A 45-year-old man was admitted to the intensive care unit for the management of septic shock secondary to infection with *Salmonella enteritidis*. The patient was also found to have *Pneumocystis jiroveci* and *Mycobacterium avium* pneumonia. Further work-up revealed him to be HIV-positive, with a CD4 count of 125/mm³. The patient was started on a treatment regimen of cefotaxim, trimethoprim/sulfamethoxazole, prednisolone, clarithromycin, and ethambutol. He developed severe malnutrition (body mass index 13.2 kg/m², serum albumin 14 g/L) and was referred to our endoscopy center for placement of a percutaneous endoscopic gastrostomy.

Esophagogastroduodenoscopy revealed a whitish nodular pattern in the second part of the duodenum (Fig. 1) and biopsies were obtained from this region. Pathological examination of these nodules showed extensive infiltration of the lamina propria with foamy histiocytes (Fig. 2); tests were positive for periodic acid–Schiff reagent (Fig. 3) and acid-fast staining (with diffuse bacillary inclusions, as shown in Fig. 4) and negative for cytomegalovirus immunohistochemistry. Duodenal biopsy cultures were positive for *M. avium* and a diagnosis of *M. avium* gastrointestinal infection in a patient with recently diagnosed advanced AIDS was made. Despite intensive care and specific treatment with clarithromycin and ethambutol, the patient died of acute respiratory distress syndrome.

*M. avium* is the most common mycobacterium implicated in infections of the gastrointestinal tract in AIDS. It usually causes fever, diarrhea, and weight loss. Possible duodenal endoscopic findings are: normal mucosa, erythema, whitish exudate, and nodules mimicking Whipple’s disease, this last appearance being the most distinctive feature [1–4]. Notably, this Whipple-like appearance is not only an endoscopic feature but is also seen on microscopic examination on standard staining (but not on acid-fast staining). A similar endoscopic pattern has also been described in a patient with gastrointestinal *Mycobacterium genavense* infection complicating advanced AIDS [5].

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**Fig. 1** Upper digestive tract endoscopy revealed a whitish nodular pattern in the second part of the duodenum.

**Fig. 2** Histological view of duodenal biopsy tissue (hematoxylin–eosin–safran stain, original magnification × 40).

**Fig. 3** Histological view of duodenal biopsy tissue after staining with periodic acid–Schiff stain, original magnification × 400.
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Fig. 4 Histological view of duodenal biopsy tissue after staining with acid-fast stain (original magnification × 200).

Bibliography
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