A 37-year-old man presented with severe myalgia associated with abdominal pain and offensive-smelling diarrhea. He had an erythematous rash on his face, torso, and arms. His creatine kinase was raised at 30,145 IU/l (normal range 33–199 IU/l). Electromyography suggested myositis and a muscle biopsy confirmed a diagnosis of dermatomyositis. On abdominal computed tomography he was found to have an edematous large bowel, with an appearance suggestive of inflammatory bowel disease. Fecal microscopy and stool cultures were unrevealing. Flexible sigmoidoscopy showed multiple, punctate hemorrhagic lesions (Figure 1). Biopsies showed a blue fringe along the surface of the colonic epithelium that was suggestive of spirochetosis (with no evidence of cytomegalovirus infection). The patient denied having any occupational contact with animals and he had not been abroad for several years. HIV serology was negative; *Borrelia burgdorferi* IgG/IgM antibodies and parvovirus B19 IgM antibodies were undetectable.

The patient went on to develop nasal speech and respiratory depression that necessitated the institution of ventilatory support. He was treated with steroids and azathioprine for the dermatomyositis and he made a slow but full recovery after 6–7 weeks. Repeat sigmoidoscopy revealed macroscopically normal mucosa despite the persistence of the histological abnormalities (Figure 2). He remains asymptomatic on follow-up.

Colonic spirochetosis is caused by Gram-negative anaerobic bacteria of the *Brachyspira* genus (*B. aalborgi* and *B. pilosicoli*). *B. pilosicoli* causes disease in both humans and animals; *B. aalborgi* affects only humans and higher primates [1]. Intestinal spirochetosis is common in developing countries but the prevalence in the Western world is low (approximately 1%), although it remains high in homosexuals and in HIV-positive patients (30%–50%) [2]. Invasion of spirochetes beyond the surface epithelium is associated with diarrhea, rectal bleeding, and cramped abdominal pains; noninvasive infections are asymptomatic. The diarrhea is usually self-limiting but it is quite common for patients to develop some degree of persistent subclinical infection. Treatment with benzylpenicillin or metronidazole is otherwise effective antimicrobial therapy.

The association of dermatomyositis with spirochetal infection (*Borrelia*) has already been reported [3]. To the best of authors’ knowledge, *Brachyspira*-associated dermatomyositis has not been previously described in the English-language literature.

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