Syphilitic gastritis: a rare presentation of secondary syphilis

Mohammed Osman,1 Saqib Hasan,2 Qazi Azher,1 Mamoon Elbedawi,3 Ghassan Bachuwa1

DESCRIPTION
A 55-year-old woman presented to the hospital with vomiting and epigastric pain for 3 weeks and coffee-ground vomitus for 1 day. She reported 6 kg of weight loss over a 1-month period. The patient had been sexually active with the same male partner for the past 20 years but reported her partner to be promiscuous. Physical examination was remarkable for epigastric tenderness. CT of the abdomen showed mural thickening of the stomach (figure 1). Upper endoscopy showed erythema and friable mucosa with nodularity (figure 2). Multiple biopsies revealed gastric syphilis with interstitial metaplasia, and immunostaining showed numerous Treponema pallidum (figures 3 and 4). Rapid plasma reagin (RPR) titre was 1:128 (normal: non-reactive). The patient received one dose of intramuscular penicillin G 2.4 million units and reported full resolution of her symptoms on 3 months’ follow-up. Repeat RPR titre 3 months after treatment was 1:32, repeat upper endoscopy at the same time showed resolved inflammation and absent T. pallidum on staining. The patient tested negative for HIV.

Involvement of the stomach by syphilis during the secondary phase has been described since the 18th century, with the first two cases described in 1834.1 Due to the rarity of the disease and the non-specific symptoms and signs, it is not well recognised by many

Figure 1 Coronal section of abdominal CT showing diffuse mural thickening of the stomach wall (white arrows).

Figure 2 Upper endoscopy showing erythema, nodularity and friable mucosa of the stomach.

Figure 3 (A) Gastric mucosa with chronic inflammatory changes consisting of lymphocytes and plasma cells in the lamina propria. Reactive gastric mucosa is seen with focal intestinal metaplasia (H&E original magnification x100). (B) Gastric tissue with reactive mucosa showing many plasma cells and a cross section of blood vessel (H&E, original magnification x400).
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Figure 4  (A and B) Immunohistochemical staining for Treponema pallidum is positive in the lining epithelium and in the lamina propria (immunohistochemical staining, original magnification x400).

Learning points

► Syphilitic gastritis is one of the rare manifestations of syphilis that is not well recognised by physicians.
► The majority of patients affected by syphilitic gastritis lack other signs and symptoms of syphilis and no previous history of primary infection.
► Diagnosis of syphilitic gastritis rely on the combination of history, physical, radiological, serological and pathological findings. Treatment with penicillin based on the clinical stage of syphilis is curative.

of the disease is usually followed by a complete resolution of the symptoms.1

Contributors  MO carried out the literature review, wrote the initial draft of the manuscript, revised it critically, collected the images, approved the final version to be published and made sure all the information presented in the manuscript was accurate. SH edited the manuscript, revised it critically, approved the final version to be published and made sure all the information presented in the manuscript was accurate. QA, ME and GB edited the manuscript, revised it critically, approved the final version to be published and made sure all the information presented in the manuscript was accurate.

Funding  This research received no specific grant from any funding agency in the public, commercial or not-for-profit sectors.

Competing interests  None declared.

Patient consent  Obtained.

Provenance and peer review  Not commissioned; externally peer reviewed.

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