A 44-year-old Asian woman presented at hospital with a 3-week history of epigastric pain and early satiety. Physical examinations showed normal findings except for a minimally anemic appearance. Laboratory evaluation revealed a normal leukocyte count and serum protein level, a slight increase in the platelet count \( (343 \times 10^9/L) \) and C-reactive protein level \( (13.9 \text{ mg/L}) \), and a small decrease in hemoglobin \( (11.6 \text{ g/dL}) \). Serologic tests for syphilis were positive for rapid plasmin reagin (RPR) and \( \text{Treponema pallidum} \) reagents. Serological findings for human immunodeficiency virus (HIV) were negative.

Upper gastrointestinal endoscopy revealed multiple, geographic, irregular ulcers from the gastric body to the pylorus (Fig. 1 a, b). The rapid urease test for \( \text{Helicobacter pylori} \) was negative. Ultrasonic gastroscopy revealed a slightly thickened gastric mucosa and interrupted submucosa associated with ulcerous lesions (Fig. 1 c). A computed tomographic scan of the abdomen with contrast showed non-specific mural thickening involving the gastric antrum (Fig. 1 d). Gastric biopsies were performed and pathological analysis revealed tissue necrosis and an inflammatory infiltrate that was rich in lymphocytes, but evidence of malignancy was absent (Fig. 2 a). Warthin–Starry staining revealed a mass of spirochetes that were infiltrating mucosal glands and vessels throughout the lamina propria (Fig. 2 b). The patient was treated with ceftriaxone \( (2 \text{ g/day}, \text{ intravenously}) \) because of having an allergy to penicillin. The patient’s clinical complaints promptly disappeared, and endoscopic appearances subsequently improved.

Gastric syphilis is usually seen following secondary syphilis, and the rate of gastric involvement is only 1% [1]. Endoscopy may reveal superficial ulcers with edematous mucosa, hyperplastic nodules, and hypertrophy of the rugae, which could be mistakenly considered as gastric carcinoma or lymphoma. In the histological diagnosis, dense lymphocytic infiltrates might easily be confused with lymphoma when lymphocytic phenotypes have not been identified [2]. In summary, when gastrointestinal findings such as those described in this report are observed, gastric syphilis should be considered as an important diagnosis of suspicion in view of its non-specific presentation.

Competing interests: None

Yonghua Shen\(^1\), Ling Nie\(^2\), Ming Zhang\(^1\), Bei Tang\(^1\), Zhengyan Qin\(^1\), Kui Meng\(^2\), Ying Lu\(^1\)

\(^1\) Department of Gastroenterology, Affiliated Drum Tower Hospital of Nanjing University, Medical School, Nanjing, People’s Republic of China

\(^2\) Department of Pathology, Affiliated Drum Tower Hospital of Nanjing University, Medical School, Nanjing, People’s Republic of China
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Corresponding author
Ying Lu, MD
Department of Gastroenterology
Affiliated Drum Tower Hospital of Nanjing University
Medical School
No. 321 Zhongshan Road
Nanjing 210008
People’s Republic of China
Fax: +86-025-83105206
lying1999@126.com

Fig. 2 Histopathological analysis of gastric biopsy specimens from a 44-year-old woman presenting with gastric syphilis. a Hematoxylin–eosin staining (×200 magnification). b Warthin–Starry staining (×1000 magnification).