Squamous metaplasia of the rectum associated with ulcerative colitis diagnosed using narrow-band imaging

A 61-year-old man with ulcerative colitis attended our hospital for a surveillance colonoscopy. He had been diagnosed with left-sided ulcerative colitis, which had been well controlled by oral 5-aminosalicylic acid for 6 years. No active inflammation was detected in the colon or rectum at colonoscopy, but a small whitish area with a clearly demarcated border, about 5 mm in size, was found in the lower part of rectum (Fig. 1). Small reddish spots were seen within the whitish area, which was surrounded by hyperplastic normal rectal mucosa. Chromoendoscopy using 0.4% indigo carmine dye highlighted the demarcation line of the whitish area (Fig. 2). Narrow-band imaging showed dark-brown dots within this area which corresponded to the reddish spots seen at conventional colonoscopy. These dots were similar in appearance to the intraepithelial capillary loops that are seen in normal esophageal squamous epithelium (Fig. 3).

Although the progression of metaplasia to dysplasia to carcinoma has not yet been established for primary squamous-cell colorectal carcinoma because of its rarity, sporadic cases of squamous metaplasia associated with dysplasia and/or primary squamous-cell carcinoma have been reported [2], and this patient should therefore be carefully followed up. Narrow-band imaging with magnification is a simple and effective method that can be used to detect the presence of the morphological changes of intraepithelial capillary loops for cancer surveillance.

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The presence of squamous epithelium in the colorectum is presumed to represent proliferation of reserve cells after mucosal injury, heterotopic nests of squamous epithelium, or secondary squamous metaplasia [3]. Squamous metaplasia without dysplasia has been reported in the setting of ulcerative colitis, usually in the distal rectal mucosa, but its characteristic endoscopic appearance has been described only rarely [2]. A finding of a thin whitish area with a distinct margin at conventional colonoscopy is reported to be a clue to the diagnosis [4,5]. Lugol chromoendoscopy has been used for confirmation of the conventional endoscopic findings [4]. Recently, narrow-band imaging has been developed as a new endoscopic technique for improved visualization of mucosal surfaces and capillary networks without the use of dyes. In this case, brownish dots detected by narrow-band imaging within the whitish area mimicked the appearance of intraepithelial capillary loops seen in normal esophageal squamous epithelium, and so narrow-band imaging predicted the histology.

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