



# Minor Global Health 2020

## Epidemiological Transition in Indonesia: From Communicable Diseases to Non-Communicable Diseases



Faculty of Medicine  
Universitas Indonesia

# FAKULTAS KEDOKTERAN UNIVERSITAS INDONESIA



## Preface

Learning medicine is not limited to one's own country, especially in this era of globalization. Indonesia is a 4<sup>th</sup> most populated country, located in tropical area, with low to middle socio-economic status.

Accordingly, there are many tropical infectious disease to be found, including mosquito-borne infection, helminth infection and neglected tropical disease.

Moreover, the rapid wave of urbanization in the country is resulting in the increasing of the prevalence of non-communicable disease, including type 2 diabetes and cardiovascular disease.

This module aims to help student learns variety of communicable disease and non-communicable disease, observing directly the center for each diseases and learn a novel approach for the inter-relationship between both diseases



# Objectives

## General Objective

- To understand the communicable disease (CD) in tropical country
- To understand concept of urbanization and its relation to the transition from CD to non-communicable disease (NCD)

## Specific Objectives

- To understand the concepts of **communicable and non-communicable disease**
- To describe the **global health situation** and social, demographic, environmental factors of health and diseases in tropical-LMIC
- To identify the **limitation of population health and disease** in the global, national, and regional level
- To understand the **effect of urbanization to the global health**, specifically to the shifting from communicable disease to non-communicable disease
- **To search and analyze literatures** regarding the effect of urbanization to communicable disease such as diabetes, obesity, and allergy according to Evidence Based Medicine.
- Perform **data collection and data analysis** of the research project
- Understand the **basic principal of laboratory examination** using ELISA method and the interpretation
- Construct a **research report** and perform the **oral presentation**
- To design an **online-based global health campaign** of urbanization impact through website/blog/interactive video for general population

# General Topics

**Overview of Health in Indonesia**

**Mosquito-borne infection**

**Soil-transmitted Helminth Infection**

**Neglected Tropical Disease**

**Mycobacterium Infection : Tuberculosis and  
Leprosy**

**HIV/AIDs**

**Diabetes Mellitus**

**Child Nutrition Problem: Stunting and Obesity**



**Minor  
Global  
Health**

# Departments



## **Department of Internal Medicine**

- **Division of Tropical Infection**
- **Division of Endocrinology-Metabolism**
- **Division of Allergy and Immunology**

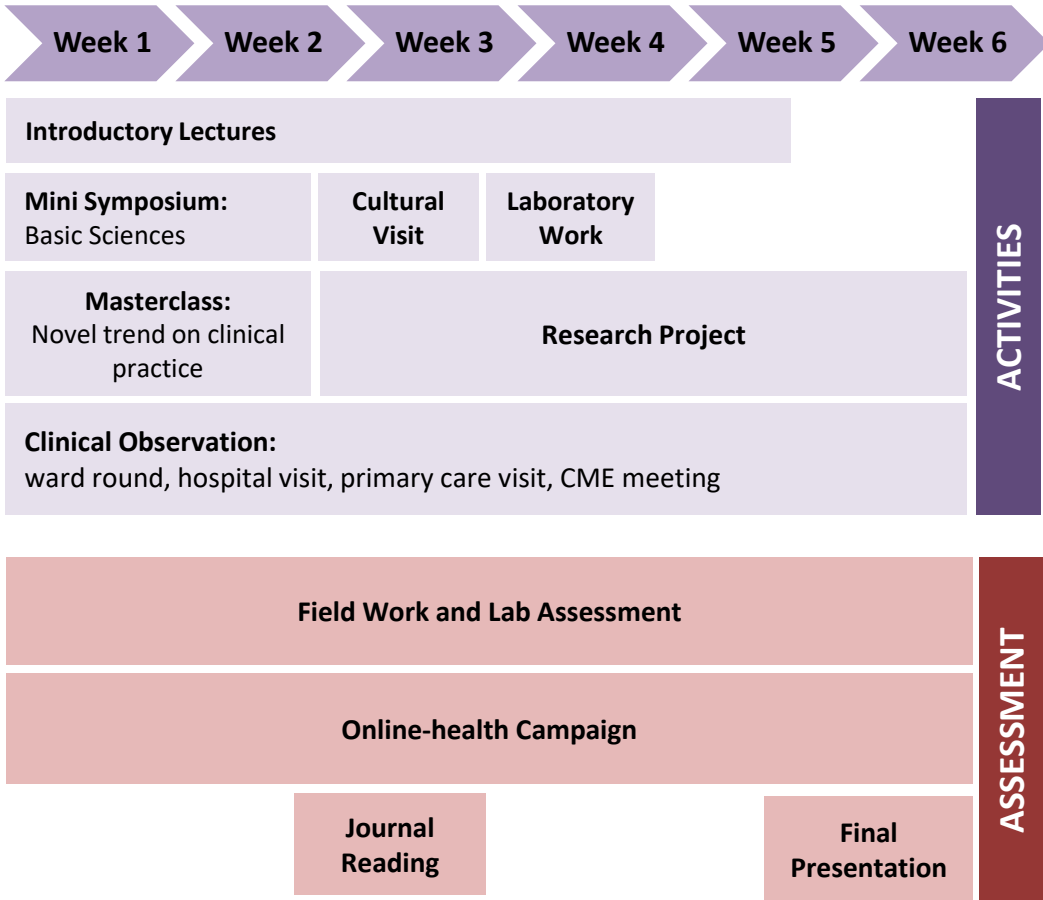
## **Department of Clinical Microbiology**

## **Department of Parasitology**

## **Department of Dermato-venerology**

## **Department of Paediatrics**

# Program Overview



ACTIVITIES

ASSESSMENT

## Timeline

Mid of September to end of October 2020

## Duration of program

6 weeks

# Lectures



## Introductory Lectures and Mini Symposium

- Lectures will be prepared for the students as the basic knowledge on how to conduct a proper clinical research, starting from field data collection, laboratory examination, data analysis, research report construction and presentation
- Mini symposium consist of brigded lectures on basic communicable and non-communicable disease, consisting resource persons from multi-disciplinary medical field.



## Master Class

Masterclass lectures consist of new emerging health issues that's related to urbanization and topics with inter-relationship between CD and NCD, especially in Indonesia.

# Clinical Observation

Program Overview



## Hospital Visit

Students will have a chance to attend and observe the clinical ward rounds at the Cipto Mangunkusumo General Referral Hospital and also several CME meetings as an overview of the hospital clinical setting in developing countries



# Hospitals



**Dr. Cipto Mangunkusumo National Referral Hospital**



**Persahabatan General Hospital**  
(National Respiratory Referral Hospital)



**Dr. Sulianti Saroso Hospital**  
(National Infection Referral Hospital)



**Dr. Sitanala Hospital**  
(National Leprosy Referral Hospital)

# Research Project



## Research Project

Students will be given chance to collect some data directly from patient for research purpose. They will be divided into two groups with two subtopics of research.

# Laboratory Work



## Laboratory Work

Afterward, students will directly practice to do ELISA to analyses the blood sample obtained. During the field and laboratory work, a supervisor will help supervise all the process and assess each student performances

# Requirements



## Students

- 3<sup>rd</sup> year medical student, who have successfully completed all two years program
- Good English skill (TOEFL minimum score of 550, IELTS minimum score of 6.5, TOEIC LR 700)
- Bahasa Indonesia is a preferred additional skill, especially for clinical modules

## Documents

- Application form
- Written recommendation from the Dean
- Motivation letter
- Recent photo (passport size)
- Copy of valid passport
- a copy of international student health insurance

# Fees and Regulation

## Fees

- Admission fee USD 100
- Tuition fee USD 150/week
- Bench fee for elective research: USD 500-1000
- The fee stated above does not include accommodation, meal, insurance and medical service
- The living cost estimation USD 400/month/person

## Regulations

- Participant should be in Jakarta before the program started and report to International Relation Office Faculty of Medicine Universitas Indonesia before and after finishing the program
- During the clinical experience, participant's role will be as an observer. In certain cases, interacting with patient to do examination will be permitted under supervision of attending staff in charge
- Participants must fully attend all the programs.
- Participants must be well-groomed and wear appropriate clothes according to hospital standard, especially in clinical activity.
  - ✓ Male students must wear collared shirts and formal pants, no blue jeans
  - ✓ Female students must dress modestly and avoid low-cut or bare the midriff tops. Short skirts above knees are also not allowed
  - ✓ Participants must wear shoes
  - ✓ Please bring your lab coat, especially for lab work and clinical activity
- Participants will be given a certificate of completion at the end of the program

# Schedule

## Week 1

WEEK I	Monday	Tuesday	Wednesday	Thursday	Friday
8.00 - 9.00	L-1 Module Introduction	MS-2a Soil transmitted Helminth Infection	MS-3a Burden of Tuberculosis in Indonesia	Hospital Visit: Ward Round (Infectious disease)	Hospital Visit: Sitatala Hospital Center for Leprosy
9.00 - 10.00	L-2 Overview of Health in Indonesia				
10.00 - 11.00	MS-1a Mosquito borne infection: dengue and other viral infection	MS-2b Neglected Tropical Disease	MS-3b Hansen's Disease in Indonesia		
11.00 - 12.00					
12.00 - 13.00	Lunch Break				
13.00 - 14.00	MS-1b Mosquito borne infection: malaria	Parasitology Laboratorium visit	MS-4 HIV/AIDs	MC-1a Latent tuberculosis in type 2 diabetes patient	Hospital Visit: Sitatala Hospital Center for Leprosy
14.00 - 15.00	Self Directed Learning				
15.00 - 16.00				Self Directed Learning	

## Week 2

WEEK II	Monday	Tuesday	Wednesday	Thursday	Friday
8.00 - 9.00	MC-2 Urbanisation, microbiome and insulin resistance	MS-5 Diabetes and Infection	MC-3a Helminth infection and type 2 diabetes	Hospital Visit: Persahabatan Hospital Center for Tuberculosis	MC-4 Double burden of stunting and obesity in Children
9.00 - 10.00					
10.00 - 11.00	Hospital Visit: Procedural Clinic (or other clinic)		MC-3b Helminth infection and allergy		Self Directed Learning
11.00 - 12.00		Hospital Visit: Microbiology Laboratorium	Educational Meeting: Difficult Case Presentation		
12.00 - 13.00	Lunch Break				Lunch Break
13.00 - 14.00	Self Directed Learning			Hospital Visit: Persahabatan Hospital Center for Tuberculosis	Self Directed Learning
14.00 - 15.00			Self Directed Learning		
15.00 - 16.00					

# Schedule

## Week 3

WEEK III	Monday	Tuesday	Wednesday	Thursday	Friday
8.00 - 9.00	Self Directed Learning	Samples collection	Samples collection	Samples collection	Samples collection
9.00 - 10.00	L-5 Introduction for Research Projects & Samples collection				
10.00 - 11.00					
11.00 - 12.00					
12.00 - 13.00	Lunch Break				
13.00 - 14.00	L-6 Introduction to Laboratory work and ELISA	Data Input	Data Input	Data Input	Journal Reading Presentation
14.00 - 15.00					
15.00 - 16.00					

## Week 4

WEEK IV	Monday	Tuesday	Wednesday	Thursday	Friday
8.00 - 9.00	Cultural Visit	Cultural Visit	IMERI Tour: Museum Visit	Laboratory Work	Laboratory Work
9.00 - 10.00					
10.00 - 11.00			Lunch Break		
11.00 - 12.00					
12.00 - 13.00					
13.00 - 14.00			IMERI Tour: Museum Visit	L-7 Database management and data analysis	Database management & cleaning
14.00 - 15.00					
15.00 - 16.00					

# Schedule

## Week 5

WEEK V	Monday	Tuesday	Wednesday	Thursday	Friday
8.00 - 9.00	Laboratory Work	Hospital Visit: Procedural Clinic (or other clinic)	Universitas Indonesia Depok Tour	Hospital Visit: Ward Round (non-communicable disease)	Research report writing
9.00 - 10.00					
10.00 - 11.00					
11.00 - 12.00					
12.00 - 13.00	Lunch Break	Educational Meeting: Diabetic Foot Meeting	Lunch Break		
13.00 - 14.00	Database management & cleaning	Database management & cleaning	Universitas Indonesia Depok Tour	L-8 Writing a good research paper	Research report writing
14.00 - 15.00					
15.00 - 16.00					

## Week 6

WEEK VI	Monday	Tuesday	Wednesday	Thursday	Friday
8.00 - 9.00	Hospital Visit: Sulianti Saroso Hospital Center for Infectious Disease	Submitting Online- Health Campaign	Oral Presentation: Final Research Report	Revision for Final Research Report	Revision for Final Research Report
9.00 - 10.00					
10.00 - 11.00					
11.00 - 12.00					
12.00 - 13.00	Lunch Break				
13.00 - 14.00	Hospital Visit: Sulianti Saroso Hospital Center for Infectious Disease	Preparation for Presentation	Revision for Final Research Report	Revision for Final Research Report	Revision for Final Research Report
14.00 - 15.00					
15.00 - 16.00					

# Accommodation

## SHRAYA Residence



**Address** : Surabaya St No.16, RT.15/RW.5, Menteng, Central Jakarta City, Jakarta 10310  
**Phone** : (+62) 857-7153-8576  
**Website** : <http://www.shrayaresidence.com>  
**Estimated Price** : 450-650 USD for each room (2-4 people)

## Capitol Park Residence



**Address** : Salemba Raya St No.16 3 6, RT.3/RW.6, Kenari, Central Jakarta City, Jakarta 10430  
**Phone** : (+62) 811-1530-702  
**Website** : <http://www.capitolpark.co.id>  
**Estimated Price** : 500 USD for studio room (28 m)



# Travel and Leisure



## Old Town Batavia – Jakarta

Neighborhood of original downtown area of Jakarta during 17<sup>th</sup> century. It is used as the headquarter of the Dutch East India company during the colonial times.

Nowadays, it become a historical tourist spot to look at the sturdy Dutch-architecture building and as a reminder of the old Batavia.

## Thousand Island Jakarta

A chain of island north of Jakarta's coast. Consist of 342 islands, stretching around 45 km. Around 11 islands is open for tourist spot to visit.

Only need around 2 days to visit, experiencing a boat trip, activity around the island, snorkeling and diving in the sea and eating barbeque in the night

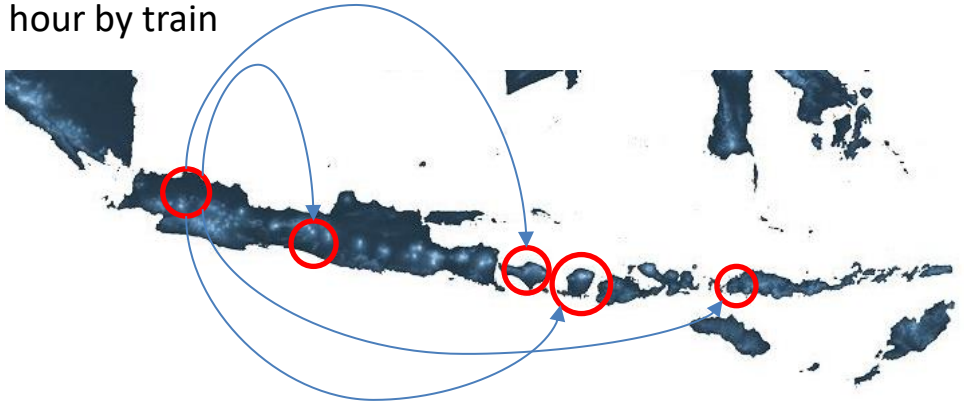


# Travel and Leisure



**Jogjakarta:**  
1 hour - flight  
8 hour by train

**Bali:**  
2 hours - flight



INDONESIA

**Labuan Bajo:**  
2-3 hours - flight

**Lombok:**  
2 hours - flight



# Documentation



Documentation

# Minor Global Health 2020



FACULTY OF  
MEDICINE



IMERI  
INDONESIAN MEDICAL RESEARCH AND EDUCATION INSTITUTE



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