Splenic tuberculosis: a rare entity

Vijai Pratap,1 Shanker P Sinha,2 Swapnil S Bumb,3 Dara J Bhaskar3

1Department of Radiodiagnosis, Teerthanker Mahaveer Medical College & Research Centre, Moradabad, Uttar Pradesh, India
2Department of General Surgery, Teerthanker Mahaveer Medical College & Research Centre, Moradabad, Uttar Pradesh, India
3Department of Public Health Dentistry, Teerthanker Mahaveer Dental College & Research Centre, Moradabad, Uttar Pradesh, India

Correspondence to Dr Swapnil S Bumb, drswapnilbumb@gmail.com

DESCRIPTION

Tuberculosis (TB) is a multisystem disease, 90% of which locates primarily in lungs, unlike isolated splenic tuberculosis, a rare form of extrapulmonary TB.1 Patients with AIDS or who are immunocompetent have been reported to be at a high risk for splenic TB.2 Some scholars insist that all patients with splenic TB are secondary to the previous infection of tubercle bacillus in other organs.3

A 53-year-old male patient reported of intermittent left hypochondrium aching pain, occurring after vomiting since past 2 months. He did not report fever, cough or any other respiratory problems. He was diagnosed to have type 2 diabetes mellitus 1 year ago. On examination, it was found that there was no organomegaly and no other abnormalities were detected. No primary focus was found. X-ray findings were normal. On further investigations, ultrasonography of the abdomen and pelvis was performed, which showed splenomegaly with multiple hypoechoic areas, suggestive of granuloma (figure 1), and a CT scan revealed hypodense area in the spleen (figure 2). Para-aortic lymphadenopathy and bilateral renal parenchymal changes were detected in both. Also, fine-needle aspiration cytology was reported to have granulomatous inflammation. Urine protein was present in traces. Serum uric acid (8.4 mg/dL) and calcium were high. Liver function tests were normal. These investigations suggested the patient of having splenic TB. The person was advised not to go for splenectomy as he was diabetic and removal of the spleen would increase chances of infections. The patient was started on antitubercular treatment which showed a rapid improvement in his condition.

Learning points

▸ Spleen is the third most common organ becoming involved in military tuberculosis (TB). Virtually all organ systems may be affected. Owing to haematogenous dissemination in HIV-infected individuals, extrapulmonary tuberculosis seems to be more common today than in the past.
▸ There are many modalities of investigations, yet the diagnosis is usually delayed. Ultrasonography, CT scan and MRI are sensitive investigations but CT scan is preferred for the abdomen. The characteristic CT features of splenic tuberculosis include solitary/multiple nodular or saccular foci or hypodense areas in the spleen.
▸ Splenic TB has a lot of differential diagnosis because of which diagnosis is often delayed. Moreover, typical nodules on the splenic capsule are usually too small to be detected. In differential diagnosis of CT findings, lymphoma, hydatid disease and metastases must be considered.

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