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**Arie Rahadi**

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**Education****2012- 2018: Doctor of Philosophy in Public Health, University of Melbourne**

**Thesis Title:** HIV care decentralization in lower- and middle-income countries: outcomes, costs, and cost effectiveness

**Description:** Doctoral thesis in full fulfilment of the degree in public health (program evaluation and health economics) in 4 years of full-time load (with study leave in between). The research project showcases the role of primary care-based HIV services in Indonesia and sub-Saharan Africa. The body of work comprises independent studies assessing the epidemiological and economic evidence. Submissions for peer-reviewed publications are ongoing.

**2009-2011: Master of Public Health (Health Economics/Economic Evaluation), University of Melbourne (first class)**

**Thesis Title:** Methodological challenges in the economic evaluation of harm reduction.

**Description:** A 200-point coursework with a research project carrying 25 points in the final year, with health economics/economic evaluation streaming. The units completed were aimed at building competencies in epidemiology, biostatistics, and economic evaluation of health care programs.

**1998-2001: BA (Hons) in Business Administration, University of East London (at HELP University College), Kuala Lumpur, Malaysia**

**Thesis Title:** The Political Economy of Indonesia's Economic Growth: The State and Conglomerates

**Professional Experience****April 2019 – present : Senior Research Associate, IMPART (University of Illinois, Chicago and University of Indonesia)**

**Description:** Part of the research team that manages and controls the flow of recruitment and collects data on participants in a feasibility randomized controlled trial to test case referral in HIV partner notification for sexual partners of HIV-positive inmates in Jakarta. The trial aims to recruit 60 inmates and runs in August 2019 for a one-year period. Preparatory activities and staff recruitment commenced in April 2019.

**January 2019 – present : Consultant for Law Enforcement Expenditure in Indonesia, Harm Reduction International, London, UK**

**Description:** Lead consultant to coordinate and carry out a costing study of law enforcement related to enforcing the drug laws at the national level. The results of this study will inform the size of the budget allocated to punitive drug laws in comparison to the available harm reduction budget as a part of the global '10 by 20' campaign. Responsibilities include mapping of key stakeholders, development of study protocol, elicitation of expert opinions, and estimation of resource allocation to interdiction, policing, legal, and penitentiary activities.

**December 2018 – present : Senior Researcher, AIDS Research Centre, Atma Jaya Catholic University, Jakarta, Indonesia**

**Description:** Grant management, application and execution of high-quality research in HIV and marginalized populations. Current research portfolio includes **a)** Survey of stigma in people living with HIV (Global Fund); **b)** Prison cohort studies (Global Fund); **c)** Costing of violence against women in Indonesia (DFAT); and **d)** policy reviews and priority setting of HIV research agenda (UNAIDS).

**December 2018 – present : Consultant for data analysis at Centre for Health Policy and Management, University of Gadjah Mada, DI Yogyakarta, Indonesia**

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**Description:** Working for a specific project with Ministry of Women Empowerment and Child Protection on a national survey of violence on children in Indonesia. The first term has been completed in January 2019 with further analyses on predictors of violence and report drafting to conclude in June 2019.

**August 2018-October 2018: Consultant for Strategies to Improve Initiation, Retention, and Adherence to Antiretroviral Treatment, Indonesia Network of People Living with HIV (JIP), Indonesia**

**Description:** Expert consultant in mapping public health strategies to improve initiation, retention and adherence to antiretroviral treatment. The assignment drew on a systematic review of evidence on the topic in concordance with a community dialogue to rank the feasibility of the strategies found in the review

**January 2017-June 2017: Consultant for Country Review on HIV Response 2017, World Health Organization, Jakarta, Indonesia**

**Description:** Acting as one of the expert consultants to review the data collection tool, conduct data collection and analysis, as well as draft the report with a smaller editorial team over a total of 38 work days. The Country Review document highlights current key achievements and emerging gaps in national HIV programming after its last publication in 2011. Other responsibilities include setting up a cloud-based knowledge management system for the Review Team. The report was available in both Indonesian and English versions, and was approved by the Ministry of Health.

**September 2014-April 2016: Research & Evaluation Adviser, Indonesia AIDS Coalition, Jakarta, Indonesia**

**Description:** Developing a capacity for evidence-based evaluation of the organization's programmes. Key activities and policy/practice products to complete this year include: **1)** Evaluation of a national social media training for community-based organizations and health centres; **2)** Development of national guidelines on monitoring social media campaigns for HIV prevention; **3)** Guidelines for parents and guardians of children living with HIV; **4)** Studies of sentiment about pre-exposure prophylaxis, trends in antiretroviral initiation, and insurance patterns and barriers in HIV risk groups; **5)** National guideline on ICT-based HIV programming.

**January—March 2015: Technical Writer of Field Oversight Visit, Indonesia Country Coordinating Mechanism of the Global Fund to Fight AIDS, Tuberculosis & Malaria, Jakarta, Indonesia**

**Description:** Synthesis of field oversight visit reports that were conducted during 2015 and to evaluate the utility of these visits in realigning achievements towards the stated target outputs. Results from this report will be used to guide future oversight visits and fine-tune the frequency, criteria for site selection, and appropriate monitoring tools.

**June—September 2015: Consultant on Documenting Best Practices of HIV Programming in Papua Province, UNFPA, Jakarta, Indonesia.**

**Description:** As a follow-up to the final evaluation, a sub-topic evaluation for HIV programming in Tanah Papua ensued, with particular attention to documenting best practices and lessons learned that will feed into the programme design in the next Country Programme. The process involves an evaluation component and an assessment of best practices. Draft has been submitted and findings reveal a policy gap in national and local policies as related to HIV diagnosis and prevention.

**March—July 2015: Tracking National Investments in Harm Reduction (Consultant), Harm Reduction International, London, UK**

**Description:** This assignment pioneered an assessment on the estimate of harm reduction spending in Indonesia as a part of the regional effort in five other countries. The assignment comprised data collection, estimation procedures for spending in needle and syringe programme, oral substitution treatment, and antiretroviral for people who use drugs, as well as qualitative interviews with key harm reduction stakeholders to formulate sentiments of perceived importance of national harm reduction programming.

**December 2013-December 2015: Research Associate, Centre for Health Policy, Melbourne School of Population Health, University of Melbourne: Capacity Building for Health Research in Low- and Middle-Income Countries**

**Description:** Acting as the primary researcher on a research project examining the influence on funding source on the scholarship of local researchers in low- and middle-income countries. The methodologies comprise a systematic search of studies sourced from randomized clinical trials in HIV/AIDS, tuberculosis, and malaria from year 1990 up to 2013 and generalized linear models to assess the association between funding source

(USA, other foreign source, local co-financing, and full local financing) and local first authorship (proxy for local scholarship). Ad-interim findings suggest the primacy of local financing to build a robust capacity for health research leading to evidence-informed decision making.

**September-November 2014: Country Programme 8 Evaluator – ASRH and HIV Thematic Units (Consultant), UNFPA, Jakarta, Indonesia**

**Description:** External evaluator to independent programme evaluation in thematic areas of HIV and adolescent sexual and reproductive health. Task descriptions include desk-review of voluminous internal and external documents, designing an evaluation matrix and evaluation questions, conducting data collection, and drafting of the technical report. This report feeds into the composite report comprising all thematic areas for a final submission.

**March-December 2014: Principal Investigator to Endline Evaluation of Community Action on Harm Reduction (CAHR) in Indonesia, Yayasan Insan Hamdani-International HIV/AIDS Alliance, Bandung, Indonesia**

**Description:** Following the 2010 baseline evaluation this evaluation project assessed the effectiveness of a multifaceted intervention aimed at improving coverage of hard-to-reach people who inject drugs in three cities of West Java, Indonesia. Funded and managed through the Dutch Ministry of Foreign Affairs and the International Alliance on HIV/AIDS, the project was commissioned by Rumah Cemara as the linking organization and the primary implementing partner for Indonesia. This evaluation utilized a standard questionnaire looking at health behaviours and quality of life as well as supportive legal aspects among others, analysed using advanced regression techniques. Tasks included methodology development, team management, data analysis, and drafting of the final report in two series. Report available for download at [http://www.cahrproject.org/wp-content/uploads/2014/08/CAHR\\_Final\\_Report\\_Rumah-Cemara.pdf](http://www.cahrproject.org/wp-content/uploads/2014/08/CAHR_Final_Report_Rumah-Cemara.pdf)

**April-August 2013: Consultant to Economic Analysis of Treatment 2.0, World Health Organization, Ha Noi, Vietnam**

**Description:** Consultancy to assessment of economic benefits of decentralizing the antiretroviral treatment infrastructure down to primary care in two pilot provinces of Can Tho and Dien Bien. The first leg of the assignment consisted site, visits, and a situational analysis of programme settings including general recommendations for study design and methodology (April 2013, completed). The final leg will produce a study protocol to implement this economic analysis (July 2013). This assignment was a collaboration of World Health Organization, the Joint United Nations Action on HIV/AIDS, and the University of Melbourne.

**March-May 2012: Needs Assessment Consultant, Organization for Indonesia's Social Change (OPSI), Jakarta, Indonesia**

**Description:** Independent consultancy service to design and test tools and guidelines for a needs assessment analysis to be performed by the civil society organization of sex workers OPSI. The instruments were developed in close consultation with the OPSI National Secretariat and will be used to capture the future direction in human rights-based sex work advocacy effort and organization strengthening as will be reflected in the organization's Strategic Plan for the 2013-2015 period.

**November 2011-February 2012: External Evaluator, United Nations Office on Drugs and Crime (UNODC), Ha Noi, Vietnam**

**Description:** International consultancy of 28 days term for the final evaluation of the UNODC-funded Drug Abuse and HIV Prevention among Ethnic Minorities in Northwest Vietnam. Evaluating the project in entirety the scope of the evaluation includes aspects such as design, effectiveness and efficiency, relevance, sustainability, and inter-sectoral cooperation among others. Evaluation findings draw best practices, lessons learned, and recommendations for future project implementation. Finalized report was submitted to the Evaluation Unit and will be published on the UNODC website. Full report is available for download at [http://www.unodc.org/documents/evaluation/ProjEvals2012/H68\\_J04\\_Terminal\\_Report\\_February\\_20\\_2012\\_rev.pdf](http://www.unodc.org/documents/evaluation/ProjEvals2012/H68_J04_Terminal_Report_February_20_2012_rev.pdf).

**Main tasks:**

- Desk review of project documents and other relevant literature (November 2011)
- Designed the evaluation plan, methodologies, and study instruments in the inception phase (November 2011).
- Qualitative data collection during field visit in Vietnam (November-December 2011).
- Data analysis and drafting of the final evaluation report (January-February 2012).

### March-September 2011: Research Assistant, Centre for International Health, Burnet Institute

**Description:** Working with Principal Fellow Dr Chris Morgan in the final evaluation of Improving Immunisation and Newborn Survival at the Aid Post Level in Papua New Guinea (IINSP). The evaluation examined the cost and effectiveness of an intervention package for newborns with focus on the feasibility of a vaccine-prefilled, auto-disable device (UniJect) for use in the community setting to improve birth-dose hepatitis B vaccination coverage. The report was submitted and approved by the World Health Organization Country Office.

#### Main tasks:

- Conducted a literature review on methodologies and methods.
- Designed and performed costs and effectiveness data collation.
- Drafted methods, results, and discussion sections of paper.

### Areas of Expertise

- Program monitoring and evaluation
- Impact assessment of public health programs.
- Health care systems strengthening.
- Epidemiology of injecting drug use.
- Social determinants of injecting drug use.
- Infectious disease epidemiology.

### Awards, Grants, and Scholarships

- Australian Development Scholarship (AusAID-sponsored master education), 2009-2011.
- National AIDS Commission research grant: "Costs and Health Consequences of Criminalizing Commercial Sex."  
Single PI, Total Award Amount of AUD 16,500 for the period 04/2011-04/2012
- Melbourne International Research Scholarship and Melbourne International Fee Remission Scholarship, (Doctor of Philosophy education funded by the University of Melbourne), 2012-2016.
- Nossal Global Health Scholar (Partial living expenses towards PhD candidature), 2014-2015.

### Publications

Kelagher, M, Ng, L., Knight, K. & **Rahadi, A.** Equity in Global Health Research in the New Millennium: Trends in First-Authorship for Randomized Controlled Trials among Low- and Middle-Income Country Researchers 1990-2013. *International Journal of Epidemiology*; 45(6):2174-83.

### Selected presentations and reports

1. **Rahadi, A.**, Nevendorff, L., Wirastra, Y., Norilla, F. & Wardhana, A. *Time since Diagnosis to ART Initiation in Indonesia: Implications for Care Linkages*. Poster presentation at XXI International AIDS Conference, Durban, South Africa, July 19, 2016.
2. **Rahadi, A.**, Risetiyabudi, B., Sitompul, B., Widodo, D. & Wardhana, A. *Capacity Building of Social Media in the HIV Community Sector: Evaluation Report*. Jakarta: IAC & SEATTI. 2015.
3. **Rahadi, A.** and Putra, A.L. *Increasing Access to Antiretroviral Treatment: A View on Resource Distribution through Health Subsidies*. Oral presentation at the International Congress on AIDS in Asia and the Pacific VIII, Colombo, Sri Lanka, August 21, 2007.
4. Blogg, J.W., **Rahadi, A.**, Winarso, I., and Blogg, S. *Opioid Substitution Therapy and Continued Injecting Drug Use: Three Provinces in Indonesia*. Oral presentation at International Congress on AIDS in Asia and the Pacific IX, Denpasar, Indonesia, August 12, 2009.
5. Darmawi, V.\*, Blogg, S., Putra, A.L., Angela, R., Nevendorff, L., and **Rahadi, A.** *Sentinel Surveillance Survey Evaluation of IDU Injecting Behaviour, Condom Use in Jakarta and West Java*. Oral

presentation at International Congress on AIDS in Asia and the Pacific IX, Denpasar, Indonesia, August 11, 2009.

6. Morgan, C. and **Rahadi, A.** *Costs and Outcomes Analysis – Improving Immunisation and Newborn Survival at the Aid Post Level in Papua New Guinea*. Report submitted to the World Health Organization Western Pacific Regional Office, Melbourne: Burnet Institute, September 2011.
7. Hoffman, K. and **Rahadi, A.** *Terminal Evaluation Report: Technical Assistance to Treatment and Rehabilitation at Institutional and Community Level (Project VIE/H68) and Drug Abuse and HIV Prevention among Ethnic Minorities in Northwest Vietnam (Project VNM/J04)*. Ha Noi: United Nations Office on Drugs and Crime, February 2012.

## Reviewer

1. 10<sup>th</sup> World Congress – Health Economics in the Age of Longevity: A Joint International Health Economics Association (iHEA) & European Conference on Health Economics (ECHE) Congress, Dublin, Ireland. 2014.
2. National Harm Reduction Conference, Makassar, Indonesia (member of abstract review committee). 2008.

## Recent Training

**Online course access (2015): (1) Introduction to Machine Learning in R; (2) Machine Learning and Statistical Modeling with R. Udemy**

**Description:** These courses provide an overview of the state-of-the-art methodology in data science and big data using advanced statistical algorithms for outcome or trend predictions. The courses come with introductory Python and a review of standard statistical approaches in comparison with the novel big data approach. Courses are delivered online, self-paced, with open communication with the instructors.

**29 June – 3 July 2015 : Discrete Choice Analysis Course, Institute of Transport and Logistic Studies, The University of Sydney**

**Description:** The course taught the underlying theory and practical skills in preference measurement using a variety of econometric techniques. Nested logit models, orthogonal and efficient design, estimating willingness-to-pay were among the main topics covered in this one-week course. My motivation with this course was to be able to master practical skills in assessing the trade-off between early treatment initiation and future prognosis in chronic treatment.

**20-22 October 2013: Practical Methods for Health Economic Evaluation, University of Melbourne.**

**Description:** Essential health economic evaluation skills covering methodological aspects for effectiveness and cost analyses. Training modules aim to reinforce understanding of survival analysis and cost distribution, as well as to gain practical skills in economic modelling using Treeage.

**1-5 August 2011: Comprehensive Systematic Review Training Programme, The Joanna Briggs Institute, The University of Adelaide.**

**Description:** Training modules included overview of evidence-based healthcare, the appraisal, extraction and pooling of quantitative/qualitative data. Data management and analysis using third-party packages (JBI SUMARI and JBI CREMS) is an essential part of the training content.

## Related Professional Experience

**2007-2009: Harm Reduction Provincial Technical Officer, HIV Cooperation Program for Indonesia – AusAid, Bandung, Indonesia**

- Liaisoned with grant partners (local NGOs and government health offices) on behalf of Provincial AIDS Commission in planning, coordinating, and monitoring harm reduction program in West Java Province.
- Developed action plan 2008-2012 for harm reduction program expansion in West Java.

- Completed the first stage of methadone pharmacotherapy expansion to seven service points in five cities of West Java.
- Conducted annual behavioural surveillance survey of injecting drug users in 2008 and 2009 with grant partners.

**2004-2006: Case Manager, Syahrullah Afiat Foundation – Funded by GFATM, Jakarta, Indonesia**

- Conducted outreach and case management of HIV-infected population and injecting drug users (IDUs).
- Established the foundation's case management and referral system for IDUs and their partners.

**2002-2003: Addiction Counsellor, Marzoeki Mahdi Drug Treatment Centre, Bogor, Indonesia**

- HIV and addiction counselling and liaising residents with their families for post-discharge care and support.

## Skills

### Research Skills:

- Solid knowledge of health research methodologies
- Evidence synthesis and meta-analysis
- Experienced user of Stata (proficient at R)
- Data and information collection and presentation
- Writing and presenting research reports.

### Computer Skills:

- Microsoft office family and the Internet.
- Experienced database programming with Microsoft Access and advanced spreadsheet analysis with Microsoft Excel.
- Treeage Pro Suite for modelling analysis.

### Other Skills:

- *Facilitation skills:* I have led various stakeholders meetings and chaired sessions of national seminars related to HIV.
- *Other languages:* I have fluency in Indonesian and a reasonable understanding of conversational Mandarin.

## Affiliations and Memberships

- International Health Economics Association.
- The Joanna Briggs Institute.
- AusAID Scholarship Alumni Network.
- Harm Reduction International.

## References

**1. Ignatius Praptorahardjo, PhD**

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