

Advanced Clinical Research Center

Division of Advanced Medicine Promotion

先端医療開発推進分野

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Our mission is to support translational research. To this purpose, it is critical to identify new research "seeds" and to overcome barriers to clinical application. We also support the conduct of clinical trials at IMSUT Hospital. At IMSUT Hospital, we work closely with the staff of the Center for Translational Research. In parallel, to address barriers in translational research, we engage in research on regulatory science and biostatistics.

1. Assistance of Clinical Trials/TRs at Research Hospital

Masanori Nojima, Fumitaka Nagamura

At IMSUT Hospital, we work together with the staffs of Center for Translational Research. The assistance of Translational (Clinical) Research Coordinators is indispensable for the conduct of clinical trials, especially for TR. The activities of Coordinators are the results of the collaboration between Division of Advanced Medicine Promotion and Center for Translational Research. In 2015 we assisted in the preparation and implementation of five investigator-initiated clinical trials.

2. Approach for multi-omics research by methodology of bioinformatics and biostatistics

Masanori Nojima

Multi-omics research using clinical samples in col-

laborative study or public database of comprehensive omics-analysis, integrating metabolome, DNA methylome, transcriptome, etc.

3. Epidemiological study using NDB (National Database of Health Insurance Claims and Specific Health Checkups of Japan)

Masanori Nojima

We are conducting multiple large-scale epidemiological studies utilizing NDB database, focusing on Specific Health Checkups, long COVID, etc.

4. Statistical consulting for basic research

Masanori Nojima

For basic researchers, we suggest exploratory statistical approach and molecular epidemiological approach.

Publications

1. Adachi Y, Nojima M, Lin Y, Masaki Y, Sasaki Y,

Nakase H, Wakai K, Mori M, Tamakoshi A; For

- JACC study. Insulin-like growth factor-binding protein 3 and incidence of pancreatic cancer in a nested case-control study. *Jpn J Clin Oncol*. 2025 Sep 18;hyaf146. doi: 10.1093/jjco/hyaf146. Epub ahead of print. PMID: 40973159.
2. Fujii T, Nogami K, Sawada A, Nagao A, Nagae C, Nojima M, Suzuki N, Kawano M, Shimura T, Sugao Y, Amano K. TSUBASA study: evaluation of the quality and content of daily life of people with hemophilia A without factor VIII inhibitors on prophylactic treatment with emicizumab. *Res Pract Thromb Haemost*. 2025 Jul 16;9(5):102971. doi: 10.1016/j.rpth.2025.102971. PMID: 40821744; PMCID: PMC12356469.
 3. Iimura Y, Baba K, Furukawa N, Ishibashi M, Sasuga C, Ahiko Y, Monma S, Sakuyama N, Aikou S, Shida D, Nojima M, Kuroda S, Boku N. A phase II study evaluating the preventive effect of topical hydrocortisone for capecitabine-induced hand-foot syndrome in patients with colorectal cancer receiving adjuvant chemotherapy with capecitabine plus oxaliplatin (T-CRACC study). *Int J Clin Oncol*. 2025 Nov;30(11):2316-2324. doi: 10.1007/s10147-025-02857-4. Epub 2025 Aug 14. PMID: 40810825.
 4. Shimasaki Y, Nojima M. Positive Impact of Health Check-Ups and Guidance in the General Population: A Database-Based Cohort Study in Japan. *AJPM Focus*. 2025 Jun 17;4(4):100380. doi: 10.1016/j.focus.2025.100380. PMID: 40688470; PMCID: PMC12275113.
 5. Wagatsuma K, Nojima M, Matsumoto T, Matsuurara M, Iijima H, Matsuoka K, Ohmiya N, Ishihara S, Hirai F, Takeuchi K, Tamura S, Kinjo F, Ueno N, Naganuma M, Watanabe K, Moroi R, Nishimata N, Motoya S, Kurahara K, Takahashi S, Maemoto A, Hiraga H, Saruta M, Tominaga K, Hisabe T, Tanaka H, Terai S, Inokuchi T, Takedomi H, Narimatsu K, Endo K, Nakamura M, Hisamatsu T, Nakase H; J-DESIRE Group. Post Hoc Analysis of Anxiety and Behavioral Changes in Japanese Patients With Inflammatory Bowel Disease due to the COVID-19 Pandemic: Relationship Between Municipal Population at the Place of Residence and Anxiety. *JGH Open*. 2025 Jul 14;9(7):e70209. doi: 10.1002/jgh3.70209. PMID: 40666190; PMCID: PMC12260211.
 6. Fujimori M, Toriyabe Y, Sakakibara N, Nojima M, Makino S; Hokkaido Association of Hospital Dentistry Medication-Related Osteonecrosis of the Jaw Research Group. Do Healing Rates Differ Between Medication-Related and Medication-Unrelated Osteonecrosis of the Jaw? *J Oral Maxillofac Surg*. 2025 Sep;83(9):1143-1156. doi: 10.1016/j.joms.2025.05.023. Epub 2025 Jun 6. PMID: 40550482.
 7. Amano K, Fujii T, Sawada A, Nagao A, Nagae C, Nojima M, Suzuki N, Kawano M, Shimura T, Sugao Y, Hattori N, Nogami K. TSUBASA Study: Evaluating Association of Physical Activity and Bleeding Events in People With Haemophilia A Without Factor VIII Inhibitors Receiving Emicizumab. *Haemophilia*. 2025 Jul;31(4):703-712. doi: 10.1111/hae.70070. Epub 2025 Jun 18. PMID: 40534253; PMCID: PMC12311898.
 8. Iimura Y, Ishiguro H, Hashimoto H, Nojima M, Oyamada S, Mori K, Ariyoshi K, Kuroda S, Hirakawa S, Fujiwara N, Yokota T, Zenda S, Matsuoka H, Boku N. A randomized, double-blind, placebo-controlled phase III study evaluating the preventive effect of diclofenac cream on capecitabine-related hand-foot syndrome: study protocol of J-SUPPORT2401/JORTC-SUP06 (J-DIRECT). *Int J Clin Oncol*. 2025 Aug;30(8):1553-1561. doi: 10.1007/s10147-025-02789-z. Epub 2025 May 14. PMID: 40369354; PMCID: PMC12296980.
 9. Miyagami T, Nishizaki Y, Shimizu T, Yamamoto Y, Shikino K, Kataoka K, Nojima M, Deshpande GA, Naito T, Tokuda Y. Evaluating the Use of a Note-Taking App by Japanese Resident Physicians: Nationwide Cross-Sectional Study. *JMIR Form Res*. 2025 May 9;9:e55087. doi: 10.2196/55087. PMID: 40344204; PMCID: PMC12083735.
 10. Adachi Y, Adachi Y, Nojima M, Lin Y, Sasaki Y, Yamano HO, Nakase H, Wakai K, Mori M, Tamakoshi A; for Japan Collaborative Cohort (JACC) study. Associations between Serum Insulin-Like Growth Factor-Related Molecules and Colorectal Cancer Risk by Tumor Location: A Nested Case-Control Study. *Digestion*. 2025;106(5):450-461. doi: 10.1159/000545457. Epub 2025 Mar 25. PMID: 40132573.
 11. Wagatsuma K, Nojima M, Matsumoto T, Matsuurara M, Iijima H, Matsuoka K, Ohmiya N, Ishihara S, Hirai F, Takeuchi K, Tamura S, Kinjo F, Ueno N, Naganuma M, Watanabe K, Moroi R, Nishimata N, Motoya S, Kurahara K, Takahashi S, Maemoto A, Hiraga H, Saruta M, Tominaga K, Hisabe T, Tanaka H, Terai S, Inokuchi T, Takedomi H, Narimatsu K, Endo K, Nakamura M, Hisamatsu T, Nakase H; J-DESIRE Group. Post Hoc Analysis of Anxiety and Behavioral Changes in Japanese Patients With Inflammatory Bowel Disease due to the COVID-19 Pandemic: Relationship Between Municipal Population at the Place of Residence and Anxiety. *JGH Open*. 2025 Jul 14;9(7):e70209. doi: 10.1002/jgh3.70209. PMID: 40666190; PMCID: PMC12260211.
 12. Nojima M, Kimura T, Aoki Y, Fujimoto H, Hayashi K, Ohtake J, Kimura-Asami M, Suzuki K, Urayama K, Matsuura M, Sato T, Masuda K. A Metabolomics-Based Approach for Diagnosing NAFLD and Identifying Its Pre-Condition Along the Potential Disease Spectrum. *Livers* 2025;5(1):12.
 13. Adachi Y, Nojima M, Lin Y, Sasaki Y, Yamano HO, Nakase H, Wakai K, Mori M, Tamakoshi A; for Japan Collaborative Cohort (JACC) study. Associations between serum insulin-like growth factor-related molecules and colorectal cancer risk by

- tumor location: a nested case-control study. *Digestion*. 2025 Mar 25;1-19. doi:10.1159/000545457. Epub ahead of print. PMID: 40132573.
14. Fujikawa H, Tamune H, Nishizaki Y, Nagasaki K, Kobayashi H, Nojima M, Sekine M, Shimizu T, Yamamoto Y, Shikino K, Tokuda Y. Association between residents' work hours and patient care ownership: a nationwide cross-sectional study in Japan. *BMC Med Educ*. 2025 Mar 15;25(1):385. doi: 10.1186/s12909-025-06941-1. PMID: 40089705; PMCID: PMC11909906.
 15. Jimbo K, Nojima M, Toriuchi K, Yamagishi M, Nakashima M, Yamano Y, Uchimar K, Nannya Y. Long-term kinetics of proviral load in HTLV-1 carriers: defining risk for the development of adult T-cell leukemia/lymphoma. *Biomark Res*. 2025 Feb 26;13(1):34. doi: 10.1186/s40364-025-00747-5. PMID: 40012084; PMCID:
 16. Kazuaki Fujita, Ryosuke Ikeguchi, Tomoki Aoyama, Takashi Noguchi, Koichi Yoshimoto, Da-ichi Sakamoto, Terunobu Iwai, Tetsuya Miyamoto, Yudai Miyazaki, Shizuka Akieda, Tokiko Nagamura-Inoue, Fumitaka Nagamura, Koichi Nakayama, Shuichi Matsuda: Efficacy and safety of Bio 3D conduits composed of human umbilical cord-derived mesenchymal stromal cells: A proof-of-concept study in a canine ulnar nerve defect model. *CellTransplant* 2025 Jan-Dec;34:9636897251361711. doi: 10.1177/09636897251361711. Epub 2025 Aug 3.
 17. Terunobu Iwai, Ryosuke Ikeguchi, Tomoki Aoyama, Takashi Noguchi, Koichi Yoshimoto, Da-ichi Sakamoto, Kazuaki Fujita, Yudai Miyazaki, Shizuka Akieda, Tokiko Nagamura-Inoue, Fumitaka Nagamura, Koichi Nakayama, Shuichi Matsuda. Nerve regeneration using a Bio 3D conduit derived from umbilical cord-Derived mesenchymal stem cells in a rat sciatic nerve defect model. *PLoS ONE* 19(12):e0310711. <https://doi.org/10.1371/journal.pone.0310711>