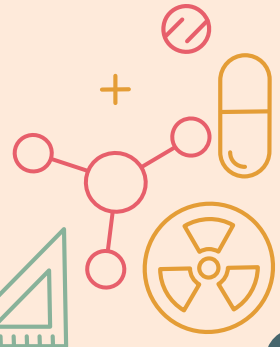




The Role of Collaboration in Improving Research Quality

Prof. Dr. dr. Dwiana Ocviyanti, SpOG(K), MPH.

Vice Dean of Academic, Research, and Student Affairs
Faculty of Medicine, University of Indonesia





Collaborative Research

Working together in a **joint intellectual effort** in production of **knowledge** and **innovation** for a common purpose or benefit.





Types of Collaborative Research

Within academic institutions

Between academic institutions

Academic institutions and government agency

Academic institutions and industry

Domestic and international



Urgency of Collaborative Research

- Increasingly **interdisciplinary, complex, and costly** characteristics of modern science.
- Various government policies **solving complex problems**.
- More **credibility** and **validity** to the project if investigators with specific experience are involved.
- Some **funding agencies** favor interdisciplinary research teams.




RISTEK-DIKTI

PRIORITAS RISET NASIONAL 2020-2024
Pelaksanaan Tahun Anggaran 2020

Jakarta, 2 Oktober 2019

Menteri Riset, Teknologi, dan Pendidikan Tinggi

National Research Priority
This roadmap is designed to enhance **holistic** and **collaborative** research



Impact of Collaborative Research





Collaborative Research Outcomes

Government/Industrial Perspectives

- **Access** to university graduates from various disciplines to **support research, development, and commercialization** of new improved products, process, and services.
- Access to **funding to scale-up** of new concept.
- Creation of **jobs**.
- Attract **investment**.

Academic Perspectives

- Identification of **new leading-edge research** areas.
- Increased **publications** and **citations** opportunity.
- Ability to **evidence translation** of **academic research** into enterprise, innovation and commercialization.
- Increased **capture of research funding**.





Collaborative Research *Impact for Researcher*



Key mechanism for mentoring graduate students and postdoctoral researchers

Enhancing the productivity of individual scientists





Collaborative Research *Impact for Institution*



New-leading
edge research
areas

Publications
and citations

Patents and
license
agreements

Research
funding





Collaborative Research Impact for Country/Government



Creation of jobs

Attract of investment

Solving complex problems





Mutual Partnership

University of Indonesia – University of Melbourne





University of Melbourne



<https://www.unimelb.edu.au/>

1. Established in 1853, the University of Melbourne is a public-spirited institution that makes distinctive contributions to society in **research**, **learning and teaching** and **engagement**.
2. Times Higher Education World University Ranking 2020 – 2021:
 - 31st (World University Ranking 2021)
 - 1st in Australia





University of Indonesia



1. The **University of Indonesia** (Indonesian: *Universitas Indonesia*, abbreviated as **UI**) is a public university in Depok, West Java and Salemba, Jakarta, Indonesia. It is one of the oldest tertiary-level educational institutions in Indonesia.
2. The roots of UI date back to 1851. At that time, the colonial government of the Dutch East Indies established a school to train medical assistants.
3. Times Higher Education World University Ranking 2020 – 2021:
 - 801 – 1000th (World University Ranking 2021)
 - 47th (Impact Rankings 2020)
 - 162nd (Asia University Rankings 2020)





Gadjah Mada University



1. **Gadjah Mada University** is a public research university located in Sleman, Special Region of Yogyakarta, Indonesia. Officially founded on 19 December 1949, Gadjah Mada University is one of the oldest and largest institutions of higher education in the country.
2. When the university was established in the 1940s under Dutch rule, it was the first medicine faculty freely open to native Indonesians, at a time when native education was often restricted.
3. Times Higher Education World University Ranking 2020 – 2021:
 - 1001+ (World University Ranking 2021)
 - 72nd (Impact Rankings 2020)
 - 301 – 350th (Asia University Rankings 2020)





Airlangga University

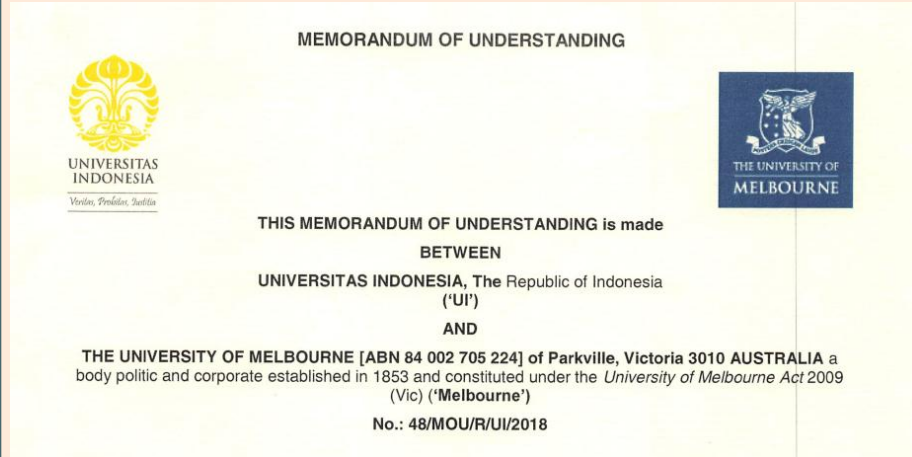


1. **Airlangga University** is the second-oldest university in Indonesia and also a public university located in Surabaya, East Java.
2. Despite being officially established by Indonesian Government Regulation in 1954, Universitas Airlangga was first founded in 1948 as a distant branch of the University of Indonesia, with roots dating back to 1913.
3. Times Higher Education World University Ranking 2020 – 2021:
 - - (World University Ranking 2021)
 - 301 – 400th (Impact Rankings 2020)
 - - (Asia University Rankings 2020)





Mutual Understanding

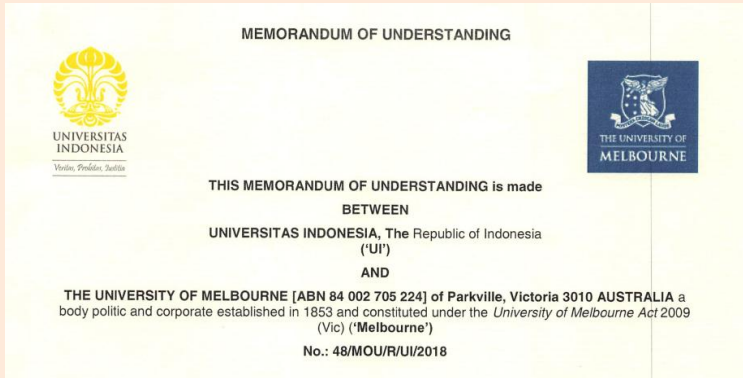


University of Indonesia and University of Melbourne have a **longstanding relationship since 1995**

This MoU recognize the value of **continued international cooperation** and wish to **recognize ongoing relationship**



Partnership Cooperation



University of Indonesia and University of Melbourne intend to support their mutual interest in the following areas

Research collaboration and/or joint research project

Promotion and support of joint PhD opportunities

Exchange of academic staff

Organization of lectures and/or symposia

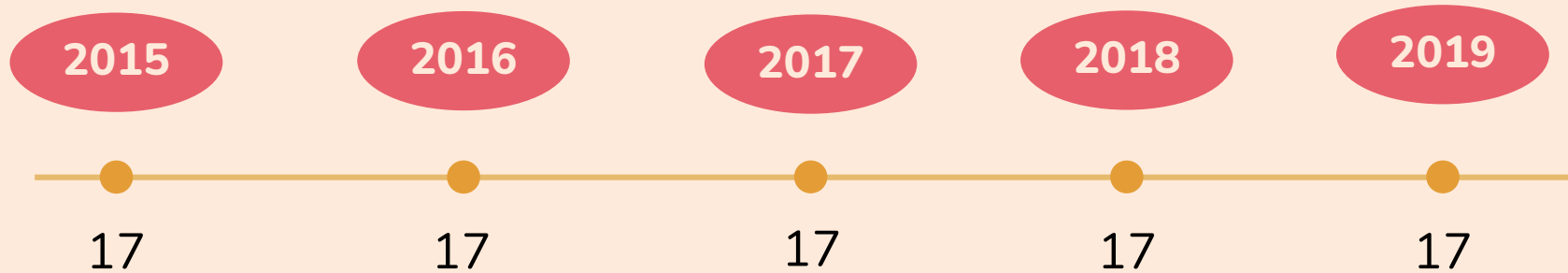
Exchange of academic information or material

Explore the development of a formal Student Exchange Program



85

Total number of FMUI students outbound in
University of Melbourne





Recent Mutual Partnership



COOPERATION AGREEMENT
BETWEEN
THE UNIVERSITY OF MELBOURNE, AUSTRALIA
AND
UNIVERSITAS INDONESIA, INDONESIA
ON
DOUBLE DEGREE

Number:
Number: 46/AOI/FK/UI/2020



Double Degree Master of Clinical Research – Specialist Program at UI (UI ClinRes) and Master of Clinical Research at University of Melbourne (MClinRes)

- The first batch of this double-degree program will start the course at University of Melbourne in January 2022.
- Slots will be opened for applicants who apply in the second term of academic year 2021 (July/August).

This programme provides students with a **broad understanding** of the discipline and **practice of research** in a clinical context.



Mutual Partnership

Gadjah Mada University – University of Melbourne



Mutual Research Collaboration



BERANDA > KERJASAMA > UGM KOLABORASI RISET DENGAN THE UNIVERSITY OF MELBOURNE DAN UI

UGM Kolaborasi Riset Dengan The University of Melbourne dan UI

🕒 31 May 2018, 10:09 WIB 👤 Oleh: Ika 👁 1891 🟡 0 📄 PDF Version



Research collaboration by UGM, UI, and University of Melbourne in Australia-Indonesia Centre (AIC) Strategic Research Project SRP 3 Team

This collaborative research is focused on **port competitiveness and financing**



Inbound Activities



Research Collaboration Between UGM and University of Melbourne



Studium Generale from University of Melbourne in UGM





Mutual Partnership

Airlangga University – University of Melbourne



Mutual Partnership

UNIVERSITAS AIRLANGGA | Institut Ilmu Sosial & Ilmu Politik

FISIP UNAIR JADI MITRA STRATEGIS
UNIVERSITY OF MELBOURNE

Rabu, 17 Juli 2019

Tweet Share Print

Surabaya - Humas | FISIP Unair terus berkomitmen untuk memperkuat kerja sama internasional. Pada hari Senin (15/7), FISIP Unair



Memorandum of Understanding (MoU) between University of Melbourne with Faculty of Social Science and Politics, Airlangga University

This MoU has **made UNAIR as one of strategic partner** to University of Melbourne beside UI and UGM



Longstanding Collaboration



Partnership of University of Melbourne and Faculty of Medicine, Airlangga University

Double Degree Program for undergraduate students to get Bachelor of Medicine Degree in University of Melbourne





PRIME

Partnership in Research
Indonesia and Melbourne





Background



Indonesia's Burden of Disease (BoD)

- Communicable diseases
- Maternal and neonatal health
- Nutritional status

UHC (2014) → healthcare challenges

- **Roll-out** of primary care services,
- BoD plus a **shift of disease** pattern to NCD
- **Sustainability** of health care services in an ever-growing population
- **Evidence informed health workforce** to manage challenges

2020 COVID-19 pandemic which leads to the **crisis** of health and economics

There's an **urgent need to invest** on **quality of health system** to be **able to promptly response emerging diseases**





Aim

- The need for **high-quality research collaboration, strengthening innovation and research capabilities** through significant investment in research funding.
- Collaboration: Indonesia – Australia aims to enhance and **further strengthen the successful research collaborations.**



Indonesia:

Universitas Indonesia, Universitas Gajah Mada,
Universitas Airlangga



Australia:

University of Melbourne





Key Proposed Topic



“Health system and policy in maternal, child, and adolescent health during COVID-19 pandemic.”

Research clusters:

Health Services

Primary Care

Pediatric/
Adolescent
health

Infectious
diseases

Social

1

1

2

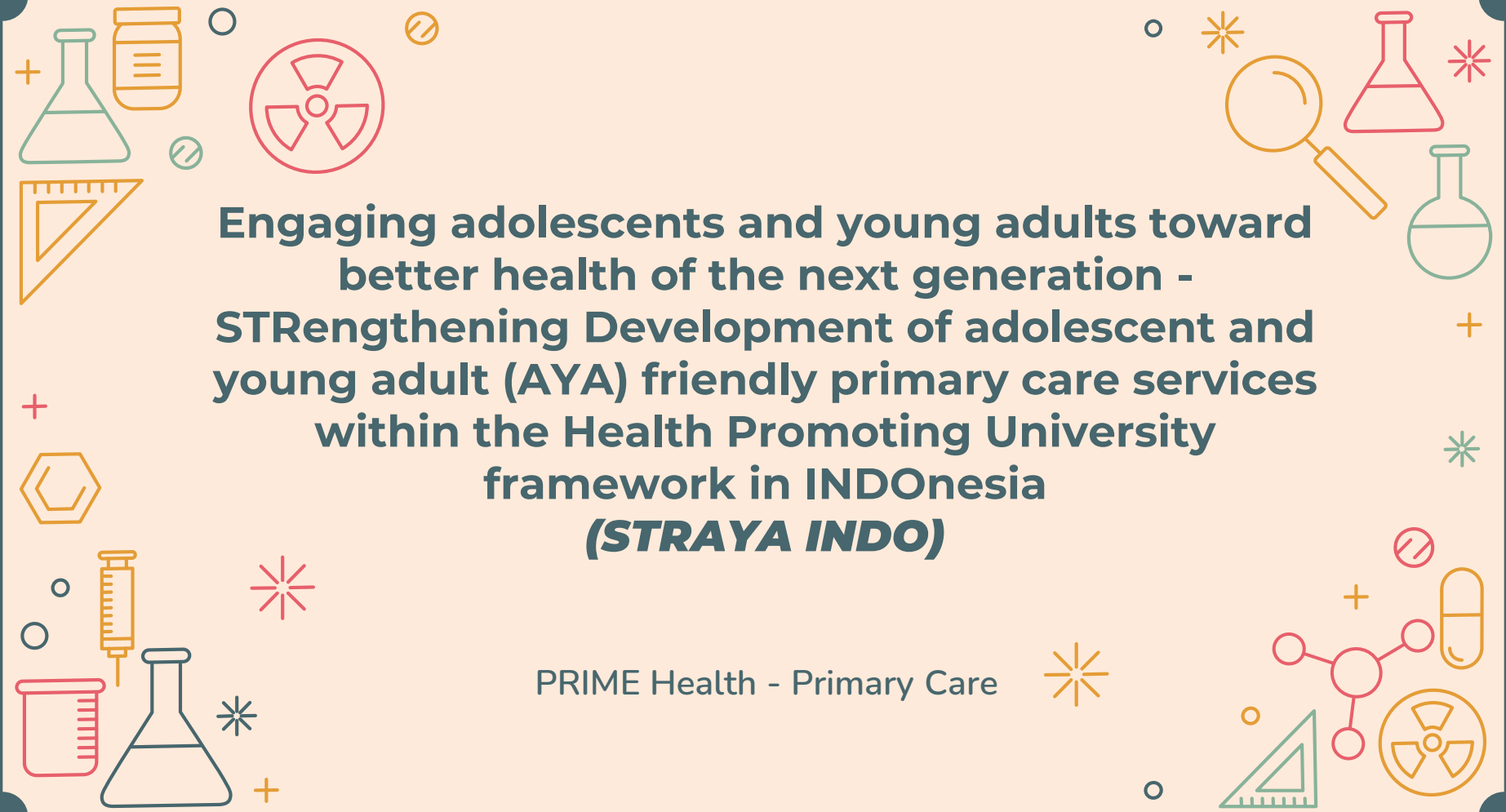
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1



PRIME- Health





**Engaging adolescents and young adults toward
better health of the next generation -
STRENGTHENING Development of adolescent and
young adult (AYA) friendly primary care services
within the Health Promoting University
framework in INDONESIA
(*STRAYA INDO*)**

PRIME Health - Primary Care



Research Team



Principal Investigator: dr. Indah Suci Widyahening, MS, MSc-CMFM, Ph.D (Faculty of Medicine, University of Indonesia)

Partner: Prof. Lena Sancu, MBBS, Ph.D, FRACGP (Faculty of Medicine, Dentistry & Health Sciences, University of Melbourne)

No	Research Team	Institution
1	Dr. dr. Dhanasari Vidiawati, MSc-CMFM	University of Indonesia
2	Prof. Dr. dr. Dwiana Ocviyanti, SpOG(K)	
3	Prof. Junaiti Sahar, S.Kp, M.App.Sc, Ph.D	
4	Prof. dr. Hari Kusnanto Josef, SU., Dr.PH	Gadjah Mada University
5	dr. Fitriana Murriya Ekawati, MPH	
6	dr. Linda Dewanti, M.Kes., MHSc., Ph.D	Airlangga University
7	Dr. dr. Pudji Lestari, M.Kes	
8	Endang Retno Suryaningrum, S.Psi, M.Psych., Ph.D	



Research Team






Research Design



YEAR	STAGES	ACTIVITIES
2021	Diagnosing	Assessment of health service utilization, health issues/problems among AYA and university students (of UI, UGM, UA) and the impact of COVID 19 pandemic
	Design	Secondary data analysis from the national health insurance (comparison before and during pandemic) and university clinics
	Scholarships & training	Short course: Adolescent health, Big data analysis, Cochrane systematic review
	Output	2 manuscripts, 1 policy recommendation



Research Design



YEAR	STAGES	ACTIVITIES
2022	Diagnosing (M1-6)	Assessment of the AYA Knowledge Attitude Practice (KAP) toward health, their health issues and its related factors Assessment of AYA engagement from the Primary Health Care, AYA and stakeholders perspectives <u>Design</u> : survey to students; observation/FGD to the university clinics staffs, the AYA clients and the stakeholders
	Planning (M7-12)	Development of AYA friendly PHC model, identification of its key components, digital health system, other supporting tools <u>Design</u> : literature review, workshops, model development
	Scholarships & training	Adolescent primary care services (elective for FM residences, inbound-outbound) Short course: Implementation science, digital health
	Output	2 manuscripts, 1 AYA primary care services model

Research Design



YEAR	STAGES	ACTIVITIES
2023	Implementing	<u>Pre-implementation (M1-3)</u> : training of health care providers, training of university management, lecturers and students, training of AYA as peer-educator <u>Implementation (M4-12)</u> : pilot testing in UI, UGM, UA university clinics
	Design	Pre-post design
	Outcomes	Feasibility, appropriateness
	Scholarships & training	Adolescent primary care services (elective for FM residences, inbound-outbound), PhD research Short-course: Designing a complex intervention study
	Output	2 manuscripts, training modules, health education materials






Research Design



YEAR	STAGES	ACTIVITIES
2024	Evaluation	Pre-Implementation (M1-3): Finalization of the model based on the pilot result Implementation & evaluation of the effect of intervention in UI, UGM, UA and other universities within the HPU network (M4-12)
	Design	Comparative exploratory study
	Outcomes	Health care providers activities & practice change, AYA utilization of the services, client perspectives & satisfaction, students engagement on the health promotion activities in the campus
	Scholarships & training	Adolescent primary care services (inbound-outbound FM residence and MD students), PhD research Short-course: guidelines & policy recommendation development
	Output	2 manuscripts, 2 guidebooks, digital health model, 1 policy recommendation



Preventing the Golden Generation from Stunting and Non- communicable Diseases through Improvement of Adolescent Health (*GeNeRate*)

PRIME Health - Adolescent Health



Research Team

Principal Investigator: dr. Bernie Endyarni Medise, SpA(K), MPH (Faculty of Medicine, University of Indonesia)
Partner: Prof. Susan Sawyer, MBBS, MD, FRACP (Faculty of Medicine, Dentistry & Health Sciences, University of Melbourne)

No	Research Team	Institution
1	Prof. Dr. rer. nat. Dra. Asmarinah, M.Si.	University of Indonesia
2	dr. Yoga Devaera, Sp.A(K)	
3	dr. Frida Soesanti, Sp.A(K)	
4	dr. Mei Neni S, Sp.A(K), Ph.D – UGM	Gadjah Mada University
5	Prof. dr. Madarina Julia, Sp.A(K), MPH., Ph.D	Airlangga University
6	dr. Royke Tony Kalalo, Sp.KJ(K), FISCM	
7	Dr. dr. Nur Aisyah Widjaja, Sp.A(K)	



Research Team





Proposed Research Output

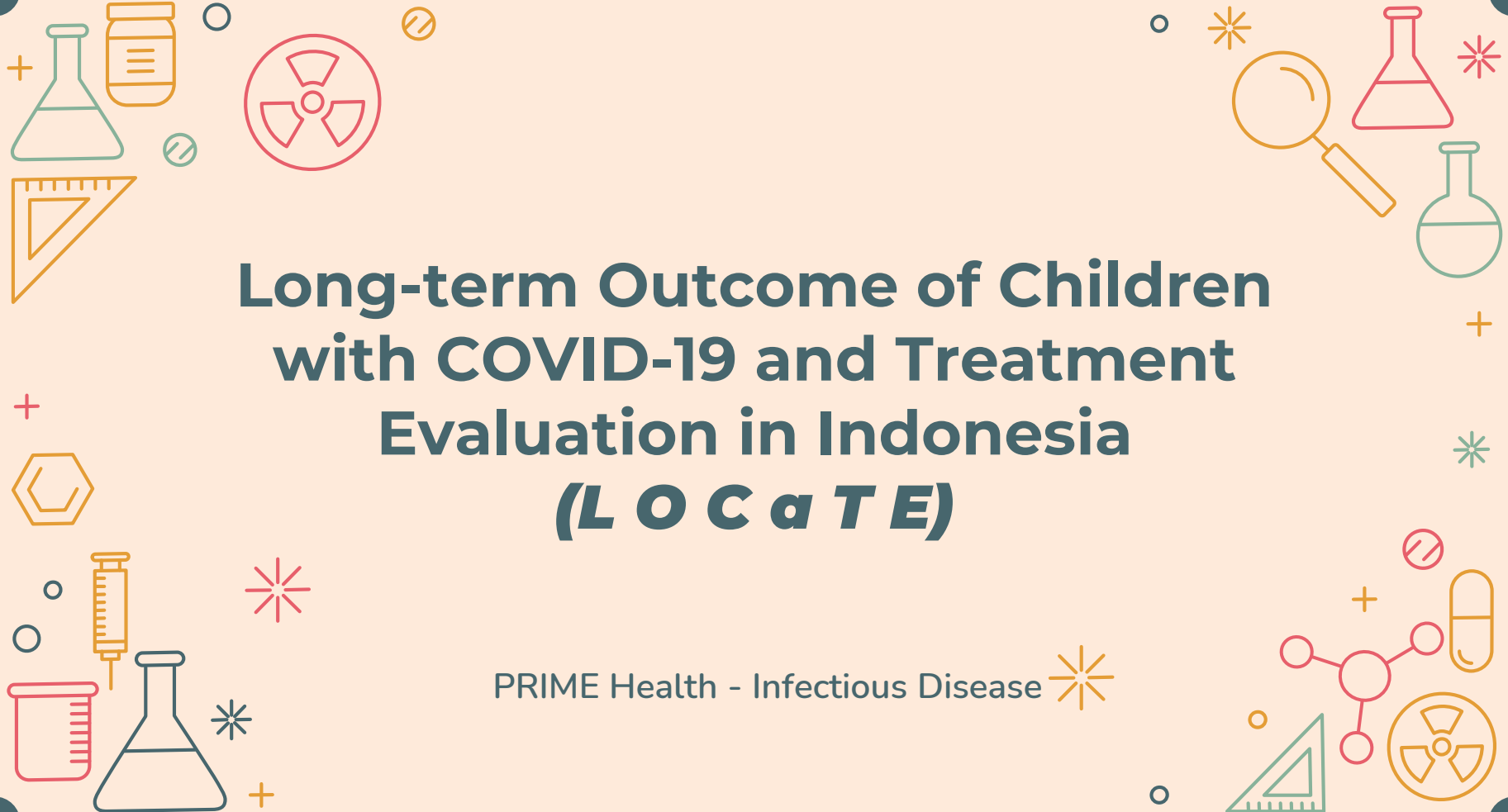


Year 1 and 2

Year 3 and 4

1. Impacts of Covid-19 pandemic in adolescents sleep patterns
2. Changes in screen time and its impacts in adolescents during Covid-19 pandemic
3. Changes of healthy lifestyles among stunted vs non stunted adolescent due to school closures during Covid-19 pandemic
4. Mental health of Indonesian adolescent related to a year long Covid-19 pandemic
5. Nutrition pattern during Covid-19 pandemic: Focus on stunted vs non stunted adolescent

1. Body composition and pubertal trajectory between stunted and non-stunted children: a cohort study
2. Pubertal trajectory in children with and without stunted
3. Bone health in adolescence based on their respective height
4. Growth pattern and its related factors among stunted and non stunted adolescents: A cohort study
5. Prevalence of vitamin D deficiency in Indonesian stunted vs non stunted adolescents
6. Zinc status and its impacts in stunted and non stunted adolescents



Long-term Outcome of Children with COVID-19 and Treatment Evaluation in Indonesia (*LOCATE*)

PRIME Health - Infectious Disease 

Research Team

Principal Investigator: Dr. Nina Dwi Putri, SpA(K), MSc (TropPaed) (Faculty of Medicine, University of Indonesia)

Partner: Prof. Julie Bines, MBBS, MD, FRACP (Faculty of Medicine, Dentistry & Health Sciences, University of Melbourne)

No	Research Team	Institution
1	DR. Dr. Ari Prayitno, SpA(K)	Universitas Indonesia
2	Prof. dr. Badriul Hegar, Ph.D, SpA(K)	
3	DR. Dr. Nastiti Kaswandani, SpA(K)	
4	DR. dr. Ida Safitri Laksanawati, SpA(K)	Gadjah Mada University
5	Dr. Rina Triasih, M.Med(Paed), PhD, SpA(K)	
6	DR. Dr. Dominicus Husada, Sp.A(K), DTM&H, MCTM (TP)	Airlangga University
7	DR. Dr. Retno Asih S, Sp.A(K)	
8	Prof. Sarath Ranganathan	University of Melbourne
9	Prof. Steve Graham	
10	Prof. Jodie McVernon, MBBS, PhD	

Research Team



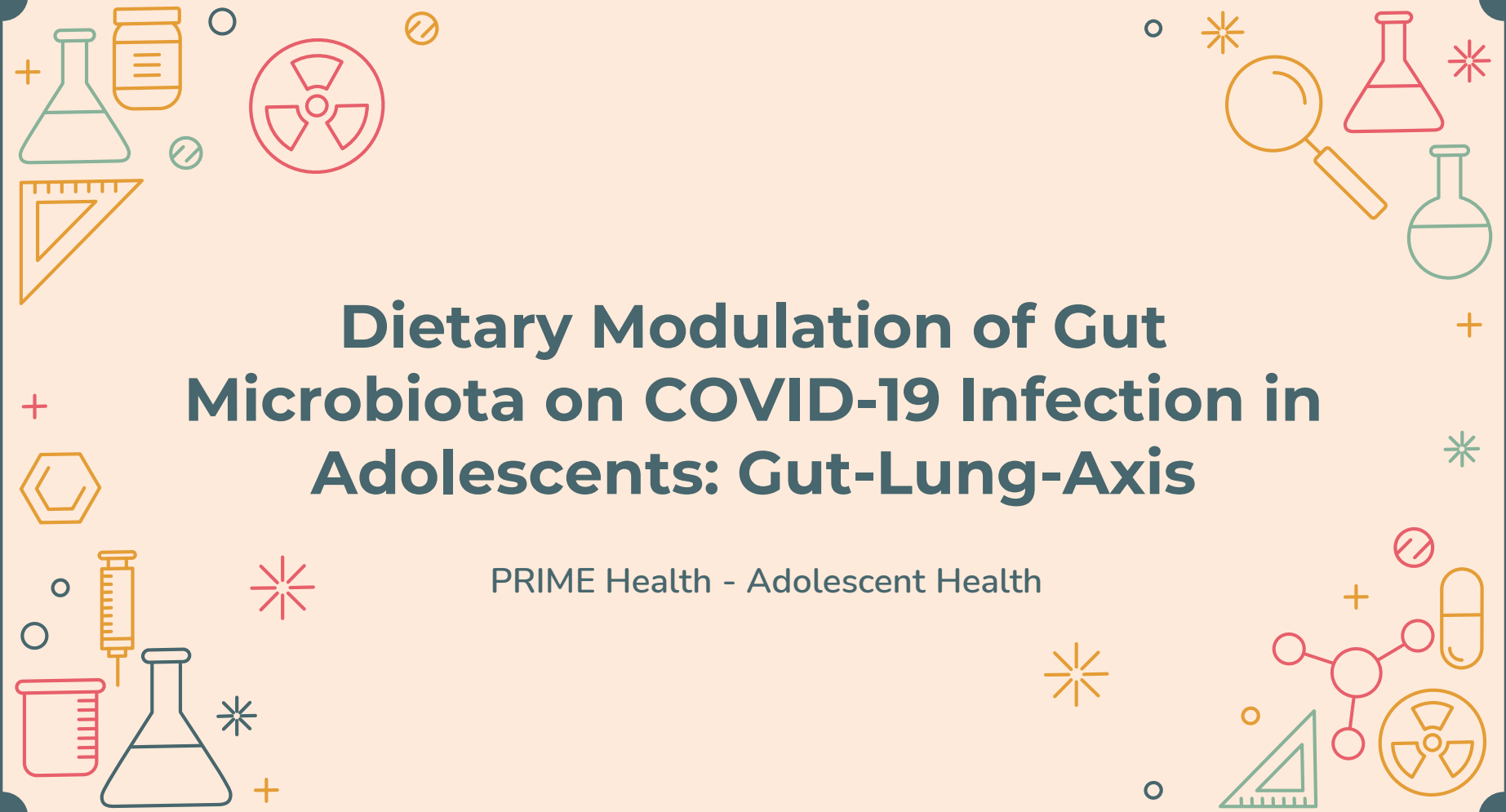
No	Publication	Year
1	Systematic review: long-term outcome of children post COVID-19 infection in Asia	2021
2	Post traumatic syndrome disorders (PTSP) after COVID-19 in children and their family	2021
3	Early and late re-infection rate in COVID-19 survivor children	2022
4	Parents point of view of COVID-19 vaccination in children	2022
5	Antibody of SARS-COV-2 in COVID-19 survivor children 1 and 2 year after infection: asymptomatic vs symptomatic	2023
6	Lung function of children after COVID-19 infection: A comparison between asymptomatic-mild, moderate, severe group	2023
7	Heart and vascular tunica intima thickness in COVID-19 survivor children: A comparison between asymptomatic-mild, moderate, severe group	2023
8	New onset of hypertension and renal function in children after COVID-19 infection	2023
9	Rate of infection in children after COVID-19 infection: focus on respiratory, dengue and other VPD	2023
10	Long-term of growth and development of neonates and infants after COVID-19 infection	2023
11	Knowledge, attitude and behavior towards COVID-19 infection in family of COVID-19 children survivor	2022
12	Two years survival analysis of children after COVID-19 infection	2023
13	Gut dysbiosis and COVID-19	2023



Impacts

- Better understanding of COVID-19 in children
- Public policy for prevention of COVID-19 infection especially in children
- Public policy for school re-opening
- Clinical guidelines
- COVID-19 vaccine baseline understanding of parents point of view as well as antibody for better implementation of vaccine in children
- Family capacity building





Dietary Modulation of Gut Microbiota on COVID-19 Infection in Adolescents: Gut-Lung-Axis

PRIME Health - Adolescent Health

Research Team



Principal Investigator: dr. Rina Agustina, MSc, PhD (Faculty of Medicine, University of Indonesia)
Partner: Prof. Julie Bines, MBBS, MD, FRACP / Prof. Susan Sawyer MBBS, MD, FRACP (Faculty of Medicine, Dentistry & Health Sciences, University of Melbourne)

No	Research Team	Institution
1	dr. Erfi Prafiantini, M.Kes	University of Indonesia
2	Prof. Dr. dr. Murdani Abdullah, SpPD-KGEH, FACG, FINASIM	
3	Prof. Dr. dr. Dwiana Ocviyanti, SpOG(K)	
4	dr. Karina Rahmadia Ekawidyani, M. Gizi (PhD student)	
5	Hanifa, M.Biomed	
6	dr. Davrina Rianda, M.Gizi	
7	Prof. dr. M. Juffrie, PhD, SpA(K)	Gadjah Mada University
8	Dr. dr. Emmi Huriyati, Mkes	
9	Harry Freitag Luglio Muhammad, S.Gz., M.Sc., R.D	
10	dr Wahyu Damayanti Sp. A(K) (PhD student)	Airlangga University
11	Dr. dr. Purwo Sri Rejeki, M.Kes	
12	Dr. dr. Lilik Djuari, Mkes	
13	dr. Dwi Susanti, MPH	
14	Triska Nindya (PhD Student at UI)	



Research Team



Research Team





Research Output



Year	Research Output
1	1. Two scientific articles: one accepted and one submitted in a reputable international journal (Q1/Q2 Scopus Indexed) with the principal investigator as the first author and/or corresponding author.
2	1. Two scientific articles: One accepted and one under-review in a reputable international journal (Q1/Q2 Scopus Indexed) with the principal investigator as the first author and/or corresponding author and written together with the Research Partners. 2. Biomedical and non-biomedical pathways of Determinants for Adolescent Health to be registered for intellectual property rights. 3. Psychosocial, Healthy Eating, and Physical Activity Training Module for Adolescent to be registered for intellectual property rights.
3	1. Two scientific articles: One accepted and One submitted in a reputable international journal (Q1/Q2 Scopus Indexed) with the principal investigator as the first author and/or corresponding author and written together with the Research Partners. 2. Policy brief on Adolescent Health transitioning to adulthood
4	1. Two scientific articles: One accepted and One submitted in a reputable international journal (Q1/Q2 Scopus Indexed) with the principal investigator as the first author and/or corresponding author and written together with the Research Partners. 2. Patent on the method of intervention and nutritional composition for reduction of COVID-19





Research Output Themes

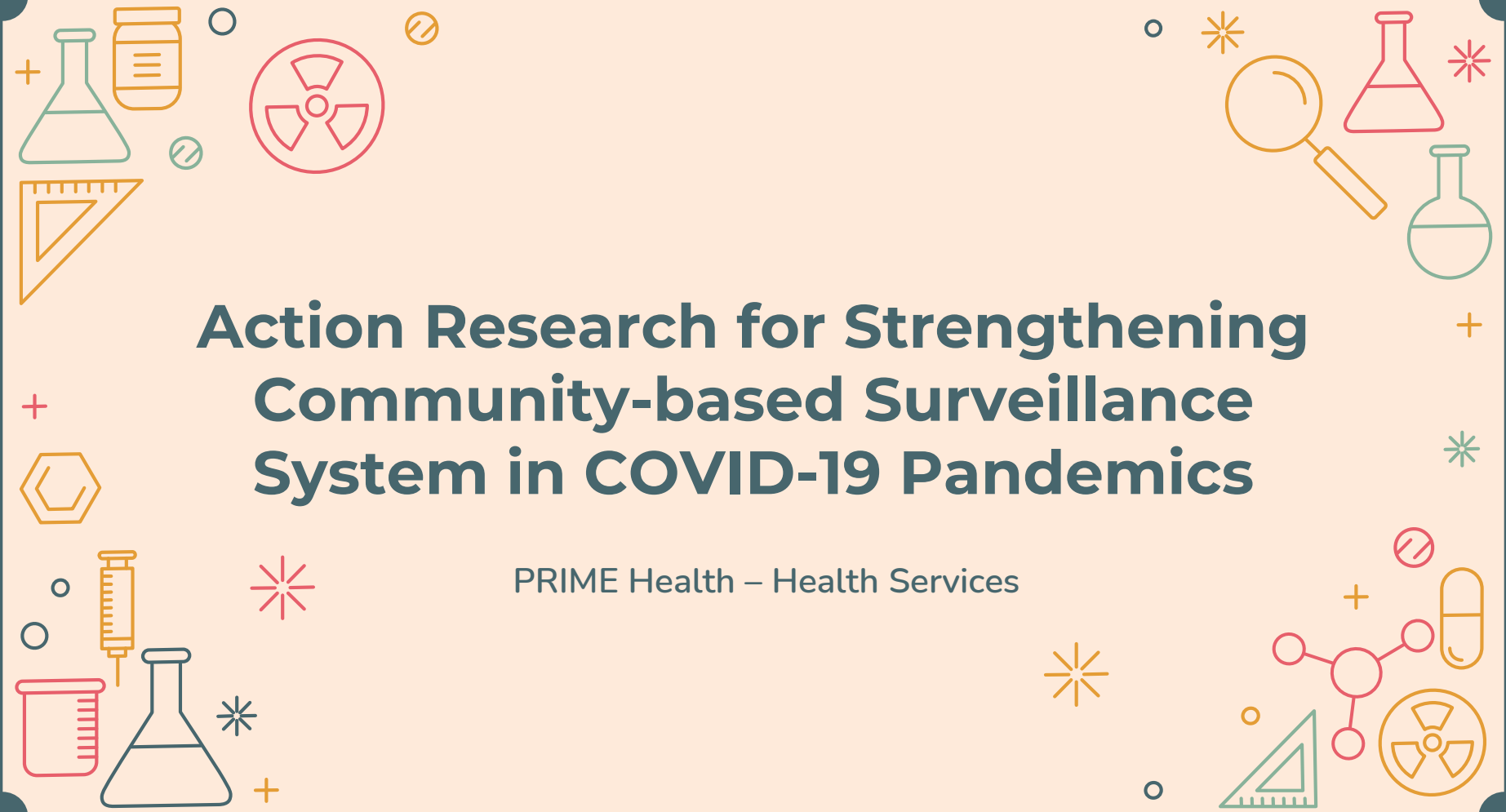
Risk factors of COVID-19 in adolescent in three big cities of Indonesia

Immune maturation of adolescents

The effect of promotion of adolescent's gut microbiota, healthy dietary trend, and activity in reducing the risk of COVID-19

The effect of promotion of adolescent's gut microbiota, healthy dietary trend, and activity on their health





Action Research for Strengthening Community-based Surveillance System in COVID-19 Pandemics

PRIME Health – Health Services

Research Team



Principal Investigator: Prof. Dr. dr. Sabarinah Prasetyo, M.Sc.(Faculty of Public Health, University of Indonesia)
Partner: Prof. Barbara McPake, BA, PhD (Melbourne School of Population and Global Health), Prof. Jodie McVernon, MBBS, PhD (Director of Epidemiology, Doherty Institute of Infection and Immunity)

No	Research Team	Institution
1	Dr. drg. Mardiaty Nadjib, MS	Universitas Indonesia
2	Dr. Dra. Dumilah Ayuningtyas, M.A.R.S	
3	Prof. dr. Asri C. Adisasmita, MPH, M.Phil, Ph.D	
4	Helen Andriani, S.Si, Apt., M.Sc, Ph.D	
5	dr. Mondastri Korib Sudaryo, MS, Ph.D	
6	dr. Yodi Mahendrata, M.Sc, Ph.D, FRSPH	Gadjah Mada University
7	dr. Tiara Mathias, MPH, Ph.D	
8	dr. Firdaus Hafidz As Shidieq, MPH, AAK, Ph.D	
9	dr. Likke Prawidya Putri, MPH	
10	Andreasta Meliala, Dr. dr. DPH., M.Kes, MAS	
11	Abdul Khairul Rizki Purba, dr., M.Sc., Sp.FK, Ph.D	Airlangga University
12	Samsriyaningsih Handayani, dr., M.Kes., M.Ed., Ph.D	
13	Dr. Joni Wahyunadi, dr., SpBS	
14	Alfian Nur Rosyid, dr., Sp.P, FAPSR	

Research Team



Research Team





Research Output



1

1. Systematic review (manuscript)
2. **Instrument development process** for measuring sustainability and acceptance of stakeholders (manuscript)
3. **Instrument validity and reliability** for measuring sustainability and acceptance of stakeholders (manuscript)

2

1. **Result of assessment** of existing community-based surveillance system (human resources, perspectives, financing, and governance) in each of study site
2. **Result of exploration** of existing community-based surveillance system (human resources, perspectives, financing, and governance) in each of study site

3

1. **Common factor and specific factors** of community-based surveillance system (human resources perspectives, financing, governance) in 3 study sites (manuscript)
2. **Result of action research** for strengthening community-based surveillance system in 3 study sites (manuscript and intellectual property)

4

1. **Result of sustainability** of proposed community-based surveillance system (manuscript)
2. **Result of acceptance** of stakeholders on proposed community-based surveillance system (manuscript)





PRIME- Social





**PRODUCING KNOWLEDGE ON ASIA FOR
INDONESIA (PRIME)**
***Asian Countries' Strategies to Cope with the
Pandemic of COVID-19***

PRIME Social




Research Team



Principal Investigator: Evi Fitriani, PhD (University of Indonesia)

Partner: Andrew Rosser, PhD (University of Melbourne)

No	Research Team	Institution
1	Shofwan Al Banna, PhD	University of Indonesia
2	Dave Lumenta, PhD	
3	Inaya Rakhmani, PhD	
4	Dr. Diahhadi Setyonaluri	
5	Endah Triasturi, PhD	
6	Dr. Suraya Affif	
7	Lugina Setyawati, PhD	
8	Dr. Phil Imam Ardhianto	
9	Dr. Phil Diana T. Pakasi	
10	Dr. Linda Savirani	Gadjah Mada University
11	Sartika Susilowati, PhD	Airlangga University
12	Prof. Vedi Hadiz	University of Melbourne
13	Dave MacRae, PhD	
14	Dr. Ariane Utomo	





Research Team



Research Team





Research Outputs

No	Research Targets	Sub-Team's Output (4 Years)	Collective Outputs
1	Asian states' policies domestically and in international relations	<ul style="list-style-type: none">• 2 Journal Articles (Q1-Q2)• 1 Policy Series• 2 Popular Articles	<ol style="list-style-type: none">1. National Book2. Naskah Akademik
2	Asian states' to cope with the pandemic of COVID-19 through border security	<ul style="list-style-type: none">• 2 Journal Articles (Q1-Q2)• 1 Policy Series• 2 Popular Articles	
3	Mutual cooperation of states with civil society organization in coping with COVID-19 pandemic	<ul style="list-style-type: none">• 2 Journal Articles (Q1-Q2)• 1 Policy Series• 2 Popular Articles	





THANK YOU

