A 63-year-old man was seen in consultation for iron deficiency anemia without overt bleeding. Other problems included depression, hypertension, and aortic valve insufficiency. Medications included escitalopram oxalate, metoprolol, and furosemide. Upper endoscopy with small-bowel biopsies was normal. Colonoscopy revealed a 1.5-cm sessile polyp in the descending colon, which was removed with hot snare polypectomy. Examination of the terminal ileum was unremarkable. Histopathology revealed villous adenoma with low grade dysplasia. The patient began therapy with ferrous sulfate for his iron deficiency. His anemia resolved and his iron counts returned to normal. Surveillance colonoscopy 1 year later revealed no more polyps. The terminal ileum revealed a speckled pattern of brown hyperpigmentation beginning from the ileocecal valve and extending up to 10 cm proximally (Fig. 1). Biopsy revealed brown pigment deposition within macrophages in the lamina propria of normal villi (Fig. 2). A positive Prussian blue stain indicated hemosiderin deposition (Fig. 3). HMB-45 staining for melanoma was unremarkable. Capsule endoscopy was done to assess the remaining small bowel. It appeared normal except for findings in the terminal ileum, which were identical to the colonoscopy findings (Fig. 4). As the anemia had resolved, iron therapy was discontinued. Follow-up hemoglobin and iron studies 6 months later remained normal.

Pseudomelanosis of the gastrointestinal tract has been described from the esophagus through to the colon. Pseudomelanosis isolated to the ileum is extremely rare and the literature is limited to a few case reports [1,2]. Iron deposition has been associated with gastrointestinal bleeding, hemochromatosis, chronic renal failure, enteric iron, and several antihypertensive medications [3]. This case report strengthens the association between pseudomelanosis of the small bowel and oral iron therapy. Although a rare entity, physicians should be aware of it to facilitate a prompt diagnosis and avoid unnecessary testing.

Competing interests: None

Endoscopy_UCTN_Code_CCL_1AD_2AJ
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Bibliography
Endoscopy 2010; 42: E243 – E244
© Georg Thieme Verlag KG Stuttgart · New York · ISSN 0013-726X

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