

Extra-hepatic fascioliasis with peritoneal malignancy tumor feature

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Abstract Fascioliasis is a zoonose parasitic disease caused by *Fasciola hepatica* and *Fasciola gigantica* and is widespread in most regions of the world. Ectopic fascioliasis usually caused by juvenile *Fasciola* spp., but in recent years a few cases of tissue-embedded ova have been reported from different endemic areas. A 79-year-old Iranian man resident in Eird-e-Mousa village from Ardabil Province, north-west of Iran, complained with abdominal pain, nausea, and intestinal obstruction symptoms referred to Ardabil Fatemi hospital. In laparotomy multiple intestinal masses with peritoneal seeding resembling of a malignant lesion were seen. After appendectomy and peritoneal mass biopsy with numerous intraperitoneal adenopathy, paraffin embedded blocks were prepared from each tissues. A blood sample was taken from the patient 5 months later for serological diagnosis. Histopathological examination of sections showed fibrofatty stroma with dense mixed inflammatory cells infiltration and fibrosis in peritoneal masses. Large numbers of ova of *Fasciola* spp. were noted with typical circumscribed granulomas. Despite of anti-fasciola treatment, IHA test for detecting anti *F. hepatica* antibodies was positive 5 months after surgery

with a titer of 1/128. Due to multiple clinical manifestation of extra-hepatic fascioliasis, its differential diagnosis from intraperitoneal tumors or other similar diseases should be considered.

Keywords Extra-hepatic fascioliasis · Peritoneal tumor · Ardabil · Iran

Introduction

Fascioliasis is a zoonose parasitic disease caused by *Fasciola hepatica* and *Fasciola gigantica* and is widespread in most regions of the world. Human infection occurs by ingesting of encysted metacercariae associated with aquatic or semi-aquatic plants, or by contaminated drinking water with float metacercariae (WHO 2011). Fascioliasis is a major health problem especially in north of Iran (Mas-Coma et al. 1999; Eslami et al. 2009). Ectopic fascioliasis usually caused by juvenile *Fasciola* spp. (Lee et al. 1982; Chang et al. 1991; Zali et al. 2004; Yi-Zhu and Zhi-Bang 2010), but in recent years a few cases of tissue-embedded ova have been reported from different areas (Yazici et al. 2005; Naresh et al. 2006; Makay et al. 2007; Marcos et al. 2009; Ongoren et al. 2009). In this report, an unusual manifestation of ectopic fascioliasis in peritoneum is presented.

Materials and methods

A 79-year-old Iranian man resident in Eird-e-Mousa village from Ardabil Province, north-west of Iran, complained with abdominal pain, nausea, and intestinal obstruction symptoms referred to Ardabil Fatemi hospital. The patients had reported a history of occasional mild abdominal pain

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