Clinical Image



A Foreign Body in the Appendix

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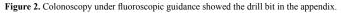
Clinical image

A 77-year-old man was referred to our hospital following ingestion of a dental drill bit. He was asymptomatic and had no abnormal findings on physical assessment or blood tests. We performed esophagogastroduodenoscopy but could not locate the drill bit. The next day, an abdominal radiograph showed the drill bit in the right lower abdominal quadrant. Two days later, we performed colonoscopy because the drill bit had not moved on the radiograph. However, we could not locate the drill bit. Subsequent CT examination revealed the drill bit within the appendix (Figure 1). Colonoscopy under fluoroscopic guidance showed the drill bit in the appendix, which was crookedly oriented (Figure 2). We unsuccessfully attempted to straighten the appendix with an endoscopic retrograde cholangiopancreatography catheter and endoscopically remove the drill bit. Although the patient was asymptomatic, laparoscopic appendectomy was performed. Pathological examination showed a 35-mm drill bit within the appendix (Figure 3), and histological examination showed only



Figure 1. CT (sagittal view) showed the drill bit in the appendix.





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Figure 3. Pathological examination showed a 35-mm drill bit within the appendix.

mild inflammation. The patient was discharged with no postoperative complications.

Eighty percent of ingested objects that reach the stomach are passed spontaneously without complications [1]. However, if the anatomical position of the object does not change on radiographs, especially when the object is present in the right lower abdominal quadrant, colonoscopy should be attempted to remove the object [2].

Balch et al reported that foreign bodies in the appendix comprised pins in 37% of cases, bullets in 22%, and bone in 8%. Sharp foreign bodies in the appendix cause perforations in 70%. If endoscopic removal fails, prophylactic appendectomy is recommended [3].

Authorship and contributorship

Dr. Ogawa drafted the article. Dr. Uenoyama and Dr. Yamashita contributed the critical revision of the article for important intellectual content, and contributed the final approval of the article.

Conflict of interest

All authors declare no conflict of interests for this article.

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