Endoscopy was performed for the purpose of screening for synchronous upper gastrointestinal cancer. This showed multiple small round erosions with brownish halos, ranging from 5 to 10 mm, over the entire cardia and body (Fig. 2a, b).

The endoscopic appearance was suspected to be due to gastric syphilis, and biopsy specimens from the oropharynx and the stomach proved the presence of spirochetes of *Treponema pallidum* using Warthin-Starry silver staining and immunohistochemical technique (Fig. 2c).

On the specific serological tests for *Treponema pallidum*, a rapid plasma regain (RPR) test was positive for a titer of 1:64 and *Treponema pallidum* hemagglutination (TPHA) revealed a titer of 1:5120. The patient was subsequently tested for the human immunodeficiency virus (HIV), with negative result. The patient was diagnosed with oropharyngeal and gastric syphilis and treated with penicillin for a month.

Careful endoscopic examination could allow the correct diagnosis of oropharyngeal syphilis to be made despite the false-positive FDG-PET result.

References


A case of primary oropharyngeal and gastric syphilis mimicking oropharyngeal cancer

We report a case of oropharyngeal and gastric syphilis mimicking oropharyngeal cancer due to increased FDG uptake.

A 48-year-old man with an oropharyngeal tumor and cervical lymphadenopathy underwent a medical examination at our hospital. Although these lesions were strongly suggestive of oropharyngeal cancer judging from the nasopharyngeal findings (Fig. 1a), CT scan, and, especially, FDG-PET, which showed a high level of accumulation (Fig. 1b), histological study of the oropharynx showed nonspecific inflammation without malignant cells.

([18F]Fluorodeoxyglucose uptake on positron emission tomography (FDG-PET) is one of the most valuable imaging methods by which to establish tumor extent and size, to assess nodal disease, and to detect distant metastasis in head and neck cancer. For this reason, FDG-PET imaging has been reported to be useful for preoperative or preradiotherapy staging [1,2]. However, high FDG uptake can be observed in inflammatory diseases [3–5]; thus, it is important to suspect inflammatory or infectious diseases even in cancer patients to avoid a false-positive interpretation.)

Bibliography
Endoscopy 2008; 40: E235–E236
© Georg Thieme Verlag KG Stuttgart - New York - ISSN 0013-726X

Corresponding author
S. Tamura, MD
Department of Surgery, Kansai Rosai Hospital
1-69 3-Chome, Inabaso
Amagasaki
Hyogo 660-8511
Japan
Fax: +81-6-6419-1870
stamura@kanrou.net