

## Curriculum Vitae

Hisashi Noma  
Professor of Biostatistics  
The Institute of Statistical Mathematics

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### ■ Contact Information

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### ■ Professional Positions

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|---------------------|---------------------------------------------------------------------------------------------------------------------------------|
| Mar. 2024–Present   | Professor<br>Department of Interdisciplinary Statistical Mathematics, The<br>Institute of Statistical Mathematics, Tokyo, Japan |
| Apr. 2023–Present   | Professor<br>The Graduate Institute for Advanced Studies, The Graduate<br>University for Advanced Studies, Tokyo, Japan         |
| Apr. 2023–Feb. 2024 | Professor<br>Department of Data Science, The Institute of Statistical<br>Mathematics, Tokyo, Japan                              |
| Feb. 2016–Present   | Education & Research Adviser<br>Tottori University Hospital, Tottori, Japan                                                     |
| Apr. 2016–Mar. 2023 | Associate Professor<br>Department of Data Science, The Institute of Statistical<br>Mathematics, Tokyo, Japan                    |

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| Apr. 2016–Mar. 2023 | Associate Professor<br>Department of Statistical Science, The Graduate University for<br>Advanced Studies, Tokyo, Japan                                    |
| Apr. 2012–Mar. 2016 | Assistant Professor<br>Department of Data Science, The Institute of Statistical<br>Mathematics, Tokyo, Japan                                               |
| Apr. 2012–Mar. 2016 | Assistant Professor<br>Department of Statistical Science, The Graduate University for<br>Advanced Studies, Tokyo, Japan                                    |
| Dec. 2011–Mar. 2012 | Postdoctoral Researcher (Japan Society for Promotion of Science)<br>Department of Biostatistics, Kyoto University School of Public<br>Health, Kyoto, Japan |

## ■ Degrees

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|-----------|------------------------------------------------------------------------------------|
| Nov. 2011 | Dr.P.H. in Biostatistics<br>Kyoto University School of Public Health, Kyoto, Japan |
| Mar. 2008 | M.P.H. in Biostatistics<br>Kyoto University School of Public Health, Kyoto, Japan  |

## ■ Publication

### Original Articles

1. Akechi, T., Furukawa, T. A., Noma, H., Iwata, H., Toyama, T., Higaki, K., Matsuoka, H., Zenda, S., Iwatani, T., Akahane, K., Inoue, A., Sagara, Y., Uchida, M., Imai, F., Momino, K., Imaizumi, G., Yamaguchi, T., Mashiko, T., Miyaji, T., Horikoshi, M., Sakurai, N., Onishi, T., Kanemitsu, Y., Murata, T., Wanifuchi-Endo, Y., Kuroda, H., Nishikawa, R., Miyashita, M., Abe, M., Uchitomi, Y., and J-SUPPORT 2001 Study Group. (2024). Optimizing smartphone psychotherapy for depressive symptoms in patients with cancer: Multiphase optimization strategy using a decentralized multicenter randomized clinical trial (J-SUPPORT 2001 Study). *Psychiatry and Clinical Neurosciences*, DOI: 10.1111/pcn.13657.

2. Fukuda, T., Matsuura, N., Noma, H., and Mihara, T. (2024). Comparative effects of behaviour change techniques using ehealth and mhealth in promoting dietary behaviour: Protocol for a systematic review and component network meta-analysis. *BMJ Open* **14**, e084774.
3. Goshio, M., Ishii, R., Nagashima, K., Noma, H., Maruo, K. (2024). Determining the prior mean in Bayesian logistic regression with sparse data: a nonarbitrary approach. *Journal of the Royal Statistical Society, Series C*. DOI: 10.1093/jrssc/qlae048.
4. Liabsuetrakul, T., Yamamoto, Y., Kongkamol, C., Ota, E., Mori, R., and Noma, H. (2024). Maternal-neonatal events resulting from medications for preventing hypertensive disorders in high-risk pregnant women: A systematic review and network meta-analysis. *International Journal of Gynecology & Obstetrics* **164**, 19-32.
5. Maeda, M., Sunaga, T., Sato, M. T., Hasegawa, T., Noma, H., and Ota, E. (2024). Efficacy of carbapenems and alternative antimicrobials for treating complicated urinary tract infections caused by third-generation cephalosporin-resistant gram-negative bacteria: A systematic review and meta-analysis of randomised controlled trials. *Journal of Infection and Chemotherapy*. DOI: 10.1016/j.jiac.2024.05.001.
6. Matsumoto, K., Imagawa, A., Ueda, N., Watabe, H., Ikebuchi, Y., Kurumi, H., Sasaki, Y. U., Abe, Y., Abe, R., Mabe, K., Noma, H., Fujiwara, K., Ueki, M., Fujishiro, M., and Isomoto, H. (2024). Acceptability, safety, and feasibility of transnasal and peroral ultrathin endoscopy using GAGLESS mouthpieces: A prospective randomized trial. *In Vivo* **38**, 826-832.
7. Matsumoto, K., Noma, H., Fujita, K., Tomoda, T., Onoyama, T., Hanada, K., Okazaki, A., Hirao, K., Goto, D., Moriyama, I., Kushiyama, Y., Takenaka, M., Maruo, T., Matsumoto, H., Asada, M., Nebiki, H., Katayama, T., Kawamura, T., Kurita, A., Ueki, T., Tujimae, M., Matsubara, T., Yamada, S., Tamura, T., Marui, S., Mitoro, A., Isomoto, H., Yazumi, S., and Kawamoto, H. (2024). Prognostic factors for severe-to-fatal post-endoscopic retrograde cholangiopancreatography pancreatitis: A multicenter prospective cohort study. *Journal of Clinical Medicine* **13**, 1135.
8. Morizane, S., Nakane, K., Tanaka, T., Zennami, K., Muraoka, K., Ebara, S., Miura, N., Uemura, K., Sobu, R., Hoshi, A., Taoka, R., Sugimoto, M., Noma, H., Sunada, H., Nishiyama, H., Habuchi, T., Ikeda, I., Saika, T., Makiyama, K., Shiroki, R., Masumori, N., Koie, T., and Takenaka, A. (2024). Comparison of perioperative outcomes and complications between intracorporeal, extracorporeal, and hybrid ileal conduit urinary

- diversion during robot-assisted radical cystectomy: A comparative propensity score-matched analysis from nationwide multi-institutional study in Japan. *International Journal of Clinical Oncology* **29**, 64-71.
9. Mukuda, K., Inoue, R., Takata, M., Takazawa, K., Noma, H., Morishima, S., Oda, M., Ma'arif, A. S., Endo, Y., Sunada, H., Doi, A., Matsuda, R., Nishikawa, Y., Okada, K., Kitaura, T., Nakamoto, M., Yamasaki, A., and Chikumi, H. (2024). Temporal effects of lascufloxacin on human gut and salivary microbiota: Analysis using next-generation sequencing method. *Journal of Infection and Chemotherapy*, DOI: 10.1016/j.jiac.2024.07.023.
  10. Murashima, M., Yamamoto, R., Kanda, E., Kurita, N., Noma, H., Hamano, T., and Fukagawa, M. (2024). Associations of vitamin D receptor activators and calcimimetics with falls and effect modifications by physical activity: A prospective cohort study on the Japan Dialysis Outcomes and Practice Patterns Study. *Therapeutic Apheresis and Dialysis*, DOI: 10.1111/1744-9987.14122.
  11. Nakagami, Y., Uwatoko, T., Shimamoto, T., Sakata, M., Toyomoto, R., Yoshida, K., Luo, Y., Shiraishi, N., Tajika, A., Sahker, E., Horikoshi, M., Noma, H., Iwami, T., and Furukawa, T. A. (2024). Long-term effects of internet-based cognitive behavioral therapy on depression prevention among university students: Randomized controlled factorial trial. *JMIR Mental Health* **11**, e56691.
  12. Nishiwaki, H., Abe, Y., Suzuki, T., Hasegawa, T., Levack, W. M., Noma, H., and Ota, E. (2024). Erythropoiesis-stimulating agents for preventing acute kidney injury. *Cochrane Database of Systematic Review* **9**, CD014820.
  13. Noma, H. (2024). Bayesian estimation and prediction for network meta-analysis with contrast-based approach. *International Journal of Biostatistics*, DOI: 10.1515/ijb-2022-0121.
  14. Noma, H. (2024). Variance estimation for logistic regression in case-cohort studies. *Journal of Epidemiology* **34**, 38-40.
  15. Noma, H. (2024). Sidesplitting using network meta-regression. *Japanese Journal of Biometrics* **44**, 107-118.
  16. Noma, H., Sugasawa, S., and Furukawa, T. A. (2024). Robust inference methods for meta-analysis involving influential outlying studies. *Statistics in Medicine* **43**, 3778-3791.
  17. Okabayashi, S., Kitazawa, K., Noma, H., Takahashi, Y., Iwami, T., Kawamura, T., and

- Nakayama, T. (2024). Effectiveness of e-learning material on essential components of evidence-based medicine among laypersons: A randomized controlled trial. *Health Education Research* **39**, 466-474.
18. Omura, S., Kida, T., Noma, H., Inoue, H., Sofue, H., Sakashita, A., Kadoya, M., Nakagomi, D., Abe, Y., Takizawa, N., Nomura, A., Kukida, Y., Kondo, N., Yamano, Y., Yanagida, T., Endo, K., Hirata, S., Matsui, K., Takeuchi, T., Ichinose, K., Kato, M., Yanai, R., Matsuo, Y., Shimojima, Y., Nishioka, R., Okazaki, R., Takata, T., Ito, T., Moriyama, M., Takatani, A., Miyawaki, Y., Ito-Ihara, T., Yajima, N., Kawaguchi, T., Hirano, A., Fujioka, K., Fujii, W., Seno, T., Wada, M., Kohno, M., and Kawahito, Y. (2024). Effectiveness of intravenous methylprednisolone pulse in patients with severe microscopic polyangiitis and granulomatosis with polyangiitis. *Rheumatology*. doi: 10.1093/rheumatology/keae219.
19. Sakurai, H., Noma, H., Watanabe, K., Uchida, H. and Furukawa, T. A. (2024). Cumulative remission rate after sequential treatments in depression: reappraisal of the STAR\*D trial data. *World Psychiatry* **23**, 156-157.
20. Shiraishi, N., Sakata, M., Toyomoto, R., Yoshida, K., Luo, Y., Nakagami, Y., Tajika, A., Suga, H., Ito, H., Sumi, M., Muto, T., Ichikawa, H., Ikegawa, M., Watanabe, T., Sahker, E., Uwatoko, T., Noma, H., Horikoshi, M., Iwami, T., and Furukawa, T. A. (2024). Three types of university students with subthreshold depression characterized by distinctive cognitive behavioral skills. *Cognitive Behavior Therapy*, doi: 10.1080/16506073.2023.2288557.
21. Sunaga, T., Maeda, M., Saulle, R., Ng, S. M., Sato, M. T., Hasegawa, T., Mason, A. N., Noma, H., and Ota, E. (2024). Anti-vascular endothelial growth factor biosimilars for neovascular age-related macular degeneration. *Cochrane Database of Systematic Reviews* **6**, CD015804.
22. Tabuchi, R., Momozawa, Y., Hayashi, Y., Noma, H., Ichijo, H., and Fujisawa, T. (2024). Sodcod: A comprehensive database of cu/zn superoxide dismutase conformational diversity caused by als-linked gene mutations and other perturbations. *Database (Oxford)* **2024**, 0.
23. Ueno, Y., Oda, M., Yamaguchi, T., Fukuoka, H., Nejima, R., Kitaguchi, Y., Miyake, M., Akiyama, M., Miyata, K., Kashiwagi, K., Maeda, N., Shimazaki, J., Noma, H., Mori, K., and Oshika, T. (2024). Deep learning model for extensive smartphone-based diagnosis and triage of cataracts and multiple corneal diseases. *British Journal of*

- Ophthalmology*, doi: 10.1136/bjo-2023-324488.
24. Uno, S., Noma, H., and Gosho, M. (2024). Firth-type penalized methods of the modified poisson and least-squares regression analyses for binary outcomes. *Biometrical Journal* **66**, e202400004.
  25. Yasukawa, S., Tanaka, T., Yamane, K., Kano, R., Sakata, M., Noma, H., Furukawa, T. A., and Kishimoto, T. (2024). A chatbot to improve adherence to internet-based cognitive-behavioural therapy among workers with subthreshold depression: A randomised controlled trial. *BMJ Mental Health* **27**, e300881.
  26. Yunaga, H., Miyoshi, H., Ochiai, R., Gonda, T., Sakoh, T., Noma, H., and Fujii, S. (2024). Image quality and lesion detection of multiplanar reconstruction images using deep learning: Comparison with hybrid iterative reconstruction. *Yonago Acta Medica* **67**, 100-107.
  27. Wada, T., Tanishima, S., Kitsuda, Y., Osaki, M., Takeda, C., Noma, H., Nagashima, H., and Hagino, H. (2024). Association between phase angle and clinical outcomes in patients with lumbar spinal stenosis from the preoperative to 12-month postoperative period: A prospective observational study. *Journal of Clinical Neuroscience* **123**, 41-46.
  28. Arai, Y., Okanishi, T., Kanai, S., Nakamura, Y., Sunada, H., Murakami, H., Yamauchi, K., Noma, H., and Maegaki, Y. (2023). Prediction model for long-term seizure and developmental outcomes among children with infantile epileptic spasms syndrome. *Frontiers in Neurology* **14**, 1195252.
  29. Arai, Y., Okanishi, T., Kanai, S., Ohta, K., Sunada, H., Noma, H., and Maegaki, Y. (2023). Identifying risk factors for adverse events of pyridoxal phosphate in infantile epileptic spasms syndrome. *Epilepsy & Behavior* **145**, 109348.
  30. Arai, Y., Okanishi, T., Noma, H., Kanai, S., Kawaguchi, T., Sunada, H., Fujimoto, A., and Maegaki, Y. (2023). Prognostic factors for employment outcomes in patients with a history of childhood-onset drug-resistant epilepsy. *Frontiers in Pediatrics* **11**, 1173126.
  31. Furukawa, T. A., Tajika, A., Sakata, M., Luo, Y., Toyomoto, R., Horikoshi, M., Akechi, T., Kawakami, N., Nakayama, T., Kondo, N., Fukuma, S., Noma, H., Christensen, H., Kessler, R. C., Cuijpers, P. and Wason, J. M. S. (2023). Four 2×2 factorial trials of smartphone CBT to reduce subthreshold depression and to prevent new depressive episodes among adults in the community-RESiLIENT trial (Resilience Enhancement with Smartphone in LIVING ENvironmentTs): a master protocol. *BMJ Open* **13**,

e067850.

32. Goshu, M., Ishii, R., Noma, H., and Maruo, K. (2023). A comparison of bias-adjusted generalized estimating equations for sparse binary data in small-sample longitudinal studies. *Statistics in Medicine* **42**, 2711-2727.
33. Hanaki, T., Goto, K., Tokuyasu, N., Endo, Y., Sunada, H., Noma, H., Sunaguchi, T., Murakami, Y., Matsunaga, T., Yamamoto, M., Sakamoto, T., Hasegawa, T., and Fujiwara, Y. (2023). Efficacy of indocyanine green systemic administration for bile leak detection after hepatectomy: A protocol for a prospective single-arm clinical trial with a historical control group. *BMJ Open* **13**, e068223.
34. Honda, A., Okada, Y., Matsushita, T., Hasegawa, T., Ota, E., Noma, H., Imai, T., and Kwong, J. (2024). Efficacy of biological agents combined with oral immunotherapy (oit) for food allergy: A protocol for a systematic review and meta-analysis. *BMJ Open* **14**, e075253.
35. Koda, H., Matsumoto, K., Kawata, S., Takeda, Y., Onoyama, T., Seki, Y., Sakamoto, Y., Shimosaka, T., Hamamoto, W., Yamashita, T., Kurumi, H., Yamaguchi, N., Noma, H., and Isomoto, H. (2023). Comparison between target sample check illuminator and white light observation in discriminating the presence of target specimen for endoscopic ultrasound-guided fine needle aspiration sample. *Journal of Clinical Medicine* **12**, 2139.
36. Komatsu, H., Sunada, H., Endo, Y., Noma, H., Taniguchi, F., and Harada, T. (2023). Evaluation of the characteristics of ovarian endometrioma in patients with endometriosis: Efficacy of a low-dose estrogen/progestogen combination. *Gynecol Gynecologic and Obstetric Investigation* **88**, 375-383.
37. Kondo, Y., Abe, S., Toko, H., Hirota, T., Takahashi, H., Shimizu, M., Noma, H., Tsuboi, H., Matsumoto, I., Inabak, T. and Sumida, T. (2023). Effect of climatic environment on immunological features of rheumatoid arthritis. *Scientific Reports* **13**, 1304.
38. Kondo, Y., Mihara, T., Nakamura, E., Noma, H., Shimizu, S., and Goto, T. (2023). Predictive ability of pulse oximetry-derived indices for hypotension after spinal anaesthesia for caesarean section: Protocol for a systematic review and meta-analysis. *BMJ Open* **13**, e069309.
39. Maeda, M., Hasegawa, T., Noma, H., and Ota, E. (2023). Efficacy of carbapenems versus alternative antimicrobials for treating complicated urinary tract infections caused by antimicrobial-resistant gram-negative bacteria: Protocol for a systematic

- review and meta-analysis. *BMJ Open* **13**, e069166.
40. Noma, H., Hamura, Y., Goshio, M., and Furukawa, T. A. (2023). Kenward-Roger-type corrections for inference methods of network meta-analysis and meta-regression. *Research Synthesis Methods* **14**, 731-741.
  41. Noma, H., Hamura, Y., Sugawara, S., and Furukawa, T. A. (2023). Improved methods to construct prediction intervals for network meta-analysis. *Research Synthesis Methods* **14**, 794-806.
  42. Noma, H., Misumi, M., and Tanaka, S. (2023). Risk ratio and risk difference estimation in case-cohort studies. *Journal of Epidemiology* **33**, 508-513.
  43. Omura, S., Kida, T., Noma, H., Sunaga, A., Kusuoka, H., Kadoya, M., Nakagomi, D., Abe, Y., Takizawa, N., Nomura, A., Kukida, Y., Kondo, N., Yamano, Y., Yanagida, T., Endo, K., Hirata, S., Matsui, K., Takeuchi, T., Ichinose, K., Kato, M., Yanai, R., Matsuo, Y., Shimojima, Y., Nishioka, R., Okazaki, R., Takata, T., Ito, T., Moriyama, M., Takatani, A., Miyawaki, Y., Ito-Ihara, T., Yajima, N., Kawaguchi, T., Fukuda, W., and Kawahito, Y. (2023). Association between hypogammaglobulinaemia and severe infections during induction therapy in anca-associated vasculitis: From J-CANVAS study. *Rheumatology* **62**, 3924-3931.
  44. Sakaguchi, H., Umeda, K., Kato, I., Sakaguchi, K., Hiramatsu, H., Ishida, H., Yabe, H., Goto, H., Kawahara, Y., Yamashita, Y. I., Sanada, M., Deguchi, T., Takahashi, Y., Saito, A., Noma, H., Horibe, K., Taga, T., Adachi, S., Transplantation, and Cellular Therapy Committee of Japanese Childhood Cancer, G. (2023). Safety and efficacy of post-haematopoietic cell transplantation maintenance therapy with blinatumomab for relapsed/refractory cd19-positive b-cell acute lymphoblastic leukaemia: Protocol for a phase i-ii, multicentre, non-blinded, non-controlled trial (jplsg sct-all-blin21). *BMJ Open* **13**, e070051.
  45. Sato, M. T., Hasegawa, T., Noma, H., Sugita, H., and Ota, E. (2023). Efficacy and safety of drug therapy for the prevention and treatment of chemotherapy-induced peripheral neuropathy: A protocol for a systematic review and network meta-analysis. *BMJ Open* **13**, e070645.
  46. Setkowski, K., Palantza, C., van Ballegooijen, W., Gilissen, R., Oud, M., Cristea, I. A., Noma, H., Furukawa, T. A., Arntz, A., van Balkom, A., and Cuijpers, P. (2023). Which psychotherapy is most effective and acceptable in the treatment of adults with a (sub)clinical borderline personality disorder? A systematic review and network

- meta-analysis. *Psychological Medicine* **53**, 3261-3280.
47. Suzuki, T., Nishiwaki, H., Watanabe, Y., Abe, Y., Noma, H., Ota, E., Honda, H., and Hasegawa, T. (2023). Outcomes of discontinuing renin-angiotensin system inhibitors: A study protocol for conducting systematic review and meta-analysis. *BMJ Open* **13**, e070345.
48. Tanaka, A., Sasaki, S., Noma, H., Wang, J., Onishi, Y., and Inaguma, D. (2023). Effects of iron-based phosphate binders on mortality and cardiovascular events in patients receiving maintenance dialysis. *Scientific Report* **13**, 16051.
49. Tashiro, N., Hasegawa, T., Nishiwaki, H., Ikeda, T., Noma, H., Levack, W., and Ota, E. (2023). Clinical utility of diaphragmatic ultrasonography for mechanical ventilator weaning in adults: A study protocol for systematic review and meta-analysis. *Health Science Reports* **6**, e1378.
50. Toyomoto, R., Sakata, M., Yoshida, K., Luo, Y., Nakagami, Y., Uwatoko, T., Shimamoto, T., Sahker, E., Tajika, A., Suga, H., Ito, H., Sumi, M., Muto, T., Ito, M., Ichikawa, H., Ikegawa, M., Shiraishi, N., Watanabe, T., Watkins, E. R., Noma, H., Horikoshi, M., Iwami, T., Furukawa, T. A. (2023). Prognostic factors and effect modifiers for personalisation of internet-based cognitive behavioural therapy among university students with subthreshold depression: A secondary analysis of a factorial trial. *Journal of Affective Disorders* **322**, 156-162.
51. Uchida, M., Furukawa, T. A., Yamaguchi, T., Imai, F., Momino, K., Katsuki, F., Sakurai, N., Miyaji, T., Horikoshi, M., Iwata, H., Zenda, S., Iwatani, T., Ogawa, A., Inoue, A., Abe, M., Toyama, T., Uchitomi, Y., Matsuoka, H., Noma, H., and Akechi, T. (2023). Optimization of smartphone psychotherapy for depression and anxiety among patients with cancer using the multiphase optimization strategy (most) framework and decentralized clinical trial system (smartphone intervention to lessen depression/anxiety and gain resilience: Smile again project): A protocol for a randomized controlled trial. *Trials* **24**, 344.
52. Yoshida, T., Yoshida, T., Noma, H., Nomura, T., Suzuki, A., and Mihara, T. (2023). Diagnostic accuracy of point-of-care ultrasound for shock: A systematic review and meta-analysis. *Critical Care* **27**, 200.
53. Cuijpers, P., Karyotaki, E., Ciharova, M., Miguel, C., Noma, H., Stikkelbroek, Y., Weisz, J. R., Furukawa, T. A. (2022). The effects of psychological treatments of depression in children and adolescents on response, reliable change, and deterioration:

- a systematic review and meta-analysis. *European Child & Adolescent Psychiatry* **32**, 177-192.
54. Hasegawa, T., Noma, H., Hamano, T., Abe, M., Wada, A., Honda, H., Ito, Y., Masakane, I., Nitta, K. (2022). Association between the use of exchange devices for peritoneal dialysis fluids and peritonitis incidence: A nationwide cohort study. *Peritoneal Dialysis International* **42**, 177-184.
55. Koide, Y., Kataoka, Y., Hasegawa, T., Ota, E., and Noma, H. (2022). Effect of systemic bisphosphonate administration on patients with periodontal disease: a systematic review and meta-analysis protocol. *BMJ Open* **12**, e057768.
56. Liabsuetrakul, T., Yamamoto, Y., Kongkamol, C., Ota, E., Mori, R., and Noma, H. (2022). Medications for preventing hypertensive disorders in high-risk pregnant women: a systematic review and network meta-analysis. *Systematic Reviews* **11**, 135.
57. Luo, Y., Funada, S., Yoshida, K., Noma, H., Sahker, E., and Furukawa, T. A. (2022). Large variation existed in standardized mean difference estimates using different calculation methods in clinical trials. *Journal of Clinical Epidemiology* **149**, 89-97.
58. Matsumoto, K., Kushiya, Y., Izumi, A., Onishi, K., Miura, M., Ohuchi, Y., Hori, I., Nakamura, T., Hori, K., Koshino, K., Kobayashi, J., Yoshino, N., Hoshino, U., Okumura, T., Tanimura, T., Tanaka, S., Tanaka, S., Nabika, T., Nozu, T., Wakatasuki, Y., Katayama, S., Yoshioka, S., Ito, K., Uchida, A., Yuhara, N., Noma, H. and Isomoto, H. (2022). Usefulness of practitioner-led pancreatic cancer screening. *Diagnostics (Basel)* **12**, 2257.
59. Matsushita, T., Honda, A., Hasegawa, T., Inoue, E., Noma, H., and Ota, E. (2022). Regular weighing to prevent excessive gestational weight gain: a study protocol for a systematic review and meta-analysis. *Systematic Reviews* **11**, 104.
60. Nishisako, S., Yamaguchi, T., Hirayama, M., Higa, K., Aoki, D., Sasaki, C., Noma, H., Shimazaki, J. (2022). Donor-related risk factors for graft decompensation following descemet's stripping automated endothelial keratoplasty. *Frontiers in Medicine* **9**, 810536.
61. Noma, H., Nagashima, K., Kato, S., Teramukai, S. and Furukawa, T. A. (2022). Meta-analysis using flexible random-effects distribution models. *Journal of Epidemiology* **32**, 441-448.
62. Sada, K., Kurita, N., Noma, H., Matsuki, T., Quasny, H., Levy, R. A., Jones-Leone, A. R., Gairy, K., and Yajima, N. (2022). Moonlight study: The design of a comparative

- study of the effectiveness of belimumab in patients with a history of lupus nephritis from the post-marketed effectiveness of belimumab cohort and japan lupus nationwide registry (luna) cohort. *Lupus Science & Medicine* **9**, e000746.
63. Sakata, M., Toyomoto, R., Yoshida, K., Luo, Y., Nakagami, Y., Uwatoko, T., Shimamoto, T., Tajika, A., Suga, H., Ito, H., Sumi, M., Muto, T., Ito, M., Ichikawa, H., Ikegawa, M., Shiraishi, N., Watanabe, T., Sahker, E., Ogawa, Y., Hollon, S. D., Collins, L. M., Watkins, E. R., Wason, J., Noma, H., Horikoshi, M., Iwami, T. and Furukawa, T. A. (2022). Components of smartphone cognitive-behavioural therapy for subthreshold depression among 1093 university students: a factorial trial. *BMJ Mental Health (Evidence-Based Mental Health)* **25**, e18-e25.
64. Sugasawa, S., and Noma, H. (2022). Efficient testing and effect size estimation for set-based genetic association inference via semiparametric multilevel mixture modeling. *Biometrical Journal* **64**, 1142-1152.
65. Sugimoto, T., Noma, H., Kuroda, Y., Matsumoto, N., Uchida, K., Kishino, Y., Saji, N., Niida, S. and Sakurai, T. (2022). Time trends (2012-2020) in glycated hemoglobin and adherence to the glycemic targets recommended for elderly patients by the Japan Diabetes Society/Japan Geriatrics Society Joint Committee among memory clinic patients with diabetes mellitus. *Journal of Diabetes Investigation* **13**, 2038-2046.
66. Tsutsumi, Y., Tsujimoto, Y., Tajika, A., Omae, K., Fujii, T., Onishi, A., Kataoka, Y., Katsura, M., Noma, H., Sahker, E., Ostinelli, E. G., Furukawa, T. A. (2022). Proportion attributable to contextual effects in general medicine: a meta-epidemiological study based on Cochrane reviews. *BMJ Evidence-Based Medicine* **28**, 40-47.
67. Ciharova, M., Furukawa, T. A., Efthimiou, O., Karyotaki, E., Miguel, C., Noma, H., Cipriani, A., Riper, H. and Cuijpers, P. (2021). Cognitive restructuring, behavioral activation and cognitive-behavioral therapy in the treatment of adult depression: A network meta-analysis. *Journal of Consulting and Clinical Psychology* **89**, 563-574.
68. Cuijpers, P., Karyotaki, E., Ciharova, M., Miguel, C., Noma, H., and Furukawa, T. A. (2021). The effects of psychotherapies for depression on response, remission, reliable change, and deterioration: A meta-analysis. *Acta Psychiatrica Scandinavica* **144**, 288-299.
69. Cuijpers, P., Oud, M., Karyotaki, E., Noma, H., Quero, S., Cipriani, A., Arroll, B., and Furukawa, T. A. (2021). Psychological treatment of depression compared with pharmacotherapy and combined treatment in primary care: A network meta-analysis.

- Annals of Family Medicine* **19**: 262-270.
70. Cuijpers, P., Quero, S., Noma, H., Ciharova, M., Miguel, C., Karyotaki, E., Cipriani, A., Cristea, I., and Furukawa, T. A. (2021). Psychotherapies for depression: a network meta-analysis covering efficacy, acceptability and long-term outcomes of all main treatment types. *World Psychiatry* **20**: 283-293.
71. Gosho, H., Noma, H., Maruo, K. (2021). Practical review and comparison of modified covariance estimators for linear mixed models in small-sample longitudinal studies with missing data. *International Statistical Review* **89**, 550-572.
72. Hamaguchi, Y., Noma, H., Nagashima, K., Yamada, T., and Furukawa, T. A. (2021). Frequentist performances of Bayesian prediction intervals for random-effects meta-analysis. *Biometrical Journal* **63**, 394-405.
73. Hasegawa, T., Nishiwaki, H., Ota, E., Levack, W. M. M., Noma, H. (2021). Aldosterone antagonists for people with chronic kidney disease requiring dialysis. *Cochrane Database of Systematic Reviews* **2**, CD013109.
74. Iba, K., Shinozaki, T., Maruo, K., and Noma, H. (2021). Re-evaluation of the comparative effectiveness of bootstrap-based optimism correction methods in the development of multivariable clinical prediction models. *BMC Medical Research Methodology* **21**, 9.
75. Imai, H., Noma, H., and Furukawa, T. A. (2021). Melancholic features (DSM-IV) predict but do not moderate response to antidepressants in major depression: an individual participant data meta-analysis of 1219 patients. *European Archives of Psychiatry and Clinical Neuroscienc* **271**, 521-526.
76. Ikebuchi, Y., Matsumoto, K., Ueda, N., Yamashita, T., Kurumi, H., Onoyama, T., Takeda, Y., Yoshida, A., Kawaguchi, K., Yashima, K., Fujiwara, K., Imamoto, R., Noma, H., Ueki, M., and Isomoto, H. (2021). Efficacy and safety of a novel mouthpiece for esophagogastroduodenoscopy: a multi-center, randomized study. *Diagnostics (Basel)* **11**.
77. Kihara, K., Hara, K., Sugezawa, K., Uejima, C., Tanio, A., Yamamoto, M., Noma, H., Tokuyasu, N., Sakamoto, T., Honjo, S. and Fujiwara, Y. (2021). Prognostic significance of the number of teeth in patients with colorectal cancer. *Journal of the Anus, Rectum and Colon* **5**, 237-246.
78. Kitsuda, Y., Wada, T., Noma, H., Osaki, M., and Hagino, H. (2021). Impact of high-load resistance training on bone mineral density in osteoporosis and osteopenia: a

- meta-analysis. *Journal of Bone and Mineral Metabolism* **39**, 787-803.
79. Matsumoto, K., Hara, K., Yasuda, I., Itoi, T., Kurumi, H., Matsumoto, S., Doi, S., Honjo, M., Takeda, Y., Shibuya, J., Noma, H., and Isomoto, H. (2021). Usefulness of a target sample check illuminator in the detection of target specimens in endoscopic ultrasound-guided fine-needle biopsy samples: Multicenter prospective study. *Digestive Endoscopy* **33**, 970-976.
80. Michopoulos, I., Furukawa, T. A., Noma, H., Kishimoto, S., Onishi, A., Ostinelli, E. G., Ciharova, M., Miguel, C., Karyotaki, E. and Cuijpers, P. (2021). Different control conditions can produce different effect estimates in psychotherapy trials for depression. *Journal of Clinical Epidemiology* **132**: 59-70.
81. Nagashima, K., Noma, H., Sato, Y., and Goshio, M. (2021). Sample size calculations for single-arm survival studies using transformations of the Kaplan-Meier estimator. *Pharmaceutical Statistics* **20**, 499-511.
82. Nakamura, R., Uehara, S., Suematsu, K., Ishitsuka, Y., and Noma, H. (2021). Prediction of future wrinkles for middle-aged women: A 7-year longitudinal study on the progression of wrinkles in Japanese women. *Skin Research and Technology* **27**, 854-862.
83. Nishiyama, T., Kondo, Y., Tsuboi, H., Noma, H., Tabuchi, D., Sugita, T., Okamoto, S., Terasaki, T., Shimizu, M., Honda, F., Ohyama, A., Kurata, I., Yagishita, M., Abe, S., Takahashi, H., Osada, A., Hagiwara, S., Matsumoto, I., and Sumida, T. (2021). QTc interval prolongation in patients with systemic lupus erythematosus treated with hydroxychloroquine. *Modern Rheumatology* **31**, 1107-1112.
84. Noma, H., Matsushima, Y. and Ishii, R. (2021). Confidence interval for the AUC of SROC curve and some related methods using bootstrap for meta-analysis of diagnostic accuracy studies. *Communications in Statistics: Case Studies and Data Analysis* **7**, 344-358.
85. Noma, H., Shinozaki, T., Iba, K., Teramukai, S., and Furukawa, T. A. (2021). Confidence intervals of prediction accuracy measures for multivariable prediction models based on the bootstrap-based optimism correction methods. *Statistics in Medicine* **40**, 5691-5701.
86. Okabayashi, S., Kawamura, T., Noma, H., Wakai, K., Ando, M., Tsushita, K., Ohira, H., Ukawa, S. and Tamakoshi, A. (2021). Prediction of 11-year incidence of psychophysiologically dependent status or death among community-dwelling younger

- elderlies: from an age-specified community-based cohort study (the NISSIN project). *Environmental Health and Preventive Medicine* **26**, 45.
87. Okamoto, S., Tsuboi, H., Noma, H., Tabuchi, D., Sugita, T., Nishiyama, T., Terasaki, T., Shimizu, M., Honda, F., Yagishita, M., Ohyama, A., Kurata, I., Takahashi, H., Osada, A., Hagiwara, S., Kondo, Y., Matsumoto, I., and Sumida, T. (2021). Predictive factors for pneumomediastinum during management of connective tissue disease-related interstitial lung disease: A retrospective study. *Internal Medicine* **60**, 2887-2897.
88. Sugasawa, S. and Noma, H. (2021). A unified method for improved inference in random-effects meta-analysis. *Biostatistics* **22**, 114-130.
89. Sugasawa, S. and Noma, H. (2021). Efficient screening of predictive biomarkers for individual treatment selection. *Biometrics* **77**: 249-257.
90. Sugimoto, T., Araki, A., Fujita, H., Honda, K., Inagaki, N., Ishida, T., Kato, J., Kishi, M., Kobayashi, K., Kouyama, K., Noma, H., Ohishi, M., Satoh-Asahara, N., Shimada, H., Sugimoto, K., Suzuki, S., Takeya, Y., Tamura, Y., Tokuda, H., Umegaki, H., Watada, H., Yamada, Y. and Sakurai, T. (2021). The multi-domain intervention trial in older adults with diabetes mellitus for prevention of dementia in Japan: study protocol for a multi-center, randomized, 18-month controlled trial. *Frontiers in Aging Neuroscience* **13**: 680341.
91. Watanabe, M., Noma, H., Kurai, J., Kato, K., and Sano, H. (2021). Association with ambient air pollutants and school absence due to sickness in schoolchildren: a case-crossover study in a provincial town of Japan. *International Journal of Environmental Research and Public Health* **18**, 6631.
92. Aboulatta, L., Sugita, H., Wakabayashi, H., Noma, H., and Sasaki, T. (2020). Comparison of extended versus intermittent infusion of antipseudomonal beta-lactams for the treatment of critically ill patients with respiratory infections: A systematic review and meta-analysis. *International Journal of Infectious Diseases* **98**, 41-50.
93. Adachi, K., Yoshida, Y., Goto, H., Noma, H., and Yamamoto, O. (2020). Clinicopathological features of polypoid basal cell carcinoma: the first study in Japan. *European Journal of Dermatology* **30**, 433-435.
94. Cuijpers, P., Noma, H., Karyotaki, E., Vinkers, C., Cipriani, A., Furukawa, T. A. (2020). A network meta-analysis of the effects of psychotherapies, pharmacotherapies and their combination in the treatment of adult depression. *World Psychiatry* **19**: 92-107.
95. Cuijpers, P., Karyotaki, E., Eckshtain, D., Ng, M. Y., Corteselli, K. A., Noma, H.,

- Quero, S., Weisz, J. R. (2020). Psychotherapy for depression across different age groups: A meta-analysis. *JAMA Psychiatry* **77**: 694-702.
96. Fujiwara, T., Isumi, A., Sampei, M., Miyazaki, Y., Yamada, F., Noma, H., Ogita, K., and Mitsuda, N. (2020). Effectiveness of an Educational Video in Maternity Wards to Prevent Self-Reported Shaking and Smothering during the First Week of Age: A Cluster Randomized Controlled Trial. *Prevention Science* **21**, 1028-1036.
97. Inoue, K., Ishida, K., Tomita, G., Noma, H. (2020). A scoping review and network meta-analysis for efficacy and safety of glaucoma medication in Japanese patients. *Japanese Journal of Ophthalmology* **64**: 103-113.
98. Maruo, K., Furukawa, T. A., Noma, H., Imai, H., Ikeda, K., Yamawaki, S. (2020). Qualitative treatment-subgroup interactions in the antidepressant treatment of major depression: Application of QUINT to individual participant data from seven placebo-controlled randomized controlled trials. *Personalized Medicine in Psychiatry*, **21-22**: 100054.
99. Matsushima, Y., Noma, H., Yamada, T., Furukawa, T. A. (2020). Influence diagnostics and outlier detection for meta-analysis of diagnostic test accuracy. *Research Synthesis Methods* **11**: 237-247.
100. Noma, H., Goshio, M., Ishii, R., Oba, K., and Furukawa, T. A. (2020). Outlier detection and influence diagnostics in network meta-analysis. *Research Synthesis Methods* **11**, 891-902.
101. Noma, H., Nagashima, K., and Furukawa, T. A. (2020). Permutation inference methods for multivariate meta-analysis. *Biometrics* **76**: 337-347.
102. Okura, T., Fujioka, Y., Nakamura, R., Anno, M., Ito, Y., Kitao, S., Matsumoto, K., Shoji, K., Sumi, K., Matsuzawa, K., Izawa, S., Okura, H., Ueta, E., Noma, H., Kato, M., Imamura, T., Taniguchi, S. I., and Yamamoto, K. (2020). Hepatic insulin clearance is increased in patients with high HbA1c type 2 diabetes: a preliminary report. *BMJ Open Diabetes Research & Care* **8**: e001149.
103. Shimazaki, J., Satake, Y., Higa, K., Yamaguchi, T., Noma, H., and Tsubota, K. (2020). Long-term outcomes of cultivated cell sheet transplantation for treating total limbal stem cell deficiency. *Ocular Surface* **18**, 663-671.
104. Tada, Y., Watanabe, R., Noma, H., Kanai, Y., Nomura, T., and Kaneko, K. (2020). Short-term effectiveness of biologics in patients with moderate-to-severe plaque psoriasis: A systematic review and network meta-analysis. *Journal of Dermatological*

- Science* **99**, 53-61.
105. Yamada, H., Ohno, K., Shiota, M., Togawa, M., Utsunomiya, Y., Akaboshi, S., Tsuchie, H., Okada, T., Oguri, M., Higami, S., Noma, H., and Maegaki, Y. (2020). Prevalence and clinical characteristics of children with medical complexity in Tottori Prefecture, Japan: A population-based longitudinal study. *Brain & Development* **42**, 747-755.
106. Yamada, T., Iwasaki, K., Maedera, S., Ito, K., Takeshima, T., Noma, H., Shojima, N. (2020). Myocardial infarction in type 2 diabetes using sodium-glucose cotransporter-2 inhibitors, dipeptidyl peptidase-4 inhibitors, or glucagon-like peptide-1 receptor agonists: proportional hazards analysis by deep neural network-based machine learning. *Current Medical Research and Opinion* **6**: 1-7.
107. Yamada, T., Yoneoka, D., Hiraike, Y., Hino, K., Toyoshiba, H., Shishido, A., Noma, H., Shojima, N., and Yamauchi, T. (2020). Deep Neural Network for Reducing the Screening Workload in Systematic Reviews for Clinical Guidelines: Algorithm Validation Study. *Journal of Medical Internet Research* **22**, e22422.
108. Yamaguchi, T., Higa, K., Yagi-Yamaguchi, Y., Ueda, K., Noma, H., Shibata, S., Nagai, T., Tomida, D., Yasu-Mimura, R., Osama, I., Matoba, R., Tsubota, K., Hamrah, P., Yamada, J., Kanekura, K., Shimazaki, J. (2020). Pathological processes in aqueous humor due to iris atrophy predispose to early corneal graft failure in humans and mice. *Science Advances* **6**: eaaz5195.
109. Asanuma, Y. F., Aizaki, Y., Noma, H., Yokota, K., Matsuda, M., Kozu, N., Takebayashi, Y., Nakatani, H., Hasunuma, T., Kawai, S., Mimura, T. (2019). Plasma pentraxin 3 is associated with progression of radiographic joint damage, but not carotid atherosclerosis, in female rheumatoid arthritis patients: 3-year prospective study. *Modern Rheumatology* **30**: 1-8.
110. Cuijpers, P., Noma, H., Karyotaki, E., Cipriani, A., Furukawa, T. A. (2019). Effectiveness and acceptability of cognitive behavior therapy delivery formats in adults with depression: a network meta-analysis. *JAMA Psychiatry* **76**: 700-707.
111. Ibrahim, O. M. A., Yagi-Yaguchi, Y., Noma, H., Tsubota, K., Shimazaki, J., Yamaguchi, T. (2019). Corneal higher-order aberrations in Stevens-Johnson syndrome and toxic epidermal necrolysis. *Ocular Surface* **17**: 722-728.
112. Iwamoto, H., Morizane, S., Koie, T., Shiroki, R., Kawakita, M., Gondo, T., Matsumoto, K., Habuchi, T., Sunada, H., Endo, Y., Noma, H., Takenaka, A., Kanayama, H. (2019). Peri-operative efficacy and long-term survival benefit of robotic-assisted radical

- cystectomy in septuagenarian patients compared with younger patients: a nationwide multi-institutional study in Japan. *International Journal of Clinical Oncology* **24**:1588-1595.
- 113.Koda, H., Matsumoto, K., Takeda, Y., Onoyama, T., Kawata, S., Kurumi, H., Yamashita, T., Noma, H., Isomoto, H. (2019). Randomized controlled trial comparing the usefulness of endoscopic ultrasound processor. *Yonago Acta Medica* **62**: 94-99.
- 114.Kuwahara, K., Noma, H., Nakagawa, T., Honda, T., Yamamoto, S., Hayashi, T., Mizoue, T. (2019). Association of changes in commute mode with body mass index and visceral adiposity: a longitudinal study. *International Journal of Behavioral Nutrition and Physical Activity* **16**: 101.
- 115.Nagashima, K., Noma, H., and Furukawa, T. A. (2019). Prediction intervals for random-effects meta-analysis: A confidence distribution approach. *Statistical Methods in Medical Research* **28**: 1689-1702.
- 116.Noma, H., Furukawa, T. A., Maruo, K., Imai, H., Shinohara, K., Tanaka, S., Ikeda, K., Yamawaki, S., Cipriani, A. (2019). Exploratory analyses of effect modifiers in the antidepressant treatment of major depression: Individual-participant data meta-analysis of 2803 participants in seven placebo-controlled randomized trials. *Journal of Affective Disorders* **250**: 419-424.
- 117.Noma, H., Maruo, K., Gosho, M., Levine, S. Z., Goldberg, Y., Leucht, S., Furukawa, T. A. (2019). Efficient two-step multivariate random effects meta-analysis of individual participant data for longitudinal clinical trials using mixed effects models. *BMC Medical Research Methodology* **19**: 33.
- 118.Ohyama, A., Tsuboi, H., Noma, H., Terasaki, M., Shimizu, M., Toko, H., Honda, F., Yagishita, M., Takahashi, H., Asashima, H., Hagiwara, S., Kondo, Y., Matsumoto, I., Sumida, T. (2019). Associations between maternal clinical features and fetal outcomes in pregnancies of mothers with connective tissue diseases. *Modern Rheumatology* **29**: 344-350.
- 119.Otani, T., Noma, H., Sugasawa, S., Kuchiba, A., Goto, A., Yamaji, T., Kochi, Y., Iwasaki, M., Matsui, S., Tsunoda, T. (2019). Exploring predictive biomarkers from clinical genome-wide association studies via multidimensional hierarchical mixture models. *European Journal of Human Genetics* **27**: 140-149.
- 120.Shinohara, K., Tanaka, S., Imai, H., Noma, H., Maruo, K., Cipriani, A., Yamawaki, S., Furukawa, T. A. (2019). Development and validation of a prediction model for the

- probability of responding to placebo in antidepressant trials: a pooled analysis of individual patient data. *Evidence-Based Mental Health* **22**: 10-16.
121. Sugawara, S. and Noma, H. (2019). Estimating individual treatment effects by gradient boosting trees. *Statistics in Medicine* **38**: 5146-5159.
122. Suzuki, N., Yamaguchi, T., Shibata, S., Nagai, T., Noma, H., Tsubota, K., Shimazaki, J. (2019). Cytokine levels in the aqueous humor are associated with corneal thickness in eyes with bullous keratopathy. *American Journal of Ophthalmology* **198**: 174-180.
123. Takeuchi, J., Noma, H., Sakanishi, Y., Kawamura, T. (2019). Adverse events associated with human papillomavirus vaccines: a protocol for systematic review with network meta-analysis incorporating all randomised controlled trials comparing with placebo, adjuvants and other vaccines. *BMJ Open* **9**: e026924.
124. Taniguchi, F., Ota, I., Iba, Y., Toda, T., Tagashira, Y., Ohata, Y., Kurioka, H., Endo, Y., Sunada, H., Noma, H., Azuma, Y., Harada, T. (2019). The efficacy and safety of dydrogesterone for treatment of dysmenorrhea: An open-label multicenter clinical study. *Journal of Obstetrics and Gynecology Research* **65**: 236-241.
125. Tsubouchi, Y., Tanabe, A., Saito, Y., Noma, H., Maegaki, Y. (2019). Long-term prognosis of epilepsy in patients with cerebral palsy. *Developmental Medicine & Child Neurology* **61**: 1067-1073.
126. Ukyo, Y., Noma, H., Maruo, K., Goshio, M. (2019). Improved small sample inference methods for a mixed-effects model for repeated measures approach in incomplete longitudinal data analysis. *Stats* **2**: 174-188.
127. Adachi, K., Yoshida, Y., Noma, H., Goto, H., and Yamamoto, O. (2018). Characteristics of multiple basal cell carcinomas: The first study on Japanese patients. *Journal of Dermatology* **45**, 1187-1190.
128. Furukawa, T. A., Maruo, K., Noma, H., Tanaka, S., Imai, H., Shinohara, K., Ikeda, K., Yamawaki, S., Levine, S. Z., Goldberg, Y., Leucht, S., Cipriani, A. (2018). Initial severity of major depression and efficacy of new generation antidepressants: Individual-participant data meta-analysis. *Acta Psychiatrica Scandinavica* **137**: 450-458.
129. Kojima, R., Ukawa, S., Zhao, W., Suzuki, K., Yamada, H., Tsushita, K., Kawamura, T., Okabayashi, S., Wakai, K., Noma, H., Ando, M., Tamakoshi, A.. (2018). Association of adiponectin with cancer and all-cause mortality in a Japanese community-dwelling elderly cohort: a case-cohort study. *Journal of Epidemiology* **28**: 367-372.

130. Kondo, Y., Goto, A., Noma, H., Iso, H., Hayashi, K., Noda, M. (2018). Effects of coffee and tea consumption on glucose metabolism: a systematic review and network meta-analysis. *Nutrients* **11**: 48.
131. Kurai, J., Noma, H., Sano, H., Iwata, K., Tohda, Y., and Watanabe, M. (2018). Association of short-term ozone exposure with pulmonary function and respiratory symptoms in schoolchildren: A panel study in a western Japanese city. *Journal of Medical Investigation* **65**, 236-241.
132. Matsui, S., Noma, H., Qu, P., Sakai, Y., Matsui, K., Heuck, C., Crowley, J. (2018). Multi-subgroup gene screening using semi-parametric hierarchical mixture models and the optimal discovery procedure: application to a randomized clinical trial in multiple myeloma. *Biometrics* **74**: 313-320.
133. Miki, H., Akiyoshi, T., Ogura, A., Nagasaki, T., Konishi, T., Fujimoto, Y., Nagayama, S., Noma, H., Saiura, A., Fukunaga, Y., Ueno, M. (2018). Pretreatment serum carbohydrate antigen 19-9 concentration is a predictor of survival of patients who have undergone curative resection of stage IV rectal cancer. *Digestive Surgery* **35**: 389-396.
134. Nishino, J., Kochi, Y., Shigemizu, D., Kato, M., Ikari, K., Ochi, H., Noma, H., Matsui, K., Morizono, T., Boroevich, K., Tsunoda, T., Matsui, S. (2018). Empirical Bayes estimation of semi-parametric hierarchical mixture models for unbiased characterization of polygenic disease architectures. *Frontiers in Genetics* **24**: 115.
135. Noma, H., Nagashima, K., Maruo, K., Goshio, M., and Furukawa, T. A. (2018). Bartlett-type corrections and bootstrap adjustments of likelihood-based inference methods for network meta-analysis. *Statistics in Medicine* **37**: 1178-1190.
136. Otani, T., Noma, H., Nishino, J., and Matsui, S. (2018). Re-assessment of multiple testing strategies for more efficient genome-wide association studies. *European Journal of Human Genetics* **26**: 1038-1048.
137. Suda, K., Akagi, T., Nakanishi, H., Noma, H., Ikeda, H. O., Kameda, T., Hasegawa, T., Tsujikawa, A. (2018). Evaluation of structure-function relationships in longitudinal changes of glaucoma using the spectralis OCT follow-up mode. *Scientific Report* **8**: 17158.
138. Tani, Y., Kondo, N., Noma, H., Miyaguni, Y., Saito, M., Kondo, K. (2018). Eating alone yet living with others is associated with mortality in older men: The JAGES cohort survey. *Journal of Gerontology: Social Sciences* **73**: 1330-1334.
139. Uwatoko, T., Luo, Y., Sakata, M., Kobayashi, D., Sakagami, Y., Takemoto, K., Collins,

- L. M., Watkins, E., Hollon, S. D., Wason, J., Noma, H., Horikoshi, M., Kawamura, T., Iwami, T., Furukawa, T. A. (2018). Healthy Campus Trial: a multiphase optimization strategy (MOST) fully factorial trial to optimize the smartphone cognitive behavioral therapy (CBT) app for mental health promotion among university students: study protocol for a randomized controlled trial. *Trials* **19**: 353.
140. Yamada, T. Shojima, N., Noma, H., Yamauchi, T., Kadowaki, T. (2018). Weekly versus daily dipeptidyl peptidase 4 inhibitor therapy for type 2 diabetes: systematic review and meta-analysis. *Diabetes Care* **41**: e52-e55.
141. Yamada, T. Shojima, N., Noma, H., Yamauchi, T., Kadowaki, T. (2018). Sodium-glucose co-transporter 2 (SGLT2) inhibitors as add-on therapy to insulin for type 1 diabetes mellitus: Systematic review and meta-analysis of randomized controlled trials. *Diabetes, Obesity and Metabolism* **20**: 1755-1761.
142. Yamada, T., Shojima, N., Noma, H., Yamauchi, T., Kadowaki, T. (2018). Biosimilar versus originator insulins: systematic review and meta-analysis. *Diabetes, Obesity and Metabolism* **20**: 1787-1792.
143. Goshō, M., Hirakawa, A., Noma, H., Maruo, K., Sato, Y. (2017). Comparison of bias-corrected covariance estimators for MMRM analysis in longitudinal data with dropouts. *Statistical Methods in Medical Research* **26**: 2389-2406.
144. Harada, T., Ohta, I., Endo, Y., Sunada, H., Noma, H., Taniguchi, F. (2017). SR-16234, a novel selective estrogen receptor modulator for pain symptoms with endometriosis: an open-label clinical trial. *Yonago Acta Medica* **60**: 227-233.
145. Kurai, J., Watanabe, M., Noma, H., Iwata, K., Taniguchi, J., Sano, H., Tohda, Y., Shimizu, E. (2017). Estimation of the effects of heavy Asian dust on respiratory function by definition type. *Genes and Environment* **39**, 25.
146. Maruo, K., Yamaguchi, Y., Noma, H., Goshō, M. (2017). Interpretable inference on the mixed effect model with the Box-Cox transformation. *Statistics in Medicine* **36**: 2420-2434.
147. Matsumoto, H., Tanimura, C., Tanishima, S., Noma, H., Osaki, M., Hagino, H. (2017). Sarcopenia is a risk factor for falling in independently living Japanese older adults: Two-year prospective cohort study of the GAINA study. *Geriatrics & Gerontology International* **17**: 2124-2130.
148. Noma, H. and Tanaka, S. (2017). Analysis of case-cohort designs with binary outcomes: Improving efficiency using whole-cohort auxiliary information. *Statistical*

*Methods in Medical Research* **26**: 691-706.

149. Noma, H., Tanaka, S., Matsui, S., Cipriani, A., Furukawa, T. A. (2017). Quantifying indirect evidence in network meta-analysis. *Statistics in Medicine* **36**: 917-927.
150. Ogura, A., Akiyoshi, T., Yamamoto, N., Kawachi, H., Ishikawa, Y., Noma, H., Nagino, M., Fukunaga, Y., Ueno, M. (2017). Does the depth of mesorectal invasion have prognostic significance in patients with ypT3 lower rectal cancer treated with preoperative chemoradiotherapy? *International Journal of Colorectal Disease* **32**: 349-356.
151. Sugawara, S., Noma, H., Otani, T., Nishino, J., Matsui, S. (2017). An efficient and flexible test for rare variant effects. *European Journal of Human Genetics* **25**: 752-757.
152. Tsuboi, H., Hagiwara, S., Asashima, H., Takahashi, H., Hirota, T., Noma, H., Umehara, H., Kawakami, A., Nakamura, H., Sano, H., Tsubota, K., Ogawa, Y., Takamura, E., Saito, I., Inoue, H., Nakamura, S., Moriyama, M., Takeuchi, T., Tanaka, Y., Hirata, S., Mimori, T., Matsumoto, I., Sumida, T. (2017). Comparison of performance of the 2016 ACR-EULAR classification criteria for primary Sjögren's syndrome with other sets of criteria in Japanese patients. *Annals of the Rheumatic Diseases* **76**: 1980-1985.
153. Watanabe, M., Noma, H., Kurai, J., Sano, H., Hantan, D., and Shimizu, E.. (2017). A panel study of airborne particulate matter composition versus concentration: potential for inflammatory response and impaired pulmonary function in children. *Allergology International* **66**: 52-58.
154. Watanabe, M., Noma, H., Kurai, J., Sano, H., Iwata, K., Hantan, D., Tohda, Y., Shimizu, E. (2017). Association of short-term exposure to ambient fine particulate matter with skin symptoms in schoolchildren: A panel study in a rural area of western Japan. *International Journal of Environmental Research and Public Health* **14**: 299.
155. Yamada, T., Shojima, N., Hara, K., Noma, H., Yamauchi, T., Kadowaki, T. (2017). Glycemic control, mortality, secondary infection, and hypoglycemia in critically ill pediatric patients: a systematic review and network meta-analysis of randomized controlled trials. *Intensive Care Medicine* **43**: 1427-1429.
156. Yamada, T., Shojima, N., Noma, H., Yamauchi, T., Kadowaki, T. (2017). Glycemic control, mortality, and hypoglycemia in critically ill patients: a systematic review and network meta-analysis of randomized controlled trials. *Intensive Care Medicine* **43**: 1-15.
157. Furukawa, T. A., Miura, T., Chaimani, A., Leucht, S., Cipriani, A., Noma, H.,

- Mitsuyasu, H., Kanba, S., Salanti, G. (2016). Using the contribution matrix to evaluate complex study limitations in a network meta-analysis: a case study of bipolar maintenance pharmacotherapy review. *BMC Research Notes* **9**: 218.
158. Honda, M., Akiyoshi, T., Noma, H., Ogura, A., Nagasaki, T., Konishi, T., Fujimoto, Y., Nagayama, S., Fukunaga, Y. and Ueno, M. (2016). Patient-centered outcomes to decide treatment strategy for patients with low rectal cancer. *Journal of Surgical Oncology* **114**: 630-636.
159. Kanatani, K. T., Hamazaki, K., Inadera, H., Sugimoto, N., Shimizu, A., Noma, H., Onishi, K., Takahashi, Y., Itazawa, T., Egawa, M., Sato, K., Go, T., Ito, I., Kurozawa, Y., Konishi, I., Adachi, Y., Nakayama, T.; Japan Environment & Children's Study Group. (2016). Effect of desert dust exposure on allergic symptoms: A natural experiment in Japan. *Annals of Allergy, Asthma & Immunology* **116**: 425-430.
160. Matsumoto, H., Ueki, M., Uehara, K., Noma, H., Nozawa, N., Osaki, M., and Hiroshi Hagino. (2016). Comparison of healthcare workers transferring patients using either conventional or robotic wheelchairs: kinematic, electromyographic, and electrocardiographic analyses. *Journal of Healthcare Engineering* **2016**: Article ID 5963432.
161. Noma, H. and Nagashima, K. (2016). A note on the Mantel-Haenszel estimators when the common effect assumptions are violated. *Epidemiologic Methods* **5**: 19-35.
162. Takehara, K., Dagvadorj, A., Sumya, N., Ganhuyag, S., Bavuusuren, B., Ota, E., Haruna, M., Yoshida, M., Kita, S., Noma, H., Mori, R. (2016). Maternal and child health in Mongolia at 3 years after childbirth: A population-based cross-sectional descriptive study. *Maternal and Child Health Journal* **20**: 1072-1081.
163. Tani, Y., Fujiwara, T., Kondo, N., Noma, H., Sasaki, Y. and Kondo, K. (2016). Childhood socioeconomic status and onset of depression among Japanese older adults: The JAGES prospective cohort study. *American Journal of Geriatric Psychiatry* **24**: 717-726.
164. Tsuboi, H., Sumida, T., Noma, H., Yamagishi, K., Anami, A., Fukushima, K., Horigome, H., Maeno, Y., Kishimoto, M., Takasaki, Y., Nakayama, M., Waguri, M., Sago, H., Murashima, A. (2016). Maternal predictive factors for fetal congenital heart block in pregnant mothers positive for anti-SS-A antibodies. *Modern Rheumatology* **26**: 569-575.
165. Watanabe, M., Noma, H., Kurai, J., Kato, K., Sano, H., Tatsukawa, T., Nakazaki, H.,

- Yamasaki, A., Shimizu, E. (2016). Association between pulmonary function and daily levels of sand dust particles assessed by Light Detection and Ranging in schoolchildren in western Japan: a panel study. *Allergology International* **65**: 56-61.
166. Watanabe, M., Noma, H., Kurai, J., Hantan, D., Burioka, N., Nakamoto, S., Sano, H., Taniguchi, J., and Shimizu, E. (2016). Association between Outdoor Fungal Concentrations during Winter and Pulmonary Function in Children with and without Asthma. *International Journal of Environmental Research and Public Health* **13**: 452.
167. Watanabe, M., Noma, H., Kurai, J., Sano, H., Hantan, D., Ueki, M., Kitano, H., Shimizu, E. (2016). Effects of short-term exposure to particulate air pollutants on the inflammatory response and respiratory symptoms: A panel study in schoolchildren from rural areas of Japan. *International Journal of Environmental Research and Public Health* **13**: 983.
168. Watanabe, M., Noma, H., Kurai, J., Sano, H., Mikami, M., Yamamoto, H., Ueda, Y., Touge, H., Fujii, Y., Ikeda, T., Tokuyasu, H., Konishi, T., Yamasaki, A., Igishi, T., and Shimizu, E. (2016). Effect of Asian dust on pulmonary function in adult asthma patients in Western Japan: A panel study. *Allergology International* **65**: 147-152.
169. Watanabe, M., Noma, H., Kurai, J., Sano, H., Ueda, Y., Mikami, M., Yamamoto, H., Tokuyasu, H., Kato, K., Konishi, T., Tatsukawa, T., Shimizu, E. and Kitano, H. (2016). Differences in the effects of Asian dust on pulmonary function between adult patients with asthma and those with asthma-chronic obstructive pulmonary disease overlap syndrome. *International Journal of Chronic Obstructive Pulmonary Disease* **11**: 183-190.
170. Brown, H. C., Smith, H. J., Mori, R., and Noma, H. (2015). Giving women their own case notes to carry during pregnancy. *Cochrane Database of Systematic Reviews* **10**: CD002856.
171. Funakubo-Asanuma, Y., Mimura, T., Tsuboi, H., Noma, H., Miyoshi, F., Yamamoto, K. and Sumida, T. (2015). Nationwide epidemiological survey of 169 patients with adult Still's disease in Japan. *Modern Rheumatology* **25**: 393-400.
172. Mori, R., Yonemoto, N., Noma, H., Ochirbat, T., Barber, E., Soyolgerel, G., Nakamura, Y., and Lkhagvasuren, O. (2015). The Maternal and Child Health (MCH) Handbook in Mongolia: A cluster-randomized, controlled trial. *PLoS One* **10**: e0119772.
173. Suda, K., Hangai, M., Akagi, T., Noma, H., Kimura, Y., Hasegawa, T., Yamada, H.,

- Yoshikawa, M., Nakanishi, H., Ohashi-Ikeda, H., Yoshimura, N. (2015). Comparison of longitudinal changes in functional and structural measures for evaluating progression of glaucomatous optic neuropathy. *Investigative Ophthalmology & Visual Science* **56**: 5477-5484.
174. Watanabe, M., Kurai, J., Minato, S., Noma, H., Sano, H., Saito, R., Aiba, S., Oshimura, M., Hatakeyama, K., Yamasaki, A. and Shimizu, E. (2015). Difference in interleukin-8 transcriptional activity induced in THP-G8 cells by particulate matter collected in winter and summer in western Japan. *Journal of Medical Investigation* **62**: 145-148.
175. Watanabe, M., Noma, H., Kurai, J., Sano, H., Kitano, H., Saito, R., Kimura, Y., Aiba, S., Oshimura, M., Shimizu, E. (2015). Variation in the effect of particulate matter on pulmonary function in schoolchildren in Western Japan and its association with interleukin-8. *International Journal of Environmental Research and Public Health* **12**: 14229-14243.
176. Watanabe, M., Noma, H., Kurai, J., Sano, H., Saito, R., Abe, S., Yamasaki, A., Kimura, Y., Aiba, S., Oshimura, M. and Shimizu, E. (2015). Decreased pulmonary function in schoolchildren in western Japan associated with interleukin-8 induced by Asian desert dust. *BioMed Research International* **2015**: Article ID 583293.
177. Watanabe, M., Noma, H., Kurai, J., Shimizu, A., Sano, H., Kato, K., Mikami, M., Ueda, Y., Tatsukawa, T., Ohga, H., Yamasaki, A., Igishi, T., and Shimizu, E. (2015). Association of sand dust particles with pulmonary function and respiratory symptoms in adult asthma patients in Western Japan using Light Detection and Ranging: A panel study. *International Journal of Environmental Research and Public Health* **12**: 13038-13052.
178. Furukawa, T. A., Noma, H., Caldwell, D., Honyashiki, M., Shinohara, K., Imai, H., Hunot, V. and Churchill, R. (2014). Is a waiting list control a nocebo condition in psychotherapy trials? A contribution from network meta-analysis. *Acta Psychiatrica Scandinavica* **130**: 181-192.
179. Honyashiki, M., Furukawa, T. A., Noma, H., Tanaka, S., Chen, P., Ichikawa, K., Ono, M., Churchill, R., Hunot, V. and Caldwell, D. (2014). Specificity of CBT for depression: a contribution from multiple treatments meta-analyses. *Cognitive Therapy and Research* **38**: 249-260.
180. Kanatani, K. T., Adachi, Y., Sugimoto, N., Noma, H., Onishi, K., Hamazaki, K., Takahashi, Y., Ito, I., Egawa, M., Sato, K., Go, T., Kurozawa, Y., Inadera, H., Konishi,

- I., Nakayama, T., Japan Environment & Children's Study Group. (2014). Birth cohort study on the effects of desert dust exposure on children's health: protocol of an adjunct study of the Japan Environment & Children's Study. *BMJ Open* **4**: e004863.
181. Kosuga, T., Hiki, N., Souya, N., Noma, H., Honda, M., Tanimura, S., Sano, T. and Yamaguchi, T. (2014). Feasibility and nutritional impact of laparoscopy-assisted subtotal gastrectomy for early gastric cancer in the upper stomach. *Annals of Surgical Oncology* **21**: 2028-2035.
182. Miura, T., Noma, H., Furukawa, T. A., Mitsuyasu, H., Tanaka, S., Stockton, S., Salanti, G., Motomura, K., Shimano-Katsuki, S., Leucht, S., Cipriani, A., Geddes, J. R. and Kanba, S. (2014). Comparative efficacy and tolerability of pharmacological treatments in the maintenance treatment of bipolar disorder: a network meta-analysis. *Lancet Psychiatry* **1**: 351-359.
183. Morisaki, N., Belfort, M. B., McCormick, M. C., Mori, R., Noma, H., Kusuda, S., Fujimura, M. and the Neonatal Research Network of Japan. (2014). Brief parenteral nutrition accelerates weight gain, head growth even in healthy VLBWs. *PLoS One* **9**: e88392.
184. Nakano, J., Okabayashi, H., Noma, H., Sato, T. and Sakata, R. (2014). The impact of incomplete revascularization and angiographic patency on mid-term results after off-pump coronary artery bypass grafting. *Journal of Thoracic and Cardiovascular Surgery* **147**: 1225-1232.
185. Nakano, J., Marui, A., Muranaka, H., Masumoto, H., Noma, H., Tabata, Y., Ido, A., Tsubouchi, H., Ikeda, T. and Sakata, R. (2014). Effects of hepatocyte growth factor in myocarditis rats induced by immunization with porcine cardiac myosin. *Interactive Cardiovascular and Thoracic Surgery* **18**: 300-307.
186. Yamada, H., Hangai, M., Nakano, N., Takayama, K., Kimura, Y., Miyake, M., Akagi, T., Ikeda, H., Noma, H., Yoshimura, N. (2014). Asymmetry analysis of macular inner retinal layers for glaucoma diagnosis. *American Journal of Ophthalmology* **158**: 1318-1329.
187. Honda, M., Kuriyama, A., Noma, H., Nunobe, S. and Furukawa, T. A. (2013). Hand-sewn versus mechanical esophago-gastric anastomosis after esophagectomy: A systematic review and meta-analysis. *Annals of Surgery* **257**: 238-248.
188. Koyanagi-Aoi, M., Ohnuku, M., Takahashi, K., Okita, K., Noma, H., Sawamura, Y., Teramoto, I., Narita, M., Sato, Y., Ichisaka, T., Amano, N., Watanabe, A., Morizane, A.,

- Yamada, Y., Sato, T., Takahashi, J. and Yamanaka, S. (2013). Differentiation defective phenotypes revealed by large scale analyses of human pluripotent stem cells. *Proceedings of the National Academy of Sciences* **110**: 20569-20574.
189. Mori, K., Oura, T., Noma, H., Matsui, S. (2013). Cancer outlier analysis based on mixture modeling of gene expression data. *Computational and Mathematical Methods in Medicine* **2013**: Article ID 693901.
190. Nagashima, K., Sato, Y., Noma, H. and Hamada, C. (2013). An efficient and robust method for analyzing population pharmacokinetic data in genome-wide pharmacogenomics studies: a generalized estimating equation approach. *Statistics in Medicine* **32**: 4838-4858.
191. Nakano, J., Okabayashi, H., Noma, H., Sato, T. and Sakata, R. (2013). Early angiographic evaluation after off-pump coronary artery bypass grafting. *Journal of Thoracic and Cardiovascular Surgery* **146**: 1119-1125.
192. Nakano, N., Hangai, M., Noma, H., Nukada, M., Mori, S., Morooka, S., Takayama, K., Kimura, Y., Ohashi-Ikeda, H., Akagi, T. and Yoshimura, N. (2013). Macular imaging in highly myopic eyes with and without glaucoma. *American Journal of Ophthalmology* **156**: 511-523.
193. Noma, H. and Matsui, S. (2013). Empirical Bayes ranking and selection methods via semi-parametric hierarchical mixture models in microarray studies. *Statistics in Medicine* **32**: 1904-1916.
194. Noma, H. and Matsui, S. (2013). An efficient semiparametric empirical Bayes method for the optimal discovery procedure in multiple significance testing. *Computational and Mathematical Methods in Medicine* **2013**: Article ID 568480.
195. Noma, H. and Matsui, S. (2012). The optimal discovery procedure in multiple significance testing: an empirical Bayes approach. *Statistics in Medicine* **31**: 165-176.
196. Matsui, S. and Noma, H. (2011). Estimating effect sizes of differentially expressed genes for power and sample size assessments in microarray experiments. *Biometrics* **67**: 1225-1235.
197. Matsui, S. and Noma, H. (2011). Estimation and selection in high-dimensional genomic studies for developing molecular diagnostics. *Biostatistics* **12**: 223-233.
198. Noma, H. (2011). Confidence intervals for a random-effects meta-analysis based on Bartlett-type corrections. *Statistics in Medicine* **30**: 3304-3312.
199. Noma, H., Matsui, S., Omori, T. and Sato, T. (2010). Bayesian ranking and selection

methods using hierarchical mixture models in microarray studies. *Biostatistics* **11**: 281-289.

## Books

1. Noma, H. (2017). Efficient study designs and semiparametric inference methods for developing genomic biomarkers in cancer clinical research. In *Frontiers of Biostatistical Methods and Applications in Clinical Oncology*, Matsui, S. and Crowley, J. (eds.), pp. 381-400. New York: Springer.
2. Noma, H. and Matsui, S. (2015). Univariate analysis for gene screening: Beyond the multiple testing. In *Design and Analysis of Clinical Trials for Predictive Medicine*, Matsui, S., Buyse, M. and Simon, R. (eds.), pp. 207-226. Boca Raton: Chapman and Hall/CRC.
3. Noma, H. and Matsui, S. (2013). Bayesian ranking and selection methods in microarray studies. In *Statistical Diagnostics for Cancer*, Emmert-Streib, F. and Dehmer, M. (eds.), pp. 57-74. Weinheim: Wiley-VCH.
4. Matsui, S. and Noma, H. (2012). Analysis of DNA microarrays. In *Handbook of Statistics in Clinical Oncology* (3rd edn.), Crowley, J. J. and Hoering, A. (eds.), pp. 569-589. Boca Raton: Chapman and Hall/CRC.

## Miscellaneous

1. Noma, H., Furukawa, T. A., Tajika, A., Sakata, M., Luo, Y., Toyomoto, R., Horikoshi, M., Akechi, T., Kawakami, N., Nakayama, T., Kondo, N., Fukuma, S., Christensen, H., Kessler, R. C., Cuijpers, P., and Wason, J. (2024). RESiLIENT (Resilience Enhancement with Smartphone in LIving ENvironmenTs) Trial: The Statistical Analysis Plan. medRxiv, <https://doi.org/10.1101/2024.03.16.24304261>.
2. Noma, H. (2024). Within-study covariance estimators for network meta-analysis with contrast-based approach. *Japanese Journal of Biometrics* **44**, 119-126.
3. Noma, H. (2023). MVPBT: R package for publication bias tests in meta-analysis of diagnostic accuracy studies. arXiv: 2209.07270.
4. Toyomoto, R., Sakata, M., Yoshida, K., Luo, Y., Nakagami, Y., Uwatoko, T., Shimamoto, T., Sahker, E., Tajika, A., Suga, H., Ito, H., Sumi, M., Muto, T., Ito, M., Ichikawa, H., Ikegawa, M., Shiraishi, N., Watanabe, T., Watkins, E. R., Noma, H., Horikoshi, M., Iwami, T., Furukawa, T. A. (2023). Corrigendum to "Prognostic factors and effect modifiers for personalisation of internet-based cognitive behavioural therapy among university students with subthreshold depression: A secondary analysis of a factorial trial". *Journal of Affective Disorders* **325**, 824-825.

5. Cuijpers, P., Furukawa, T. A., and Noma, H. (2022). Correction to: One in five, not one in 17, youth patients deteriorate during psychotherapy for depression: Reply. *European Child & Adolescent Psychiatry*, DOI: 10.1007/s00787-022-01968-x.
6. Cuijpers, P., Furukawa, T. A., and Noma, H. (2022). One in five, not one in 17, youth patients deteriorate during psychotherapy for depression. *European Child & Adolescent Psychiatry*, DOI: 10.1007/s00787-022-01941-8.
7. Cuijpers, P., Noma, H., and Furukawa, T. A. (2022). Errors in relative risks reported in Figure 3 in a network meta-analysis of cognitive behavior therapy delivery formats in adults with depression. *JAMA Psychiatry* **79**, 180.
8. Noma, H. (2020). Discussion of “Testing small study effects in multivariate meta-analysis” by Chuan Hong, Georgia Salanti, Sally Morton, Richard Riley, Haitao Chu, Stephen E. Kimmell, and Yong Chen. *Biometrics* **76**: 1255-1259.
9. Yoshida, Y., Ehara, Y., Noma, H., Yamamoto, O. (2018). Simple method for estimating cutaneous neurofibromas in patients with neurofibromatosis. *Journal of Dermatology* **45**: 626-627.
10. Honda, M., Kuriyama, A., Noma, H., Nunobe, S. and Furukawa, T. A. (2015). Reply to letter: “Hand-sewn versus mechanical esophago-gastric anastomosis after esophagectomy: A systematic review and meta-analysis”. *Annals of Surgery* **261**: e157.
11. Honda, M., Kuriyama, A., Noma, H., Nunobe, S. and Furukawa, T. A. (2015). Reply to letter: “Is there no significant difference in the incidence of anastomotic leakage between the hand-sewn and mechanical esophagogastric anastomosis?”. *Annals of Surgery* **262**: e81-e82.
12. Tanaka, S. and Noma, H. (2015). Calculating absolute measures of effects in the quasi-cohort approach. *Epidemiology*, DOI: 10.1097/EDE.0000000000000398.
13. Miura, T., Furukawa, T. A., Cipriani, A., Motomura, K., Mitsuyasu, H., Tanaka, S., Leucht, S., Shimano-Katsuki, S., Salanti, G., Noma, H., Stockton, S., Geddes, J. R., Kanba, S. (2014). Bipolar treatment efficacy—Authors' reply. *Lancet Psychiatry* **1**: 418-419.
14. Noma, H. (2012). Book Review: Dey, D. K., Ghosh, S. and Mallick, B. K. (eds), (2010). Bayesian Modeling in Bioinformatics. Boca Raton: Chapman and Hall/CRC. ISBN 9781420070170. *Biometrics* **68**: 1329.
15. Noma, H. and Matsui, S. (2010). Optimality of gene ranking based on univariate P-values for detecting differentially expressed genes. *Japanese Journal of Biometrics*

31: 13-21.

## Software

1. febrl Japanese Edition: Freely extensible biomedical record linkage. Available at: <http://www.shouman.jp/research/febrl/index.html>
2. boutliers: Outlier detection and influence diagnostics for meta-analysis. R package. Available at: <https://cran.r-project.org/web/packages/boutliers/>
3. predboot: Optimism-corrected predictive accuracy measures for multivariable prediction models. R package. Available at: <https://github.com/nomahi/predboot>
4. flexmeta: Meta-analysis using flexible random-effects distributions. R package. Available at: <https://github.com/nomahi/flexmeta>
5. dmetatools: Computational tools for meta-analysis of diagnostic accuracy test. R package. Available at: <https://cran.r-project.org/web/packages/dmetatools/>
6. bmetatools: Bayesian analysis tools for meta-analysis. R package. Available at: <https://github.com/nomahi/bmetatools>
7. robustmeta: Robust inference for meta-analysis with influential outlying studies. R package. Available at: <https://cran.r-project.org/web/packages/robustmeta/index>
8. predboot: Optimism-corrected predictive accuracy measures for multivariable prediction models. R package. Available at: <https://github.com/nomahi/predboot>
9. KRNMA: Kenward-Roger-type inferences for network meta-analysis. R package. Available at: <https://github.com/nomahi/KRNMA>
10. PINMA: Improved methods for constructing prediction intervals of network meta-analysis. R package. Available at: <https://cran.r-project.org/web/packages/PINMA/>
11. BANMA: Bayesian estimation and prediction for network meta-analysis with non-informative priors. R package. Available at: <https://github.com/nomahi/BANMA>
12. bootcc: Bootstrap inference for logistic regression in case-cohort studies. R package. Available at: <https://github.com/nomahi/bootcc>
13. MVPBT: Publication bias tests for meta-analysis of diagnostic accuracy test. R package. Available at: <https://cran.r-project.org/web/packages/MVPBT/>

14. NMA: Network meta-analysis based on multivariate meta-analysis models. R package.  
Available at: <https://cran.r-project.org/web/packages/NMA/>
15. rqlm: Modified Poisson and least-squares regressions for binary outcome. R package.  
Available at: <https://cran.r-project.org/web/packages/rqlm/>

## ■ Publication (in Japanese)

### 原著論文

1. 中村理恵, 野間久史. (2021). 多施設共同臨床試験における極端なプロファイルを持つ施設の検出と影響力診断の方法. 計量生物学 **41**, 117-136.
2. 濱口雄太, 松嶋優貴, 野間久史. (2021). ベイズ流メタアナリシスにおける外れ値試験の検出と影響力解析. 計量生物学 **42**, 33-54.
3. 右京芳文, 野間久史. (2019). 欠測を伴う経時測定データにおける MMRM (Mixed-Effects Model for Repeated Measures) の並べ替え法に基づく推測手法. 計量生物学 **40**: 15-34.
4. 加藤直広, 野間久史, 長島健悟. (2019). 大規模推測における最適なランキングと選択の方法: ベイズ流階層混合モデルの応用. 計算機統計学 **32**, 105-117.
5. 野間久史, 田中司朗, 田中佐智子, 和泉志津恵. (2013). Multiple Imputation 法によるネステッドケースコントロール研究, ケースコホート研究の解析. 計量生物学 **33**: 101-124.
6. 野間久史, 田中司朗. (2012). Multiple Imputation 法による 2 段階ケースコントロール研究の解析. 応用統計学 **41**: 79-95.

### 解説・総説論文

1. 野間久史. (2022). ネットワークメタアナリシス: 複数の治療法の有効性・有用性を系統的に比較するためのエビデンス統合の方法. *Urology Today* **29**: 85-89.
2. 野間久史. (2020). システマティックレビュー. 整形外科 **71**: 540-545.
3. 野間久史. (2020). 傾向スコアマッチング. 外科 **82**: 819-824.
4. 野間久史. (2018). 臨床研究・疫学研究における傾向スコアを用いた統計解析. 医学のあゆみ **267**: 413-419.
5. 大谷隆浩, 菅澤翔之助, 野間久史. (2018). 希少な遺伝的変異を対象とする集約型関連解析. 計算機統計学 **31**: 17-33.
6. 野間久史. (2017). 医学研究における交絡と回帰モデルによるバイアスの調整. 実験医学 **35**: 70-74.
7. 野間久史. (2017). 連鎖方程式による多重代入法. 応用統計学 **46**: 67-86.
8. 野間久史. (2017). 医学研究におけるメタアナリシス: 科学的根拠に基づく医療におけるエビデンス統合の方法. 岩波データサイエンス **5**: 130-142.
9. 野間久史. (2017). 臨床研究の計画・解析・報告における生物統計の基礎. 薬理と治療 **45**: 1615-1626.

10. 野間久史. (2015). メタアナリシスのエビデンスを正しく読み解くために ～アカデミアの生物統計家の立場から～. 薬理と治療 **43**: 615-620.
11. 野間久史. (2014). ケースコホート研究の理論と統計手法. 統計数理 **62**: 25-44.
12. 竹内文乃, 野間久史. (2014). 観察研究におけるバイアスの感度解析. 統計数理 **62**: 77-92.
13. 野間久史. (2014). Individual Participant Data に基づくメタアナリシス. 統計数理 **62**: 313-328.

## 著 書

1. 手良向聡, 山本景一, 河野健一. (編著) (2023). ヘルスデータサイエンス入門 (分担執筆). 東京: 朝倉書店.
2. 星野崇宏, 繁杣算男. (監修) (2023). インベンス・ルービン 統計的因果推論 (分担翻訳). 東京: 朝倉書店.
3. 前田圭介, 室谷健太. (編著) (2020). 臨床研究アウトプット術 (分担執筆). 東京: 中外医学社.
4. 川上浩司, 漆原尚巳, 田中司朗 (監修). (2019). ストロムの薬剤疫学 (分担翻訳). 東京: 南山堂.
5. 榊佳之, 松原謙一, 佐藤孝明. (監修) (2018). プレシジョン・メディシンービッグデータの構築・分析から臨床応用・課題まで. 東京: エヌ・ティ・エス.
6. 平川晃弘, 五所正彦 (監訳). (2018). 臨床試験のためのアダプティブデザイン (分担翻訳). 東京: 朝倉書店.
7. 高井啓二, 星野崇宏, 野間久史. (2016). 欠測データの統計科学: 医学と社会科学への応用. 東京: 岩波書店.
8. 五所正彦 (監訳). (2014). 生存時間解析入門 (分担翻訳). 東京: 東京大学出版会.