Cat scratch colon, first described by McDonnell et al. [1], is a rare colonoscopic finding, with only a few articles published in the literature. The patients in these reports have been predominantly female and the finding has been commonly associated with collagenous colitis or diversion colitis. The main proposed causative mechanism is barotrauma [1–3], and until now, the sign has been considered to be a manifestation of certain relatively benign conditions. However, as we report here, other conditions, such as chronic cholestasis in our case, may also be associated with the cat scratch sign.

A 50-year-old man was referred to our clinic for evaluation of extrahepatic cholestasis. The patient had a colonoscopic examination while undergoing tests as part of routine colorectal cancer screening. During the colonoscopy we noticed bright red, linear markings in the ascending colon, similar to the cat scratch colon sign (Fig. 1, 2).

The other colon segments were normal. Based on all the results of the investigations, the patient was diagnosed as having cholangiocellular carcinoma, which was deemed to be the cause of his extrahepatic cholestasis.

Chronic cholestasis can impair vitamin absorption, particularly the lipid-soluble vitamins (A, D, E, and K). The epithelial disruption and a tendency to bleed in the colon, resulting from deficiency of vitamins A and K, respectively, may lead to a vulnerable state and cat scratch colon. Our patient’s prothrombin time was prolonged, which was corrected with vitamin K administration. The levels of the other lipid-soluble vitamins were also below normal (data not shown). Moreover, there is a growing body of published evidence that chronic cholestasis can impair the gut’s barrier function. In the reports in the literature it has been observed that obstructive jaundice in humans generates huge intestinal oxidative stress, which may disrupt the intestinal barrier function [4, 5]. Therefore we think that chronic cholestasis and its complications may also be one of the conditions responsible for the cat scratch colon sign.

Competing interests: None

Endoscopy_UCTN_Code_CCL_1AD_2AJ

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