An 80-year-old man was admitted to hospital with adhesive ileus, which responded to conservative management. Total colonoscopy was subsequently undertaken to investigate his symptoms. There was an incidental reddish, depressed lesion with marginal elevation, 9 mm in diameter, in the terminal ileum. Chromoendoscopic view with indigo carmine dye showed a star-shaped demarcation line in the depressed lesion (Fig. 1). The morphological appearance mimicked a depressed-type colorectal cancer as demonstrated by Kudo [1]. Narrow band imaging (NBI) showed a well-demarcated lesion and NBI with magnification demonstrated regularly arranged network vessels [2] (Fig. 2). A magnifying endoscopic view with crystal violet staining revealed small round and tubular pit patterns resembling colon cancer within the depressed lesion, instead of villi [3] (Fig. 3). As the patient was anticoagulated, endocytoscopy was performed for further evaluation of the lesion in order to make a decision about further management. Endocytoscopic images showed that the nuclei were fusiform and regularly arranged along the basement membrane, and the lumen was smooth and slit-like, remarkably similar to our endocytoscopic images of colonic adenoma and intramuscosal neoplasia (Fig. 4). Furthermore, these findings were not seen in the villous mucosa of the small intestine. Therefore, the lesion was diagnosed as being either adenoma or intramuscosal neoplasm of the ileum and endoscopic mucosal resection was carried out. Histopathological analysis confirmed that the lesion was a tubular adenoma with low grade atypia similar to our endocytoscopic prediction (Fig. 5). Endocytoscopy provides real time microscopic images in vivo during routine endoscopy and has been shown to be useful in the evaluation of lesions within the gastrointestinal tract [4,5]. It may be particularly useful in patients who are on anticoagulant therapy where routine biopsy for histological analysis may be hazardous and also make further endoscopic treatment more difficult due to scarring. In addition, endocytoscopy may also avoid sampling error in the biopsy.
Competing interests: None

Endoscopy_UCTN_Code_CCL_1AC_2AC

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Endoscopy 2010; 42: E326–E327

© Georg Thieme Verlag KG Stuttgart · New York · ISSN 0013-726X

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Histopathological analysis confirmed that the lesion was a tubular adenoma with low grade atypia.