Follicular lymphoma occurs rarely in the gastrointestinal tract, comprising only 1%–3% of all B-cell non-Hodgkin lymphomas of the gastrointestinal tract [1]. Prior reports have described cases of follicular lymphoma by using advanced endoscopic imaging [1–4]. With narrowband imaging (NBI) and magnification, follicular lymphoma is reported to show as enhanced whitish areas within enlarged villi and with a coiled vascular pattern [1, 2]. According to a previous case report [1], the lesion was also identified as whitish small nodules in the jejunum by using Fuji Intelligent Chromo Endoscopy (FICE). However, 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 with episodic back and epigastric pain. Upper gastrointestinal endoscopy showed small, whitish polypoid lesions with fold convergence in the second portion of the duodenum (Fig. 1a), and FICE could clearly identify the small polypoid white lesions (Fig. 1b).

Magnified endoscopy showed dilatation and mild irregularity of the villous structures within the lesions (Fig. 2a), and magnifying observation with FICE showed coiled and elongated microvascular patterns within the lesions (Fig. 2b). Histopathology of endoscopic biopsy specimens taken from the lesions showed the follicular structures which consisted of small abnormal lymphoid cells with dense nuclei within the mucosal layer (Fig. 3a).

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 (Fig. 3b), and hence the patient was diagnosed as having duodenal follicular lymphoma.

We report a rare case of duodenal follicular lymphoma observed by magnified endoscopy with FICE, which provides a new type of endoscopic imaging to detect the abnormality in the microvascular and microsurface patterns of this type of gastrointestinal lymphoma.
Competing interests: None

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