A 52-year-old woman was admitted to our hospital for initiation of treatment for ulcerative colitis. She was given a 2-week course of ganciclovir because she was positive for cytomegalovirus (CMV) antigens. Colonoscopy was performed 2 months after she started prednisolone treatment, which showed multiple ulcers with a well-defined, punched-out appearance, erosions, and diffuse redness in the colon. The colonoscopic findings were consistent with ulcerative colitis exacerbated by CMV infection. Multiple biopsy specimens were taken using a standard biopsy forceps (2.2-mm cup, non-spiked). A pinhole-like perforation occurred at the time of the biopsy of the rectal ulcer base (Figure 1). Computed tomography revealed a pneumoretroperitoneum (Figure 2). A diagnosis of retroperitoneal perforation was made and she was treated with an antibiotic and remained on a nil-by-mouth regime for 1 week. Because the patient still tested positive for CMV antigens, a 2-week course of treatment with gancyclovir was started on day 71. The patient made a rapid and uneventful recovery and was discharged on day 84.

Many instances of perforation in cases of CMV-related ulcer, some of them in patients with ulcerative colitis, have been reported and these ulcers are suspected to have been caused by vascular ischemia of the gut wall [3,4]. The colorectal wall may be extremely thin at the ulcer base and may be liable to rupture. We should therefore perform endoscopic biopsy in such patients with extreme care or should not biopsy at all if CMV infection is obvious on the basis of endoscopic findings or CMV antigenemia.

References


Corresponding author

H. Miyatani, MD
Department of Gastroenterology, Jichi Medical University, Omiya Medical Center, Omiya, Saitama, Japan.

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