Depressed gastric-type adenoma in nonatrophic gastric mucosa without *Helicobacter pylori* infection

Gastric adenoma is a benign epithelial tumor and is frequently observed as an elevated rather than a depressed lesion and in *Helicobacter pylori*-infected mucosa [1]. We describe a rare case of depressed gastric-type adenoma in nonatrophic gastric mucosa without *H. pylori* infection.

A 59-year-old man was referred to our hospital for further examination and treatment of gastric neoplasia. Endoscopy revealed a whitish depressed lesion, 10 mm in diameter, in the greater curvature of the lower gastric body (▶Fig. 1). Atrophy and intestinal metaplasia were not observed in the background gastric mucosa (▶Fig. 2). Furthermore, serum *H. pylori* antibody, serum pepsinogen, and urea breath tests were all negative, indicating that the gastric mucosa was not infected by *H. pylori*.

Magnifying endoscopy using narrow-band imaging showed an irregular microsurface pattern with round and oval pits and a slightly irregular microvascular architecture with discordant looped vessels (▶Fig. 3) in the lesion. In accordance with the vascular pattern, surface pattern (VS) classification system [2], these findings were categorized as an irregular microsurface pattern and an irregular microvascular pattern with a demarcation line, which were indications of malignancy. Thus, although the biopsy specimen showed adenoma (▶Fig. 4), endoscopy revealed malignant findings. Endoscopic submucosal resection was performed for histologic evaluation (▶Video 1).

Histologically, the tumor cells showed gastric-type adenoma. Immunohistochemically, the tumor cells were positive for mucin (MUC) 5AC and MUC6 but negative for MUC2 and CD10 (▶Fig. 5 a–d). There are a few reports on depressed-type gastric adenomas in *H. pylori*-noninfected gastric mucosa, and some reports state that some gastric adenomas may progress to adenocarcinoma [3]. There is no consensus about the treatment for gastric adenoma in *H. pylori*-noninfected gastric mucosa. However,
we recommend that endoscopic submucosal dissection as a total biopsy is also necessary. It is important to accumulate further cases to clarify the characteristics of gastric adenomas in *H. pylori*-non-infected gastric mucosa.

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Competing interests

The authors declare no conflicts of interest for this article.

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