

KEMENTERIAN PENDIDIKAN, KEBUDAYAAN,
RISET DAN TEKNOLOGI



UNIVERSITAS SUMATERA UTARA
FAKULTAS KEDOKTERAN

Jalan dr. T. Mansur No. 5 Kampus USU Medan 20155
Telp. (061) 8211045, 8210555 Fax. (061) 8216264, e-mail:
dean.med@usu.ac.id

Number : 90/UN5.2.1.1/PPM/2022

Attachment: 2 (two) files

Subject : Invitation

Medan, 28 June 2022

Dear Sir/Madam

มหาวิทยาลัยทักษิณ
รับ 2994 วันที่ 1 ก.ค. 2565
เวลา 10:29 น.

Warmest greetings from Universitas Sumatera Utara Indonesia. Today's public health challenges are complex and crosscutting. One Health concept as an effort to address health issues, such as emerging zoonotic diseases, climate change impacts, and the human-animal bond, stresses the importance of interdisciplinary communication and collaboration. Faculty of Medicine Universitas Sumatera Utara (USU) Indonesia is organising a hybrid summer course event with the theme of **"Understanding One Health Issues in Southeast Asia"**. This event invites excellent speakers and experts from different background to share knowledge, resources, professional expertise and start collaboration within Indonesia and between countries.

The event will be held on:

Day/Date : 5 – 13 September 2022

Place : Universitas Sumatera Utara
Medan, Indonesia

For further information, please find attached the Programme Book and the event's flyer. Early registration can be done in <https://bit.ly/USUSummerCourse>. Should you need further assistance, please do not hesitate to contact us via email to collabs.fk@usu.ac.id or by whatsapp +62 853-6010-9505 (dr. Rycha). Finally, we would like to thank you very much for your attention and participation.

Cordially Yours,
Vice Dean III, Faculty of Medicine
Universitas Sumatera Utara



dr. Inke Nadia D. Lubis, M.Ked(Ped), Sp.A, Ph.D
NIP.198305262008012003



UNDERSTANDING ONE HEALTH ISSUES IN SOUTHEAST ASIA

SUMMER COURSE

Today's public health challenges are complex and crosscutting. Emerging infectious diseases in recent decades, driven in large part by such environmental developments, are mostly zoonotic in origin. One Health is an emerging concept that stresses the linkages between human, animal, and environmental health, as well as the need for interdisciplinary communication and collaboration to address health issues including emerging zoonotic diseases, climate changes impacts, and the human-animal bond.

The course is intended for medical doctors, veterinarians, nurses, epidemiologists, zoologists, ecologists, entomologists, economists, biologists, microbiologists, anthropologists and students of relevant areas.

The course is equivalent to 2 credits.

REGISTER NOW!

Deadline of registration is on 14 August 2022
Course from 5 to 13 September 2022

Course is funded by USU



For more information, email us at collabs.fk@usu.ac.id
Fill in the form at <https://bit.ly/USUSummerCourse>

- Introduction to One Health
- Ecosystem change and human health
- Emerging and reemerging diseases
- One Health issues in Indonesia
- The role of animals as sentinels for environmental agent and contaminants
- Human-wildlife conflict
- One Health: livestock and companion animals
- Potential risks of zoonotic diseases from wildlife due to climate change
- The role of mosquitoes in human pathogen transmission
- The relevance of mosquito biology to vector surveillance and control
- Landscape complexity and land use change in North Sumatera and North Kalimantan: demonstration of interactive web tools
- Agricultural risk evaluation
- Oil palm development and smallholders' incomes
- Emerging zoonoses - rickettsiosis
- One Health and antimicrobial resistance in livestock animals
- Irrational use of antibiotics in humans
- Impact of antimicrobial resistance on public, animal and environmental health
- Use of mathematical modeling to predict infectious diseases outbreaks
- Geospatial risk mapping masterclass

- *Plasmodium knowlesi* malaria: clinical manifestations and treatment
- Strengthening *Plasmodium knowlesi* surveillance in North Sumatera
- Malaria diagnosis: microscopy to molecular
- Serology: a tool to determine transmission level over time
- Health facility-based serological surveillance and participatory mapping to predict malaria outbreaks
- Land-use changes in North Sumatera
- Primate ecology and behavior
- Zoonotic malaria transmission in North Southeast Asia, and what we know (and don't know) about *P. knowlesi* vectors
- The importance of mosquito identification
- Identification of *Plasmodium* species and *Anopheline* vectors
- PCR introduction and lab tour

MEDICAL ANTHROPOLOGY

- Introduction to diverse of culture in North Sumatera
- Traditional dance
- Medical anthropology: traditional wisdom in North Sumatera towards zoonotic diseases prevention and management
- Prioritizing zoonotic diseases using a multisectoral, One Health approach
- Intercultural and interdisciplinary approaches towards One Health outbreak preparedness and responses in Indonesia



LECTURERS

USU LECTURERS

- Inke Nadia D. Lubis
- Ivana Alona
- Hendri Wijaya
- Lambok Siahaan
- Hemma Yulfi
- Ranti Permatasari
- Bejo Slamet
- Diana Chalil

GUEST LECTURERS

- Matthew Grigg,
- Prof Tom Burkot
- Peter Speldewinde
- Bridget Barber
- Tanya Russell
- Alexandra Zimmerman
- Sunny Sanderson
- Katharina Waha
- Andy Hulthen
- Kevin Tetteh
- Freya Shearer
- David Price
- Bram van de Straat
- Boni Sebayang
- Tiara Pakasi
- Endang Wulandari
- Amin Soebandrio
- Triwibowo
- Ahadi Kurniawan
- Henry Surendra
- Rizaldi
- Joko Pamungkas
- Fatkhanuddin Aziz
- Hendra Wibawa
- Novra Sandi



KEMENTERIAN
KESEHATAN
REPUBLIK
INDONESIA



Australian Government
Australian Centre for
International Agricultural Research



World Health
Organization
Indonesia



THE UNIVERSITY OF
WESTERN
AUSTRALIA



JAMES COOK
UNIVERSITY
AUSTRALIA



For more information, email us at collabs.fk@usu.ac.id
Fill in the form at <https://bit.ly/USUSummerCourse>





Universitas
Sumatera Utara

Transformation
Towards the Ultimate

2022 INTERNATIONAL SUMMER COURSE





Universitas Sumatera Utara

2022
**INTERNATIONAL
SUMMER COURSE**



Universitas
Sumatera Utara



Transformation
Towards the Ultimate

Kampus
Merdeka
INDONESIA JAYA

SCHOOL OF MEDICINE



INTERNATIONAL SUMMER COURSE OF MEDICINE

UNDERSTANDING ONE HEALTH ISSUES IN SOUTHEAST



Today's public health challenges are complex and crosscutting. Antimicrobial resistance, pollution, food security, biosafety, biosecurity, and emerging and re-emerging infectious diseases are associated with changes in land use, population growth, urbanisation, global travel and trade, industrial activities, and climate change.

| | |
|--------------------|---|
| Date | 5 th - 13 th September 2022 |
| Credits | 2 Credits |
| Language | English |
| Delivery | Hybrid |
| Total Hours | 45 Hours |
| Tuition Fee | Free |
| Website | https://fk.usu.ac.id/id/ |

Emerging infectious diseases in recent decades, driven in large part by such environmental developments, are mostly zoonotic in origin. Zoonotic disease outbreaks and pandemic including COVID-19, Ebola, chikungunya, Zika virus, Middle East Respiratory Syndrome, cholera, plague, and yellow fever, have highlighted our vulnerability to emerging infectious diseases among other crises.

One Health is an emerging concept that stresses the linkages between human, animal, and environment health, as well as the need for interdisciplinary communication and collaboration to address health issues including emerging zoonotic diseases, climate changes impacts, and the human-animal bond. Lessons learned from infectious disease outbreaks in recent years have illustrated that training professionals in the One Health arena has the potential to improve epidemic and pandemic preparedness. Without One Health approach, experts in environmental, animal, and human health will continue to address these challenges independently and in an uncoordinated fashion, missing the opportunity to maximise the benefits of shared knowledge, shared professional expertise, and available resources

In response to One Health issues, training of researchers must transcend individual's disciplines to develop a new process of collaboration. This involves physicians, veterinarians, nurses, ecologist, zoologist, entomologists, sociologist, economist, anthropologists, pathologists, microbiologists, epidemiologists, and politicians need to ensure they have the skills to work collaboratively with each other and with governments, the private sector and communities.

This course is intended for medical doctors, veterinarians, nurses, epidemiologists, zoologists, ecologists, entomologists, economists, biologists, microbiologists, anthropologists and students of relevant areas.



Course Objectives

- 1 To promote and advance the One Health approach for control of emerging and reemerging infectious and zoonotic diseases
- 2 To improve the competencies of One Health professionals
- 3 To captivate, advance, and nurture cadres of trained professionals to be One Health current and future leaders

Course Curriculum

General Learning Outcome

By the end of this course, participants will master the theory and be able to implement the One Health concept in preventing, preparing and managing zoonotic diseases in Southeast Asia, particularly in North Sumatera, through intercultural and interdisciplinary approaches.

Credits:

2 (two)

Length:

9 (nine) days

Total hours:

45 hours

Study methods and modes of delivery:

- 1 Seminar, discussion, role play, laboratory training
- 2 Field trip
- 3 Offline for participants, online/offline for speakers

Assessment:

- 1 Attendance and active participation
- 2 Written-based assessment: quizzes, essays, portfolios
- 3 Laboratory training assessment: activity reports.

Modules

This course consists of 3 (three) main modules:

- 1 One Health concept
- 2 Plasmodium knowlesi malaria
- 3 Introduction to local culture in North Sumatera and medical anthropology

Selection Process

- 1 Candidates need to fill in the Google form through this link:
<https://bit.ly/USUSummerCourse>



Deadline 14 August 2022

- 2 Selected participants will be sent an email noticing of
- 3 the acceptance
- 4 Participant will pay for their own transportation and accommodation
- 5 There is no fee for the course

MODULE 1: ONE HEALTH

Module outcomes:

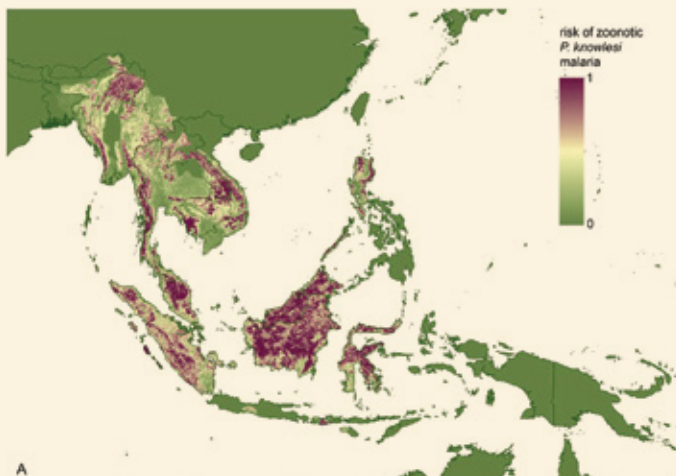
- 1 To understand One Health concept
- 2 To implement One Health approach in managing zoonotic diseases

| Topics | Method | Hours | Speaker | Institution |
|---|---------------------|-------|-----------------------------|--|
| Introduction to One Health | Seminar, discussion | 1 | Sunny Sanderson | Menzies School of Health Research, Australia |
| Ecosystem change and human health | Seminar, discussion | 1 | Peter Speldewinde | University of Western Australia, Australia |
| Emerging and reemerging diseases | Seminar, discussion | 1 | Endang Wulandari | WHO Indonesia |
| One Health issues in Indonesia | Seminar, discussion | 1 | Tiara Pakasi | Ministry of Health Indonesia |
| The role of animals as sentinels for environmental agent and contaminants | Seminar, discussion | 1 | Joko Pamungkas | Institusi Pertanian Bogor, Indonesia |
| Human-wildlife conflict | Seminar, discussion | 1 | Alexandra Zimmermann | University of Oxford, United Kingdom |
| One Health: livestock and companion animals | Seminar, discussion | 1 | Novra Sandi | Eijkman-Oxford Clinical Research Unit, Indonesia |
| Potential risks of zoonotic diseases from wildlife due to climate change | Seminar, discussion | 1 | Hendra Wibawa | Disease Investigation Center Wates, Indonesia |
| The role of mosquitoes in human pathogen transmission | Seminar, discussion | 1 | Tom Burkot Tanya Russell | James Cook University, Australia |
| The relevance of mosquito biology to vector surveillance and control | Seminar, discussion | 1 | Tom Burkot Tanya Russell | James Cook University, Australia |

| Topics | Method | Hours | Speaker | Institution |
|---|---------------------|-------|--------------------------------|--|
| Landscape complexity and land use change in North Sumatera and North Kalimantan: demonstration of interactive web tools | Seminar, discussion | 1 | Katharina Waha Andy Hulthen | CSIRO, Australia |
| Agricultural risk evaluation | Seminar, discussion | 1 | Ivana Alona | Universitas Sumatera Utara |
| Oil palm development and smallholders' incomes | Seminar, discussion | 1 | Diana Chalil | Universitas Sumatera Utara, Indonesia |
| One Health and antimicrobial resistance in livestock animals | Seminar, discussion | 1 | Fathkanuddin Aziz | Universitas Gajah Mada, Indonesia |
| Irrational use of antibiotics in humans | Seminar, discussion | 1 | Hendri Wijaya | Universitas Sumatera Utara, Indonesia |
| Impact of antimicrobial resistance on public, animal and environmental health | Seminar, discussion | 1 | Amin Soebandrio | Universitas Indonesia, Indonesia |
| Emerging zoonoses - rickettsiosis | Seminar, discussion | 1 | Matthew Grigg | Menzies School of Health Research, Australia |
| Geospatial risk mapping | Seminar, discussion | 2 | Freya Shearer | University of Melbourne, Australia |
| Use of mathematical modeling to predict Infectious disease outbreaks | Seminar, discussion | 1 | David Price | University of Melbourne, Australia |



MODULE 2: PLASMODIUM KNOWLESI MALARIA



Module Outcomes:

- 1 To understand malaria knowlesi, its agent, vectors, and diseases
- 2 To implement One Health approach in managing transmission and risks factors of knowlesi malaria



| Topics | Method | Hours | Speaker | Institution |
|---|---------------------|-------|----------------------|--|
| Plasmodium knowlesi malaria: clinical manifestations and treatment | Seminar, discussion | 1 | Bridget Barber (TBC) | Menzies School of Health Research, Australia |
| Strengthening Plasmodium knowlesi surveillance in North Sumatera | Seminar, discussion | 1 | Inke Lubis | Universitas Sumatera Utara, Indonesia |
| Malaria diagnosis: microscopy to molecular | Seminar, discussion | 1 | Rintis Noviyanti | Eijkman Institute for Molecular Biology, Indonesia |
| Serology: a tool to determine transmission level over time | Seminar, discussion | 1 | Kevin Tetteh | LSHTM, United Kingdom |
| Health facility-based serological surveillance and participatory mapping to predict malaria outbreaks | Seminar, discussion | 1 | Henry Surendra | Eijkman-Oxford Clinical Research Unit, Indonesia |
| Land-use changes in North Sumatera | Seminar, discussion | 1 | Bejo Slamet | Universitas Sumatera Utara, Indonesia |
| Primate ecology and behavior | Seminar, discussion | 1 | Rizaldi | Universitas Andalas, Indonesia |
| Zoonotic malaria transmission in Southeast | Seminar, discussion | 1 | Bram van de Straat | James Cook University, Australia |

| Topics | Method | Hours | Speaker | Institution |
|---|---------------------|-------|---|---|
| Asia, and what we know (and don't know) about P. knowlesi vectors | Seminar, discussion | 1 | | |
| The importance of mosquito identificatio | Seminar, discussion | 1 | Boni Sebayang | James Cook University, Australia |
| Identification of Plasmodium species and Anopheline vectors | Seminar, discussion | 2 | Lambok Siahaan Hemma Yulfi Boni Sebayang Ahadi Kurniawan | Universitas Sumatera Utara, Indonesia James Cook University, Australia |
| PCR introduction and lab tour | Seminar, discussion | 2 | Ranti Permatasar | BTKLPP Medan, Indonesia Universitas Sumatera Utara, Indonesia |

MODULE 3: INTRODUCTION TO LOCAL CULTURE AND MEDICAL ANTHROPOLOGY



Module Outcomes:

- 1 To get familiar with local culture in North Sumatera
- 2 To include local culture in managing zoonotic diseases

| Topics | Method | Hours | Speaker | Institution |
|--|--------------------|-------|------------------------------------|---------------------------------------|
| Introduction to diverse of culture in North Sumatera | Video presentation | 1 | TBC | Universitas Sumatera Utara, Indonesia |
| Traditional dance | Practical training | 1 | Rithaony Hutajulu | Universitas Sumatera Utara, Indonesia |
| Medical anthropology: traditional wisdom in North Sumatera towards zoonotic diseases prevention and management | Seminar | 2 | Robert Sibarani Hamdani Harahap | Universitas Sumatera Utara, Indonesia |
| Prioritizing zoonotic diseases using a multisectoral, One Health approach | Seminar | 3 | Grace Goryoka (TBC) | Universitas Sumatera Utara, Indonesia |

| Topics | Method | Hours | Speaker | Institution |
|--|------------------|-------|-----------------------------|---|
| Intercultural and interdisciplinary approaches towards One Health outbreaks preparedness and responses: Indonesian experience from Avian flu | Seminar | 3 | I Nyoman Kandun (TBC) | Field Epidemiology Training Programme Indonesia |
| Pandemic games | Group discussion | 2 | Inke Lubis Matthew Grigg | Universitas Sumatera Utara, Indonesia Menzies School of Health Research, Australia |

Supported by **Australian Centre for International Agricultural Research (ZOOMAL Project)**, **Australian Government**

SCHEDULE

| Day/Date | Jakarta/ Bangkok Time | Jakarta/ Bangkok Time | Allocated Time | Topics |
|-----------------------|-----------------------|-----------------------|----------------|--|
| Monday 5 Sept 2022 | 08.00-08.30 | 10.30-11.00 | 30 mins | Opening ceremony |
| | 08.30-09.30 | 11.00-12.00 | 1 hour | Introduction to diverse of culture in North Sumatera |
| | 09.30-09.45 | 12.00-12.15 | 15 mins | Coffee/tea break |
| | 09.45-10.45 | 12.15-13.15 | 1 hour | Introduction to One Health |
| | 10.45-11.45 | 13.15-14.15 | 1 hour | Ecosystem change and humanhealth |
| | 11.45-12.45 | 14.15-15.15 | 1 hour | Emerging and reemerging diseases |
| | 12.45-14.00 | 15.15-16.30 | 1 hour 15 mins | Lunch/prayer |
| | 14.00-15.00 | 17.30-18.30 | 1 hour | One health issues in Indonesia |
| | 15.00-16.00 | 18.30-19.30 | 1 hour | The role of animals as sentinels for environmental agent and contaminants Lunch/prayer |
| | 16.00-16.15 | 19.30-19.45 | 15 mins | Coffee/tea break |
| | 16.15-17.15 | 19.45-20.45 | 1 hour | Human and wildlife conflict |



| Day/Date | Jakarta/ Bangkok Time | Jakarta/ Bangkok Time | Allocated Time | Topics |
|------------------------|-----------------------|-----------------------|----------------|---|
| Tuesday 6 Sept 2022 | 08.00-09.00 | 10.30-11.30 | 1 hour | One Health: livestock and health companion |
| | 09.00-10.00 | 11.30-12.30 | 1 hour | Potential risks of zoonotic diseases from wildlife due to climate change Human and wildlife conflict |
| | 10.00-10.15 | 12.30-12.45 | 15 mins | Coffee/tea break |
| | 10.15-11.15 | 12.45-13.45 | 1 hour | The role of mosquitoes in human pathogen transmission |
| | 11.15-12.15 | 13.45-14.45 | 1 hour | The relevance of mosquito biology to vector surveillance and control |
| | 12.15-13.30 | 14.45-16.00 | 1 hour 15 mins | Lunch/prayer |
| | 13.30-15.30 | 16.00-18.00 | 2 hour | Landscape complexity and land use change in North Sumatera and North Kalimantan: demonstration of interactive web tools |
| | 15.30-15.45 | 18.00-18.15 | 15 mins | Coffee/tea break |
| | 15.45-16.45 | 18.15-19.15 | 1 hour | Agricultural risk evaluation |
| | 16.45-17.45 | 19.15-20.15 | 1 hour | Oil palm development and smallholders' incomes |

| Day/Date | Jakarta/ Bangkok Time | Jakarta/ Bangkok Time | Allocated Time | Topics |
|--------------------------|-----------------------|-----------------------|----------------|---|
| Wednesday 7 Sept 2022 | 08.30-09.30 | 10.30-11.30 | 1 hour | One Health and antimicrobial resistance in livestock animals |
| | 09.30-10.30 | 12.00-13.00 | 1 hour | Irrational use of antibiotics in humans |
| | 10.30-10.45 | 13.00-13.15 | 15 mins | Coffee/tea break |
| | 10.45-11.45 | 13.15-14.15 | 1 hour | Impact of antimicrobial resistance on public, animal and environmental health |
| | 11.45-12.45 | 14.15-15.15 | 1 hour | Emerging zoonoses - rickettsiosis |
| | 12.45-14.00 | 15.15-16.30 | 1 hour 15 mins | Lunch/prayer |
| | 14.00-16.00 | 16.30-18.30 | 2 hour | Geospatial risk mapping |
| | 16.00-16.15 | 18.30-18.45 | 15 mins | Coffee/tea break |
| | 16.15-17.15 | 18.45-19.45 | 1 hour | Use of mathematical modeling to predict infectious disease outbreaks |



| Day/Date | Jakarta/ Bangkok Time | Jakarta/ Bangkok Time | Allocated Time | Topics |
|-------------------------|-----------------------|-----------------------|----------------|--|
| Thursday 8 Sept 2022 | 08.00-09.00 | 10.30-11.30 | 1 hour | Plasmodium knowlesi malaria: clinical manifestations and treatment |
| | 09.00-10.00 | 11.30-12.30 | 1 hour | Strengthening Plasmodium knowlesi surveillance in North Sumatera |
| | 10.00-10.15 | 12.30-12.45 | 15 mins | Coffee/tea break |
| | 10.15-11.15 | 12.45-13.45 | 1 hour | Malaria diagnosis: microscopy to molecular |
| | 11.15-12.15 | 13.45-14.45 | 1 hour | Serology: a tool to determine transmission level over time |
| | 12.15-13.30 | 14.45-16.00 | 1 hour 15 mins | Lunch/prayer |
| | 13.30-14.30 | 16.00-17.00 | 1 hour | Health facility-based serological surveillance and participatory mapping to predict malaria outbreaks |
| | 14.30-15.30 | 17.00-18.00 | 1 hour | Land-use changes in North Sumatera |
| | 15.30-15.45 | 18.00-18.15 | 15 mins | Coffee/tea break |
| | 15.45-16.45 | 18.15-19.15 | 1 hour | Primate ecology and behavior |
| | 16.45-17.45 | 19.15-20.15 | 1 hour | Zoonotic malaria transmission in Southeast Asia, and what we know (and don't know) about P. knowlesi vectors |

| Day/Date | Jakarta/ Bangkok Time | Jakarta/ Bangkok Time | Allocated Time | Topics |
|----------------------|-----------------------|-----------------------|----------------|---|
| Friday 9 Sep 2022 | 08.30-09.30 | 11.00-12.00 | 1 hour | The importance of mosquito identification |
| | 09.30-09.45 | 12.00-12.15 | 15 mins | Coffee/tea break |
| | 09.45-11.45 | 12.15-14.15 | 2 hour | Identification of Plasmodium species and Anopheline vectors |
| | 11.45-14.00 | 14.15-16.30 | 2 hour 15 mins | Lunch/prayer time |
| | 14.00-16.00 | 16.30-18.30 | 2 hour | PCR introduction and lab tour |
| | 16.00-16.15 | 18.30-18.45 | 15 mins | Coffee/tea break |
| | 16.15-17.15 | 18.45-19.45 | 1 hour | Traditional dance |



| Day/Date | Jakarta/ Bangkok Time | Jakarta/ Bangkok Time | Allocated Time | Topics |
|-----------------------|-----------------------|-----------------------|----------------|---|
| Monday 12 Sep 2022 | 09.00-11.00 | 11.30-13.30 | 2 hours | Medical anthropology: traditional wisdom in North Sumatera towards zoonotic diseases prevention and managemen |
| | 11.00-11.15 | 13.30-13.45 | 15 mins | Coffee/tea break |
| | 11.15-12.45 | 13.45-15.15 | 1 hour 30 mins | Prioritizing zoonotic diseases using a mulsectoral, One Health approach (1) |
| | 12.45-14.00 | 15.15-16.30 | 1 hour15 mins | Lunch/prayer |
| | 14.00-15.30 | 16.30-18.00 | 1 hour 30 min | Prioritizing zoonotic diseases using a mulsectoral, One Health approach (2) |

| Day/Date | Jakarta/ Bangkok Time | Jakarta/ Bangkok Time | Allocated Time | Topics |
|------------------------|-----------------------|-----------------------|----------------|--|
| Tuesday 13 Sep 2022 | 08.30-10.00 | 11.00-12.30 | 1 hour | Intercultural and interdisciplinary approaches towards One Health outbreaks preparedness and responses: Indonesian experience from Avian flu (1) |
| | 10.00-10.15 | 12.30-12.45 | 15 mins | Coffee/tea break |
| | 10.15-11.45 | 12.45-14.15 | 1 hour 30 mins | Intercultural and interdisciplinary approaches towards One Health outbreaks preparedness and responses: Indonesian experience from Avian flu (2) |
| | 11.45-13.00 | 14.15-15.30 | 2 hour | Lunch/prayer |
| | 13.00-15.00 | 15.30-17.30 | 1 hour | Pandemic games |
| | 15.00-16.00 | 17.30-18.30 | 1 hour | Closing ceremony |

Supported by Australian Centre for International Agricultural Research (ZOOMAL Project), Australian Government





USU