Primary gastric tuberculosis

Primary gastric tuberculosis is rare, and the diagnosis depends on a high index of suspicion [1]. We present a case of gastric tuberculosis and gastric submucosal tumor with an unusual appearance in an immunocompetent adult with no pulmonary involvement.

A 68-year-old man presented with epigastric pain, which he had been having for a few months. He had been referred to us for a suspected gastric tumor following an endoscopy at another hospital. An abdominal computed tomography (CT) scan revealed a 4 × 3 cm mass with homogeneous density arising from the greater curvature of gastric antrum and infiltrating the surrounding omentum (Fig. 1).

Gastroscopy showed an enlarged gastric fold, 3–4 cm in length, in the lower part of the body of the stomach and extending into the antrum on the side of the greater curvature. A small ulcer is seen on the top (Fig. 2).

Endosonography showed the lesion extending into the deep mucosa and the submucosal layer of the thickened gastric wall. The muscularis propria was mildly thickened (Fig. 3).

Histopathological examination of the surgical specimen revealed necrotizing granulomatous inflammation with foci of Langhans giant cells with multiple peripherally located nuclei. The lesion was adherent to the mesocolon. The patient underwent subtotal gastrectomy and segmental resection of the transverse colon because the lesion was adherent to the mesocolon and the transverse colon, mimicking a localized malignancy. Histopathological examination of the surgical specimen revealed necrotizing granulomatous inflammation with foci of Langhans giant cells. 

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gerhans giant cells, involving the whole gastric wall. (Fig. 4) Acid-fast staining did not reveal any acid-fast bacilli, but a polymerase chain reaction (PCR) test for tuberculosis was positive. Accordingly, a diagnosis of gastric tuberculosis was made. The patient’s condition stabilized post operatively and he was discharged. Tuberculosis may involve any part of the gastrointestinal tract, in particular, the ileocecal region [2], and mostly occurs secondary to pulmonary or other systemic tuberculosis. Primary, isolated gastric tuberculosis is rare, and gastric tuberculosis sometimes mimics gastric cancer, [3] which occurs in about 10% of gastric tuberculosis cases [4]. If gastric tuberculosis is clinically suspected, PCR test of the biopsy specimen provides a faster, alternative route for diagnosis while excluding Crohn disease with 100% specificity and 27%–75% sensitivity [5].

References
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Corresponding author
H. Z. Yeh, MD
Division of Gastroenterology
Taichung Veterans General Hospital
No. 160, Sec. 3 Chung-Kang Road
Taichung
Taiwan
R.O.C. 40705
Fax: +886-4-23595046
hzen.yeh@msa.hinet.net