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Human fasciolosis diagnosed in the acute phase: A first clinical report in Mexico

Fasciolosis humana diagnosticada en fase aguda. Primer reporte clínico en México

Fasciolosis is a zoonosis caused by Fasciola hepatica that affects sheep, cattle, and occasionally, humans. In the latter, 2 phases are distinguished: the acute phase and the chronic phase.1

Figure 1 one illustrates the sequential biologic cycle.2

Acute phase symptomatology is fever of 38 °C, important eosinophilia, abdominal skin rash, and pain in the right hypochondrium. Diagnostic methods in this phase are a complete blood count that shows blood eosinophilia and anti-Fasciola hepatica antibodies. Stool exams in this phase are negative.3

The chronic phase is characterized by adult Fasciola in the biliary tract, causing diarrhea that can be steatorrheic, fever, pain in the right hypochondrium, and weight loss. Eosinophilia can be mild or absent and eggs are found in fecal material.4,5

We present herein the clinical case of a 34-year-old man, resident of Puebla, Mexico, that stated during the medical interview that he had eaten fish with some type of green topping once a week before symptom onset, which was characterized by a skin rash on his face, neck and chest, flatulence with borborygmi, and liquid stools with no blood (3 in 24 h).

The patient then presented with fever of 38 °C, headache, myalgia, pain in the right hypochondrium that radiated to the ipsilateral lumbar region, and weight loss of 4 kg in 3 weeks.

The Widal test was negative, but due to the clinical suspicion of typhoid fever, he was given 3 g daily of ampicillin for 10 days with no improvement.

Because of the lack of treatment response, the patient sought medical attention at the Clinical Parasitology Service of the Faculty of Medicine of the BUAP, New laboratory tests reported: complete blood count: erythrocytes 4.9 mm3, hemoglobin 14.5 g/dL, hematocrit 45%, MCV 91 fl, MCHC 32 g/dL. Leukocytes 9.15 thousand/μL, with differential count of: lymphocytes 2.19 thousand/μL neutrophils 2.56 thousand/μL, eosinophils 4.11, thousand/μL basophils 0.18 thousand/μL, and monocytes 0.09 thousand/μL.

Because of the high percentage of eosinophils, complete blood count was repeated 8 days later with the following results: erythrocytes 5.0 mm3, hemoglobin 14.7 g/dL, hematocrit 46%, leukocytes 10.87 thousand/μL, lymphocytes 1.63 thousand/μL, neutrophils 2.82 μL, eosinophils 6.19 thousand/μL, basophils 0.0 thousand/μL, and monocytes 0.21 thousand/μL.

The stool exams were performed using the sedimentation technique. Six samples were negative and Enterotest® (Beal Capsule) was negative for cysts, trophozoites, and parasitic eggs.

Counterimmunoelectrophoresis (CIE) was carried out to search for anti-Fasciola hepatic antibodies (fig. 2).

The patient was treated with 1 mg/kg of weight of intramuscular dehydroemetine for 10 days with total symptom remission.

The present case corresponds to acute (or invasive) phase fasciolosis and is the first of its kind to be reported in Mexico. In Peru, where fasciolosis is endemic, a review carried out from 1963 to 2005 reported a total of 1,701 cases, only 11% of which were diagnosed in the invasive phase and 89% were diagnosed with full-blown disease, corroborating the difficulty of diagnosis in the acute phase.6

As illustrated by the present report, due to its polymorphic symptomatology, physicians do not usually consider this pathology in the differential diagnosis and patients undergo numerous studies and treatments before being correctly diagnosed.7

An important datum is a history of watercress ingestion, which has been identified in national studies in up to 49% of the cases; this history was not obtained or was not reported in 23 and 28% of the cases, respectively. Our patient stated that he was not familiar with watercress, but he did say he had eaten a vegetable topping before clinical symptom

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Although there are approximately 11 million cases of fasciolosis around the world, there is a lack of cases in the acute phase, due to the difficulty of diagnosis, sometimes being confused with other diseases.8

The present report is of clinical interest for its diagnostic and therapeutic aspects in this disease, and it is an important contribution to the study of this parasitosis in Mexico.9

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onset. Recent reports link fasciolosis with radish ingestion, and to a lesser degree with the ingestion of turnips, spinach, and lettuce, results that require further investigation.⁹

And finally, our patient was treated with dehydroemetine, due to the nonavailability of the drug that is currently considered the treatment of choice: triclabendazole at an oral dose of 10 mg/Kg. Studies have reported the usefulness of nitazoxanide, but the results are still inconclusive.⁹

We presented this report in the hope it can be useful in the study of patients with eosinophilia and their early treatment.

**Ethical responsibilities**

**Protection of persons and animals.** The authors declare that no experiments were performed on humans or animals for this study.

**Data confidentiality.** The authors declare that no patient data appear in this article.

**Right to privacy and informed consent.** The authors declare that no patient data appear in this article.

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Conflict of interest

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Proton pump inhibitor-responsive esophageal eosinophilia: A new entity in search of recognition?2

Eosinofilia esofágica sensible a inhibidores de la bomba de protones. ¿Nueva entidad en busca de reconocimiento?

Eosinophilic esophagitis (EoE) has been a well-recognized pathologic entity in adults since 1978. Its clinical characteristics, treatment, and progression have been extensively studied over the last years. However, it has recently been described to form part of a group of clinical entities characterized by the infiltration of eosinophils in the esophageal mucosa together with gastroesophageal reflux disease (GERD) and proton-pump inhibitor-responsive esophageal eosinophilia (PPI-REE). Based on the above, we decided to present herein the case of a patient with esophageal eosinophilic infiltration diagnosed with PPI-REE, given its favorable response to these drugs.

A 50-year-old man sought medical attention due to intermittent dysphagia, retrosternal pain, and heartburn. He had a past history of hemorrhoidectomy and appendectomy years before and seafood allergy. Six months earlier, he had been seen by another gastroenterologist for the same symptoms, underwent endoscopy with no esophageal biopsy, was diagnosed with esophageal candidiasis, and prescribed oral nystatin. His blood count and biochemical profile were normal.

We decided to perform another endoscopy and it revealed an abundant whitish mottled pattern in the esophageal mucosa with some areas of exudate and edema (Fig. 1A). No hiatal hernia or erosions were observed and the junctional epithelium had a normal aspect. Eight biopsy samples were taken from the mucosa of the upper and lower third of the esophagus and the pathologist reported the presence of an abundant eosinophilic infiltrate in the epithelium (from 18 to 52 per high power field [HPF]) (Fig. 1B). Twenty-four hour esophageal pH impedance monitoring was normal. The patient was treated with 40 mg of oral pantoprazole every 12 h for 2 months. After that treatment, endoscopy with biopsy was repeated, which showed endoscopic improvement of the mucosa (Fig. 2A), and in the biopsy there was significant reduction of the eosinophilic infiltrate (1 to 3 eosinophils per HPF) (Fig. 2B). The patient stated that he had a significant decrease in the intensity of