Inverted sessile serrated polyp diagnosed by magnifying image-enhanced colonoscopy

Recently, improved endoscopic imaging and advancements in diagnostic technology, such as magnifying colonoscopy and image-enhanced endoscopy (IEE), including narrow-band imaging (NBI) systems, have provided a higher rate of detection of superficial and small colorectal tumors. Even a depressed colon cancer as small as 5 mm in size can be correctly diagnosed as submucosal deeply invasive carcinoma with magnifying chroendoendoscopy and then appropriately treated surgically without endoscopic resection [1]. Furthermore, magnifying chroendoendoscopy can differentiate between colorectal neoplastic and non-neoplastic polyps [2]. We report a case of a depressed lesion, about 8 mm in diameter, which was diagnosed as an inverted sessile serrated polyp (SSP) by magnifying image-enhanced colonoscopy before removal.

A 63-year-old man underwent surveillance colonoscopy at our department. Colonoscopy revealed a flat elevated polyp with a central depression, about 8 mm in diameter, in the ascending colon (Paris classification IIa and IIc) (Fig. 1).

No meshed capillary vessel (type I capillary pattern according to Sano’s classification) was detected on the surface of the polyp by NBI with magnification (Fig. 2) [3]. After the dye-spraying of 0.4% indigo carmine, a depressed area was clearly defined in the polyp. However, the pit pattern of the depressed area was not clearly observed because of the overlying dense mucus (Fig. 3).

Magnification with chroendoendoscopy using 0.05% crystal violet staining after water washing showed a “dilated” type-II pit pattern in the depressed area (Fig. 4) [4].

Based on the above endoscopic findings, an inverted SSP was suspected. Endoscopic resection was performed for histological evaluation. The polyp was completely removed en bloc with endoscopic mucosal resection (the lift and cut technique) without complication. A histological diagnosis of inverted SSP was finally established (Fig. 5).

Inverted growth of a hyperplastic polyp is characterized by epithelial misplacement or inversion of the epithelium into the submucosa, which is a variant form of an exophytic hyperplastic polyp [5]. Owing to the inverted growth pattern, a depressed area is present in such lesions, which could be misdiagnosed as an early colorectal neoplasm on conventional view. Our
case, however, was correctly diagnosed as an inverted SSP before removal, because we applied magnifying IEE for histological prediction. A “dilated” type-II pit pattern could be an endoscopic hallmark of an SSP, which is different from a hyperplastic polyp with normal type-II pit pattern.

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