

4th time is a charm: Peritoneal tuberculosis and how difficult is to reach it

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Abstract

Tuberculosis has an increased incidence in the last few years due to the phenomenon of migration and remains a public health problem in certain regions of the world. The abdominal form is the sixth leading cause of extrapulmonary TB, after lymphatic, genitourinary, osteoarticular, miliary and meningeal. Usually, is more prevalent in <40years old females and due to its nonspecific clinical manifestations remains a clinical challenge for most physicians. We present the case of 42--year--old female with peritoneal tuberculosis (PTB). The patient suffered from abdominal pain and increasing abdominal perimeter 13 days prior to admission. She went to the emergency department four times in 10 days and was discharged with multiple diagnosis. The diagnosis was established on the basis of clinical features, findings from an abdominal tomography scan and histopathological analysis of peritoneal biopsy. The aim of this review is to expose the struggle experience diagnosing such a challenging disease.

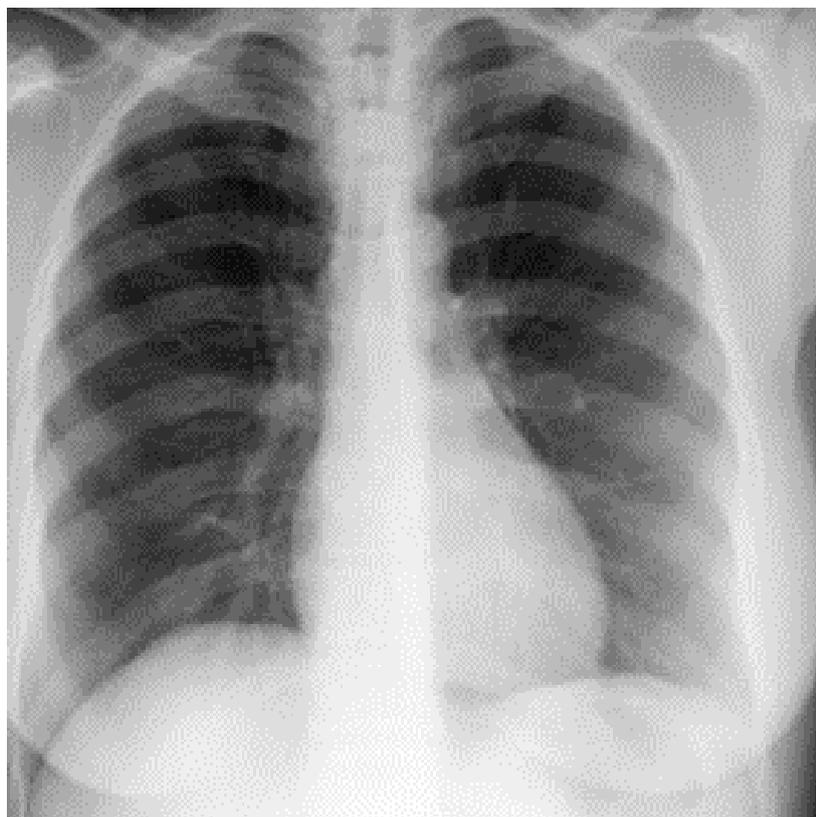
Key words: Peritoneal Tuberculosis, Tuberculosis, Abdominal pain, Ascitis, Exploratory Laparotomy.

Introduction

Peritoneal tuberculosis is one of the forms of abdominal tuberculosis, and can be located in any site of the gastrointestinal and genitourinary tract, solid organs, abdominal aorta and lymph nodes. About 30% of cases of extrapulmonary tuberculosis and 20% of all causes of ascites occur in developing countries. This form of tuberculosis is rarely associated with the active form of pulmonary disease, sometimes presenting with nonspecific symptoms, and for this reason has been described by some

authors as “the great mimic”. Peritoneal involvement is often accompanied by abdominal pain (80--95%) often associated with fever(40--90%), weight loss (40-90%)and anorexia (30%), and this combination may occur for many months. Among the known risk factors are patients diagnosed with cirrhosis, human immunodeficiency virus infection, diabetes mellitus, malignancies, immunosuppressive patients, and patients undergoing dialysis. In most cases, the infection occurs through the reactivation of a

Fig. 1. Chest X Ray revealed no infiltrations



latent focus located in the peritoneum (through hematogenous dissemination of a pulmonary focus), hematogenous through an active pulmonary focus or miliary tuberculosis, with less invasion of the cavity peritoneal disease through intestinal infections or genitourinary tuberculosis. Peritoneal TB has three types: the wet type with ascites, the encysted type with abdominal swelling and the fibrotic type with abdominal masses.

Case Report

A 42-year-old female, with no history of disease, was admitted to the emergency department with a 13 days history of abdominal pain and low fever. After four episodes of medical consultation, the patient was admitted for etiological study. She was feverish, with complaints of malaise and anorexia with weight loss of 7 Kg. The patient's abdomen was blown, soft with normal bowel sounds and ascites. The initial laboratory studies showed low hemoglobin (10,7g/dL), normal white blood cells (4,987/µl) increased erythrocyte sedimentation rate (51 mm/sec), protein C reaction (39mg/dL) and CA-125 (346 IU/mL). Hepatic and renal function were normal. HIV and hepatotropic viruses were negative. A tuberculin skin test was negative.

Chest X-Ray did not present any infiltrations (fig 1). A pelvic-abdominal computed tomography (fig 2 and 3) showed ascites of moderate volume and a pelvic left adnexial tubular lesion with serpiginous morphology with hypothesis of peritoneal tuberculosis with tubular involvement. A diagnostic paracentesis was performed and revealed exsudate findings. The patient underwent exploratory laparoscopic with peritoneal biopsy which confirmed peritoneal tuberculosis. The patient received fourfold antituberculous treatment with isoniazid, rifampicin, pyrazinamide and ethambutol and was discharged from the hospital to continue treatment at home for 6 months. A regular follow-up was performed.

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