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EXPERT'S COMMENT

Okochi N *et al.* described a case of intestinal CD4+ T-cell lymphoma, not otherwise specified (NOS) with peritoneal lymphomatosis lacking large intestinal tumors. Findings of peritoneal lymphomatosis are rare in cases of intestinal T-cell lymphoma. Primary intestinal T/NK-cell lymphoproliferative disorders are classified into enteropathy-associated T-cell lymphoma, monomorphic epitheliotropic T-cell lymphoma (MEITL), indolent-type gastrointestinal T-cell lymphoma (GI-TCL), and NOS CD30+ anaplastic large cell lymphoma, nasal-type extranodal NK-cell lymphoma, and CD56+ NK-cell enteropathy without EBV infection.¹ EATL mainly develops in Caucasians, and is composed of CD3+, CD103+, and CD30+/- large cell lymphoma, with approximately half of the patients having celiac disease. MEITL is frequent in East Asia and is unrelated to celiac disease, consisting of CD3+, CD103+, CD8+/-, CD56+/-, and EBER-negative cytotoxic T-cells.² Indolent-type T-cell lymphoma is composed of multiple nodular lesions of small- to medium-sized CD4+ T-cell neoplasia, exhibiting similar findings to MALT lymphoma and long-term survival.^{3,4} GI-TCL, NOS is composed of CD3+ CD4+/-, and CD8-/+ medium- to large-sized lymphoma cells, and patients have an advanced clinical stage with extraintestinal tumor cell invasion and a progressive clinical course. As patients with MEITL or GI-DLBCL often have accompanying perforation of the gastrointestinal wall, peritoneal dissemination of lymphoma cells may be observed.⁵ The current case exhibited peritoneal dissemination, probably due to perforation or mesenteric invasion of intestinal CD4+ TCL without tumor formation. GI-TCL, NOS is a provisional category of aggressive neoplasia and consists of frequent CD4+, occasional CD8+, and CD4-/CD8- neoplastic T cells with frequent cytotoxic molecules.⁴ As there are few reports of GI-TCL, NOS, clear confirmative characteristics are required in the future. Peritoneal lymphomatosis is another special condition with or without symptoms of acute abdomen.⁶ Primary and secondary peritoneal

lymphomatosis are occasionally observed in DLBCL, but they are rare in T/NK-cell lymphoma. Emergency laparotomy is occasionally required for high-grade GI lymphoma due to tumor perforation and peritoneal dissemination. When peritoneal T/NK-cell lymphoma is confirmed by cytological and histological examinations, the GI tract must be examined.

REFERENCES

- 1 van Vliet C, Spagnolo DV. T- and NK-cell lymphoproliferative disorders of the gastrointestinal tract: review and update. *Pathology*. 2020; 52 : 128-141.
- 2 Kikuma K, Yamada K, Nakamura S, *et al.* Detailed clinicopathological characteristics and possible lymphomagenesis of type II intestinal enteropathy-associated T-cell lymphoma in Japan. *Hum Pathol*. 2014; 45 : 1276-1284.
- 3 Kawamoto K, Nakamura S, Iwashita A, *et al.* Clinicopathological characteristics of primary gastric T-cell lymphoma. *Histopathology*. 2009; 55 : 641-653.
- 4 Soderquist CR, Bhagat G. Gastrointestinal T- and NK-cell lymphomas and indolent lymphoproliferative disorders. *Semin Diagn Pathol*. 2020; 37 : 11-23.
- 5 Tanaka H, Ambiru S, Nakamura S, *et al.* Successful diagnosis of type II enteropathy-associated T-cell lymphoma using flow cytometry and the cell block technique of celomic fluid manifesting as massive pyoid ascites that could not be diagnosed via emergency laparotomy. *Intern Med*. 2014; 53 : 129-133.
- 6 Das DK, Al-Juwaiser A, George SS, *et al.* Cytomorphological and immunocytochemical study of non-Hodgkin's lymphoma in pleural effusion and ascitic fluid. *Cytopathology*. 2007; 18 : 157-167

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