Intramucosal true perineurioma of the sigmoid: endoscopic and pathological features of an infrequent lesion

A 59-year-old woman was admitted to our hospital with complaints of recurrent non-intensive pain in the right side, constipation, and abdominal distension. The patient had a medical history of dolicho-colon. Her physical examination and laboratory test results were unremarkable. Abdominal ultrasonography showed moderate diffuse parenchymal changes in the liver (liver steatosis) and pancreas. Colonoscopy revealed redundant colon with a non-epithelial lesion of the sigmoid that had a diameter of 0.6 cm with a smooth surface and regular capillary pattern (▶ Fig. 1; ▶ Video 1), which was biopsied during the procedure. Histopathological examination of the biopsy demonstrated a proliferation of short spindle cells with pale cytoplasm and indistinct cell borders, whose nuclei were bland and not wavy. The lesion was situated in the lamina propria mucosae and lacked serrated or hyperplastic epithelial changes. Necrosis, pleomorphism, and mitotic figures were absent (▶ Fig. 2a). Immunohistochemical staining with epithelial membrane antigen (EMA) showed weak diffuse positivity (▶ Fig. 2b), and with S100 showed focal positive staining (▶ Fig. 2c). An intramucosal true perineurioma of the sigmoid was confirmed.

After the diagnosis had been made, the patient underwent endoscopic resection of the lesion with a cold snare. There were no complications in the postoperative period and the patient was discharged on the second day after surgery. A perineurioma is a rare benign peripheral nerve sheath tumor composed of cells resembling normal perineurium, with a reported incidence of 0.1%–1.46% [1, 2]. Since their first description in 2004 by Eslami-Varzaneh, about 150 cases of perineurioma have been reported in the colorectum to date [1, 3]. Pai et al. [4] suggested that a perineurioma is the result of a reactive process, likely induced by the BRAF-mutated serrated epithelium. In our case, serrated or hyperplastic epithelial changes were not revealed, so we suggest that we are dealing with a true perineurioma of the sigmoid. An electronic search of the PubMed database (January 2000–January 2020) using the keywords “true perineurioma colon” revealed only two reports.

Competing interests

The authors declare that they have no conflict of interest.

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References


Bibliography

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