

IMSUT Hospital

Department of Gastroenterology

消化器内科

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The department of gastroenterology was founded in 2021 to provide the specialized examination and treatment of digestive diseases for the IMSUT hospital patients in collaboration with department of surgery and department of oncology and general medicine. Multiple clinical research project is also underway with other IMSUT departments.

1. Treatment of drug-resistant *Helicobacter pylori* infection

Matsubara Y., Hirata Y.

Some patients fail to respond first- and second-line *Helicobacter pylori* (*H. pylori*) eradication therapy, but third-line eradication is not always done. Meanwhile, penicillin allergy patients do not take routine eradication medicines because insurance coverage regimens in Japan include amoxicillin. In *H. pylori* out-patient clinic of IMSUT hospital, we make correct diagnosis of infection by multiple modalities, give eradication therapy for these refractory patients, and achieve high rates of successful eradication.

2. Endoscopic examination in IMSUT Hospital

Matsubara Y., Hirata Y.

About 700 cases of upper gastrointestinal endoscopy and about 250 cases of colonic endoscopy were performed in 2022. We have diagnosed rare diseases (e.g. infectious disease, malignancy, other disease) in patients with immune dysfunction. We also participated in endoscopic health check-up in Minato Ward.

3. Diagnosis and treatment of inflammatory bowel disease.

Matsubara Y., Hirata Y.

Inflammatory bowel disease is a digestive disease entity with unknown cause. Patients usually exhibit abdominal symptoms and show inflammation in gastrointestinal tract. We provide basic and up-to-date therapy (biologic and small-molecule medicines) for the patients.

Publications

1. Matsubara Y, Ota Y, Tanaka Y, Denda T, Hijikata Y, Boku N, Lim LA, Hirata Y, Tsurita G, Adachi E, Yotsuyanagi H. Altered mucosal immunity in HIV-positive colon adenoma: decreased CD4⁺ T cell infiltration is correlated with nadir but not current CD4⁺ T cell blood counts. *Int J Clin Oncol*. 2022 Aug;27(8):1321-1330. doi: 10.1007/s10147-022-02188-8. Epub 2022 May 29. PMID: 35643870.
2. Aoki T, Yamada A, Niikura R, Nakada A, Suzuki N, Hayakawa Y, Hirata Y, Koike K, Fujishiro M. Efficacy of Early Video Capsule Endoscopy for Acute Overt Lower Gastrointestinal Bleeding with

- Colonic Diverticulosis: A Prospective Observational Study. *Digestion*. 2022;103(5):367-377. doi: 10.1159/000525314. Epub 2022 Jun 30. PMID: 35772398; PMCID: PMC9501749.
3. Arai J, Niikura R, Hayakawa Y, Suzuki N, Hirata Y, Ushiku T, Fujishiro M. Clinicopathological Features of Gastric Cancer with Autoimmune Gastritis. *Biomedicines*. 2022 Apr 12;10(4):884. doi: 10.3390/biomedicines10040884. PMID: 35453635; PMCID: PMC9031450.
 4. Arai J, Aoki T, Sato M, Niikura R, Suzuki N, Ishibashi R, Tsuji Y, Yamada A, Hirata Y, Ushiku T, Hayakawa Y, Fujishiro M. Machine learning-based personalized prediction of gastric cancer incidence using the endoscopic and histologic findings at the initial endoscopy. *Gastrointest Endosc*. 2022 May;95(5):864-872. doi: 10.1016/j.gie.2021.12.033. Epub 2022 Jan 5. PMID: 34998795.
 5. Niikura R, Aoki T, Shichijo S, Yamada A, Kawahara T, Kato Y, Hirata Y, Hayakawa Y, Suzuki N, Ochi M, Hirasawa T, Tada T, Kawai T, Koike K. Artificial intelligence versus expert endoscopists for diagnosis of gastric cancer in patients who have undergone upper gastrointestinal endoscopy. *Endoscopy*. 2022 Aug;54(8):780-784. doi: 10.1055/a-1660-6500. Epub 2022 May 4. PMID: 34607377; PMCID: PMC9329064.
 6. Arai J, Aoki T, Sato M, Niikura R, Suzuki N, Ishibashi R, Tsuji Y, Yamada A, Hirata Y, Ushiku T, Hayakawa Y, Fujishiro M. Machine learning-based personalised prediction of gastric cancer incidence using the endoscopic and histological findings at the initial endoscopy. *Gastrointest Endosc*. 2022 Jan 5:S0016-5107(22)00001-3. doi: 10.1016/j.gie.2021.12.033. Epub ahead of print. PMID: 34998795.