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A Case of Chronic Appendicopathy Caused by Parasitic Infection

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Key Words

Chronic appendicitis · Appendicopathy · *Enterobius vermicularis* · Parasitic infection

Abstract

Parasitic infection of the appendix is rarely seen, but should be considered in patients with symptoms of chronic appendicitis. It is rarely associated with histological inflammation of the appendix, therefore radiographic imaging, performed during initial workup, remains unremarkable most of the time.

Case Report

A 13-year-old girl presented to our clinic with a 3-month history of abdominal pain centered in the right lower quadrant, nausea, decreased appetite, weight loss and severe fatigue. She had been admitted to another hospital 3 months earlier for analysis, without satisfactory results.

Abdominal examination showed slight tenderness of the right lower quadrant but was otherwise unremarkable. Serum laboratory tests showed no signs of acute or chronic infection. The remainder of the physical examination was unremarkable.

During the analysis first ultrasonography was performed without signs of appendicitis. Afterwards CT and MRI of the abdomen were done and showed no abnormalities. We also conducted a colonoscopy which was unremarkable. Because of her persisting symptoms and a family history of 'chronic appendicitis' with similar symptoms, we conducted a laparoscopic inspection of the abdomen. Macroscopic inspection of the appendix showed no signs of inflammation. An appendectomy was performed and the appendix was sent for histopathological examination. The cross-section of the appendix showed a worm with morphologic characteristics of an *Enterobius vermicularis* (fig. 1). This was later confirmed by a stool culture. The patient fully recovered without persisting symptoms.

Discussion

Enterobius vermicularis infestation is treated with anthelmintics and re-infection is prevented by implementation of adequate hygiene. Parasitic infection of the appendix

occurs in 1.4–2.7% of patients with clinical symptoms of chronic appendicitis [1, 2]. Association with histological inflammation of the appendix is uncommon, therefore examination of the lumen is important for diagnosing unexplained appendicopathy.

Fig. 1. Microscopic view of the wall and lumen of the appendix with the parasite (arrow).

References

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