Multiple lymphomatous polyposis (MLP) is characterized by multiple polypoid tumors affecting several segments of the gastrointestinal tract due to involvement in Hodgkin’s or non-Hodgkin’s lymphoma [1–3]. The histologic picture of MLP is in most cases consistent with mantle cell lymphoma, but some patients with mucosa-associated lymphoid tissue lymphoma and follicular lymphoma presenting with MLP have recently been reported [4]. This is the first report of magnifying endoscopic observation of MLP using narrow-band imaging (NBI).

A 74-year-old woman had epigastric pain. Upper gastrointestinal endoscopy revealed multiple protruding lesions in the stomach (Fig. 1a, b).

Magnifying endoscopy combined with NBI showed disappearance of the surface structure and the appearance of abnormal blood vessels looking like tree trunks with long, bare branches on the polypoid lesions (Fig. 2).

Target biopsy specimens of the site with the blood vessels revealed monomorphic diffuse proliferation of medium-sized atypical cells (Fig. 3).

Immunohistochemical analysis was positive for CD20, CD5, and cyclin D1, and negative for CD10, CD23, and CD43, consistent with mantle cell lymphoma. Positron emission tomography combined with computed tomography (PET-CT) showed extensive accumulation in the lymph nodes (maximum standardized uptake value: 6.1). Abnormal accumulation was also observed in the stomach and colon, but not in the small intestine. Colonoscopy revealed multiple flat plate colliculi in the colon. The woman was diagnosed as having stage IV mantle cell lymphoma.

She was treated with six courses of a chemotherapy regimen comprising rituximab added to cyclophosphamide, doxorubicin, vincristine, and prednisone (R-CHOP regimen). In upper gastrointestinal
endoscopic images 7 months after the treatment, the multiple protruding lesions were inconspicuous. On magnifying endoscopic images using NBI, however, the abnormal vessels remained, and target biopsy revealed residual mantle cell lymphoma (Fig. 4).

The vascular abnormality associated with mantle cell lymphoma was easy to detect using magnifying endoscopy combined with NBI. Magnifying endoscopy combined with NBI may improve diagnostic performance in the diagnosis of mantle cell lymphoma.

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