

A 19-year-old woman was admitted to our hospital with a 3-month history of bloody diarrhea and abdominal pain. On examination, she had some tenderness of the lower abdomen. Routine stool culture was negative. Blood tests showed that the white blood cell count was normal (7600/ $\mu$ L), but that the neutrophils were slightly increased (71.9%); the C-reactive protein was 4.49 mg/dL. Barium enema revealed a small area of nodular (granule-like) mucosa in the lower rectum (Figure 1). There was no inflammation and no nodular lesions from the cecum to the upper rectum. Colonoscopy also showed an erythematous nodular mucosa in the lower rectum (Figure 2). Microscopic examination of the rectal biopsy specimens showed well-formed lymphoid follicles and diffuse inflammation in mucosa and lamina propria, with cryptitis. Enzyme immunoassay of chlamydial antigens in the rectal biopsies and specific serum immunoglobulin G antibodies revealed the presence of a *Chlamydia trachomatis* infection. The diagnosis was therefore proctitis caused by *C. trachomatis*. She was found to be HIV-negative. She was treated with oral minocycline and tetracycline and her symptoms and rectal inflammation improved after 1 month.

There are two *C. trachomatis* serovars, LGV (lymphogranuloma venereum) and non-LGV. The LGV serovar causes lymphogranuloma venereum [1]. Proctitis caused by the LGV serovar is very severe and is associated with ulceration and rectal stricture [2,3]. In contrast, proctitis caused by the non-LGV serovar is mild. These types of proctitis are characterized by intraepithelial and intraluminal inflammation, and with well-formed lymphoid follicles consisting of transformed lymphocytes. In our case, mild cervicitis and proctitis were seen. She had not had any unprotected anal intercourse, so her proctitis might have been caused by lymphatic spread of non-LGV infection from the vagina rather than by direct infection. *C. trachomatis* infections are the most prevalent bacterial sexually transmitted infections through-



Figure 1 Barium enema study showing a small area of nodular (granule-like) mucosa in the rectum.

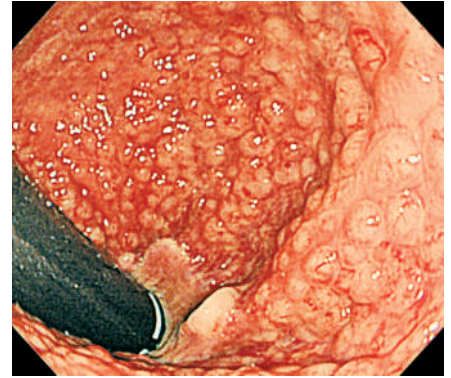


Figure 2 Colonoscopic view of the erythematous, nodular mucosa in the lower rectum. There was no ulceration.

out the world [4,5], and proctitis caused by *C. trachomatis* should be considered in the differential diagnosis of rectal inflammation.

Endoscopy\_UCTN\_Code\_CCL\_1AD\_2AZ

**H. Takedatsu, K. Mitsuyama, H. Yamasaki, M. Itou, T. Toubaru, N. Tomiyasu, O. Tsuruta, M. Sata**

Division of Gastroenterology, Department of Medicine, Kurume University School of Medicine, Kurume, Japan.

#### References

- 1 Paavonen J, Eggert-Kruse W. Chlamydia trachomatis: impact on human reproduction. Hum Reprod Update 1999; 5: 433–447
- 2 Quinn TC, Taylor HR, Schachter J. Experimental proctitis due to rectal infection with Chlamydia trachomatis in nonhuman primates. J Infect Dis 1986; 154: 833–841
- 3 Davis BT, Thiim M, Zukerberg LR. Case records of the Massachusetts General Hospital. Case 2–2006: a 31-year-old, HIV-positive man with rectal pain. N Engl J Med 2006; 354: 284–289
- 4 Adderley-Kelly B, Stephens EM. Chlamydia: a major health threat to adolescents and young adults. ABNF J 2005; 16: 52–55
- 5 Rompalo AM. Diagnosis and treatment of sexually acquired proctitis and proctocolitis: an update. Clin Infect Dis 1999; 28: 84–90

#### Corresponding author

**K. Mitsuyama, MD**

Division of Gastroenterology  
Department of Medicine  
Kurume University School of Medicine  
67 Asahi-machi  
Kurume  
Fukuoka 830-0011  
Japan

Fax: +81-942-34-2623

Email: ibd@med.kurume-u.ac.jp