Colonic schistosomiasis and early rectal cancer: coincidence or causal relationship?

A 74-year-old woman was referred for endoscopic resection of a laterally spreading rectal tumor of the nongranular pseudodepressed subtype (Fig. 1a). The 25-mm lesion had been diagnosed during screening colonoscopy and the patient denied any symptoms. Resection was performed en bloc by endoscopic submucosal dissection (ESD). Histology showed pT1 carcinoma with a submucosal depth of invasion of 200 µm (Fig. 1b). Close to the laterally spreading rectal tumor, a submucosal yellowish lesion 3 mm in diameter was seen (Fig. 2a). A neuroendocrine tumor was suspected macroscopically and ESD was performed. Surprisingly, histopathological examination of the specimen revealed granuloma with calcification containing schistosomal ova (Fig. 2b). The patient recalled a diagnosis of schistosomiasis 27 years earlier when she had travelled to Uganda. Treatment had been performed with praziquantel immediately after diagnosis and her further course was uneventful.

Schistosomiasis is frequent in African and Asian regions. Asian authors have reported on colonic involvement such as acute colitis during the early period of the disease but also as chronic changes years after the infection (mucosal atrophy, submucosal fibrosis, polyps, submucosal nodules, persistence of schistosomal ova) [1–3]. Because of the geographic distribution of the disease, colonic changes as a result of schistosomiasis are generally unknown to Western endoscopists and reports from the Western world are rare [4]. Similar to the relationship between schistosomiasis and bladder cancer, Asian and African reports have proposed a causal relationship between chronic inflammatory changes of the colonic mucosa and colorectal carcinogenesis [2,5]. Some authors recommend surveillance colonoscopy after colonic schistosomiasis, even after successful treatment [5]. In the light of increasing globalization and migration, Western endoscopists should be aware of colonic schistosomiasis, its discrete endoscopic findings, and its potential role in colorectal carcinogenesis.

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Fig. 1 a Laterally spreading rectal tumor of the nongranular pseudodepressed type in a 74-year-old woman; chromoendoscopy with indigo carmine. b Resection specimen showing focal carcinoma with submucosal invasion of 200 µm.

Fig. 2 a Submucosal yellowish nodule 3 mm in diameter in the proximal rectum. b Resection specimen showing granuloma with calcification containing schistosomal ova.

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