Squamous metaplasia without atypia

An 89-year-old man presented with a 1-month history of anemia. The results of a physical examination were normal. Diagnostic gastrointestinal endoscopy showed advanced atrophic gastritis, multiple ulcer scars, and a whitish, slightly depressed lesion 15 mm in size in the lesser curvature of the antrum (Fig. 1). Squamous metaplasia without atypia was diagnosed based on examination of the specimen obtained from the depressed lesion (Fig. 2).

On narrow-band imaging (NBI) of the same site, dot-like vascular structures were observed (Fig. 3). NBI magnification indicated the presence of intra-epithelial papillary capillary loop (IPCL)-like vascular structures, reflecting the squamous epithelium, which is usually observed in pharyngeal and esophageal areas, not the stomach (Fig. 4).

In previous reports, the endoscopic appearance of gastric squamous metaplasia has been described as that of whitish lesions [1, 2]. Although the pathogenesis of the patient’s squamous metaplasia was unclear, it is well documented that atrophic mucosa and ulcerative lesions are caused by chronic inflammation in the stomach. It was also considered relevant that multipotent stem cells and squamous metaplasia appear in the stomach during the process of ulcer healing [2, 3]. We have reported this case because squamous metaplasia without atypia is rarely seen in the stomach. Moreover, the findings obtained by magnified endoscopy combined with NBI have not been reported for squamous metaplasia to date.

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Shuko Ishida1, Masaaki Masuhara2, Kazuo Mizumoto2, Shingo Yamagata2, Nobuyuki Takahashi2, Yutaka Ishibashi2, Kazutaka Kurokohchi2

1 Department of Internal Medicine, Ohda Municipal Hospital, Ohda City, Japan
2 Ohda General Medicine Education Center, Department of General Medicine, Shimane University Faculty of Medicine, Ohda City, Japan
3 Fourth Department of Internal Medicine, Shimane University Faculty of Medicine, Izumo City, Japan
4 Department of General Medicine, Shimane University Faculty of Medicine, Izumo City, Japan
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Corresponding author

Kazutaka Kurokohchi, MD, PhD
Ohda General Medicine Education Center
Department of General Medicine
Shimane University Faculty of Medicine
1428-3 Yoshinaga
Ohda-cho
Ohda City
Shimane, 694-0063
Japan
Fax: +81-854-84-7749
kazutakaimpact@yahoo.co.jp