

# Kengo Nagashima

PROJECT ASSOCIATE PROFESSOR · BIOSTATISTICIAN

Keio University

35 Shinanomachi, Shinjuku-ku, Tokyo 160-8582, Japan.

☎ +81-3-5363-3961 | ✉ [nshi@keio.jp](mailto:nshi@keio.jp) | 🌐 [nshi.jp/en/](http://nshi.jp/en/) | 📺 [nshi-stat](#)

## Research Interests

---

**Biostatistics & Statistical Methodology:** My research interests are Survival Analysis, Meta-analysis, Causal Inference, Bayesian Inference, and Diagnostic Statistics. I am also interested in Biomarkers in Clinical Trials, Cancer Clinical Trials, Adaptive Designs, Model Selection, Model Misspecification, Categorical Data Analysis, Exact Methods, Statistical Softwares, Missing Data, Semiparametric Models, Estimating Equations, Inference for High-dimensional Data, Statistical Machine Learning, Genetic Epidemiology, Population Pharmacokinetics, and Quasi-Monte Carlo Integration.

## Professional Positions

---

### Biostatistics Unit, Clinical and Translational Research Center, Keio University Hospital

*Tokyo, Japan*

PROJECT ASSOCIATE PROFESSOR

*April 2021–present*

### Division of Cancer Therapeutics, National Cancer Center Research Institute

*Tokyo, Japan*

VISITING SCIENTIST

*July 2023–present*

### Faculty of Medicine, Nippon Medical School

*Tokyo, Japan*

LECTURER (PART-TIME)

*April 2021–present*

### Graduate School of Engineering, Tokyo University of Science

*Tokyo, Japan*

LECTURER (PART-TIME)

*April 2016–present*

### Department of Translational Oncology, National Cancer Center Research Institute

*Tokyo, Japan*

VISITING SCIENTIST

*November 2021–October 2022*

### Research Center for Medical and Health Data Science, The Institute of Statistical Mathematics

*Tokyo, Japan*

VISITING ASSOCIATE PROFESSOR

*April 2021–March 2023*

### Department of Biomarkers for the Early Detection of Cancer, National Cancer Center Research Institute

*Tokyo, Japan*

VISITING SCIENTIST

*September 2019–August 2021*

### Keio University School of Medicine

*Tokyo, Japan*

LECTURER (PART-TIME)

*April 2019–March 2021*

### Keio University School of Medicine

*Tokyo, Japan*

VISITING ASSOCIATE PROFESSOR

*November 2018–March 2021*

**Research Center for Medical and Health Data Science, The Institute of Statistical Mathematics**

PROJECT ASSOCIATE PROFESSOR

Tokyo, Japan

April 2018–March 2021

**Department of Global Clinical Research, Graduate School of Medicine, Chiba University**

RESEARCH ASSISTANT PROFESSOR

Chiba, Japan

April 2015–March 2018

**Clinical Research Center, Chiba University Hospital**

RESEARCH ASSISTANT PROFESSOR

Chiba, Japan

April 2013–March 2015

**Faculty of Pharmaceutical Sciences, Josai University**

RESEARCH ASSOCIATE

Saitama, Japan

April 2008–March 2013

## Education

---

**Tokyo University of Science**

PH.D. IN ENGINEERING

Tokyo, Japan

April 2010–March 2014

Dissertation: “Statistical screening methods for pharmacokinetics-related genes in genome-wide studies”

**Tokyo University of Science**

M.SC. IN ENGINEERING

Tokyo, Japan

April 2006–March 2008

Master’s Thesis: “A comparison of statistical methods for SNP association analysis under Hardy–Weinberg disequilibrium”

**Tokyo University of Science**

B.SC. IN ENGINEERING

Tokyo, Japan

April 2002–March 2006

## Publications (Peer-Reviewed)

---

### STATISTICAL METHODOLOGY AND APPLICATIONS IN BIostatISTICS

- 1 Gosho M, Ohigashi T, Nagashima K, Ito Y, Maruo K. Bias in odds ratios from logistic regression methods with sparse data set. *Journal of Epidemiology* 2023; **33**(6): 265–275. DOI: [10.2188/jea.JE20210089](https://doi.org/10.2188/jea.JE20210089).
- 2 Noma H, Nagashima K, Kato S, Teramukai S, Furukawa TA. Flexible random-effects distribution models for meta-analysis. *Journal of Epidemiology* 2022; **32**(10): 441–448. DOI: [10.2188/jea.JE20200376](https://doi.org/10.2188/jea.JE20200376). arXiv: [2003.04598](https://arxiv.org/abs/2003.04598).
- 3 Hamaguchi Y, Noma H, Nagashima K, Yamada T, Furukawa TA. Frequentist performances of Bayesian prediction intervals for random-effects meta-analysis. *Biometrical Journal* 2021; **63**(2): 394–405. DOI: [10.1002/bimj.201900351](https://doi.org/10.1002/bimj.201900351). arXiv: [1907.00345](https://arxiv.org/abs/1907.00345).
- 4 Nagashima K, Noma H, Sato Y, Gosho M. Sample size calculations for single-arm survival studies using transformations of the Kaplan–Meier estimator. *Pharmaceutical Statistics* 2021; **20**(3): 499–511. DOI: [10.1002/pst.2090](https://doi.org/10.1002/pst.2090). arXiv: [2012.03355](https://arxiv.org/abs/2012.03355).
- 5 Noma H, Nagashima K, Furukawa TA. Permutation inference methods for multivariate meta-analysis. *Biometrics* 2020; **76**(1): 337–347. DOI: [10.1111/biom.13134](https://doi.org/10.1111/biom.13134). arXiv: [1809.03935](https://arxiv.org/abs/1809.03935).
- 6 Nagashima K, Noma H, Furukawa TA. Prediction intervals for random-effects meta-analysis: a confidence distribution approach. *Statistical Methods in Medical Research* 2019; **28**(6): 1689–1702. DOI: [10.1177/0962280218773520](https://doi.org/10.1177/0962280218773520). arXiv: [1804.01054](https://arxiv.org/abs/1804.01054).

- 7 Noma H, Nagashima K, Maruo K, Goshu M, Furukawa TA. Bartlett-type corrections and bootstrap adjustments of likelihood-based inference methods for network meta-analysis. *Statistics in Medicine* 2018; **37**(7): 1178–1190. DOI: [10.1002/sim.7578](https://doi.org/10.1002/sim.7578).
- 8 Goshu M, Sato Y, Nagashima K, Takahashi S. Trends in study design and the statistical methods employed in a leading general medicine journal. *Journal of Clinical Pharmacy and Therapeutics* 2018; **43**(1): 36–44. DOI: [10.1111/jcpt.12605](https://doi.org/10.1111/jcpt.12605).
- 9 Nagashima K, Sato Y. Information criteria for Firth's penalized partial likelihood approach in Cox regression models. *Statistics in Medicine* 2017; **36**(21): 3422–3436. DOI: [10.1002/sim.7368](https://doi.org/10.1002/sim.7368). [Postprint].
- 10 Sato Y, Goshu M, Nagashima K, Takahashi S, Ware JH, Laird NM. Statistical methods in the *Journal* — an update. *New England Journal of Medicine* 2017; **376**(11):1086–1087. DOI: [10.1056/NEJMc1616211](https://doi.org/10.1056/NEJMc1616211). (Correspondence)
- 11 Noma H, Nagashima K. A note on the Mantel–Haenszel estimators when the common effect assumptions are violated. *Epidemiologic Methods* 2016; **5**(1): 19–35. DOI: [10.1515/em-2015-0004](https://doi.org/10.1515/em-2015-0004).
- 12 Nagashima K, Sato Y, Noma H, Hamada C. An efficient and robust method for analyzing population pharmacokinetic data in genome-wide pharmacogenomic studies: a generalized estimating equation approach. *Statistics in Medicine* 2013; **32**(27): 4838–4858. DOI: [10.1002/sim.5895](https://doi.org/10.1002/sim.5895). arXiv: [1805.05017](https://arxiv.org/abs/1805.05017).
- 13 Goshu M, Nagashima K, Sato Y. Study designs and statistical analyses for biomarker research. *Sensors* 2012; **12**(7): 8966–8986. DOI: [10.3390/s120708966](https://doi.org/10.3390/s120708966). (Review)
- 14 Nagashima K, Sato Y, Hamada C. A modified maximum contrast method for unequal sample sizes in pharmacogenomic studies. *Statistical Applications in Genetics and Molecular Biology* 2011; **10**(1): Article 41. DOI: [10.2202/1544-6115.1560](https://doi.org/10.2202/1544-6115.1560). arXiv: [2012.03475](https://arxiv.org/abs/2012.03475).
- 15 Sato Y, Laird NM, Nagashima K, Kato R, Hamano T, Yafune A, Kaniwa N, Saito Y, Sugiyama E, Kim S-R, Furuse J, Ishii H, Ueno H, Okusaka T, Saijo N, Sawada J-i, Yoshida T. A new statistical screening approach for finding pharmacokinetics-related genes in genome-wide studies. *The Pharmacogenomics Journal* 2009; **9**(2): 137–146. DOI: [10.1038/tpj.2008.17](https://doi.org/10.1038/tpj.2008.17).

## MEDICAL RESEARCHES

- 16 Nomura K, Kitagawa K, Tsuji M, Iida M, Aoki M, Miyauchi K, Hirayama J, Nagashima K, Takebayashi T, Tsutsumi A. The quantity and quality of scientific evidence about the health of working women in occupational health of Japan: A scoping review. *Journal of Occupational Health* 2023. *In press*.
- 17 Terai H, Ishii M, Takemura R, Namkoong H, Shimamoto K, Masaki K, Tanosaki T, Chubachi S, Matsuyama E, Hayashi R, Shimada T, Shigematsu L, Ito F, Kaji M, Takaoka H, Kurihara M, Nakagawara K, Tomiyasu S, Sasahara K, Saito A, Otake S, Azegawa S, Okada M, Fukushima T, Morita A, Tanaka H, Sunata K, Asaoka M, Nishie M, Shinozaki T, Ebisudani T, Akiyama Y, Mitsuishi A, Nakayama S, Ogawa T, Sakurai K, Irie M, Yagi K, Ohgino K, Miyata J, Kabata H, Ikemura S, Kamata H, Yasuda H, Kawada I, Kimura R, Kondo M, Iwasaki T, Ishida N, Hiruma G, Miyazaki N, Ishibashi Y, Harada S, Fujita T, Ito D, Bun S, Tabuchi H, Kanzaki S, Shimizu E, Fukuda K, Yamagami J, Kobayashi K, Hirano T, Inoue T, Haraguchi M, Kagyo J, Shiomi T, Lee H, Sugihara K, Omori N, Sayama K, Otsuka K, Miyao N, Odani T, Watase M, Mochimaru T, Satomi R, Oyamada Y, Masuzawa K, Asakura T, Nakayama S, Suzuki Y, Baba R, Okamori S, Arai D, Nakachi I, Kuwahara N, Fujiwara A, Okada T, Ishiguro T, Isono T, Mashimo S, Makino Y, Kaido T, Minematsu N, Ueda S, Minami K, Hagiwara R, Manabe T, Fukui T, Funatsu Y, Koh H, Yoshiyama T, Kokuto H, Kusumoto T, Oashi A, Miyawaki M, Saito F, Tani T, Ishioka K, Takahashi S, Nakamura M, Harada N, Sasano H, Goto A, Kusaka Y, Ohba T, Nakano Y, Nishio K, Nakajima Y, Suzuki S, Yoshida S, Tateno H, Kodama N, Maeda S, Sakamoto S, Okamoto M, Nagasaki Y, Umeda A, Miyagawa K, Shimada H, Hagimura K, Nagashima K, Sato T, Sato Y, Hasegawa N, Takebayashi T, Nakahara J, Mimura M, Ogawa K, Shimmura S, Negishi K, Tsubota K, Amagai M, Goto R, Ibuka Y, Kitagawa Y, Kanai T, Fukunaga K. Comprehensive analysis of long COVID in a Japanese nationwide prospective cohort study. *Respiratory Investigation* 2023; **61**(6): 802–814. DOI: [10.1016/j.resinv.2023.08.008](https://doi.org/10.1016/j.resinv.2023.08.008). [Preprint].

- 18 Hashimoto T, Takayanagi D, Yonemaru J, Naka T, Nagashima K, Machida E, Kohno T, Yatabe Y, Kanemitsu Y, Hamamoto R, Takashima A, Shiraishi K, Sekine S. A comprehensive appraisal of HER2 heterogeneity in *HER2*-amplified and *HER2*-low colorectal cancer. *British Journal of Cancer* 2023. *In press*. DOI: [10.1038/s41416-023-02382-z](https://doi.org/10.1038/s41416-023-02382-z).
- 19 Takahashi N, Hara H, Nagashima K, Hirata K, Masuishi T, Matsumoto T, Kawakami H, Yamazaki K, Hironaka S, Boku N, Muro K. Randomised phase II trial of trifluridine/tipiracil (FTD/TPI) plus ramucirumab (RAM) versus trifluridine/tipiracil for previously treated patients with advanced gastric or esophagogastric junction adenocarcinoma (RETRIEVE study, WJOG15822G). *BMC Cancer* 2023; **23**(1): 726. DOI: [10.1186/s12885-023-11199-1](https://doi.org/10.1186/s12885-023-11199-1).
- 20 Fujita M, Nagashima K, Shimazu M, Suzuki M, Tauchi I, Sakuma M, Yamamoto S, Hanaoka H, Shozu M, Tsuruoka N, Kasai T, Hata A. Acceptability of self-sampling human papillomavirus test for cervical cancer screening in Japan: A questionnaire survey in the ACCESS trial. *PLoS ONE* 2023; **18**(6): e0286909. DOI: [10.1371/journal.pone.0286909](https://doi.org/10.1371/journal.pone.0286909).
- 21 Fujita M, Yamaguchi K, Nagashima K, Suzuki K, Kasai T, Hashimoto H, Onouchi Y, Sato D, Fujisawa T, Hata A. Changes in colorectal cancer treatment during the COVID-19 pandemic in Japan: interrupted time-series analysis using the National Database of Japan. *Cancer Epidemiology* 2023; **85**: 102391. DOI: [10.1016/j.canep.2023.102391](https://doi.org/10.1016/j.canep.2023.102391).
- 22 Fujita M, Hashimoto H, Nagashima K, Suzuki K, Kasai T, Yamaguchi K, Onouchi Y, Sato D, Fujisawa T, Hata A. Impact of coronavirus disease 2019 pandemic on breast cancer surgery using the National Database of Japan. *Scientific Reports* 2023; **13**(1): 4977. DOI: [10.1038/s41598-023-32317-w](https://doi.org/10.1038/s41598-023-32317-w).
- 23 Takahashi R, Uchiyama K, Washida N, Shibagaki K, Yanai A, Nakayama T, Nagashima K, Sato Y, Kanda T, Itoh H. Mean annual intradialytic blood pressure decline and cardiovascular events in Japanese patients on maintenance hemodialysis. *Hypertension Research* 2023; **46**(6) 1536–1546. DOI: [10.1038/s41440-023-01228-8](https://doi.org/10.1038/s41440-023-01228-8).
- 24 Uwamino Y\*, Nagashima K\*, Yoshifuji A, Suga S, Nagao M, Fujisawa T, Ryuzaki M, Takemoto Y, Namkoong H, Wakui M, Matsushita H, Hasegawa N, Sato Y, Murata M. Estimating immunity with mathematical models for SARS-CoV-2 after COVID-19 vaccination. *npj Vaccines* 2023; **8**(1): 33. DOI: [10.1038/s41541-023-00626-w](https://doi.org/10.1038/s41541-023-00626-w). (\*equally contributed)
- 25 Kadono T, Iwasa S, Nagashima K, Oshima K, Yamamoto S, Hirano H, Okita N, Shoji H, Honma Y, Takashima A, Kato K, Ushijima T, Boku N. Progression patterns and site-specific responses in advanced gastric cancer patients treated with nivolumab. *Cancer Medicine* 2023; **12**(8): 9322–9331. DOI: [10.1002/cam4.5689](https://doi.org/10.1002/cam4.5689).
- 26 Nakamura M, Ogawa R, Fujimori J, Uzawa A, Sato Y, Nagashima K, Kuriyama N, Kuwabara S, Nakashima I. Epidemiological and clinical characteristics of myelin oligodendrocyte glycoprotein antibody-associated disease in a nationwide survey. *Multiple Sclerosis Journal* 2023; **29**(4–5): 530–539. DOI: [10.1177/13524585231156736](https://doi.org/10.1177/13524585231156736).
- 27 Matsumura T, Ebigbo A, Römmele C, Ikematsu H, Ishigami H, Suzuki T, Harada H, Yada T, Takatori Y, Takeuchi M, Okimoto K, Akizue N, Maruoka D, Kitagawa Y, Minamide T, Iwaki T, Amano Y, Matsusaka K, Nagashima K, Maehata T, Yahagi N, Messmann H, Kato N. Diagnostic value of adding magnifying chromoendoscopy to magnifying narrow-band imaging endoscopy for colorectal polyps. *Clinical Gastroenterology and Hepatology* 2023; **21**(10): 2551–2559.e2. DOI: [10.1016/j.cgh.2023.01.028](https://doi.org/10.1016/j.cgh.2023.01.028).
- 28 Kubo A, Masugi Y, Hase T, Nagashima K, Kawai Y, Takizawa M, Hishiki T, Shiota M, Wakui M, Kitagawa Y, Kabe Y, Sakamoto M, Yachie A, Hayashida T, Suemats M. Polysulfide serves as a hallmark of desmoplastic reaction to differentially diagnose ductal carcinoma in situ and invasive breast cancer by SERS imaging. *Antioxidants* 2023; **12**(2): 240. DOI: [10.3390/antiox12020240](https://doi.org/10.3390/antiox12020240).
- 29 Kojima D, Washida N, Uchiyama K, Hama EY, Nagasaka T, Kusahana E, Nakayama T, Nagashima K, Sato Y, Morimoto K, Kanda T, Itoh H. The body mass index change is associated with death or hemodialysis transfer in Japanese patients initiating peritoneal dialysis. *Renal Failure* 2023; **45**(1): 2163904. DOI: [10.1080/0886022X.2022.2163904](https://doi.org/10.1080/0886022X.2022.2163904).
- 30 Yamaguchi Y, Takashima A, Nagashima K, Kumagai K, Yamada T, Terashima M, Yabusaki H, Nishikawa K, Tanabe K, Yunome G, Kawachi Y, Yamada T, Fukagawa T, Kinoshita T, Watanabe M, Ishiyama K, Inoue K, Boku N. Evaluating the efficacy of post-operative chemotherapy after curative resection of stage IV gastric cancer with synchronous oligo metastasis: a multicenter retrospective study. *Gastric Cancer* 2023; **26**(2): 307–316. DOI: [10.1007/s10120-023-01363-8](https://doi.org/10.1007/s10120-023-01363-8).

- 31 Fujita M, Nagashima K, Suzuki K, Kasai T, Hashimoto H, Yamaguchi K, Onouchi Y, Sato D, Fujisawa T, Hata A. Changes in the number of cancer diagnosis practices due to the COVID-19 pandemic: interrupted time-series analysis using the National Database of Japan. *Journal of Cancer Research and Clinical Oncology* 2023; **149**(9): 6023–6033. DOI: [10.1007/s00432-022-04557-2](https://doi.org/10.1007/s00432-022-04557-2).
- 32 Numasaki M, Ito K, Takagi K, Nagashima K, Notsuda H, Ogino H, Ando R, Tomioka Y, Suzuki T, Okada Y, Nishioka Y, Unno M. Diverse and divergent functions of IL-32 $\beta$  and IL-32 $\gamma$  isoforms in the regulation of malignant pleural mesothelioma cell growth and the production of VEGF-A and CXCL8. *Cellular Immunology* 2023; **383**: 104652. DOI: [10.1016/j.cellimm.2022.104652](https://doi.org/10.1016/j.cellimm.2022.104652).
- 33 Imamura S, Inagaki T, Abe M, Terada J, Kawasaki T, Nagashima K, Tatsumi K, Suzuki T. Impaired dynamic response of oxygen saturation during the 6-min walk test is associated with mortality in chronic fibrosing interstitial pneumonia. *Respiratory Care* 2023; **68**(3): 356–365. DOI: [10.4187/respcare.10231](https://doi.org/10.4187/respcare.10231).
- 34 Aoki M, Kadowaki S, Takahashi N, Suzuki T, Oshima K, Ando T, Yamamoto Y, Kawakami K, Kito Y, Matsumoto T, Shimozaki K, Miyazaki Y, Yamaguchi T, Nagase M, Tamura T, Amanuma Y, Esaki T, Miura Y, Akiyoshi K, Baba E, Makiyama A, Negoro Y, Nakashima K, Sugimoto N, Nagashima K, Shoji H, Boku N. Pattern of disease progression during third-line or later chemotherapy with nivolumab associated with poor prognosis in advanced gastric cancer: a multicenter retrospective study in Japan. *Gastric Cancer* 2023; **26**(1): 132–144. DOI: [10.1007/s10120-022-01349-y](https://doi.org/10.1007/s10120-022-01349-y).
- 35 Tamura NT, Shikimoto R, Nagashima K, Sato Y, Nakagawa A, Irie S, Iwashita S, Mimura M, Fujisawa D. Group multi-component programme based on cognitive behavioural therapy and positive psychology for family caregivers of people with dementia: a randomised controlled study (3C study). *Psychogeriatrics* 2023; **23**(1): 141–156. DOI: [10.1111/psyg.12919](https://doi.org/10.1111/psyg.12919).
- 36 Ota Y, Nomura K, Fujita N, Suzuki T, Kamatsuka M, Sakata N, Nagashima K, Hirayama J, Fujita N, Shiga K, Oyama N, Terada Y. Influence of LINE-assisted provision of information about human papillomavirus and cervical cancer prevention on HPV vaccine intention: A randomized controlled trial. *Vaccines* 2022; **10**(12): 2005. DOI: [10.3390/vaccines10122005](https://doi.org/10.3390/vaccines10122005).
- 37 Yamada Y, Kobayashi H, Nagashima K, Sugihara K. Real impact of oxaliplatin in adjuvant chemotherapy for patients with stage III colon cancer based on the Multi-Institutional Registry of Large Bowel Cancer in Japan. *Global Health & Medicine* 2022; **4**(5): 259–267. DOI: [10.35772/ghm.2022.01048](https://doi.org/10.35772/ghm.2022.01048).
- 38 Suzuki T, Ota Y, Sakata N, Fujita N, Kamatsuka M, Nagashima K, Hirayama J, Terada Y, Nomura K. HPV vaccine intention among university students during suspension of active recommendation in Japan. *Human Vaccines & Immunotherapeutics* 2022; **18**(6): 2116900. DOI: [10.1080/21645515.2022.2116900](https://doi.org/10.1080/21645515.2022.2116900).
- 39 Fujita M, Nagashima K, Shimazu M, Suzuki M, Tauchi I, Sakuma M, Yamamoto S, Hanaoka H, Shozu M, Tsuruoka N, Kasai T, Hata A. Implementation of a self-sampling HPV test for non-responders to cervical cancer screening in Japan: secondary analysis of the ACCESS trial. *Scientific Reports* 2022; **12**(1): 14531. DOI: [10.1038/s41598-022-18800-w](https://doi.org/10.1038/s41598-022-18800-w).
- 40 Hirata K, Sato T, Nakamura M, Kato K, Hirano H, Kumekawa Y, Hino K, Kawakami K, Kito Y, Matsumoto T, Kawakami T, Komoda M, Nagashima K, Sato Y, Yamazaki K, Hironaka S, Takaishi H, Hamamoto Y, Muro K. WJOG13219G: the efficacy and safety of FOLFOXIRI or doublet plus anti-VEGF therapy in previously untreated *BRAF*<sup>V600E</sup> mutant metastatic colorectal cancer: a multi-institutional registry-based study (BRACELET study). *Clinical Colorectal Cancer* 2022; **21**(4): 339–346. DOI: [10.1016/j.clcc.2022.08.002](https://doi.org/10.1016/j.clcc.2022.08.002).
- 41 Eriguchi T, Takeda A, Nemoto T, Tsurugai Y, Sanuki N, Tateishi Y, Kibe Y, Akiba T, Inoue M, Nagashima K, Horita N. Relationship between dose prescription methods and local control rate in stereotactic body radiotherapy for early-stage non-small cell lung cancer: systematic review and meta-analysis. *Cancers* 2022; **14**(15): 3815. DOI: [10.3390/cancers14153815](https://doi.org/10.3390/cancers14153815).
- 42 Mashimo Y, Tsuchihashi S, Tsutsui K, Arai T, Tsuji Y, Numai T, Kameda K, Nishizawa K, Kobati M, Tanaka S, Watanabe H, Naruse Y, Ohmura M, Ishida N, Iwasaki T, Hiruma G, Miyazaki N, Takemura R, Nagashima K, Sato Y, Ohtsu Y, Nakano T, Aida N, Iizuka I, Kato H, Kobayashi Y, Senbonmatsu T. Synergistic effect of motivation for the elderly and support for going out. *Journal of Personalized Medicine* 2022; **12**(8): 1257. DOI: [10.3390/jpm12081257](https://doi.org/10.3390/jpm12081257).

- Ito T, Takashima A, Yamazaki K, Yukami H, Uetake H, Tsuda M, Suto T, Moriwaki T, Sugimoto N, Ojima H, Takii Y, Yasui H, Esaki T, Tsuji A, Goto M, Saruta M, Otsu S, Shinozaki K, Fujiwara T, Tamura T, Baba E, Shiozawa M, Denda T, Ueno H, Nagashima K, Shimada Y. Primary tumor location as a predictor of survival in patients with *RAS* wild-type colorectal cancer who receive molecularly targeted drugs as first-line therapy: a multicenter real-world observational study by the Japanese Society for Cancer of the Colon and Rectum. *International Journal of Clinical Oncology* 2022; **27**(9): 1450–1458. DOI: [10.1007/s10147-022-02208-7](https://doi.org/10.1007/s10147-022-02208-7).
- Hashimoto T, Takayanagi D, Yonemaru J, Naka T, Nagashima K, Yatabe Y, Shida D, Hamamoto R, Kleeman SO, Leedham SJ, Maughan T, Takashima A, Shiraishi K, Sekine S. Clinicopathological and molecular characteristics of *RSPO* fusion-positive colorectal cancer. *British Journal of Cancer* 2022; **127**(6): 1043–1050. DOI: [10.1038/s41416-022-01880-w](https://doi.org/10.1038/s41416-022-01880-w).
- Watanabe K, Shibuya K, Misawa S, Nagashima K, Suzuki Y-i, Suichi T, Kojima Y, Nakamura K, Kano H, Prado M, Uzawaa A, Kuwabara S. Impaired neuromuscular transmission in facial muscles of amyotrophic lateral sclerosis: A single-fiber electromyography study. *Neurology and Clinical Neuroscience* 2022; **10**(2): 78–82. DOI: [10.1111/ncn3.12580](https://doi.org/10.1111/ncn3.12580)
- Fujita M, Shimazu M, Nagashima K, Suzuki M, Tauchi I, Sakuma M, Yamamoto S, Shozu M, Hanaoka H, Tsuruoka N, Kasai T, Hata A. Study protocol of the ACCESS trial: A randomized trial to evaluate the effectiveness of human papillomavirus testing by self-sampling in cervical cancer screening uptake and precancer detection. *BMJ Open* 2022; **12**(2): e049803. DOI: [10.1136/bmjopen-2021-049803](https://doi.org/10.1136/bmjopen-2021-049803)
- Kobayashi K, Ogasawara S, Takahashi A, Seko Y, Unozawa H, Sato R, Watanabe S, Moriguchi M, Morimoto N, Tsuchiya S, Iwai K, Inoue M, Ogawa K, Ishino T, Iwanaga T, Sakuma T, Fujita N, Kanzaki H, Koroki K, Nakamura M, Kanogawa N, Kiyono S, Kondo T, Saito T, Nakagawa R, Suzuki E, Ooka Y, Nakamoto S, Tawada A, Chiba T, Arai M, Kanda T, Maruyama H, Nagashima K, Kato J, Isoda N, Aramaki T, Itoh Y, Kato N. Evolution of survival impact of molecular target agents in patients with advanced hepatocellular carcinoma. *Liver Cancer* 2022; **11**(1): 48–60. DOI: [10.1159/000519868](https://doi.org/10.1159/000519868)
- Hasegawa T, Seo T, Kubota Y, Sudo T, Yokota K, Miyazaki N, Muranaka A, Hirano S, Yamauchi A, Nagashima K, Iyo M, Sakai I. Reliability and validity of the Japanese version of the 4A's Test for delirium screening in the elderly patient. *Asian Journal of Psychiatry* 2022; **67**: 102918. DOI: [10.1016/j.ajp.2021.102918](https://doi.org/10.1016/j.ajp.2021.102918)
- Felix K, Honda K, Nagashima K, Kashiro A, Takeuchi K, Kobayashi T, Hinterkopf S, Gaida MM, Dang H, Brindl N, Kaiser J, Büchler MW, Strobel O. Non-invasive risk stratification of IPMN with malignant potential by serum apolipoprotein-A2-isoforms. *International Journal of Cancer* 2022; **150**(5): 881–894. DOI: [10.1002/ijc.33875](https://doi.org/10.1002/ijc.33875)
- Noro R, Honda K, Nagashima K, Motoi N, Kunugi S, Matsubayashi J, Takeuchi S, Shiraishi H, Okano T, Kashiro A, Meng X, Yoshida Y, Watanabe S-i, Usuda J, Inoue T, Wilber H, Ikeda N, Seike M, Gemma A, Kubota K. *Alpha-actinin-4 (ACTN4)* gene amplification is a predictive biomarker for adjuvant chemotherapy with UFT in stage I lung adenocarcinomas. *Cancer Science* 2022; **113**(3): 1002–1009. DOI: [10.1111/cas.15228](https://doi.org/10.1111/cas.15228)
- Yamamoto S, Nagashima K, Kawakami T, Mitani S, Komoda M, Tsuji Y, Izawa N, Kawakami K, Yamamoto Y, Makiyama A, Yamazaki K, Masuishi T, Esaki T, Nakajima TE, Okuda H, Moriwaki T, Boku N. Second-line chemotherapy after early disease progression during first-line chemotherapy containing bevacizumab for patients with metastatic colorectal cancer. *BMC Cancer* 2021; **21**(1): 1159. DOI: [10.1186/s12885-021-08890-6](https://doi.org/10.1186/s12885-021-08890-6)
- Shoji H, Takahari D, Hara H, Nagashima K, Adachi J, Boku N. A phase I study of pevonedistat plus CapeOX in patients with advanced gastric cancer refractory to platinum (NCCH-1811). *Future Science OA* 2021; **7**(7): FSO721. DOI: [10.2144/fsoa-2021-0023](https://doi.org/10.2144/fsoa-2021-0023)
- Honda K, Hishiki T, Yamamoto S, Yamamoto T, Miura N, Kubo A, Itoh M, Chen W-Y, Takano M, Yoshikawa T, Kasamatsu T, Sonoda S, Yoshizawa H, Nakamura S, Itai Y, Shiota M, Koike D, Naya M, Hayakawa N, Naito Y, Matsuura T, Iwaisako K, Masui T, Uemoto S, Nagashima K, Hashimoto Y, Sakuma T, Matsubara O, Huang W, Ida T, Akaike T, Masugi Y, Sakamoto M, Kato T, Ino Y, Yoshida H, Tsuda H, Hiraoka N, Kabe Y, Suematsu M. On-tissue polysulfide visualization by surface-enhanced Raman spectroscopy benefits patients with ovarian cancer to predict post-operative chemosensitivity. *Redox Biology* 2021; **41**: 101926. DOI: [10.1016/j.redox.2021.101926](https://doi.org/10.1016/j.redox.2021.101926)

- 54 Iwase M, Matsuura Y, Kuniyoshi K, Suzuki T, Nagashima K, Ohtori S. Biomechanical evaluation of opponenplasty for low median palsy: a cadaver study. *Journal of Hand Surgery Global Online* 2021; **3**(2): 74–80. DOI: [10.1016/j.jhsg.2020.11.002](https://doi.org/10.1016/j.jhsg.2020.11.002)
- 55 Yamaguchi T, Takashima A, Nagashima K, Terashima M, Aizawa M, Ohashi M, Tanaka R, Yamada T, Kinoshita T, Inada T, Ishiyama K, Ema A, Yuasa Y, Haruta S, Kakihara N, Nishikawa K, Yunome G, Satoh T, Fukagawa T, Katai H, Boku N. Impact of preoperative chemotherapy as initial treatment for advanced gastric cancer with peritoneal metastasis limited to positive peritoneal lavage cytology (CY1) or localized peritoneal metastasis (P1a): A multi-institutional retrospective study. *Gastric Cancer* 2021; **24**(3): 701–709. DOI: [10.1007/s10120-020-01137-6](https://doi.org/10.1007/s10120-020-01137-6).
- 56 Koshizaka M, Ishikawa K, Ishibashi R, Maezawa Y, Sakamoto K, Uchida D, Nakamura S, Yamaga M, Yokoh H, Kobayashi A, Onishi S, Kobayashi K, Ogino J, Hashimoto N, Tokuyama H, Shimada F, Ohara E, Ishikawa T, Shoji M, Ide S, Ide K, Baba Y, Hattori A, Kitamoto T, Horikoshi T, Shimofusa R, Takahashi S, Nagashima K, Sato Y, Takemoto M, Newby LK, Yokote K, on behalf of the PRIME-V study group. Effects of ipragliflozin versus metformin in combination with sitagliptin on bone and muscle in Japanese patients with type 2 diabetes mellitus: Sub-analysis of a prospective, randomized, controlled study (PRIME-V study). *Journal of Diabetes Investigation* 2021; **12**(2): 200–206. DOI: [10.1111/jdi.13340](https://doi.org/10.1111/jdi.13340).
- 57 Sato Y, Kobayashi T, Nishiumi S, Okada A, Fujita T, Sanuki T, Kobayashi M, Asahara M, Adachi M, Sakai A, Shiomi H, Masuda A, Yoshida M, Takeuchi K, Kodama Y, Kutsumi H, Nagashima K, Honda K. Prospective study using plasma apolipoprotein A2-isoforms to screen for high-risk status of pancreatic cancer. *Cancers* 2020; **12**(9): 2625. DOI: [10.3390/cancers12092625](https://doi.org/10.3390/cancers12092625).
- 58 Nomura K, Minamizono S, Nagashima K, Ono M, Kitano N. Maternal body mass index and breastfeeding non-initiation and cessation: a quantitative review of the literature. *Nutrients* 2020; **12**(9): 2684. DOI: [10.3390/nu12092684](https://doi.org/10.3390/nu12092684).
- 59 Imamura S, Inagaki T, Terada J, Nagashima K, Katsura H, Tatsumi K. Long-term efficacy of pulmonary rehabilitation with home-based or low frequent maintenance programs in patients with chronic obstructive pulmonary disease: a meta-analysis. *Annals of Palliative Medicine* 2020; **9**(5): 2606–2615. DOI: [10.21037/apm-19-581](https://doi.org/10.21037/apm-19-581).
- 60 Ishibashi R, Takatsuna Y, Koshizaka M, Tatsumi T, Takahashi S, Nagashima K, Asaumi N, Arai M, Shimada F, Tachibana K, Watanabe Y, Ishikawa K, Hoshino A, Yamamoto K, Kubota-Taniai M, Mayama T, Yamamoto S, Yokote K. Safety and efficacy of ranibizumab and luseogliflozin combination therapy in diabetic macular edema patients: protocol for a multicenter, randomized controlled, open-label trial. *Diabetes Therapy* 2020; **11**(8): 1891–1905. DOI: [10.1007/s13300-020-00854-6](https://doi.org/10.1007/s13300-020-00854-6).
- 61 Ueshima K, Ogasawara S, Ikeda M, Yasui Y, Terashima T, Yamashita T, Obi S, Sato S, Aikata H, Ohmura T, Kuroda H, Ohki T, Nagashima K, Ooka Y, Takita M, Kurosaki M, Chayama K, Kaneko S, Izumi N, Kato N, Kudo M, Omata M. Hepatic arterial infusion chemotherapy versus sorafenib in patients with advanced hepatocellular carcinoma. *Liver Cancer* 2020; **9**(5): 583–595. DOI: [10.1159/000508724](https://doi.org/10.1159/000508724).
- 62 Yamamoto S, Kato K, Daiko H, Kojima T, Hara H, Abe T, Tsubosa Y, Nagashima K, Aoki K, Mizoguchi Y, Kitano S, Yachida S, Shiba S, Kitagawa Y. Feasibility study of nivolumab as neoadjuvant chemotherapy for locally esophageal carcinoma: FRONTIER (JCOG1804E). *Future Oncology* 2020; **16**(19): 1351–1357. DOI: [10.2217/fon-2020-0189](https://doi.org/10.2217/fon-2020-0189).
- 63 Nagata Y, Kato K, Miyamoto T, Hirano H, Shoji H, Iwasa S, Honma Y, Takashima A, Hamaguchi T, Matsushita H, Nagashima K, Saruta M, Boku N. Safety and efficacy of cell-free and concentrated ascites reinfusion therapy (CART) in gastrointestinal cancer patients with massive ascites treated with systemic chemotherapy. *Supportive Care in Cancer* 2020; **28**(12): 5861–5869. DOI: [10.1007/s00520-020-05401-4](https://doi.org/10.1007/s00520-020-05401-4).
- 64 Katsumata Y, Terada J, Matsumura T, Koshikawa K, Sakao S, Tomiyoshi G, Shinmen N, Nakamura R, Kuroda H, Nagashima K, Kobayashi Y, Kobayashi E, Iwadata Y, Zhang X-M, Hiwasa T, Tatsumi K. Circulating anti-sorting nexins 16 antibodies as an emerging biomarker of coronary artery disease in patients with obstructive sleep apnea. *Diagnostics* 2020; **10**(2): 71. DOI: [10.3390/diagnostics10020071](https://doi.org/10.3390/diagnostics10020071).
- 65 Suichi T, Misawa S, Nagashima K, Sato Y, Iwai Y, Katayama K, Sekiguchi Y, Shibuya K, Amino H, Suzuki Y-i, Tsuneyama A, Nakamura K, Kuwabara S. Lenalidomide treatment for thalidomide-refractory POEMS syndrome: A prospective single-arm clinical trial. *Internal Medicine* 2020; **59**(9): 1149–1153. DOI: [10.2169/internalmedicine.3800-19](https://doi.org/10.2169/internalmedicine.3800-19).

- 66 Ishikawa M, Iwasa S, Aoki M, Imazeki H, Hirano H, Shoji H, Honma Y, Okita N, Nagashima K, Takashima A, Kato K, Saruta M, Boku N. Retrospective comparison of nab-paclitaxel plus ramucirumab and paclitaxel plus ramucirumab as second-line treatment for advanced gastric cancer focusing on peritoneal metastasis. *Investigational New Drugs* 2020; **38**(2): 533–540. DOI: [10.1007/s10637-019-00822-3](https://doi.org/10.1007/s10637-019-00822-3).
- 67 Iwase T, Sangai T, Fujimoto H, Sawabe Y, Matsushita K, Nagashima K, Sato Y, Nakagawa A, Masuda T, Nagashima T, Ohtsuka M. Quality and quantity of visceral fat tissue are associated with insulin resistance and survival outcomes after chemotherapy in patients with breast cancer. *Breast Cancer Research and Treatment* 2020; **179**(2): 435–443. *In press*. DOI: [10.1007/s10549-019-05467-7](https://doi.org/10.1007/s10549-019-05467-7).
- 68 Satomi NT, Honma Y, Nagashima K, Umezawa R, Ito Y, Hirano H, Shoji H, Takashima A, Iwasa S, Kato K, Hamaguchi T, Itami J, Boku N. Risk factors of severe benign cicatricial stricture after definitive chemoradiation for localized T3 esophageal carcinoma. *Anticancer Research* 2020; **40**(2): 1071–1077. DOI: [10.21873/anticanres.14045](https://doi.org/10.21873/anticanres.14045).
- 69 Honma Y, Nagashima K, Hirano H, Shoji H, Iwasa S, Takashima A, Okita N, Kato K, Boku N, Murakami N, Inaba K, Ito Y, Itami J, Kanamori J, Oguma J, Daiko H. Clinical outcomes of locally advanced esophageal neuroendocrine carcinoma treated with chemoradiotherapy. *Cancer Medicine* 2020; **9**(2): 595–604. DOI: [10.1002/cam4.2708](https://doi.org/10.1002/cam4.2708).
- 70 Fujita M, Nagashima K, Takahashi S, Suzuki K, Fujisawa T, Hata A. Hand-held flow meter improves COPD detectability regardless of using a conventional questionnaire: a split-sample validation study. *Respirology* 2020; **25**(2): 191–197. DOI: [10.1111/resp.13602](https://doi.org/10.1111/resp.13602).
- 71 Yamaguchi T, Takashima A, Nagashima K, Makuuchi R, Aizawa M, Ohashi M, Tashiro K, Yamada T, Kinoshita T, Hata H, Kawachi Y, Kawabata R, Tsuji T, Hihara J, Sakamoto T, Fukagawa T, Katai H, Higuchi K, Boku N. Efficacy of post-operative chemotherapy after resection leaving no macroscopically visible disease of gastric cancer with peritoneal lavage cytology positive (CY1) or localized peritoneum metastasis (P1a): a multicenter retrospective study. *Annals of Surgical Oncology* 2020; **27**(1): 284–292. DOI: [10.1245/s10434-019-07697-x](https://doi.org/10.1245/s10434-019-07697-x).
- 72 Nomura K, Nagashima K, Suzuki S, Itoh H. Application of Japanese guidelines for gestational weight gain to multiple pregnancy outcomes and its optimal range in 101,336 Japanese women. *Scientific Reports* 2019; **9**(1): 17310. DOI: [10.1038/s41598-019-53809-8](https://doi.org/10.1038/s41598-019-53809-8)
- 73 Masuda K, Shoji H, Nagashima K, Yamamoto S, Imazeki H, Aoki M, Miyamoto T, Hirano H, Honma Y, Iwasa S, Okita N, Takashima A, Kato K, Boku N. Correlation between immune-related adverse events and prognosis in patients with gastric cancer treated with nivolumab. *BMC Cancer* 2019; **19**(1): 974. DOI: [10.1186/s12885-019-6150-y](https://doi.org/10.1186/s12885-019-6150-y).
- 74 Narita S, Nomura K, Hatakeyama S, Takahashi M, Sakurai T, Kawamura S, Hoshi S, Ishida M, Kawaguchi T, Ishidoya S, Shimoda J, Sato H, Mitsuzuka K, Tochigi T, Tsuchiya N, Ohyama C, Arai Y, Nagashima K, Habuchi T. Changes in conditional net survival and dynamic prognostic factors in patients with newly diagnosed metastatic prostate cancer initially treated with androgen deprivation therapy. *Cancer Medicine* 2019; **8**(15): 6566–6577. DOI: [10.1002/cam4.2502](https://doi.org/10.1002/cam4.2502).
- 75 Narita S, Nomura K, Hatakeyama S, Takahashi M, Sakurai T, Kawamura S, Hoshi S, Ishida M, Kawaguchi T, Ishidoya S, Shimoda J, Sato H, Mitsuzuka K, Tochigi T, Tsuchiya N, Ohyama C, Arai Y, Nagashima K, Habuchi T. Prognostic significance of early changes in serum biomarker levels in patients with newly diagnosed metastatic prostate cancer. *Scientific Reports* 2019; **9**(1): 12071. DOI: [10.1038/s41598-019-48600-8](https://doi.org/10.1038/s41598-019-48600-8).
- 76 Monma S, Kato K, Shouji H, Okita N, Takashima A, Honma Y, Iwasa S, Hamaguchi T, Yamada Y, Shimada Y, Boku N, Nagashima K, Ito Y, Itami J. Gastric mucosal injury and hemorrhage after definitive chemoradiotherapy for locally advanced esophageal cancer. *Esophagus* 2019; **16**(4): 402–407. DOI: [10.1007/s10388-019-00680-1](https://doi.org/10.1007/s10388-019-00680-1).



- 77 Koshizaka M, Ishikawa K, Ishibashi R, Maezawa Y, Sakamoto K, Uchida D, Nakamura S, Yamaga M, Yokoh H, Kobayashi A, Onishi S, Kobayashi K, Ogino J, Hashimoto N, Tokuyama H, Shimada F, Ohara E, Ishikawa T, Shoji M, Ide S, Ide K, Baba Y, Hattori A, Kitamoto T, Horikoshi T, Shimofusa R, Takahashi S, Nagashima K, Sato Y, Takemoto M, Newby LK, Yokote K, On behalf of the PRIME-V study group. Comparing the effects of ipragliflozin versus metformin on visceral fat reduction and metabolic dysfunction in Japanese patients with type 2 diabetes treated with sitagliptin: A prospective, multicentre, open-label, blinded-endpoint, randomised controlled study (PRIME-V study). *Diabetes, Obesity and Metabolism* 2019; **21**(8): 1990–1995. DOI: [10.1111/dom.13750](https://doi.org/10.1111/dom.13750).
- 78 Fujita M, Nagashima K, Takahashi S, Hata A. Inequality within a community at the neighborhood level and the incidence of mood disorders in Japan: a multilevel analysis. *Social Psychiatry and Psychiatric Epidemiology* 2019; **54**(9): 1125–1131. DOI: [10.1007/s00127-019-01687-w](https://doi.org/10.1007/s00127-019-01687-w).
- 79 Aoki M, Shoji H, Nagashima K, Imazeki H, Miyamoto T, Hirano H, Honma Y, Iwasa S, Okita N, Takashima A, Kato K, Higuchi K, Boku N. Hyperprogressive disease during nivolumab or irinotecan treatment in patients with advanced gastric cancer. *ESMO Open* 2019; **4**: e000488. DOI: [10.1136/esmoopen-2019-000488](https://doi.org/10.1136/esmoopen-2019-000488).
- 80 Matsumura T, Terada J, Yoshimura C, Koshikawa K, Kinoshita T, Yahaba M, Nagashima K, Sakao S, Tatsumi K. Single-use suvorexant for treating insomnia during overnight polysomnography in patients with suspected obstructive sleep apnea: a single-center experience. *Drug Design, Development and Therapy* 2019; **13**: 809–816. DOI: [10.2147/DDDT.S197237](https://doi.org/10.2147/DDDT.S197237)
- 81 Hiramoto S, Tamaki T, Nagashima K, Hori T, Kikuchi A, Yoshioka A, Inoue A. Prognostic factors in patients who received end-of-life chemotherapy for advanced cancer. *International Journal of Clinical Oncology* 2019; **24**(4): 454–459. DOI: [10.1007/s10147-018-1363-7](https://doi.org/10.1007/s10147-018-1363-7).
- 82 Hashimoto J, Kato K, Ito Y, Kojima T, Akimoto T, Daiko H, Hamamoto Y, Matsushita H, Katano S, Hara H, Tanaka Y, Saito Y, Nagashima K, Igaki H. Phase II feasibility study of preoperative concurrent chemoradiotherapy with cisplatin plus 5-fluorouracil and elective lymph node irradiation for clinical stage II/III esophageal squamous cell carcinoma. *International Journal of Clinical Oncology* 2019; **24**(1): 70–74. DOI: [10.1007/s10147-018-1336-x](https://doi.org/10.1007/s10147-018-1336-x).
- 83 Honma Y, Terauchi T, Tateishi U, Kano D, Nagashima K, Iwasa S, Takashima A, Kato K, Hamaguchi T, Boku N, Shimada Y, Yamada Y. Imaging peritoneal metastasis of gastric cancer with <sup>18</sup>F-fluorothymidine positron emission tomography/computed tomography: a proof-of-concept study. *British Journal of Radiology* 2018; **91**(1089): 20180259. DOI: [10.1259/bjr.20180259](https://doi.org/10.1259/bjr.20180259).
- 84 Fujita M, Sato Y, Nagashima K, Takahashi S, Hata A. Medical costs attributable to overweight and obesity in Japanese individuals. *Obesity Research & Clinical Practice* 2018; **12**(5): 479–484. DOI: [10.1016/j.orcp.2018.06.002](https://doi.org/10.1016/j.orcp.2018.06.002).
- 85 Nishi T, Kitahara H, Fujimoto Y, Nakayama T, Nagashima K, Hanaoka H, Kobayashi Y. Intravenous nicorandil versus adenosine for fractional flow reserve measurement: A crossover, randomized study. *Heart and Vessels* 2018; **33**(12): 1570–1575. DOI: [10.1007/s00380-018-1197-2](https://doi.org/10.1007/s00380-018-1197-2).
- 86 Misawa S, Kuwabara S, Sato Y, Yamaguchi N, Nagashima K, Katayama K, Sekiguchi Y, Iwai Y, Amino H, Suichi T, Yokota T, Nishida Y, Kanouchi T, Kohara N, Kawamoto M, Ishii J, Kuwahara M, Suzuki H, Hirata K, Kokubun N, Masuda R, Kaneko J, Yabe I, Sasaki H, Kaida K-i, Takazaki H, Suzuki N, Suzuki S, Nodera H, Matsui N, Tsuji S, Koike H, Yamasaki R, Kusunoki S, for the Japanese Eculizumab Trial for GBS (JET-GBS) Study Group. Safety and efficacy of eculizumab in Guillain–Barré syndrome: a multicentre, double-blind, randomised phase 2 trial. *The Lancet Neurology* 2018; **17**(6): 519–529. DOI: [10.1016/S1474-4422\(18\)30114-5](https://doi.org/10.1016/S1474-4422(18)30114-5).
- 87 Fujita M, Sugiyama M, Sato Y, Nagashima K, Takahashi S, Mizogami M, Hata A. Hepatitis B virus reactivation in patients with rheumatoid arthritis: Analysis of the National Database of Japan. *Journal of Viral Hepatitis* 2018; **25**(11): 1312–1320. DOI: [10.1111/jvh.12933](https://doi.org/10.1111/jvh.12933).

- 88 Matsumura T, Terada J, Kinoshita T, Sakurai Y, Yahaba M, Tsushima K, Sakao S, Nagashima K, Ozaki T, Kobayashi Y, Hiwasa T, Tatsumi K. Circulating autoantibodies against neuroblastoma suppressor of tumorigenicity 1 (NBL1): a potential biomarker for coronary artery disease in patients with obstructive sleep apnea. *PLoS ONE* 2018; **13**(3): e0195015. DOI: [10.1371/journal.pone.0195015](https://doi.org/10.1371/journal.pone.0195015).
- 89 Yamaguchi T, Kato K, Nagashima K, Iwasa S, Honma Y, Takashima A, Hamaguchi T, Ito Y, Itami J, Boku N, Higuchi K. Type of second primary malignancy after achieving complete response by definitive chemoradiation therapy in patients with esophageal squamous cell carcinoma. *International Journal of Clinical Oncology* 2018; **23**(4): 652–658. DOI: [10.1007/s10147-018-1258-7](https://doi.org/10.1007/s10147-018-1258-7).
- 90 Watanabe K, Hirano S, Kojima K, Nagashima K, Mukai H, Sato T, Takemoto M, Matsumoto K, Iimori T, Iose S, Omori S, Shibuya K, Sekiguchi Y, Beppu M, Amino H, Suichi T, Yokote K, Uno T, Kuwabara S, Misawa S. Altered cerebral blood flow in the anterior cingulate cortex is associated with neuropathic pain. *Journal of Neurology, Neurosurgery, and Psychiatry* 2018; **89**(10): 1082–1087. DOI: [10.1136/jnnp-2017-316601](https://doi.org/10.1136/jnnp-2017-316601).
- 91 Kotooka N, Kitakaze M, Nagashima K, Asaka M, Kinugasa Y, Nochioka K, Mizuno A, Nagatomo D, Mine D, Yamada Y, Kuratomi A, Okada N, Fujimatsu D, Kuwahata S, Toyoda S, Hirotsu S-i, Komori T, Eguchi K, Kario K, Inomata T, Sugi K, Yamamoto K, Tsutsui H, Masuyama T, Shimokawa H, Momomura S-i, Seino Y, Sato Y, Inoue T, Node K, On behalf of the HOMES-HF study investigators. The first multicenter, randomized, controlled trial of home telemonitoring for Japanese patients with heart failure: home telemonitoring study for patients with heart failure (HOMES-HF). *Heart and Vessels* 2018; **33**(8): 866–876. DOI: [10.1007/s00380-018-1133-5](https://doi.org/10.1007/s00380-018-1133-5).
- 92 Inagaki T, Terada J, Yahaba M, Kawata N, Jujo T, Nagashima K, Sakao S, Tanabe N, Tatsumi K. Heart rate and oxygen saturation change patterns during 6-min walk test in subjects with chronic thromboembolic pulmonary hypertension. *Respiratory Care* 2018; **63**(5): 573–583. DOI: [10.4187/respcare.05788](https://doi.org/10.4187/respcare.05788)
- 93 Sasaki Y, Iwasa S, Okazaki S, Goto M, Kojima Y, Naganuma A, Nagashima K, Nagai Y, Hirano H, Honma Y, Takashima A, Kato K, Hamaguchi T. A phase II study of combination therapy with oral S-1 and cisplatin in elderly patients with advanced gastric cancer. *Gastric Cancer* 2018; **21**(3): 439–445. DOI: [10.1007/s10120-017-0753-2](https://doi.org/10.1007/s10120-017-0753-2).
- 94 Yanai T, Iwasa S, Hashimoto H, Ohyanagi F, Takiguchi T, Takeda K, Nakao M, Sakai H, Nakayama T, Minato K, Arai T, Suzuki K, Shimada Y, Nagashima K, Terakado H, Yamamoto N. A double-blind randomized phase II dose-finding study of olanzapine 10 mg or 5 mg for the prophylaxis of emesis induced by highly emetogenic cisplatin-based chemotherapy. *International Journal of Clinical Oncology* 2018; **23**(2): 382–388. DOI: [10.1007/s10147-017-1200-4](https://doi.org/10.1007/s10147-017-1200-4)
- 95 Kinoshita T, Yahaba M, Terada J, Matsumura T, Sakurai Y, Nagashima K, Sakao S, Tatsumi K. Impact of arterial stiffness on WatchPAT variables in patients with obstructive sleep apnea. *Journal of Clinical Sleep Medicine* 2018; **14**(3): 319–325. DOI: [10.5664/jcsm.6970](https://doi.org/10.5664/jcsm.6970).
- 96 Korematsu S, Nagashima K, Sato Y, Nagao M, Hasegawa S, Nakamura H, Sugiura S, Miura K, Okada K, Fujisawa T. “Spike” in acute asthma exacerbations during enterovirus D68 epidemic in Japan: A nation-wide survey. *Allergology International* 2018; **67**(1): 55–60. DOI: [10.1016/j.alit.2017.04.003](https://doi.org/10.1016/j.alit.2017.04.003).
- 97 Iizumi S, Takashima A, Narita Y, Tajika M, Muro K, Kawai S, Yasui H, Matsushima T, Takahari D, Nagashima K, Boku N. Efficacy and safety of taxane-monootherapy in advanced gastric cancer refractory to triplet chemotherapy with docetaxel, cisplatin, and S-1: a multicenter retrospective study. *Cancer Chemotherapy and Pharmacology* 2017; **80**(3): 575–582. DOI: [10.1007/s00280-017-3397-3](https://doi.org/10.1007/s00280-017-3397-3).
- 98 Shiraishi H, Fujiwara Y, Kakuya T, Tsuta K, Motoi N, Miura N, Watabe Y, Watanabe S-i, Noro R, Nagashima K, Huang W, Yamada T, Asamura H, Ohe Y, Honda K. Actinin-4 protein overexpression as a predictive biomarker in adjuvant chemotherapy for resected lung adenocarcinoma. *Biomarkers in Medicine* 2017; **11**(9): 721–731. DOI: [10.2217/bmm-2017-0150](https://doi.org/10.2217/bmm-2017-0150).

- 99 Honma Y, Hokamura N, Nagashima K, Sudo K, Shoji H, Iwasa S, Takashima A, Kato K, Hamaguchi T, Boku N, Ito Y, Itami J, Koyanagi K, Igaki H, Tachimori Y. Clinical outcomes of resectable esophageal cancer with supraclavicular lymph node metastases treated with curative intent. *Anticancer Research* 2017; **37**(7): 3741–3749. DOI: [10.21873/anticancer.11748](https://doi.org/10.21873/anticancer.11748).
- 100 Nishide A, Fujita M, Sato Y, Nagashima K, Takahashi S, Hata A. Income-related inequalities in access to dental care services in Japan. *International Journal of Environmental Research and Public Health* 2017; **14**(5): 524. DOI: [10.3390/ijerph14050524](https://doi.org/10.3390/ijerph14050524).
- 101 Shoji H, Heike Y, Tada K, Kitano S, Nishimura T, Shimada Y, Nagashima K, Aoki K, Hiraoka N, Honma Y, Iwasa S, Takashima A, Kato K, Boku N, Honda K, Yamada T, Hamaguchi T. The peripheral immune status of granulocytic myeloid-derived suppressor cells correlates the survival in advanced gastric cancer patients receiving cisplatin-based chemotherapy. *Oncotarget* 2017; **8**(56): 95083–95094. DOI: [10.18632/oncotarget.18297](https://doi.org/10.18632/oncotarget.18297).
- 102 Fujita M, Sato Y, Nagashima K, Takahashi S, Hata A. Impact of geographic accessibility on utilization of the annual health check-ups by income level in Japan: A multilevel analysis. *PLoS ONE* 2017; **12**(5): e0177091. DOI: [10.1371/journal.pone.0177091](https://doi.org/10.1371/journal.pone.0177091).
- 103 Nomura K, Kido M, Tanabe A, Nagashima K, Takenoshita S, Ando K. Investigation of optimal weight gain during pregnancy for Japanese Women. *Scientific Reports* 2017; **7**(1): 2569. DOI: [0.1038/s41598-017-02863-1](https://doi.org/10.1038/s41598-017-02863-1).
- 104 Matsumura T, Terada J, Kinoshita T, Sakurai Y, Yahaba M, Ema R, Amata A, Sakao S, Nagashima K, Tatsumi K, Hiwasa T. Circulating anti-coatomer protein complex subunit epsilon (COPE) autoantibodies as a potential biomarker for cardiovascular and cerebrovascular events in patients with obstructive sleep apnea. *Journal of Clinical Sleep Medicine* 2017; **13**(3): 393–400. DOI: [10.5664/jcsm.6488](https://doi.org/10.5664/jcsm.6488).
- 105 Koshizaka M, Ishikawa K, Ishikawa T, Kobayashi K, Takemoto M, Horikoshi T, Shimousa R, Takahashi S, Nagashima K, Sato Y, Tatsuno I, Terano T, Hashimoto N, Kuribayashi N, Uchida D, Yokote K, on behalf of the PRIME-V Study Investigators. Efficacy and safety of ipragliflozin and metformin for visceral fat reduction in type 2 diabetes patients receiving treatment with dipeptidyl peptidase-4 inhibitors in Japan: A study protocol for a prospective, multicenter, blinded-endpoint phase IV randomized controlled trial (PRIME-V study). *BMJ Open* 2017; **7**(5): e015766. DOI: [10.1136/bmjopen-2016-015766](https://doi.org/10.1136/bmjopen-2016-015766).
- 106 Nishimura T, Iwasa S, Nagashima K, Okita N, Takashima A, Honma Y, Kato K, Hamaguchi T, Yamada Y, Shimada Y, Boku N. Irinotecan monotherapy as third-line treatment for advanced gastric cancer refractory to fluoropyrimidines, platinum, and taxanes. *Gastric Cancer* 2017; **20**(4): 655–662. DOI: [10.1007/s10120-016-0670-9](https://doi.org/10.1007/s10120-016-0670-9).
- 107 Yamamoto Y, Yamaguchi S, Sasho T, Fukawa T, Akatsu Y, Akagi R, Yamaguchi T, Takahashi K, Nagashima K, Takahashi K. Quantitative US elastography can be used to quantify mechanical and histologic tendon healing in a rabbit model of achilles tendon transection. *Radiology* 2017; **283**(2): 408–417. DOI: [10.1148/radiol.2016160695](https://doi.org/10.1148/radiol.2016160695).
- 108 Yamaguchi N, Misawa S, Sato Y, Nagashima K, Katayama K, Sekiguchi Y, Iwai Y, Amino H, Suichi T, Yokota T, Nishida Y, Kohara N, Hirata K, Nishiyama K, Yabe I, Kaida K-I, Suzuki N, Nodera H, Tsuji S, Koike H, Kira J-I, Hanaoka H, Kusunoki S, Kuwabara S, JET-GBS Group. A prospective, multi-center, randomized phase II study to evaluate the efficacy and safety of eculizumab in patients with Guillain-Barré syndrome (GBS): Japanese Eculizumab Trial for GBS (JET-GBS). *JMIR Research Protocols* 2016; **5**(4): e210. DOI: [10.2196/resprot.6610](https://doi.org/10.2196/resprot.6610).
- 109 Nishi T, Kitahara H, Fujimoto Y, Nakayama T, Sugimoto K, Nagashima K, Hanaoka H, Kobayashi Y. Efficacy of intravenous nicorandil for fractional flow reserve assessment: Study protocol for a crossover randomised trial. *BMJ Open* 2016; **6**(11): e012737. DOI: [10.1136/bmjopen-2016-012737](https://doi.org/10.1136/bmjopen-2016-012737).
- 110 Misawa S, Sato Y, Katayama K, Nagashima K, Aoyagi R, Sekiguchi Y, Sobue G, Koike H, Yabe I, Sasaki H, Watanabe O, Takashima H, Nishizawa M, Kawachi I, Kusunoki S, Mitsui Y, Kikuchi S, Nakashima I, Ikeda S-i, Kohara N, Kanda T, Kira J-i, Hanaoka H, Kuwabara S, for the Japanese POEMS Syndrome for Thalidomide (J-POST) Trial Study Group. Safety and efficacy of thalidomide in patients with POEMS syndrome: a multicentre, randomised, double-blind, placebo-controlled trial. *The Lancet Neurology* 2016; **15**(11): 1129–1137. DOI: [10.1016/S1474-4422\(16\)30157-0](https://doi.org/10.1016/S1474-4422(16)30157-0).

- 111 Tada K, Kitano S, Shoji H, Nishimura T, Shimada Y, Nagashima K, Aoki K, Hiraoka N, Honma Y, Iwasa S, Okita N, Takashima A, Kato K, Yamada Y, Katayama N, Boku N, Heike Y, Hamaguchi T. Pretreatment immune status correlates with progression-free survival in chemotherapy-treated metastatic colorectal cancer patients. *Cancer Immunology Research* 2016; **4**(7): 592–599. DOI: [10.1158/2326-6066.CIR-15-0298](https://doi.org/10.1158/2326-6066.CIR-15-0298).
- 112 Sasaki Y, Akasu T, Saito N, Kojima H, Matsuda K, Nakamori S, Komori K, Amagai K, Yamaguchi T, Ohue M, Nagashima K, Yamada Y. Prognostic and predictive value of extended RAS mutation and mismatch repair status in stage III colorectal cancer. *Cancer Science* 2016; **107**(7):1006–1012. DOI: [10.1111/cas.12950](https://doi.org/10.1111/cas.12950).
- 113 Tanemura N, Uyama Y, Nagashima K, Suzuki T, Asahina Y, Kobayashi Y, Iyo M, Yokote K, Hanaoka H. Comparison of drug use between clinical practice and regulatory approval: results in older Japanese patients with rheumatoid arthritis, diabetes, high blood pressure, or depression. *Therapeutic Innovation & Regulatory Science* 2016; **50**(6): 743–750. DOI: [10.1177/2168479016648731](https://doi.org/10.1177/2168479016648731).
- 114 Yamaguchi T, Iwasa S, Nagashima K, Ikezawa N, Hamaguchi T, Shoji H, Honma Y, Takashima A, Okita N, Kato K, Yamada Y, Shimada Y. Comparison of panitumumab plus irinotecan and cetuximab plus irinotecan for KRAS wild-type metastatic colorectal cancer. *Anticancer Research* 2016; **36**(7): 3531–3536. URL: <http://ar.iiarjournals.org/content/36/7/3531>.
- 115 Fujita M, Sato Y, Nagashima K, Takahashi S, Hata A. Income related inequality of health care access in Japan: A retrospective cohort study. *PLoS ONE* 2016; **11**(3): e0151690. DOI: [10.1371/journal.pone.0151690](https://doi.org/10.1371/journal.pone.0151690).
- 116 Tawada A, Chiba T, Saito T, Ogasawara S, Suzuki E, Ooka Y, Arai M, Kanda T, Shinozaki M, Goto N, Nagashima K, Yokosuka O. Utility of prediction scores for hepatocellular carcinoma in patients with chronic hepatitis B treated with nucleos(t)ide analogues. *Oncology* 2016; **90**(4): 199–208. DOI: [10.1159/000444392](https://doi.org/10.1159/000444392).
- 117 Yamamoto Y, Yamaguchi S, Sasho T, Fukawa T, Akatsu Y, Nagashima K, Takahashi K. Quantitative ultrasound elastography with an acoustic coupler for achilles tendon elasticity: measurement repeatability and normative values. *Journal of Ultrasound in Medicine* 2016; **35**(1): 159–166. DOI: [10.7863/ultra.14.11042](https://doi.org/10.7863/ultra.14.11042).
- 118 Naito S, Tanaka J, Nagashima K, Chang B, Hishiki H, Takahashi Y, Oikawa J, Nagasawa K, Shimojo N, Ishiwada N. The impact of heptavalent pneumococcal conjugate vaccine on the incidence of childhood community-acquired pneumonia and bacteriologically confirmed pneumococcal pneumonia in Japan. *Epidemiology and Infection* 2016; **144**(3): 494–506. DOI: [10.1017/S0950268815001272](https://doi.org/10.1017/S0950268815001272).
- 119 Aoyagi R, Hamada H, Sato Y, Suzuki H, Onouchi Y, Ebata R, Nagashima K, Terauchi M, Terai M, Hanaoka H, Hata A, on behalf of the KAICA Trial investigators. Study protocol for a phase III multicentre, randomised, open-label, blinded-end point trial to evaluate the efficacy and safety of immunoglobulin plus cyclosporin A in patients with severe Kawasaki disease (KAICA Trial). *BMJ Open* 2015; **5**(12): e009562. DOI: [10.1136/bmjopen-2015-009562](https://doi.org/10.1136/bmjopen-2015-009562).
- 120 Fujita M, Sato Y, Nagashima K, Takahashi S, Hata A. Validity assessment of self-reported medication use by comparing to pharmacy insurance claims. *BMJ Open* 2015; **5**(11): e009490. DOI: [10.1136/bmjopen-2015-009490](https://doi.org/10.1136/bmjopen-2015-009490).
- 121 Iwasa S, Nagashima K, Yamaguchi T, Matsumoto H, Ichikawa Y, Goto A, Yasui H, Kato K, Okita N, Shimada Y, Yamada Y. S-1 and irinotecan with or without bevacizumab versus 5-fluorouracil and leucovorin plus oxaliplatin with or without bevacizumab in metastatic colorectal cancer: a pooled analysis of four phase II studies. *Cancer Chemotherapy and Pharmacology* 2015; **76**(3): 605–614. DOI: [10.1007/s00280-015-2834-4](https://doi.org/10.1007/s00280-015-2834-4).
- 122 Fujita M, Sato Y, Nagashima K, Takahashi S, Hata A. Predictive power of a body shape index for development of diabetes, hypertension, and dyslipidemia in Japanese adults: a retrospective cohort study. *PLoS ONE* 2015; **10**(6): e0128972. DOI: [10.1371/journal.pone.0128972](https://doi.org/10.1371/journal.pone.0128972).
- 123 Utsumi H, Honma Y, Nagashima K, Iwasa S, Takashima A, Kato K, Hamaguchi T, Yamada Y, Shimada Y, Kishi Y, Nara S, Esaki M, Shimada K. Bevacizumab and postoperative wound complications in patients with liver metastases of colorectal cancer. *Anticancer Research* 2015; **35**(4): 2255–2261. URL: <http://ar.iiarjournals.org/content/35/4/2255>.

- 124 Takahashi N, Yamada Y, Furuta K, Nagashima K, Kubo A, Sasaki Y, Shoji H, Honma Y, Iwasa S, Okita N, Takashima A, Kato K, Hamaguchi T, Shimada Y. Association between serum ligands and the skin toxicity of anti-epidermal growth factor receptor antibody in metastatic colorectal cancer. *Cancer Science* 2015; **106**(5): 604–610. DOI: [10.1111/cas.12642](https://doi.org/10.1111/cas.12642).
- 125 Nagashima K, Yanai T, Iwasa S, Ohyanagi F, Kasai T, Minato K, Sakai H, Sakamoto C, Takeda K, Harada D, Goto K, Yamamoto N. A double-blind randomized Phase II study of olanzapine 10 mg versus 5 mg for emesis induced by highly emetogenic chemotherapy. *Japanese Journal of Clinical Oncology* 2015; **75**(2): 229–231. DOI: [10.1093/jjco/hyu191](https://doi.org/10.1093/jjco/hyu191).
- 126 Shirakawa T, Kato K, Nagashima K, Nishikawa A, Sawada R, Takahashi N, Shoji H, Sasaki Y, Honma Y, Iwasa S, Takashima A, Okita N, Hamaguchi T, Yamada Y, Shimada Y. A retrospective study of docetaxel or paclitaxel in patients with advanced or recurrent esophageal squamous cell carcinoma who previously received fluoropyrimidine- and platinum-based chemotherapy. *Cancer Chemotherapy and Pharmacology* 2014; **74**(6): 1207–1215. DOI: [10.1007/s00280-014-2597-3](https://doi.org/10.1007/s00280-014-2597-3).
- 127 Shoji H, Yamada Y, Taniguchi H, Nagashima K, Okita N, Takashima S, Honma Y, Iwasa S, Kato K, Hamaguchi T, Shimada Y. Clinical impact of c-MET expression and genetic mutational status in colorectal cancer patients after liver resection. *Cancer Science* 2014; **105**(8): 1002–1007. DOI: [10.1111/cas.12453](https://doi.org/10.1111/cas.12453).
- 128 Iwasa S, Nakajima TE, Nagashima K, Honma Y, Kato K, Hamaguchi T, Yamada Y, Shimada Y. Lack of association of proteinuria and clinical outcome in patients treated with bevacizumab for metastatic colorectal cancer. *Anticancer Research* 2013; **33**(1): 309–316. URL: <http://ar.iijournals.org/content/33/1/309>.
- 129 Horita Y, Yamada Y, Kato K, Hirashima Y, Akiyoshi K, Nagashima K, Nakajima TE, Hamaguchi T, Shimada Y. Phase II clinical trial of second-line FOLFIRI plus bevacizumab for patients with metastatic colorectal cancer: AVASIRI trial. *International Journal of Clinical Oncology* 2012; **17**(6): 604–609. DOI: [10.1007/s10147-011-0331-2](https://doi.org/10.1007/s10147-011-0331-2).
- 130 Okita NT, Esaki T, Baba E, Sakai D, Tokunaga S, Takiuchi H, Mizunuma N, Nagashima K, Kato K. A multicenter phase II study of the stop-and-go modified FOLFOX6 with bevacizumab for first-line treatment of patients with metastatic colorectal cancer. *Investigational New Drugs* 2012; **30**(5): 2026–2031. DOI: [10.1007/s10637-011-9779-1](https://doi.org/10.1007/s10637-011-9779-1).
- 131 Fujie H, Niu K, Ohba M, Tomioka Y, Kitazawa H, Nagashima K, Ohru T, Numasaki M. A distinct regulatory role of Th17 cytokines IL-17A and IL-17F in chemokine secretion from lung microvascular endothelial cells. *Inflammation* 2012; **35**(3): 1119–1131. DOI: [10.1007/s10753-011-9419-0](https://doi.org/10.1007/s10753-011-9419-0).
- 132 Nakajima TE, Yoshida H, Okamoto N, Nagashima K, Taniguchi H, Yamada Y, Shimoda T, Masutomi K. Nucleostemin and TWIST as predictive markers for recurrence after neoadjuvant chemotherapy for esophageal carcinoma. *Cancer Science* 2012; **103**(2): 233–238. DOI: [10.1111/j.1349-7006.2011.02142.x](https://doi.org/10.1111/j.1349-7006.2011.02142.x).
- 133 Tanai C, Nakajima TE, Nagashima K, Kato K, Hamaguchi T, Yamada Y, Muro K, Shirao K, Kunitoh H, Matsumura Y, Yamamoto S, Shimada Y. Characteristics and outcomes of patients with advanced gastric cancer who declined to participate in a randomized clinical chemotherapy trial. *Journal of Oncology Practice* 2011; **7**(3): 148–153. DOI: [10.1200/JOP.2010.000106](https://doi.org/10.1200/JOP.2010.000106).
- 134 Hashimoto K, Takashima A, Nagashima K, Okazaki S, Nakajima TE, Kato K, Hamaguchi T, Yamada Y, Shimada Y. Progression-free survival in first-line chemotherapy is a prognostic factor in second-line chemotherapy in patients with advanced gastric cancer. *Journal of Cancer Research and Clinical Oncology* 2010; **136**(7): 1059–1064. DOI: [10.1007/s00432-009-0752-8](https://doi.org/10.1007/s00432-009-0752-8).

## Papers Under Review / Preprints

---

### STATISTICAL METHODOLOGY AND APPLICATIONS IN BIostatISTICS

- 1 Nagashima K, Noma H, Furukawa TA. pimeta: an R package of prediction intervals for random-effects meta-analysis. arXiv: [2110.07856](https://arxiv.org/abs/2110.07856).

## MEDICAL RESEARCHES

- 2 Katsumata Y, Muramoto Y, Ishida N, Takemura R, Nagashima K, Ikoma T, Kawamatsu N, Araki M, Goda A, Okawara H, Sawada T, Ichihara YK, Hattori O, Yamaoka K, Seki Y, Ryuzaki T, Ikura H, Nakashima D, Nagura T, Nakamura M, Sato K, Shiraishi Y. Sweat lactate sensor for detecting anaerobic threshold in heart failure: a prospective clinical trial (LacS-001). DOI: [10.1101/2023.08.15.23294144](https://doi.org/10.1101/2023.08.15.23294144).
- 3 Yuda S, Kato K, Sasaki Y, Takahashi N, Shoji H, Takashima A, Okita N, Honma Y, Iwasa S, Hamaguchi T, Nagashima K, Boku N. Risk factors for FN, mucositis and esophagitis of combination chemotherapy with docetaxel, cisplatin, and 5-fluorouracil for esophageal cancer. DOI: [10.21203/rs.3.rs-62898/v1](https://doi.org/10.21203/rs.3.rs-62898/v1).

## Funding History

---

### BIOSTATISTICS

#### **Statistical inference for random-effects meta-analyses under model misspecification (Grant number: 19K20229)**

*Principal Investigator*

JAPAN SOCIETY FOR THE PROMOTION OF SCIENCE (JSPS) KAKENHI, GRANT-IN-AID FOR YOUNG SCIENTISTS

*April 2019–March 2022*

#### **Developments of statistical inference, prediction, and modeling methods for network meta-analysis (Grant number: 19H04074)**

*Co-investigator*

JAPAN SOCIETY FOR THE PROMOTION OF SCIENCE (JSPS) KAKENHI, GRANT-IN-AID FOR SCIENTIFIC RESEARCH (B)

*April 2019–March 2020*

#### **Statistical inference for rare event data and its application in clinical researches (Grant number: 16K16014)**

*Principal Investigator*

JAPAN SOCIETY FOR THE PROMOTION OF SCIENCE (JSPS) KAKENHI, GRANT-IN-AID FOR YOUNG SCIENTISTS (B)

*April 2016–March 2019*

### MEDICAL RESEARCH

#### **Research to promote public awareness for supporting women's physical and mental health toward improving the healthy life expectancy**

*Co-investigator*

THE MINISTRY OF HEALTH LABOUR AND WELFARE, HEALTH LABOUR SCIENCES RESEARCH GRANT.

*April 2023–March 2027*

#### **Development of early detection biomarkers for gastroenterological cancer by antibody-based comprehensive screening**

*Co-investigator*

JAPAN AGENCY FOR MEDICAL RESEARCH AND DEVELOPMENT, PROJECT FOR PROMOTION OF CANCER RESEARCH AND THERAPEUTIC EVOLUTION (P-PROMOTE).

*April 2022–March 2024*

#### **Clinical development of a diagnostic method for early-stage pancreatic cancer and risk factors for pancreatic cancer malignancy using a blood biomarker to evaluate a pancreatic exocrine function**

*Co-investigator*

JAPAN AGENCY FOR MEDICAL RESEARCH AND DEVELOPMENT, PRACTICAL RESEARCH FOR INNOVATIVE CANCER CONTROL.

*April 2021–March 2026*

#### **Study for clinical development of precision medicine for esophageal cancer**

*Co-investigator*

JAPAN AGENCY FOR MEDICAL RESEARCH AND DEVELOPMENT, PROJECT FOR CANCER RESEARCH AND THERAPEUTIC EVOLUTION (P-CREATE)

*April 2021–March 2025*

**Health literacy improvement of cervical cancer prevention using information and communications technology (Grant number: 19K22737)**

JAPAN SOCIETY FOR THE PROMOTION OF SCIENCE (JSPS) KAKENHI, CHALLENGING RESEARCH (EXPLORATORY)

*Co-investigator*

*July 2019–March 2022*

**Practical application of efficient pancreatic cancer screening with plasma biomarker**

JAPAN AGENCY FOR MEDICAL RESEARCH AND DEVELOPMENT, PRACTICAL RESEARCH FOR INNOVATIVE CANCER CONTROL

*Co-investigator*

*December 2018–March 2020*

**Practical research of blood biomarkers for predicting effects of postoperative adjuvant chemotherapies by metastatic activity analysis of non-small cell lung cancer**

JAPAN AGENCY FOR MEDICAL RESEARCH AND DEVELOPMENT, PRACTICAL RESEARCH FOR INNOVATIVE CANCER CONTROL

*Co-investigator*

*April 2017–March 2020*

**Developing an early-detection and risk-stratification biomarkers for cancer by analyzing post-translational modifications to proteins and peptides**

JAPAN AGENCY FOR MEDICAL RESEARCH AND DEVELOPMENT, PROJECT FOR CANCER RESEARCH AND THERAPEUTIC EVOLUTION (P-CREATE)

*Co-investigator*

*April 2017–March 2022*

**Evaluation study for efficacy and safety of drug therapy based on sex differences**

JAPAN AGENCY FOR MEDICAL RESEARCH AND DEVELOPMENT, PROJECT FOR WHOLE IMPLEMENTATION TO SUPPORT AND ENSURE THE FEMALE LIFE—WISE

*Co-investigator*

*November 2016–March 2019*

**Development of efficient screening method for early detection and risk stratification of pancreatic cancer**

JAPAN AGENCY FOR MEDICAL RESEARCH AND DEVELOPMENT, PRACTICAL RESEARCH FOR INNOVATIVE CANCER CONTROL

*Co-investigator*

*September 2016–March 2017*

## Teaching History

---

**Biostatistics and medical informatics**

SCHOOL OF MEDICINE, KEIO UNIVERSITY

*2022–present*

**Public Health II**

SCHOOL OF MEDICINE, KEIO UNIVERSITY

*2022–present*

**Biostatistics**

GRADUATE SCHOOL OF MEDICINE, KEIO UNIVERSITY

*2021–present*

**Design and analysis of clinical trials**

GRADUATE SCHOOL OF HEALTH MANAGEMENT, KEIO UNIVERSITY

*2019–present*

**Linear statistical inference**

GRADUATE SCHOOL OF ENGINEERING, TOKYO UNIVERSITY OF SCIENCE

*2016–present*

## Introduction of clinical research

GRADUATE SCHOOL OF MEDICAL AND PHARMACEUTICAL SCIENCES, CHIBA UNIVERSITY

2014

## Principles of biostatistics

GRADUATE SCHOOL OF MEDICAL AND PHARMACEUTICAL SCIENCES, CHIBA UNIVERSITY

2010–2018

# Professional Activities

---

## PROFESSIONAL AFFILIATIONS

### American Statistical Association

MEMBER

2011–present

### The International Biometric Society

MEMBER

2008–present

## JOURNAL REVIEWER

### Statistics Journal

Statistics in Medicine  
Statistical Methods in Medical Research  
Journal of the Royal Statistical Society: Series C (Applied Statistics)  
Biometrical Journal  
Research Synthesis Methods  
Annals of the Institute of Statistical Mathematics  
Statistics in Biopharmaceutical Research  
Biostatistics & Epidemiology  
Entropy  
Distributed Ledger Technologies  
Journal of Statistical Computation and Simulation  
Statistical Applications in Genetics and Molecular Biology  
Japanese Journal of Statistics and Data Science  
BMC Bioinformatics  
Behaviormetrika  
Stats  
Mathematics



**Medical Journal** Nature Communications  
 European Journal of Epidemiology  
 Cancer Science  
 Esophagus  
 Diabetes, Obesity and Metabolism  
 Expert Review of Respiratory Medicine  
 Epidemiology and Infection  
 Sleep Medicine  
 Trials  
 PLoS ONE  
 BMJ Open  
 Nanomedicine  
 Cancer Biomarkers  
 Asia-Pacific Journal of Clinical Oncology  
 Journal of Clinical Pharmacy and Therapeutics  
 International Journal of Environmental Research and Public Health

## Softwares

---

<b>RevGadgets Package</b>	<i>Contributor</i>
R PACKAGE: VISUALIZATION AND POST-PROCESSING OF REV BAYES ANALYSES	2021
<a href="https://cran.r-project.org/package=RevGadgets">https://cran.r-project.org/package=RevGadgets</a>	
<b>%stabcox</b>	<i>Creator</i>
SAS MACRO: A STANDARD SAS MACRO COLLECTION FOR COX REGRESSION	2019
<a href="https://nshi.jp/contents/sas/stab">https://nshi.jp/contents/sas/stab</a> (in Japanese)	
<b>%stab</b>	<i>Creator</i>
SAS MACRO: A STANDARD SAS MACRO COLLECTION FOR TABLE 1	2018
<a href="https://nshi.jp/contents/sas/stab">https://nshi.jp/contents/sas/stab</a> (in Japanese)	
<b>pimeta Package</b>	<i>Creator</i>
R PACKAGE: PREDICTION INTERVAL FOR RANDOM-EFFECTS META-ANALYSIS; CRAN TASK VIEW: METAANALYSIS	2017
<a href="https://cran.r-project.org/package=pimeta">https://cran.r-project.org/package=pimeta</a>	
<b>ph2bayes Package</b>	<i>Creator</i>
R PACKAGE: BAYESIAN SINGLE-ARM PHASE II DESIGNS; CRAN TASK VIEW: EXPERIMENTALDESIGN	2016
<a href="https://cran.r-project.org/package=ph2bayes">https://cran.r-project.org/package=ph2bayes</a>	
<b>%skmdata</b>	<i>Creator</i>
SAS MACRO: A SAS MACRO FOR THE KAPLAN-MEIER PLOT WITH SG PLOT PROCEDURE	2015
<a href="https://github.com/nshi-stat/skmdata">https://github.com/nshi-stat/skmdata</a>	
<b>RcmdrPlugin.KMggplot2 Package</b>	<i>Creator</i>
R PACKAGE: GG PLOT2 GUI FRONTEND, R COMMANDER PLUG-IN FOR DATA VISUALIZATION WITH 'GG PLOT2'	2012
<a href="https://cran.r-project.org/package=RcmdrPlugin.KMggplot2">https://cran.r-project.org/package=RcmdrPlugin.KMggplot2</a>	
<b>mmcm Package</b>	<i>Creator</i>
R PACKAGE: MODIFIED MAXIMUM CONTRAST METHOD (NAGASHIMA K, ET AL. SAGMB 2011)	2009
<a href="https://cran.r-project.org/package=mmcm">https://cran.r-project.org/package=mmcm</a>	