

Acquiring Research Grants; Experience Sharing

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Presentation objectives

- Why we do research??
- Identifying main research question or problem
- Starting research activities
- Various funding sources and their challenges
- Key points on obtaining research funding
- Conclusion

Why we do research??

Research

Systematic observation and data collection

followed analysis and interpretation

to

answer a question or

solve a problem

Type of research

Basic Research

- To understand the development of disease
- To explore new markers for disease severity
- Experiment in laboratory scales

Applied Research

- Implementation of new management strategy
- Applying new diagnostic tools in real situation
- Clinical Trials: Efficacy of new drug / vaccines

*Some ethical issue
If dealing with animal studies
Or human experiments*

*Using human subjects
More consideration with ethics*

Type of research

Public health/epidemiological research

- concerned with large group of subjects
- Improving policy that affects health care system

Operational Research / Action Research

- concerned in improving health services
- to increase efficiency, effectiveness of service
- integrated with existing process

Including management issues

Why do we (want to) conduct research?

If we have a question

- The answer is important; will change how we do / think
- Have not been answered by other researcher
- Uncertainty about what we can find
- Uncertainty about the size / proportion of the findings
- What is a relation from one to another?

Why do research in Hospital/Health System?

If hospital have a problem

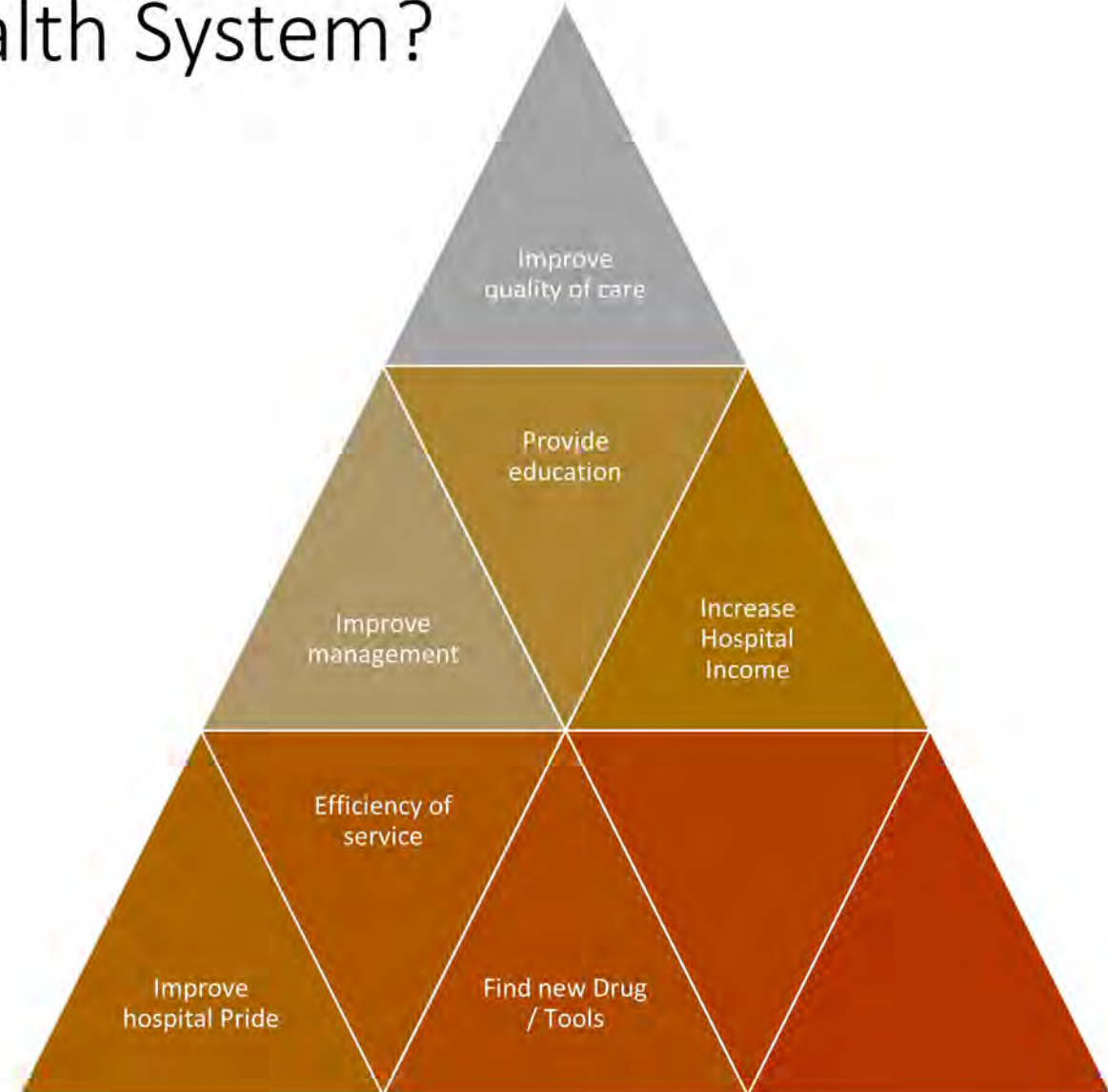
Why patient waiting hour is so long?

Why not enough doctors outside Java?

Should we just change the management?

When should we do research?

- Uncertainty about the situation
- There maybe more than one cause of the problem



Identifying your
problem/question

A good topic is a topic you like

- Based on your experience
- Develop curiosity (passionate)
- Start with discussion with colleague and your seniors

State your question

- State your initial question
- Read literatures of previous research
- Narrowing the question

No Funds is needed

Start simple

- Observe and note
- Read literature on the topic and problems
- Learn from cases
- Followed by simple case series and descriptive study
 - Learn the characteristics of the subject / condition
 - How to define and characterize
- No Funds is needed

Expanding your network & keep active

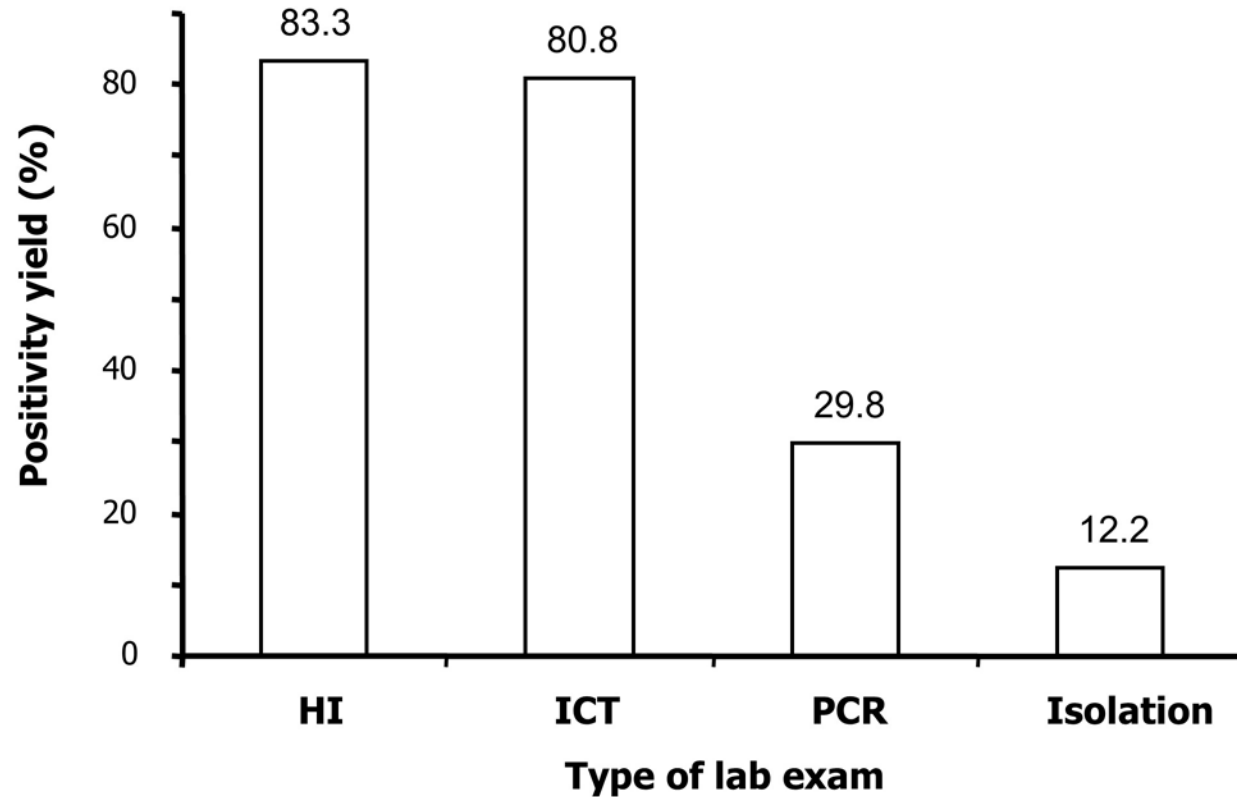
- Find friends interested in the same topic
- Usually this will lead to potential collaborator
- Or established institution

- Follow person / studies related to the topic
- Develop your research to direction that you want
- Participate in brain storm
- Participate in proposal writing if opportunity arises
- (keep your own ideas)

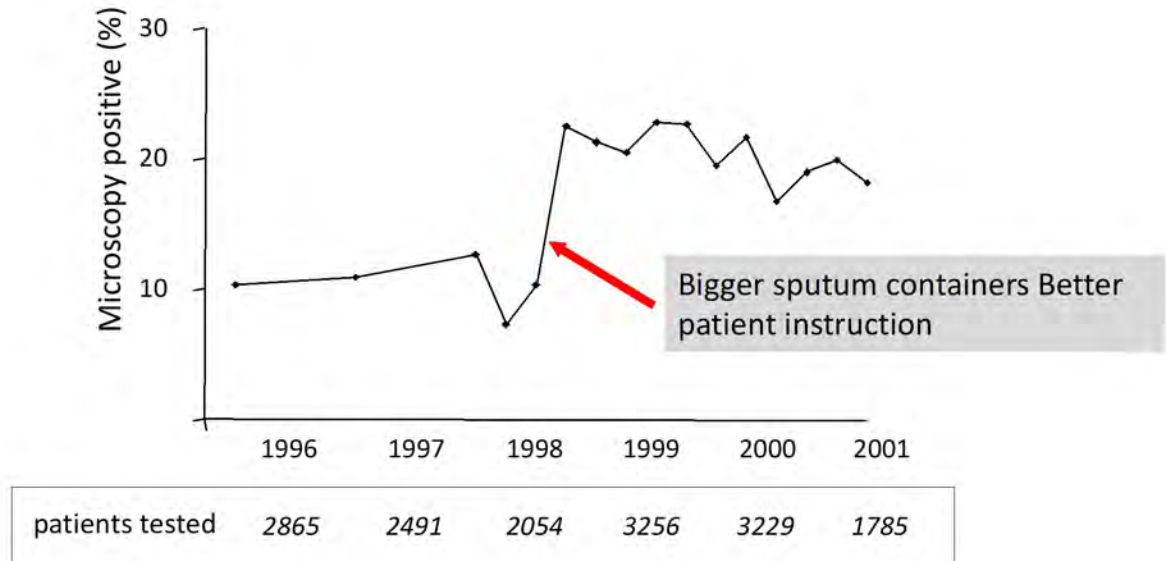
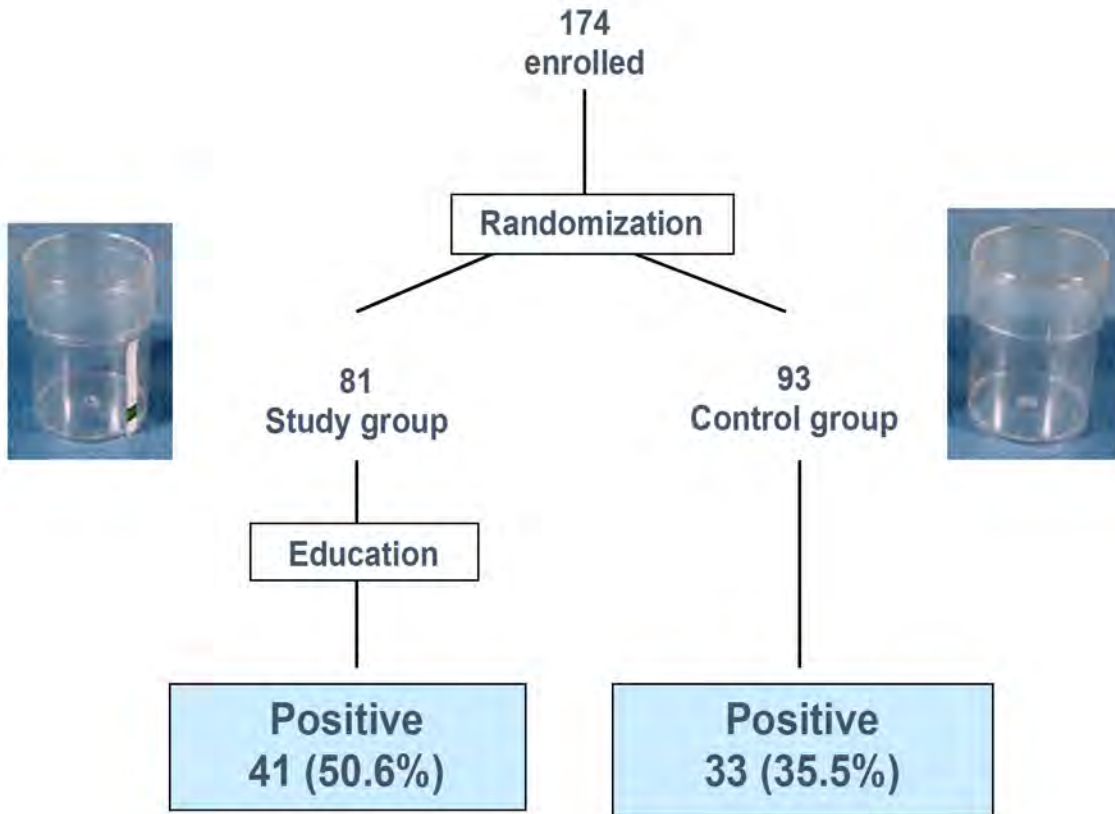
Starting your research activities

Dengue studies

- Start Small
- Learn to characterized what you observed
- Work with collaborator since beginning



Effect of education on sputum microscopy



2004 -2011; TB Research – patient care → more research

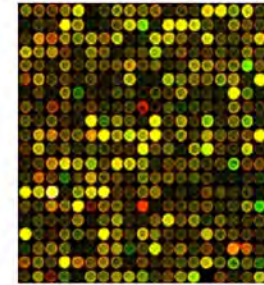


Diagnosis &
Management

Host

- Diabetes
- Immuno-genetic

Problems



Operational
Research

Bacteriology

- Diagnostic
- Clin evaluation
- Pharmaco kinetics

- Beijing genotype
- Drug susceptibility test



2011; Development of a TB-HIV research group

Collaborator:

- University Medical Center Nijmegen
- University of Otago, New Zealand
- Several other European Universities



Integrated Management for Prevention And Control for HIV-AIDS (2007-2011)



TB and Diabetes Research (2013-2017)



INA-RESPOND

NIHRD – INA-RESPOND

Siswanto
Muhammad Karyaana
Emiliana Tjitra
Vivi Lisdawati
Yenni Risniati
Widoretno
Bambang Heriyanto
Delima
Dewi Lokida
Herman Kosasih
Kanti Laras

NIAID

Clifford Lane
Sophia Siddiqui

Jakarta

Pratiwi Sudarmono
Khie Chen Lie
Anis Karuniawati
Delly Chipta Lestari
Mulya Rahma Karyanti
Suratno Lutut Ratnoglik
Caleb Leonardo Halim
Iman Teguh Badruzzaman
Budi Hartati
Alfian Makhtaromi
Fatmawati
Dewi Murniati
Iman Firmansyah
Tony Soetanto
Debby Intan Permatasari
Fadila Zitria
Handoko Setiawan
Evi Hindawati

Bandung

Bachti Alisjahbana
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Ida Parwati
Mita Puspita
Heny Yuniarti
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Irma Susan Kurnia
Syndi Nurmawati
Fritzie Cheria
Nadya Iswandari
Arief Ridho Firdaus
Hofiya Djauhari
Ernawati

Denpasar

Ketut Tuti Merati
I Made Susila Utama
I Made Gede Dwi Lingga Utama
Ni Made Adi Tarini
Ketut Jaya Ningrat
Ni Made Tys Dwi Arsanti
Ni Wayan Nilawati
Ni Nyoman Eriyanti



Makassar

Mansyur Arif
Ninny Meutia Pelupessy
Risna Halim Mubin
Nurhayana Sennang
Patricia Monica Tauran
Fatmawaty Ahmad
Munawir
Dewi Sriyanti
Ennycke Sary

Surabaya

Suharto
Usman Hadi
Dwiyanti Puspitasari
Endang Retnowati
Akbar Fahmi
M Helmi Aziz
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Retty Astringingtyas

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Muhammad Hussein Gasem
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Indri Hapsari Putri
Annisa Salmah
Venty Muliana Sari
Wang Erna
M Ridho
Wiwik Lestari
Rina Sirait

Yogyakarta

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Ida Safitri
Rizka Humardewayanti Asdie
Yuli Marwati
Yan Mardian
Luthvia Annisa
Mega Hayyu Isfiati
Umi Solekhah
Dwi Sri Winarti
Dwi Astuti Purwaningsih



Various funding sources and their
challenges

Funding Resources

International

- USAID, DFAT, European Union
- Funding agencies
 - Bill Melinda Gates Foundation
- Clinical Trial
 - Pharmacy / Industry sponsored
- Marketing grant
 - Pharmacy/ Industry Sponsored

National

- LPDP
- BPPT/BRIN
- Dirjen Pendidikan Tinggi
- Kementerian Kesehatan
- Pemerintah Daerah
- Lokal (Rumah Sakit)

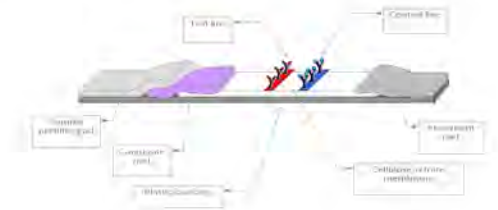
Local Funding (Kemenristek BPPT, Dikti)

- Small grant (50 -300 jt)
- Strict reporting
- Limited time to work (< 1 year)
- Data for first paper need to already be ready
- No flexibility for extension
- Topic:
 - Production oriented
 - Need to have collaboration with company

Cara pemeriksaan
FastBio-RBD



Structure Of FIA Test Kit



European funding

- Adequate grant (300 jt- > 2 Mly)
- Need to have collaborator
- MSc / PhD embedded is preferable
- Need good support from University
- MTA possible
- Topic:
 - Various topic, academic quality
 - Scientific research
 - Applied research

Concurrent Tuberculosis and Diabetes Mellitus; Unravelling the Causal Link and Improving Care

TANDEM

Concurrent Tuberculosis and Diabetes Mellitus; Unravelling the Causal Link and Improving Care

Bandung, Indonesia



Our collaborative project - TANDEM



1. LSTHM (Hazel Dockrell) – SUN
2. LSHTM (Dave Moore) – UPCH
3. RUNMC (Reiout van Crevel) – UNPAD

14 TANDEM

USAID PEER Health Grant

- Amount 700jt -1.5 Mly
- Adequate funds
- Appropriate to Indonesian problem
- Well supervised
- Lead to more projects
- Topic:
 - Applied research
 - Operational research

Role of Private Practitioner in Tuberculosis Care in Bandung, Indonesia

INvestigation of Health Services for TB by External Private providers (INSTEP) Project

Center for International Health, University of Otago, New Zealand

Harvard Medical School, Boston, USA

TB Working Group, Faculty of Medicine, Universitas Padjadjaran, Bandung-Indonesia



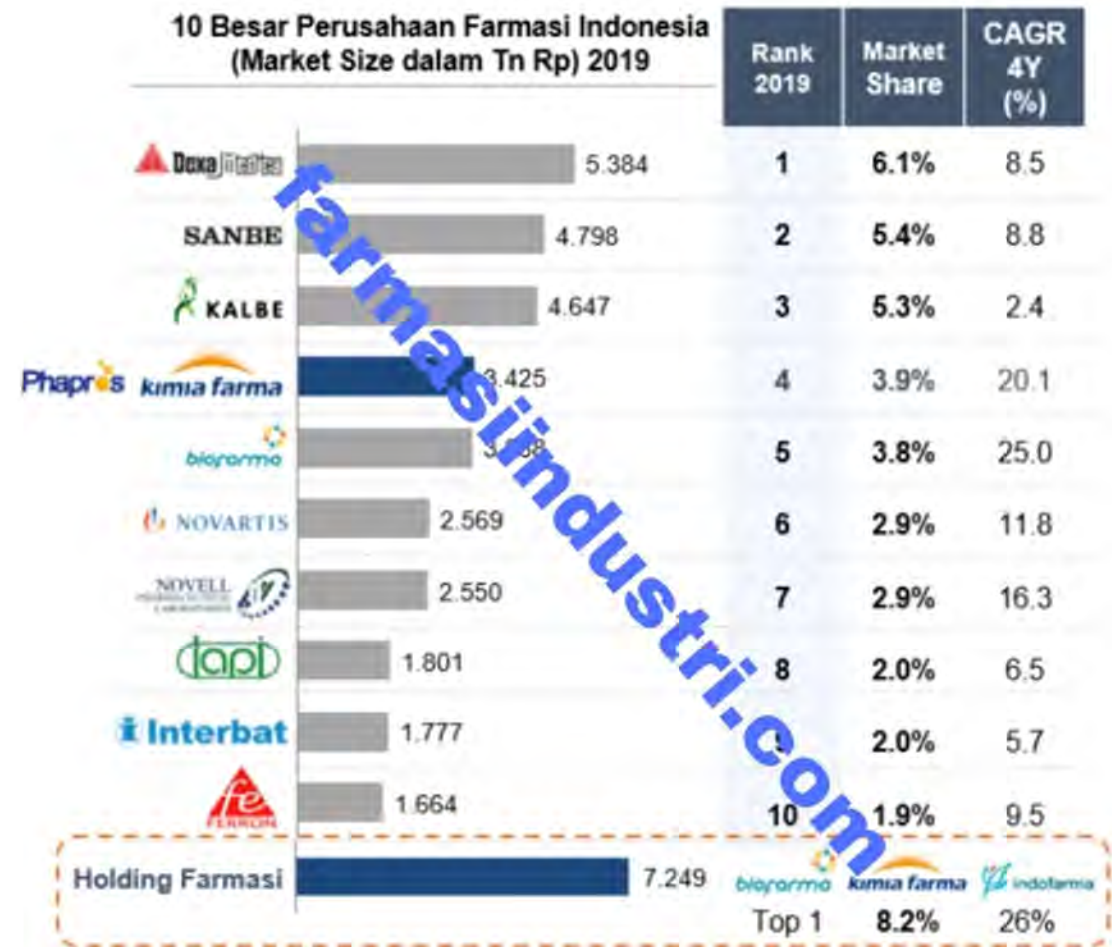
Sponsored Drug/Vaccine study

- Large funding > 2 Mly
- >5 Juta per subject enrolled
- More than adequate funds
- Strict operational target
- Strict use of data, difficult to combine with other studies
- Need Lab/clinic Accreditation
- MTA would be necessary
- Topic
 - Clinical trial (multicenter)



Working with Company

- Pharma Companies have “marketing funds”
- To start good sales in Indonesia, trial research are often needed
- Propose to do their research using your assets
- Conduct study in an ethical, accountable way



Management of Research (Staff)

Permanent Staff (Aparatur Sipil Negara)

Limited time for research

Post-doc has limited esteem
& incentive

Hired Staff (Project / Contract bases)

Very much needed

Difficult to retain;
limited long-term
opportunities

Not enough support from
Indonesian system

Key points on obtaining research funding

Collaboration and management

- Use your asset and strength well
- Collaborate early, even without funding
- communicate well to all stakeholder
- Share generously and ask information in return
- Good administration and accounting is necessary
- Flexibility in administration and accounting is necessary

Never bet on one horse

- Diversify your source of funding!
- Do not have all your eggs in one basket especially if the program or agency is completely grant driven.
- Type of funding source dictate the type of proposal you submit
- Plan to propose to different sources every year.

Complete the circle



Conclusions

- Focus, be passionate & persistent in your aim
- Identify your research question well in planning each study
- Start small, collaborate early
- Develop together in the process
- Follow the procedure well, learn while doing
- Finalize every project
- Complete the circle → publish!!
- Socialize your findings well

Thank you



Radboud University
Nijmegen, the Netherlands



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FROM THE AMERICAN PEOPLE

