A 75-year-old woman with severe mixed connective tissue disorder and hypertension presented with worsening diarrhea, nausea and vomiting. On admission she complained of 10–12 episodes of watery diarrhea which also occurred at night. The patient had suffered from diarrhea for 2 months, and during these last 2 months she had received antibiotic therapy twice, first to treat a pneumonia and then to treat a urinary tract infection. When she first developed diarrhea it was assumed that it was antibiotic-associated and she was given empiric therapy for *Clostridium difficile* infection. Her diarrhea had improved slightly, but the stool had remained soft until a week prior to the present admission, when worsening watery diarrhea had begun again. The bowel movements were associated with tenesmus but without passage of blood or mucus. The patient was taking the following medications: oral corticosteroids, CellCept, amloidipine, metoprolol, torasemid, and potassium chloride. She was admitted with clinical and laboratory evidence of dehydration. Physical examination was notable for a low-grade fever (37.9°C). The abdomen was tympanitic, with normal bowel sounds, tenderness to palpation in both lower quadrants, but no rebound pain. Digital rectal examination revealed liquid yellow, guaiac-positive stool. Laboratory values (normal values in parentheses) on admission were notable for white blood cell count of 12 800/µl (4.300–10.000/µl), hemoglobin 6.5 g/dl (12.0–16.0), albumin 2.3 g/dl (3.5–5.5), creatinine 208 µmol/ml (<120), and C-reactive protein of 230.2 (<5). Stool pseudomembranous colitis. There were no histologic findings suggestive of inflammatory bowel disease, ischemic colitis or viral infection [1]. Immunohistochemical stains were negative for cytomegalovirus (CMV). Based on the endoscopic findings, treatment with oral metronidazole was initiated. Immunosuppressive therapy was temporarily discontinued. Despite therapy with metronidazole, the patient had persistent diarrhea. Final stool culture results disclosed *Salmonella enterica* serotype infantis colitis. Antibiotic therapy was changed to ceftriaxone, after which she showed gradual improvement. Colonoscopy performed 4 weeks later was entirely normal. At follow-up, 4 months later, she did not have any diarrhea. Our case has potential important clinical implications because it demonstrates that pseudomembranous colitis may occur secondary to other micro-organisms besides *C. difficile*. A *C. difficile* cytotoxin assay that has 94% to 100% sensitivity was negative on these occasions. A review of the literature revealed that there can be other etiologies for pseudomembranous colitis, such as CMV, *Shigella*, and *Plesiomonas shigelloides*, as well as ischemia, and medicines such as gold and diclofenac [2–5]. In a recent endoscopic study, Yuani et al. suggested that pseudomembranes can also be part of the spectrum of collagenous colitis itself [6]. Our case, like others, emphasizes that pseudomembranes may not be pathognomonic for *C. difficile* colitis. We believe that *Salmonella* colitis should be added to the list of potential etiologies of pseudomembranous colitis [2–5]. In summary, in the presence of pseudomembranous colitis and negative *C. difficile* assays, further investigations should be performed to try to establish an alternative etiology and institute appropriate therapy.

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References


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