Early gastric adenocarcinoma of the fundic gland type

An asymptomatic 79-year-old man had been undergoing esophagogastroduodenoscopy annually since having an endoscopic resection of an intramucosal well-differentiated gastric adenocarcinoma of the middle body 9 years previously. He had also received *Helicobacter pylori* eradication therapy, which had been successful, 10 years previously.

On this occasion, his follow-up esophagogastroduodenoscopy revealed a minute submucosal tumor-like polypoid lesion with some whitish discoloration on the greater curvature of the gastric lower body (Fig. 1a). Narrow-band imaging showed non-neoplastic pits that were slightly dilated (Fig. 1b). Complete resection was attempted using a deep biopsy procedure because a carcinoid tumor was suspected and the size of the lesion was small (approximately 1.6 mm in diameter by comparison to the forceps) (Fig. 1c). Histological examination of the biopsy specimen revealed atypical tubules made up of cells with basophilic cytoplasm (Fig. 2). These were covered with a non-neoplastic epithelium and were invading the muscularis mucosae with fibromuscosulosis. No lymphovascular invasion was observed. Immunohistochemical analysis revealed that these tubules were diffusely positive for pepsinogen I and MUC6, positive for H+/K+ ATPase in scattered locations around the tumor margin, and negative for MUC2, MUC5AC, CD10, and chromogranin A.

The patient was diagnosed with gastric adenocarcinoma of the fundic gland, chief cell predominant type. Endoscopic submucosal dissection was performed, but no remnants of the tumor were present. No evidence of metastasis was observed on a computed tomography (CT) scan 1 year later.

Gastric adenocarcinoma, fundic gland type (GA-FG) has recently been proposed as a new entity of gastric adenocarcinoma [1]. GA-FG chief cell predominant types (GA-FG-CCPs) mostly develop without *Helicobacter pylori* infection [2] and often invade the submucosa independently of size [1,2].

Endoscopically, early GA-FG-CCPs may mimic early carcinoid tumors because both of these tumors are histologically centered in the deep mucosa [3]. It has been reported on endoscopic evaluation that half of GA-FG-CCPs have a submucosal tumor shape with a whitish color [2]. Our case suggests that the early features of GA-FG-CCP include the above characteristics.

Competing interests: None

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