CROHN’S DISEASE OR INTESTINAL TUBERCULOSIS: A DIAGNOSTIC DILEMMA

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Clinical Problem
A 12-year-old boy presented with pain in the abdomen for 5 months and a weight loss of 18 kg in the same period. He used to pass non-bloody loose stools with mucus 2-3 times a day. The examination showed tenderness over the entire abdomen. Investigations showed hemoglobin 9.6 g/dL, white blood cell count 9000/cumm (56% polymorphs, 40% lymphocytes), platelets 9,68,000/cumm, ESR 32 mm at end of 1 hour. Stool examination showed 40-50 pus cells/HPF and 18-20 red blood cells/HPF. Fecal Calprotectin was more than 800 µg/mg. A colonoscopy revealed ulcers in the sigmoid colon, transverse colon, ascending colon, ileocaecal valve, caecum, and terminal ileum. Histopathology of the ileocaecal biopsy showed surface ulcerations, moderate lymphoplasmacytic, as well as neutrophilic, infiltrate with multinucleated giant cells and occasional granulomas. Colonic mucosa had multinucleated giant cells and acid-fast staining was negative. Quantiferon TB Gold and tuberculin skin test (TST) was negative. ANA was negative.

How to differentiate between Crohn’s disease and intestinal tuberculosis?

Discussion
Diagnosing inflammatory bowel disease (IBD) poses two major problems. One is a lack of gold standard represented by histological or serological confirmation; second is the number of conditions mimicking IBD. Tuberculosis (TB) and Crohn’s disease (CD) have different etiologies, the former being an infectious disease, and the latter an immune-mediated (CD) have different etiologies, the former being an infectious disease, and the latter an immune-mediated infectious disease. The decision to withhold ATT in a child with a chronic infectious disease confirms the diagnosis of TB. Conversely, a poor response to ATT suggests either drug-resistant TB or CD. In our patient, treatment for Crohn’s disease was initiated due to chronicity, growth failure, very high levels of fecal calprotectin and occasional non-caseating granuloma with negative AFB stain. Direct visualization of the gastrointestinal mucosa by endoscopy and histopathological examination establishes a diagnosis in CD. The decision to withhold ATT in a child with a chronic gastrointestinal inflammatory disorder in India with a high prevalence of tuberculosis is difficult, especially in ambiguous cases.

Compliance with Ethical Standards
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References:

