

# Aldilas Achmad Nursetyo, M.D., M.S.

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Researcher, Center for Health Policy & Management, Universitas Gadjah Mada  
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## SUMMARY OF EXPERIENCE

Since 2015, Aldilas has been actively provide contribution and development for Indonesia Health Information System both at national and regional level, either academically through publications or direct consultancy. He has experience in developing monitoring and evaluation system in National Family Planning Coordinating Agency (BKKBN) and strengthening national disease surveillance system, especially for early warning and response system (EWARS). Recently he also active as Technical Working Group member for Indonesia National Health Information development. He also experienced in research methodology, either quantitative or qualitative methodology, while demonstrating excellence scientific writing and publication experience. Currently, he is active as researcher in Center for Health Policy and Management, Universitas Gadjah Mada, Indonesia.

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## EDUCATION

<i>Taipei Medical University, M.S. Biomedical Informatics</i>	2017-2019
<i>Universitas Muhammadiyah Yogyakarta, M.D.</i>	2013-2015
<i>Universitas Muhammadiyah Yogyakarta, Bachelor of Medicine</i>	2007-2012

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## EMPLOYMENT

### ASEAN Biodiaspora Virtual Center

Technical Officer	2023-present
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### World Bank Group

Consultant	2021-present
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### Center for Tropical Medicine, Universitas Gadjah Mada

Researcher	2020-present
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### Center for Health Policy & Management, Universitas Gadjah Mada

Researcher	2016-present
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### Apotek Viva Generik

General Practitioner	2020-2021
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### International Center for Health Information Technology, Taipei Medical University

Research Assistant	2018-2019
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### RSUD Inche Abdoel Moeis, Kota Samarinda

Internship Medical Doctor	2015-2016
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## ORGANIZATION

<i>Medical Student Association, Universitas Muhammadiyah Yogyakarta</i>	2007-2009
<i>Medical Research and Science Club, Universitas Muhammadiyah Yogyakarta</i>	2009-2012
<i>Indonesia Medical Student Executive Board Association</i>	2008-2010
<i>Asia e-Health Information Network (AeHIN)</i>	2016-present
<i>Junior Doctor Networks Indonesia</i>	2019-2023

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## PROJECTS

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### **Improving Quality of Disease Preparedness, Surveillance & Response In Indonesia (INSPIRASI)**

*Funded by CDC* 2021-2023

*Researcher* : 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.

### **Integrated Health Surveillance System Supporting Covid-19 Emergency Response Operations**

*Funded by World Bank Group* 2021-2022

*Consultant*: Analyse workflow of Allrecord TC-19, an application used by Indonesia government to collect PCR and rapid antigen result for COVID-19 surveillance. Building online user guideline for Allrecord TC-19 application to help user get the update from the app. Held two batch of one week FHIR workshops for public/private hospitals, HIMS vendors, and healthcare startups.

### **Evaluation of Healthcare Gaps in Indonesian Health System**

*African Medical and Research Foundation (AMREF)* 2022

*Co - Principal Investigator*: Assisting Principal Investigator in conducting evaluation of healthcare system gaps with a focus on IBD, cancer, rare diseases and PDT treatment in Indonesia; Developing both quantitative and qualitative data collection methods from the stakeholders including governmental authorities, public and private healthcare providers (hospitals and primary care), healthcare NGOs, pharmaceutical companies; Coordinating field researcher in conducting data collection at national and regional level.

### **Post-Abortion Care Supply Chain Management Assesment in Indonesia**

*Funded by Ipas* 2020

*Consultant* : Conducting Post-Abortion Care Supply Chain Management assesment 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.

### **Evaluation of Clinical Pathway Implementation in General Hospital in Indonesia**

*Funded by Research and Development Ministry of Health Indonesia* 2019

*Field Researcher Coordinator* : Coordinating with Principal Investigator in conducting data collection in the field; Coordination with the hospital for data collection procedure; Coordination with several enumerator for

conduction data collection; Preparing qualitative data collection report (transcription and verbatim) to Principal Investigator.

## **Developing Monitoring and Evaluation System for Family Planning Program in National Family Planning Coordinating Agency (BKKBN)**

*Funded by Bill-Melinda Gates Foundation (BMGF)*

2016-2017

*Information Technology Specialist* : Doing needs assesment on monitoring and evaluation capacity in BKKBN. Then from the assesment result, designing monitoring and evaluation information system in national, regional, and district levels.

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## **PUBLICATIONS**

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>

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>

Nanda, R. O., Nursetyo, A. A., Ramadana, 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>

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>

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>

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>

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>

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>

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>

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>

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>

Nurwanti, E., Uddin, M., Chang, J.-S., Hadi, H., Syed-Abdul, S., Su, E., Nursetyo, A., Masud, J., & 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>