A 68-year-old man was referred to our hospital for HIV treatment. He noticed melena on admission. Laboratory data showed anemia, with a hemoglobin level of 8.2 g/dL. The CD4 lymphocyte count was 101 cells/µL. Esophagogastroduodenoscopy (EGD) showed two ulcerative lesions in the second part of the duodenum and in the inferior duodenal angulus (Fig. 1). These well-demarcated lesions consisted of an ulcer with a clean base and a regular elevated margin that had an auricle-like shape and many scattered tiny white spots. Histological examination of the biopsy specimens confirmed the diagnosis of diffuse large B-cell lymphoma (DLBCL). Immunochemical staining was positive for L-26 (CD20) (Fig. 2).

Antiretroviral therapy (ART) was started for HIV treatment. After ART, the patient received six cycles of R-CHOP (rituximab, cyclophosphamide, doxorubicin, vincristine, and prednisolone) chemotherapy. Follow-up EGD showed tumor regression. Non-Hodgkin’s lymphoma is a common malignancy in HIV-positive individuals, and the gastrointestinal tract is one of the most common extranodal sites. However, HIV-associated duodenal lymphomas are very rare [1–3]. The endoscopic findings in AIDS-associated lymphoma are reported to be similar to those for gastrointestinal lymphomas in immunocompetent patients: polypoid, bulky lesions or well-defined ulcers are found in combination or as single lesions [4]. The most common HIV-associated lymphomas are Burkitt’s lymphoma and DLBCL. Although the incidence of follicular lymphoma in the duodenum is relatively higher than in other portions of the gastrointestinal tract [5], follicular lymphoma has not been reported in HIV-infected patients. Our patient was diagnosed with DLBCL and showed an excellent response to the R-CHOP chemotherapy administered after ART.

If unique duodenal ulcerative lesions are found, HIV-associated duodenal lymphoma should be considered as a rare differential diagnosis. Furthermore, accurately diagnosing DLBCLs by endoscopic biopsy is very important in such cases because HIV-associated lymphomas of the gastrointestinal tract have a poor prognosis [4] and require aggressive treatment.

Competing interests: None
S. Nakazuru1, T. Yoshio1, Y. Ogawa2, K. Yuguchi1, H. Hasegawa1, Y. Sakakibara1, Y. Kodama3, T. Uehira4, E. Mita1

1 Department of Gastroenterology and Hepatology, National Hospital Organization, Osaka National Hospital, Osaka, Japan
2 Department of Hematology, Osaka City General Hospital, Osaka, Japan
3 Department of Pathology, National Hospital Organization, Osaka National Hospital, Osaka, Japan
4 AIDS Medical Center, National Hospital Organization, Osaka National Hospital, Osaka, Japan

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Corresponding author
S. Nakazuru, MD
Department of Gastroenterology and Hepatology
National Hospital Organization
Osaka National Hospital
2-1-14 Houenzaka
Chuo-ku
Osaka City
Osaka 540-0006
Japan
Fax: +81-6-69463569
nakazuru@onh.go.jp