

Diagnosis of gastric anisakiasis by abdominal ultrasonography

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Gastrointestinal anisakiasis is an uncommon zoonotic parasitic infection caused by consumption of raw or undercooked seafood infected with nematodes of genus *Anisakis*. A 44-year-old woman presented to our emergency department with acute upper abdominal pain 14 h after ingestion of Mackerel sashimi. During physical examination, she was found to have tenderness in the epigastric region. Abdominal ultrasonography showed markedly and diffusely thickened walls from the pylorus to the gastric corpus, very smooth surfaces and low homogeneous internal echoes (Figure 1a). Emergency gastroscopy identified 12 mm and 14mm long larva of the nematode *Anisakis simplex* penetrating the inflamed body of the stomach (Figure 1b). Disinfestation rapidly resolved the patient's symptoms. Ultrasonography is useful to diagnosis gastric anisakiasis which shows a thickened wall [1,2].

Sources of support

There are no conflicts of interest in the manuscript.

Declaration of personal and funding interests

None.

Financial disclosure

The authors declare that they do not have any current financial arrangements or affiliations with any organization that may have a direct interest in their work.

References

1. Lalchandani UR, Weadock WJ, Brady GF, Wasnik AP (2018) Imaging in gastric anisakiasis. *Clin Imaging* 50: 286-288.
2. Kondo T (2018) Woe sushi: gastric anisakiasis. *Lancet* 13: 1340.

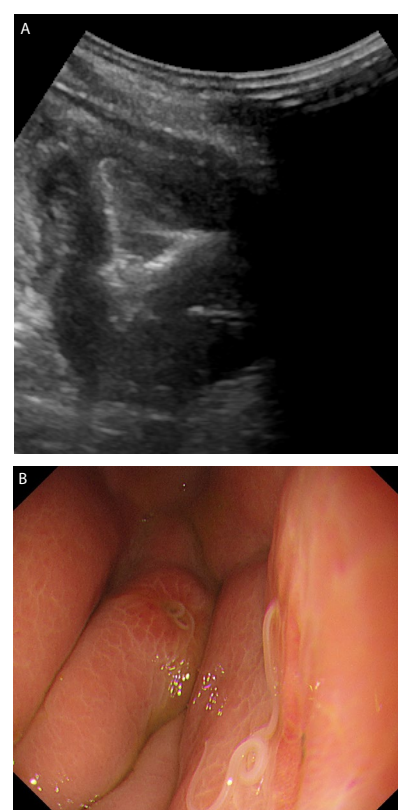


Figure 1. (A) Images of abdominal ultrasonography. Markedly edematous wall. (B) Endoscopic image of the patient. An *Anisakis* larva was seen in the stomach, and the adjacent mucosa was swollen

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Received: May 11, 2019; **Accepted:** May 23, 2019; **Published:** May 28, 2019