Severe colitis related to granulomatosis with polyangiitis (Wegener’s granulomatosis)

A 58-year-old man presented with weakness, cough, weight loss, and intermittent painless rectal bleeding showing 2 weeks. He was on no medication and gave no history of smoking or alcohol use. His family history was unremarkable. On examination, his abdomen was soft and diffusely tender. Blood tests showed the following results: white cell count \(13 \times 10^9/L\), hemoglobin \(8.1 \text{ g/dL}\), alanine aminotransferase \(31 \text{ U/L}\), albumin \(2.9 \text{ g/dL}\), creatinine \(0.5 \text{ mg/dL}\), erythrocyte sedimentation rate (ESR) \(93 \text{ mm/h}\), CRP \(160 \text{ mg/L}\), complement C3 \(0.63 \text{ g/L}\) (normal range \(0.8–1.52 \text{ g/L}\)) with no hypergammaglobulinemia. Proteinase 3 antineutrophil cytoplasmic antibody (ANCA) and myeloperoxidase ANCA were negative.

Colonoscopy showed extensive deep ulcer craters covered with fibrinous exudates (Fig. 1). Biopsies from an ulcer in the rectum were carefully performed. Thoracic computed tomography (CT) showed bilateral perihilar infiltration, and ground-glass opacities and areas of consolidation in the middle right and left lobe (Fig. 2). Because of the high suspicion of ischemia on colonoscopy, angiography was performed. This showed incomplete stenosis in the proximal portion of the left internal iliac artery (Fig. 3). Repeat colonoscopy after 8 weeks of intensive immunosuppressive therapy showing regression of the deep ulcers (Fig. 4).

GPA, also known as Wegener’s granulomatosis, is an idiopathic ANCA-positive vasculitis involving vessels of small and medium size in many organs [1]. The respiratory tract, lungs, and kidneys are the organs most often affected; it very rarely involves organs of the gastrointestinal system. Gastrointestinal involvement has been described in 10%–24% of patients with GPA [2]. From the reports in the literature, cases respond well to intensive immunosuppressive treatment [3], but close follow-up is required to monitor for relapse and determine the involvement of other organs.

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Competing interests: None

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