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Title

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Magnified endoscopic observation with FICE of primary duodenal follicular lymphoma

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Key words: follicular lymphoma, magnified endoscopy, Fuji Intelligent Chromoendoscopy (FICE)
Follicular lymphoma occurs rarely in the gastrointestinal (GI) tract, only 1-3%\(^1\) in all the B-cell derived non-Hodgkin lymphoma of the GI tract. Prior reports has described cases of follicular lymphoma by using advanced endoscopic imaging studies\(^1\)-\(^4\). With narrow band imaging (NBI) and magnification, the lesion of follicular lymphoma is reported to show enhanced whitish area within enlarged villi, together with coiled and elongated vascular pattern\(^1\)^2). According to a previous case report\(^1\), it was also identified as whitish small nodules in the jejunum by using Fuji Intelligent Chromo Endoscopy (FICE). However, observation of FICE in combination with magnified endoscopy in follicular lymphoma has not been reported to date.

A 63-year-old woman was admitted to our hospital due to episodic back and epigastric pain. Upper GI endoscopy showed the whitish, small polypoid lesions with fold convergence in the second portion of duodenum (A) and FICE could clearly identify the small polypoid white lesions (B). Magnified endoscopy showed dilatation and mild irregularity of the villous structures within the lesions (C), and magnifying observation with FICE showed the coiled and elongated microvascular patterns within the lesions (D). Histopathology of endoscopic biopsy specimens taken from the lesions showed the follicular structures consisting of small-sized abnormal lymphoid cells with dense nuclei within the mucosal layer (E). Immunohistochemical analysis revealed that the neoplastic cells were positive for CD10 and CD20, but negative for CD3 and cyclin D. Bcl-2 protein was
substantially expressed in the cytoplasm of most of the neoplastic cells (F), and hence, she
was diagnosed as having duodenal follicular lymphoma.

We report a rare case of the duodenal follicular lymphoma observed by magnified
endoscopy with FICE, providing new endoscopic imaging to detect the abnormality in the
microvascular and microsurface patterns of this type of GI lymphoma.

Reference

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