Usefulness of confocal laser endomicroscopy for the diagnosis of ileocecal lymphoma

It is often difficult to diagnose malignant lymphoma in the gastrointestinal tract using endoscopy. We report the case of ileocecal lymphoma diagnosed by probe-based confocal laser endomicroscopy (pCLE) (ColoFlex UHD, Cellvizio; Mauna Kea Technologies, Paris, France).

The patient was a 52-year-old man who had a positive fecal occult blood test. He underwent colonoscopy and a tumor was found on the ileocecal valve (Fig. 1). A malignant tumor was suspected and a biopsy was taken. The lesion revealed high lymphocyte infiltration, but malignant lymphoma could not be diagnosed. Further multiple biopsies were taken, but a diagnosis could still not be reached. Subsequently, fluorescein-dripping pCLE [1] was performed.

Within the lesion, pCLE identified numerous small cells with destruction of normal mucosal structure, which was similar to the image of malignant lymphoma that we have observed previously (Fig. 2, Video 1) [2]. Polypectomy was performed, and histopathological assessment showed hyperplasia of moderate-to-large sized atypical lymphocytes (Fig. 3). The cells were immunohistochemically positive for CD20, CD79a, bcl-2, and bcl-6, and negative for CD3, CD5, CD10, and cyclin D1, which resulted in the pathological diagnosis of diffuse large cell lymphoma. The patient was diagnosed as stage I diffuse large cell lymphoma. The patient subsequently received chemotherapy.

As the tumor cell size in the histopathological assessment was close to that of the small cells in the CLE image, we believe that what we observed using pCLE were the lymphoma cells.

Endoscopy_UCTN_Code_CCL_1AC_2AH

Competing interests: None

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References


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DOI http://dx.doi.org/10.1055/s-0042-105647
Endoscopy 2016; 48: E164–E165
© Georg Thieme Verlag KG
Stuttgart · New York
ISSN 0013-726X

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