

[PICTURES IN CLINICAL MEDICINE]

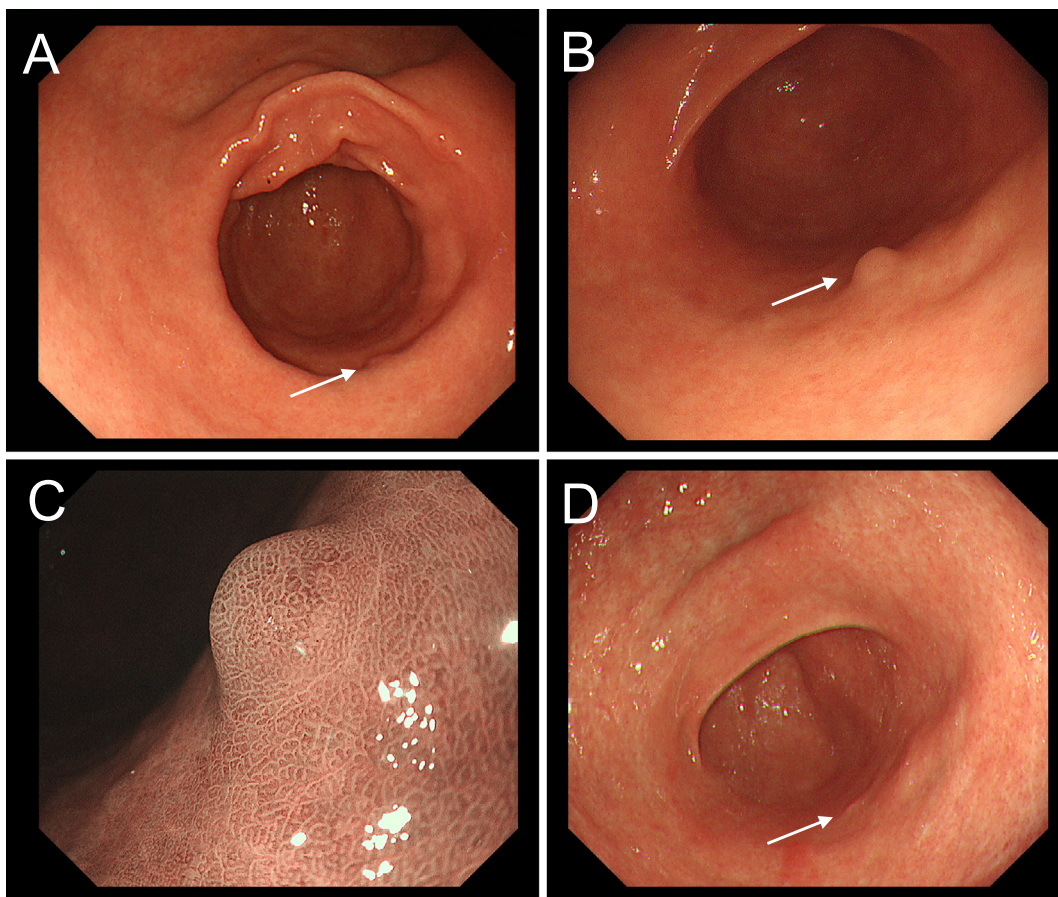
Gastric Hyperplastic Polyp with *Helicobacter suis*-infected Gastritis

Takuya Seike^{1,2}, Somay Y Murayama³, Masahiko Nakamura⁴ and Masako Kobayashi⁵

Key words: gastric hyperplastic polyp, non-*Helicobacter pylori* *Helicobacter*-infected gastritis, HNPH, *Helicobacter suis*

(Intern Med 61: 2539-2541, 2022)

(DOI: 10.2169/internalmedicine.7779-21)



Picture 1.

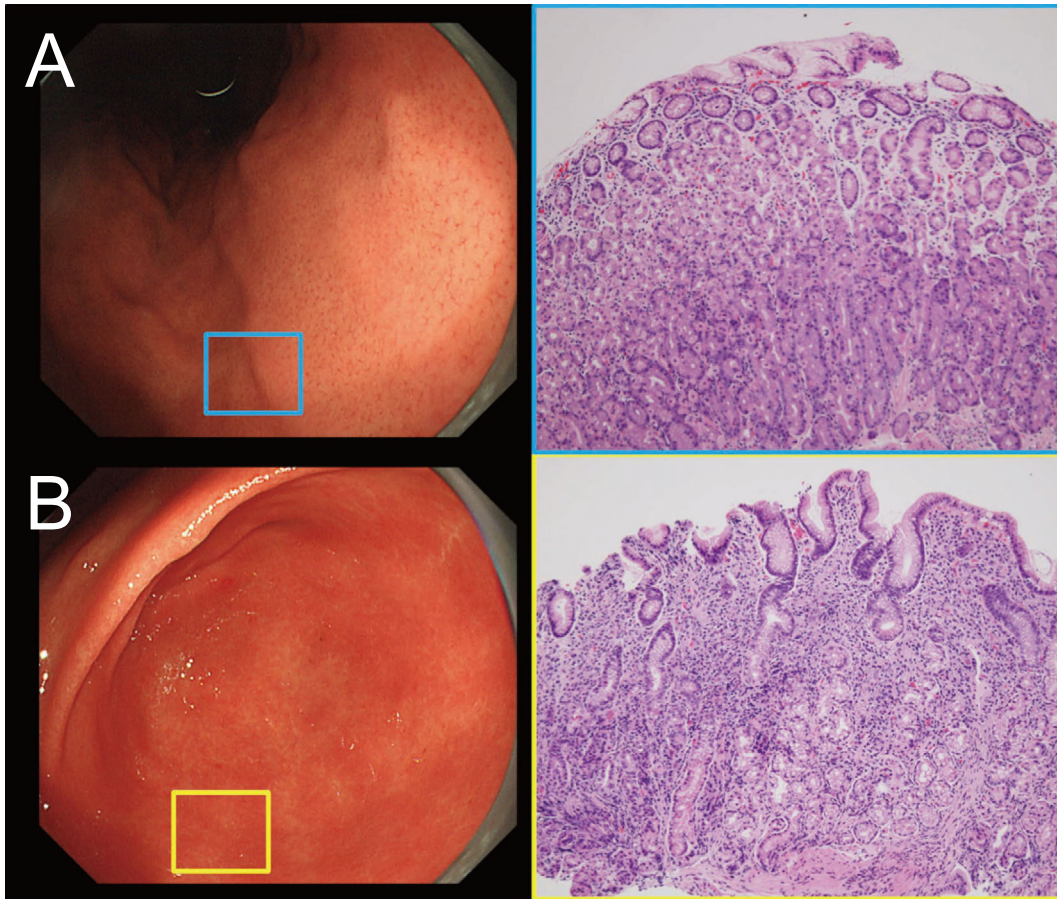
A 56-year-old man who owned dogs and cats and had raised pigs as a child underwent upper gastrointestinal endoscopy. A mild, flat bulge that had been visible three years earlier (Picture 1A, arrow) had grown into a hemispherical

polyp in the antrum (Picture 1B, arrow, Picture 1C). Although regular arrangement of the collecting venule was seen in the gastric body (Picture 2A), mild gastritis was seen in the antrum (Picture 2B). The polyp was histologi-

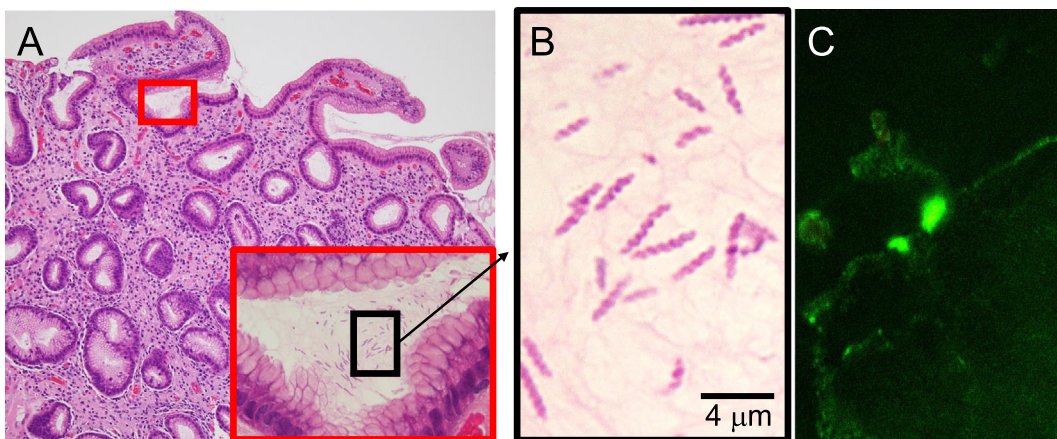
¹Department of Gastroenterology, Kanazawa Municipal Hospital, Japan, ²System Biology, Graduate School of Advanced Preventive Medical Science, Kanazawa University, Japan, ³Department of Chemotherapy and Mycoses, National Institute of Infectious Disease, Japan, ⁴Satoshi Omura Memorial Institute, Kitasato University, Japan and ⁵Department of Clinical Laboratory, Kanazawa Municipal Hospital, Japan

Received: April 15, 2021; Accepted: November 28, 2021; Advance Publication by J-STAGE: February 1, 2022

Correspondence to Dr. Takuya Seike, verdauungsapparat@yahoo.co.jp



Picture 2.



Picture 3.

cally consistent with a gastric hyperplastic polyp (HP) (Picture 3A). Furthermore, organisms longer, larger, and with a more tightly spiral shape (about 4-8 turns) (Picture 3B) than *Helicobacter pylori*, suggesting non-*H. pylori* *Helicobacter* (NHPH), were found in the gastric pits of the HP and gastric mucosa of the antrum. This organism was positive on immunostaining with anti-*Helicobacter suis vacA* paralog antibody (Picture 3C). A serum anti-*H. pylori* immunoglobulin G antibody test and urea breath test were negative. The gastritis improved, and the HP shrank after administration of vonoprazan 20 mg, amoxicillin 750 mg, and clarithromycin

400 mg twice a day for 7 days (Picture 1D, arrow). NHPH infection is considered zoonotic and induces mild gastritis (1). This case shows that gastric HP, which is usually caused by severe atrophic gastritis (2), can develop even in cases of mild gastritis due to NHPH infection.

The authors have obtained patient consent.

The authors state that they have no Conflict of Interest (COI).

Acknowledgement

The authors thank Dr. Tsuyoshi Suda and Dr. Naoki Oishi (Kanazawa Municipal Hospital) for support the diagnosis and treatment of patients.

References

1. Nakamura M, Øverby A, Michimae H, et al. PCR analysis and specific immunohistochemistry revealing a high prevalence of non-

Helicobacter pylori Helicobacters in *Helicobacter pylori*-negative gastric disease patients in Japan: High susceptibility to an Hp eradication regimen. *Helicobacter* **13**: e12700, 2020.

2. Jain R, Chetty R. Gastric hyperplastic polyps: a review. *Dig Dis Sci* **54**: 1839-1846, 2009.

The Internal Medicine is an Open Access journal distributed under the Creative Commons Attribution-NonCommercial-NoDerivatives 4.0 International License. To view the details of this license, please visit (<https://creativecommons.org/licenses/by-nc-nd/4.0/>).

© 2022 The Japanese Society of Internal Medicine
Intern Med 61: 2539-2541, 2022