

Aldilas Achmad Nursetyo

RESEARCHER & TECHNICAL OFFICER

Center for Tropical Medicine, Universitas Gadjah Mada | ASEAN Biobiaspora Virtual Center

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Education

Faculty of Medicine and Health Sciences, Universitas Muhammadiyah Yogyakarta

BACHELOR OF MEDICINE

Yogyakarta, Indonesia

2007-2012

Faculty of Medicine and Health Sciences, Universitas Muhammadiyah Yogyakarta

MEDICAL DOCTOR

Yogyakarta, Indonesia

2012-2014

Graduate Institute of Biomedical Informatics, Taipei Medical University

MASTER OF SCIENCE (BIOMEDICAL INFORMATICS)

ROC Taiwan

2017-2019

Employment

ASEAN Biological Threats Surveillance Centre

TECHNICAL OFFICER

Jakarta, Indonesia

2023-present

- Responsible for developing surveillance data standards for ASEAN region
- Develop Standard Operating Procedure for infectious disease surveillance data sharing in ASEAN region
- Responsible for data collection and analysis of biological threat based on epidemic intelligence

Center for Tropical Medicine, Universitas Gadjah Mada

RESEARCHER

Yogyakarta, Indonesia

2020-present

- AI for Pandemic Preparedness Project (AI4PEP) Project: as Program Manager handle communication with donors from IDRC and UK FCDO; develop implementation roadmap for artificial intelligence in pilot site (Yogyakarta Special Province) using AI-based forecasting platform and LLM-based syndromic surveillance to enhance capacity in predictive analysis to prevent infectious disease outbreak

World Bank Group

CONSULTANT

Jakarta, Indonesia

2021-2024

- Provide technical assistance on interoperability in Satu Sehat using FHIR
- Provide technical assistance for interoperability between TB reporting, Satu Sehat Platform, and BPJS

Center for Health Policy and Management, Universitas Gadjah Mada

RESEARCHER

Yogyakarta, Indonesia

2017-2023

- INSPIRASI Project: Analyse Indonesia national health insurance claims on capability to monitor potentially outbreak infectious disease surveillance using time series analysis and data visualization. Designing dashboard presentation of infectious disease surveillance using Indonesia national health insurance claims data to support potentially outbreak infectious disease surveillance program in Indonesia. Writing scientific publication on quality of Early Warning and Response System reporting in primary health care facility. Writing policy brief on implementation of Public Health Emergency Operation Center in regional settings.
- As Co-Principal Investigator for evaluation of healthcare system gaps with a focus on IBD, cancer, rare diseases and PDT treatment in Indonesia funded by African Medical Research Foundation (AMREF).
- Developing monitoring and evaluation system for family planning program in National Family Planning Coordinating Agency (BKKBN)

Sinergi Sehat Indonesia

RESEARCHER

Yogyakarta, Indonesia

2020-2023

- Conducting Post-Abortion Care Supply Chain Management assessment in Indonesia involving MoH, public health office staffs, public health center staffs, hospital staffs, and post-abortion care logistics supplier.; Responsible for designing methodology and instruments.; Responsible for data quantitative and qualitative data collection and analysis.
- Develop assessment tools analyse quantitative and qualitative analysis on evaluation of TB Children program in Indonesia

Apotek Viva Generik

GENERAL PRACTITIONER

Yogyakarta, Indonesia

2020-2021

- Medical doctor

International Center for Health Information Technology, Taipei Medical University

RESEARCH ASSISTANT

Taipei, ROC Taiwan

2018-2019

- Assist in developing predictive modelling especially in chronic diseases such as cancer and chronic kidney diseases

Publications

1. Hardhantyo, M., Djasri, H., Nursetyo, A. A., Donna, B., Ariani, M., Pangaribuan, H., Yogadhita, G. Y., Yulianti, A., & Adipradipta, B. R. (2023). Evidence-Based Policy Recommendations for Public Health Emergency Operation Centers in Regional Settings: A Case Study in Indonesia. *Public Health Reviews*, 44, 1604899. <https://doi.org/10.3389/phrs.2023.1604899>
2. Uddin, M., Nursetyo, A. A., Iqbal, U., Nguyen, P.-A., Jian, W.-S., Li, Y.-C., & Syed-Abdul, S. (2023). Assessment of effects of moon phases on hospital outpatient visits: An observational national study. *AIMS Public Health*, 10(2), 324–332. <https://doi.org/10.3934/publichealth.2023024>
3. Rahmanti, A. R., Yang, H.-C., Bintoro, B. S., Nursetyo, A. A., Muhtar, M. S., Syed-Abdul, S., & Li, Y.-C. J. (2022). SlimMe, a Chatbot With Artificial Empathy for Personal Weight Management: System Design and Finding. *Frontiers in Nutrition*, 9, 870775. <https://doi.org/10.3389/fnut.2022.870775>
4. Rahmanti, A. R., Chien, C.-H., Nursetyo, A. A., Husnayain, A., Wiratama, B. S., Fuad, A., Yang, H.-C., & Li, Y.-C. J. (2022). Social media sentiment analysis to monitor the performance of vaccination coverage during the early phase of the national COVID-19 vaccine rollout. *Computer Methods and Programs in Biomedicine*, 221, 106838. <https://doi.org/10.1016/j.cmpb.2022.106838>
5. Nanda, R. O., Nursetyo, A. A., Ramadona, A. L., Imron, M. A., Fuad, A., Setyawan, A., & Ahmad, R. A. (2022). Community Mobility and COVID-19 Dynamics in Jakarta, Indonesia. *International Journal of Environmental Research and Public Health*, 19(11), 6671. <https://doi.org/10.3390/ijerph19116671>
6. Hardhantyo, M., Djasri, H., Nursetyo, A. A., Yulianti, A., Adipradipta, B. R., Hawley, W., Mika, J., Praptiningsih, C. Y., Mangiri, A., Prasetyowati, E. B., & Brye, L. (2022). Quality of National Disease Surveillance Reporting before and during COVID-19: A Mixed-Method Study in Indonesia. *International Journal of Environmental Research and Public Health*, 19(5), 2728. <https://doi.org/10.3390/ijerph19052728>
7. Dovgan, E., Gradišek, A., Luštrek, M., Uddin, M., Nursetyo, A. A., Annavarajula, S. K., Li, Y.-C., & Syed-Abdul, S. (2020). Using machine learning models to predict the initiation of renal replacement therapy among chronic kidney disease patients. *PLOS ONE*, 15(6), e0233976. <https://doi.org/10.1371/journal.pone.0233976>
8. Syed-Abdul, S., Malwade, S., Nursetyo, A. A., Sood, M., Bhatia, M., Barsasella, D., Liu, M. F., Chang, C.-C., Srinivasan, K., M., R., & Li, Y.-C. J. (2019). Virtual reality among the elderly: A usefulness and acceptance study from Taiwan. *BMC Geriatrics*, 19(1), 223. <https://doi.org/10.1186/s12877-019-1218-8>
9. Putra, F. R., Nursetyo, A. A., Thakur, S. S., Roy, R. B., Syed-Abdul, S., Malwade, S., & Li, Y.-C. J. (2019). Prediction of Clinical Events in Hemodialysis Patients Using an Artificial Neural Network. *Studies in Health Technology and Informatics*, 264, 1570–1571. <https://doi.org/10.3233/SHTI190539>
10. Nursetyo, A. A., Syed-Abdul, S., Uddin, M., & Li, Y.-C. J. (2019). Graft Rejection Prediction Following Kidney Transplantation Using Machine Learning Techniques: A Systematic Review and Meta-Analysis. *Studies in Health Technology and Informatics*, 264, 10–14. <https://doi.org/10.3233/SHTI190173>
11. Thakur, S. S., Abdul, S. S., Chiu, H.-Y. (Shannon), Roy, R. B., Huang, P.-Y., Malwade, S., Nursetyo, A. A., & Li, Y.-C. (Jack). (2018). Artificial-Intelligence-Based Prediction of Clinical Events among Hemodialysis Patients Using Non-Contact Sensor Data. *Sensors*, 18(9), 2833. <https://doi.org/10.3390/s18092833>
12. Malwade, S., Abdul, S. S., Uddin, M., Nursetyo, A. A., Fernandez-Luque, L., Zhu, X. (Katie), Cilliers, L., Wong, C.-P., Bamidis, P., & Li, Y.-C. (Jack). (2018). Mobile and wearable technologies in healthcare for the ageing population. *Computer Methods and Programs in Biomedicine*, 161, 233–237. <https://doi.org/10.1016/j.cmpb.2018.04.026>
13. Nurwanti, E., Uddin, M., Chang, J.-S., Hadi, H., Syed-Abdul, S., Su, E. C.-Y., Nursetyo, A. A., Masud, J. H. B., & Bai, C.-H. (2018). Roles of Sedentary Behaviors and Unhealthy Foods in Increasing the Obesity Risk in Adult Men and Women: A Cross-Sectional National Study. *Nutrients*, 10(6), 704. <https://doi.org/10.3390/nu10060704>
14. Ganapathy, K., Abdul, S., & Nursetyo, A. (2018). Artificial intelligence in neurosciences: A clinician's perspective. *Neurology India*, 66(4), 934. <https://doi.org/10.4103/0028-3886.236971>