A previously healthy, 69-year-old woman underwent a screening colonoscopy in November 2005. A 1-cm polyp was found in the sigmoid colon and was resected by snare polypectomy. The patient developed mild lower abdominal pain and passed some bloody stools 6 hours after the procedure. She was subsequently admitted and a sigmoidscopy was performed without bowel preparation in order to evaluate the postpolypectomy bleeding. The sigmoidscopy revealed markedly inflamed mucosa, but no ulceration (Figure 1). During the same period, a total of six patients developed similar symptoms, symptoms that have not been encountered in our endoscopy unit in the past 20 years. Abdominal computed tomography performed in another similar patient (aged 72 years) showed involvement of the rectum and sigmoid colon only (Figure 2). All the microbiological studies in these patients were negative. The patient’s symptoms resolved 3 days after bowel rest and intravenous fluid supplementation.

Glutaraldehyde, a disinfectant commonly used in flexible endoscopes, is a rare cause of postcolonoscopic colitis. In 1986, Castelli et al. [1] reported the first outbreak of postcolonoscopy colitis, and this was attributed to retained glutaraldehyde in the colonoscope channel. Patients typically develop abdominal pain, tenesmus, and bloody diarrhea within 48 hours of the endoscopic examination [1–4]. Repeat endoscopy may reveal edema, hyperemia, friability, or pseudomembrane formation in the involved colon. Biopsy can reveal nonspecific inflammation or findings that mimic ischemic colitis. Computed tomographic findings are also nonspecific, and can include mural thickening and sometimes pericolonic inflammatory stranding [5,6]. Most of these findings are confined to the distal colon. The symptoms usually subside spontaneously after bowel rest.

Endoscopists should be aware of this iatrogenic complication in patients presenting with acute colitis, especially in those with a known history of recent endoscopic examination. Once such a complication occurs, identification of the cause is mandatory in order to avoid further cases of chemical colitis [1–4]. Possible causes of this complication include failure to follow the rinsing protocol, or defects in the endoscope, cleansing machine, or connecting tube.

References

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