A 70-year-old white man had been aware of mild memory loss, arthralgia, and altered bowel habits for 3 years prior to his referral. His gastrointestinal symptoms had worsened during the 2-month period preceding his referral, with diarrhea (five to six bowel movements of fatty stools per day) and a 4-kg weight loss. His laboratory workup, including thyroid function and human immunodeficiency virus (HIV) screening, was unremarkable. Colonoscopy showed normal colonic mucosa but ileoscopy revealed a diffuse brown appearance of the mucosa with scattered white plaques (Fig. 1). Biopsy specimens taken from the terminal ileum revealed foamy macrophages in the lamina propria (Fig. 2a) that stained positively with the periodic acid–Schiff (PAS) reaction (Fig. 2b). A negative acid-fast stain excluded *Mycobacterium avium* complex (MAC) infection. The duodenum appeared normal and biopsies showed no abnormalities. Treatment with trimethoprim–sulfamethoxazole for 1 year was instituted with prompt symptom resolution and 12-kg weight gain after 6 months.

Whipple’s disease is a rare chronic multisystem infection caused by *Tropheryma whippeli*. PAS-positive small-bowel biopsy specimens obtained during upper gastrointestinal endoscopy are usually diagnostic in the appropriate clinical setting, although polymerase chain reaction (PCR) tissue analysis is increasingly being used [1]. The reported small-bowel endoscopic features include edema and brown discoloration of the mucosa, erythematous spots, and subepithelial hemorrhages [2], which seem to disappear distally, usually in a continuous fashion [3]. Concomitant endoscopic disease of the terminal ileum has also been reported [4, 5] but to our knowledge this is the first description of endoscopic findings isolated to the terminal ileum and biopsy findings diagnostic of Whipple’s disease.

Full imaging of the small bowel (including capsule endoscopy) was not performed due to institutional constraints but we found no other evidence of disease at upper or lower gastrointestinal endoscopy even after biopsy sampling of the duodenum and colon. In the future, colonoscopy with ileoscopy should be considered in the diagnostic workup of patients suspected of having Whipple’s disease.

**Competing interests:** None

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**Fig. 1** Colonoscopy with ileoscopy in a 70-year-old man with a history of diarrhea and weight loss showing diffuse brown discoloration and white plaques affecting the mucosa in the terminal ileum.

**Fig. 2** Biopsy specimen taken from the terminal ileum stained with: a hematoxylin and eosin (H&E; magnification ×10) showing the ileal mucosa with massive infiltration of the lamina propria by macrophages that are packed with Whipple bacilli; b the periodic acid–Schiff (PAS) reaction (magnification ×40) showing the macrophages of the lamina propria filled with red-stained PAS-positive Whipple bacilli.
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DOI http://dx.doi.org/10.1055/s-0032-1325974
Endoscopy 2013; 45: E59–E60
© Georg Thieme Verlag KG
Stuttgart · New York
ISSN 0013-726X

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