Giant appendiceal mucocele mimicking gastrointestinal stromal tumor of the cecum



Fig. 1 Colonoscopy revealed large submucosal mass covered with normal colonic mucosa.

A 54-year-old man presented with chronic abdominal pain and chronic diarrhea. He underwent a routine endoscopic examination. Colonoscopy demonstrated a huge submucosal tumor measuring $4.2 \times 4.0 \times 5.0$ cm at the cecum (\bigcirc Fig. 1). Endoscopic ultrasonography (EUS) using a miniprobe revealed a 4-cm well-circumscribed, hypoechoic, homogeneous lesion arising from the fourth sonographic layer (Fig. 2), and the lesion was diagnosed as a large gastrointestinal stromal tumor (GIST) of the cecum. CT scan of the lower abdomen showed a cystic lesion compressing the cecum (Fig. 3). The patient underwent an exploratory laparotomy and the intraoperative finding was of a giant appendiceal mass (Fig. 4). Right hemicolectomy was performed and the pathological analysis confirmed a mucinous tumor of borderline malignancy with free surgical margins. The patient recovered well without any postoperative complications.

Patients with appendiceal mucocele usually manifest a variety of symptoms, but they can also be asymptomatic. Right lower quadrant pain is the most common symptom, occurring in 64% of patients [1]. Accurate preoperative diagnosis is rare, but it is possible using appropriate investigations. Endoscopically, this lesion appears as a submucosal mound with normal mucosa in the cecum. The classical appearance is of a "volcano sign" with the appendiceal orifice visible at the center of the mound [2,3]. The EUS finding was first described by using an ultrasonic probe to rule out colonic submucosal tu-

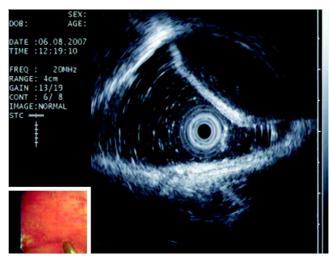


Fig. 2 Endoscopic ultrasonography demonstrated a 4-cm well-circumscribed, hypoechoic, homogeneous lesion compressing the cecal wall.



Fig. 3 CT scan of the lower abdomen demonstrated a round, lowdensity, thin-walled, encapsulated mass at the cecum (arrow), about 5 cm in diameter.



Fig. 4 Intraoperative photograph showing a large appendiceal mass.

mors such as carcinoids or lipoma prior to surgery [4,5]. Right hemicolectomy is a standard treatment and gives an excellent prognosis for these lesions. This case exemplifies the challenge of detection and the management of an appendiceal mucocele presenting as a large GIST of the cecum.

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References

- 1 Aho A, Heinonen R, Lauren P. Benign and malignant mucocele of the appendix: histologic types and prognosis. Acta Chir Scand 1993; 139: 392 400
- 2 Hamilton DL, Stormont JM. The volcano sign of appendiceal mucocele. Gastrointest Endosc 1989; 35: 453 – 456
- 3 Raijman I, Leong S, Hassaram S, Marcon NE. Appendiceal mucocele: endoscopic appearance. Endoscopy 1994; 26: 326 – 328
- 4 Mizuma N, Kabemura T, Akahoshi K et al. Endosonographic features of mucocele of the appendix: report of a case. Gastrointest Endosc 1997; 46: 549 552
- 5 Akahoshi K, Mizukami Y, Yoshinaga S, Oya M, Nagaie T. Ultrasound catheter probe detection of appendiceal mucocele. Endoscopy 2002; 34: 937

Bibliography

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