diagnosis when USG or magnetic resonance cholangiopancreatography images show irregular and thickened common bile duct walls. The endoscopic retrograde cholangiopancreatography (ERCP) images typical of *F. hepatica* suggest biliary fascioliasis. Eosinophilia and lymphadenopathy were the two main findings in the present case. Since he was free of biliary obstruction, we did not need to perform ERCP.

In summary, *F. hepatica* should be kept in mind in cases with a history of journey, and in the presence of eosinophilia and lymphadenopathies.^{5,6} Liver enzymes may completely be normal in those cases.

REFERENCES

- Hurtrez-Boussès S, Meunier C, Durand P, Renaud F. Dynamics of host-parasite interactions: the example of population biology of the liver fluke (*Fasciola hepatica*). *Microbes Infect* 2001;3(10):841-9.
- Chen MG, Mott KE. Progress in assessment of morbidity due to *Fasciola hepatica* infection: a review of recent literature. *Trop Dis Bul* 1990;87(1):1-38.
- Pulperio JR, Armesto V, Varela J, Corredoira J. Fascioliasis: findings in 15 patients. *Br J Radiol* 1991;64(765):798-801.
- Heredia D, Bordas JM, Mondelo F, Rodés J. [Gallbladder fascioliasis in a patient with liver cirrhosis]. *Med Clin (Barc)* 1984;82(17):768-70.
- Akısü Ç, Meral M, Delibaş SB, Güngör B, Aksoy Ü, Sağol Ö, et al. [Fasciolosis; a case with eosinophilic granuloma in the liver]. *Türkiye Klinikleri J Gastroenterohepatol* 2004;15(2):89-92.
- Demir S, Ellidokuz E, Değirmenci B, Yücel A, Gökçe Ç. [An asymptomatic fasciola hepatica infestation resembling a hepatic mass lesion in ultrasonography: case report]. *Türkiye Klinikleri J Med Sci* 2005;25(1):121-4.