Colonic duplication in adulthood presenting with diarrhea

In pediatric clinics, alimentary tract duplications are seen with an incidence of approximately 1 in 4500 [1]. Most cases are diagnosed within the first 5 years of life [2]. The condition is seen infrequently in adults. Patients usually present with constipation, diarrhea, abdominal pain, abdominal mass, and, sometimes, acute abdomen, volvulus, or perforation [3]. There are two types of colonic duplication: tubular and cystic. Diagnosis requires a careful history and detailed imaging with endoscopy, computed tomography, and in some cases barium meal study. Correct diagnosis is important not only because the symptoms decrease patients’ quality of life, but also because with time patients are at increased risk of developing carcinoma [4]. The most common form of carcinoma associated with alimentary tract duplication is adenocarcinoma.

A 39-year-old man without any other history of chronic disease was referred to our clinic because of chronic diarrhea. He described the watery diarrhea as having been present for 6 months and being independent of eating. He had no fever, rectal bleeding, or tenesmus. He complained of having had irregular abdominal pain since childhood. Physical examination showed no significant findings. The work-up for ruling out infectious causes, including microscopic examination for protozoa and cultures of the feces, produced negative findings. Abdominal radiography was performed but showed nothing significant, and colonoscopy was done in order to rule out inflammatory bowel disease and celiac disease. At colonoscopy, thick, band-like mucosal lesions were seen dividing the lumen into three spaces, like the Mercedes logo, with wide exudative superficial ulcers and polypoid lesions on top of and around them (Fig. 1). Biopsy results showed low-grade dysplasia on the malformation site (Fig. 2), and the patient was referred for surgery. Low anterior resection was performed. The symptoms regressed after surgery and the follow-up colonoscopy after 6 months showed no significant findings.
grade dysplasia, as did our patient [7]. In one published case, the patient presented with metastasis to the omentum [8]. In order to prevent progression to adenocarcinoma, en bloc resection of the colon is suggested as soon as possible once the diagnosis of colonic duplication is made. Colonic duplication in adulthood is very rare, but it should be kept in mind in the differential diagnosis of chronic diarrhea and abdominal pain. If overlooked, it may result in malignancy.

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