



### SCHOOL OF GLOBAL HEALTH

Faculty of Medicine Chulalongkorn University



## One Chula and Global Health Implementation

### Suttipong Wacharasindhu MD, MRCP(UK), FRCPCH

Executive Committee , School of Global Health,Faculty of Medicine, Chulalongkorn UniversityAssistant to Secretary General, Thai Red Cross Society

### Content

- What should we know about Global Health?
- Global Megatrends and Global Health trends
- How do we implement global health in MDCU and KCMH?

"Experiences from Chulalongkorn Medical School Hospital"



"Health is a state of complete physical, mental and social well-being and not merely the absence of disease or infirmity"



### **GLOBAL HEALTH**

- Health of the populations in the worldwide context
- The area of study, research and practice that places a priority on improving health and achieving equity in health for all people worldwide
- Example : Climate change, AMR , NCD
- Multidisciplinary perspectives
- Political and economic impact are often emphasized
- Building Partnerships : no one sector or organization can achieve global health solutions on its own
- International health : a branch of public health focusing on developing nations and foreign aid efforts by industrialized countries.

https://globalhealth.rutgers.edu/what-we-do/what-is-globalhealth/

ประเด็น เปรียบเทียบ	สุขภาพโลก (Global health)	สาธารณสุขระหว่างประเทศ (International health)	สาธารณสุข (Public health)
การครอบคลุมพื้นที่	ทั้งทางตรงและทางอ้อมต่อ สุขภาพที่ข้ามเขตแดนของ	มุ่งเน้นที่ประเด็นสุขภาพของ ประเทศอื่นๆ นอกจากประเทศ ของตน โดยเฉพาะประเทศ กำลังพัฒนา	ต่อสุขภาพของประชาชนใน
ระดับความร่วมมือ		การพัฒนาและการดำเนินการ แก้ปัญหา ต้องการความร่วมมือ จากประเทศในลักษณะทวิภาคี	แก้ปัญหา ไม่ต้องการความร่วม
ปัจเจกหรือประชากร		รวมการป้องกันโรคในกลุ่ม ประชากรและการรักษาโรคใน ระดับปัจเจกไว้ทั้งสองส่วน	-
การเข้าถึงสุขภาพ	วัตถุประสงค์หลักคือ การสร้าง ความเป็นธรรมด้านสุขภาพ ของประเทศต่างๆในโลกเพื่อ ประชาชนทุกคน		วัตถุประสงค์หลักคือ การสร้าง ความเป็นธรรมด้านสุขภาพของ คนภายในประเทศหรือในชุมชน
ความกว้างของวิทยาการที่ใช้		รวมการทำงานของต่างสาขา เข้าด้วยกันบ้างแต่ไม่เน้นการ ทำงานแบบสหวิทยาการ	

ที่มา: ดัดแปลงจาก J P Koplan et al. Towards a common definition of global health Lancet 2009; 373: 1993-95<sup>(1)</sup>

### Multidisciplinary perspectives

 Medicine: pathophysiology of diseases, prevention , diagnosis , treatment

- Public Health: health of population
- Epidemiology: identify risk factors and causes of health problems
- Economics: cost-effectiveness and cost-benefit for the optimal allocation of health resources
- Other social sciences (sociology, psychology, cultural studies, developmental studies, anthropology, law can help to understand the determinants of health in societies

https://globalhealth.rutgers.edu/what-we-do/what-is-globalhealth/

### No boundary

Multidisciplinary/ cross discipline

Cross culture

Minimize inequity

Socio-Economic-Politic concern

Cultural Competence in Health Care: Is it important for people with chronic conditions?

https://hpi.georgetown.edu/cultural/

Older African Americans and Latinos are More Likely to Have Chronic Conditions

FIGURE 1

Proportion of adults age 50 and older with chronic conditions." by race/ethnicity



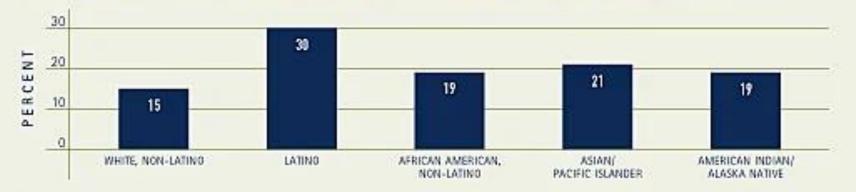
\* Diagnosed with one of seven chronic conditions: asthma, cancer, heart disease, diabetes, high blood pressure, obesity, or anxiety/depression.

SOURCE: Collins, K.S., Hughes, D.L., Doty, M.M., Ives, B.L., Edwards, J.N. & Tenney, K. 2002. Diverse communities, common concerns: Assessing health care quality for minority Americans. New York: The Commonwealth Rund.

### Racial and Ethnic Minorities are Less Likely to Have a Regular Doctor and Health Insurance

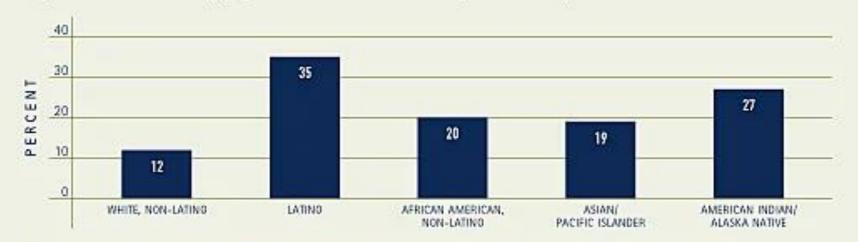
#### FIGURE 3A

Proportion of the nonelderly population who do not have a usual source of care, by race/ethnicity



#### FIGURE 3B

#### Proportion of the nonelderly population who are uninsured, by race/ethnicity



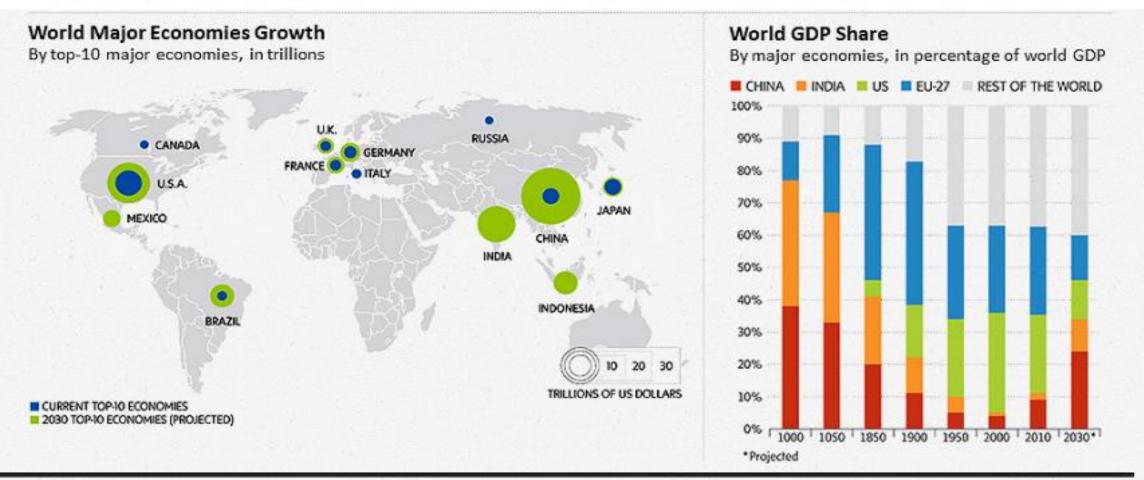
SURCE: Lillie-Blanton, M., Rushing, O.E., Ruiz, S. 2003. Key facts: Roce, ethnicity & medical care. Washington, DC: Kaiser Family Foundation.

## **Geopolitics and Health**

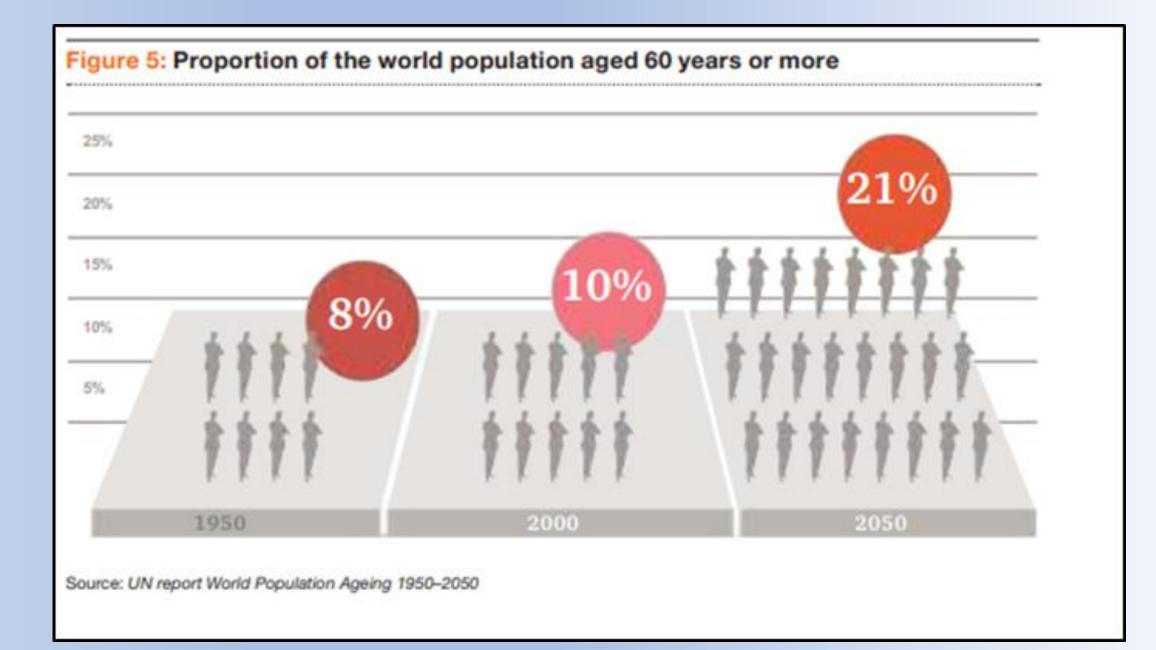
- health is also shaped by geopolitical determinants (governments, geographies, policies, etc)
- understanding these geopolitical determinants can drive the policy action to improve global health

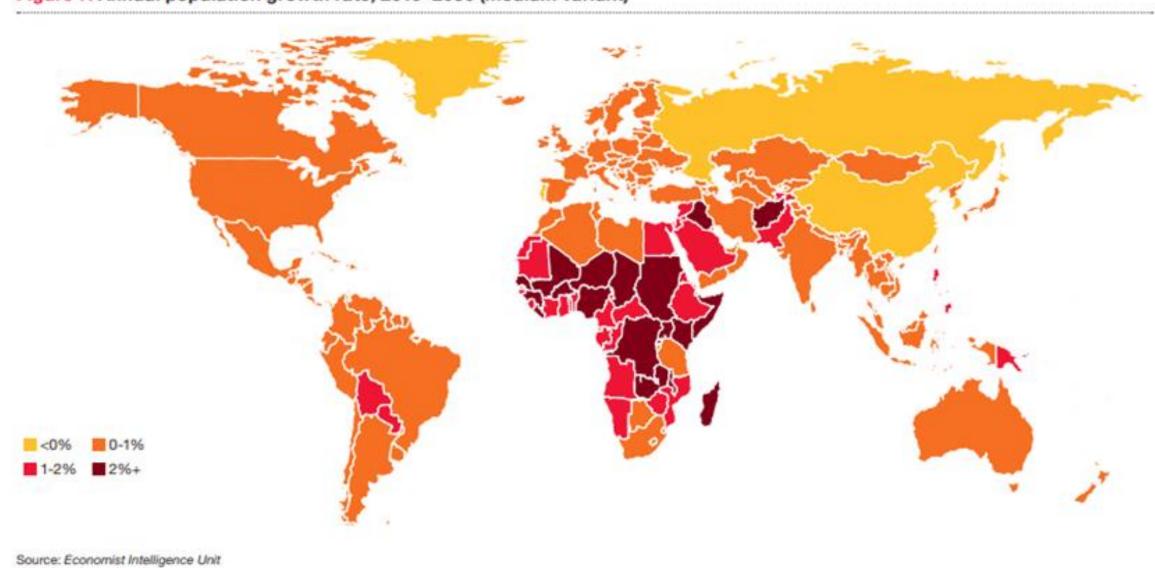
example: migration policy response



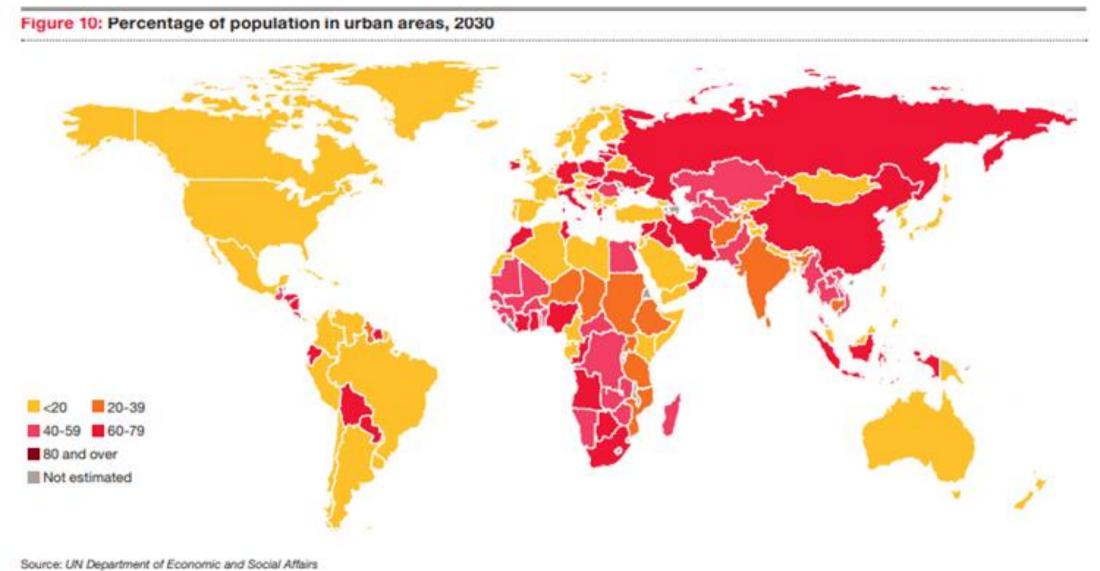


Sources: International Monetary Fund (IMF), Standard Chartered Research, Angus Maddison, World Bank (WB), World Economic Forum (WEF)





#### Figure 7: Annual population growth rate, 2010–2050 (medium variant)









Preparing for epidemics

- > The coronavirus crisis is reinforcing the message, that it is not a matter of 'if' another epidemic will strike, but 'when'
- > When it strikes it will most likely spread fast, potentially threatening millions of lives
- > Governments need to prepare for further outbreaks

### Anti-microbial resistance (AMR)

- > Due to unregulated prescription practices and the overuse of antibiotics (among other factors), AMR is rising, jeopardizing modern medicine's many achievements
- > A more targeted use of antibiotics and the development of new antibiotics are both key in combatting AMR

### The climate crisis as a health crisis

- Climate change causes more extreme weather events exacerbating malnutrition and the spread of infectious diseases
- > Many of today's common diseases can be traced back to a changed climate
- > Air pollution kills approx. 7 million people every year

### Closing the global healthcare gap

- People in wealthier countries on average live 18 years longer than people in poorer countries
- It is paramount to improve access to primary care which addresses the majority of a patient's healthcare needs

### Implementation in Medical School Hospital

- Global Megatrend in Health
- Strategies of organization with main keywords of –
- globalization and internationalization
- impactful research & innovation
- life long learning
- partnership development
- Strength of faculty and research teams and excellent centers
- Lesson learn for Covid-19 Pandemic



Who We Are What We Do 100th Ann

### Health Professionals for the 21st Century

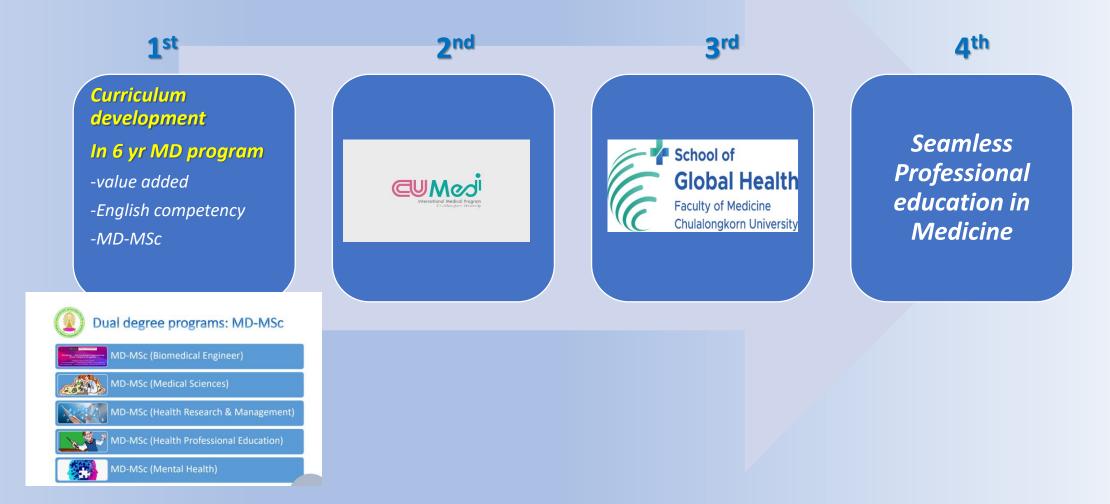


### Key Recommendations:

Instructional design – the approach should be competency-based and inter-professional, bringing together health professionals to work as a cohesive team. It should use IT to empower health professional during training and in the field.

Institutional design – much tighter coordination is needed between education and health sector to ensure that the type of health professionals trained matches health needs in every country. In addition, global coalitions, associations, and networks are needed to better leverage educational resources from around the world.





# **Global Health** Definition

the Consortium of Universities for Global Health Executive Board

 an area for <u>study, research, and practice</u> that places a priority on improving health and achieving health equity for all people worldwide

Q Search

Men

#### SCHOOL OF **GLOBAL HEALTH**

Faculty of Medicine Chulalongkorn University



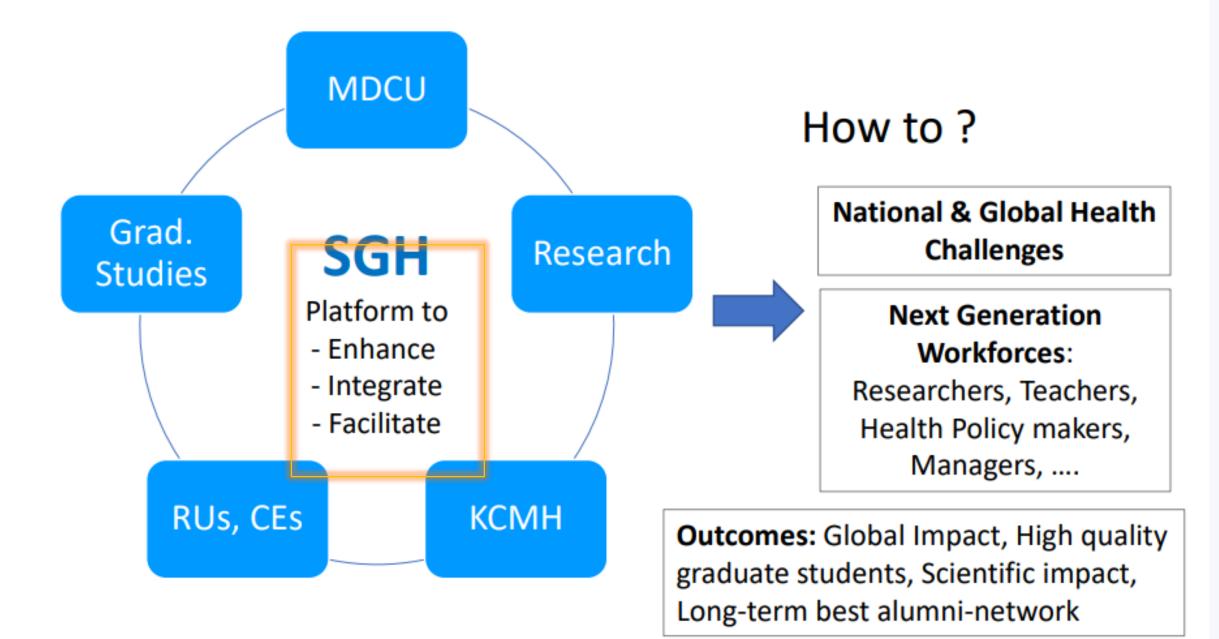
#### Vision

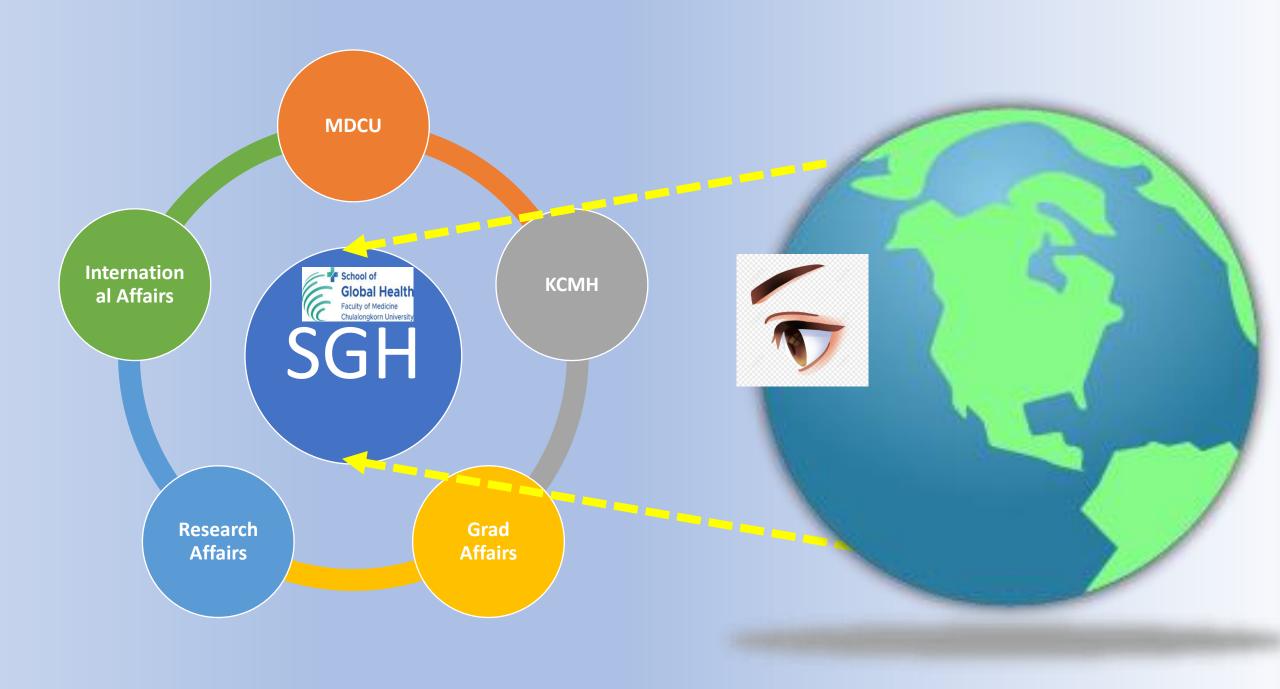
Leverage the global platform to strengthen cooperation in shaping health sustainability and to groom the future generation to find innovative solution for global health challenges

# "Filling gaps and building bridges for health equity"

### **Quick Links**

- Home
- SGH at a Glance
- Your Opportunities
- Scientific Advisory Committee
- **Our Programs**
- Non-degree Programs
- **Research Areas**
- **Global Network**
- News & Activities
- Contact Us







### - Global Health in three areas -

### EID/TM



### NCD

**Health Policy** 



The goals encompass improving: north-south and south-south cooperation and public-private partnerships

### **Scientific Advisory Committee**

Dr. Dennis Carroll Chair, Global Virome Project Leadership Board





Prof. Drew Weissman, M.D. Director of Vaccine Research University of Pennsylvania Perelman School of Medicine



Prof. Salim Abdool Karim, Ph.D. Director, Centre for the AIDS Program of Research in South Africa

CAPRISA Professor of Global Health, Columbia University



Dr. H. Clifford Lane, M.D. NIAID Deputy Director for Clinical Research and Special Projects, NIH, USA

Prof. Michelle A. Williams, Ph.D. Dean, Harvard T.H. Chan School of Public Health Angelopoulos Professor in Public Health and International Development



**Prof. Vivekanand Jha, M.D.** Executive Director George Institute for Global Health, India President, International Society of Nephrology



### Dr. Wantanee Kalpravidh, DVM, Ph.D.

Former Head, Global Emergency Centre for Transboundary Animal Diseases, Food and Agriculture Organization of the United Nations, Headquarters, Rome, Italy





Dr. Sudarat Damrongwatanapokin, DVM, Ph.D.

Global Health Security Senior Technical Consultant Former Regional Animal Health Advisor, USAID Regional Development Mission Asia





20<sup>th</sup> Governor Bank of Thailand



Prof. Linfa Wang, Ph.D.

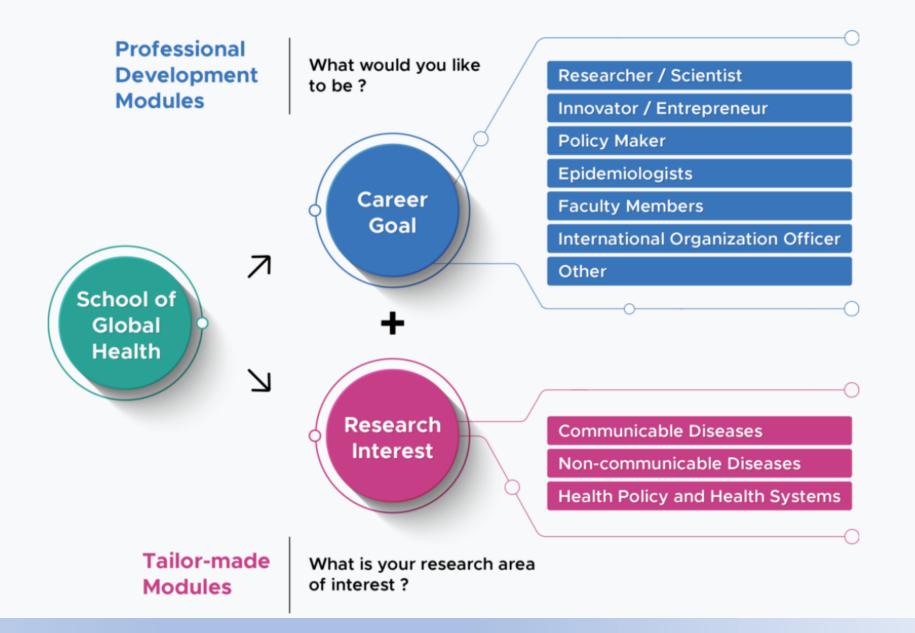
Director, Programme in Emerging Infectious Diseases Duke-NUS Medical School



Dr. Soawapak Hinjoy, DVM, DrPH

Director, Office of International Cooperation Department of Disease Control, Ministry of Public Health

### Your Choice Try designing your future here



### **OUR PROGRAMS**

With over 20 graduate programs ranging from Master's Degree, Ph.D., Residency and Fellowship Training, come explore our diverse course offerings in Clinical Sciences, Health Development, Medical Sciences, and Double Ph.D. Program today!

### **INTERNATIONAL PROGRAMS**

### PhD

- Double PhD in Biomedical Sciences & Biotechnology
- Clinical Sciences
- Medical Sciences
- Medical Physics

### MASTER

- Clinical Sciences
- Medical Sciences
- Health Development (Clinical Epidemiolgy)
- Medical Physics



#### **Research Areas**





SCHOOL OF GLOBAL HEALTH Faculty of Medicine Chulalongkorn University



Adolescent Health

Aging Medicine and Healthcare

Cancer

Emerging Infectious Disease





### **RESEARCH GROUPS**

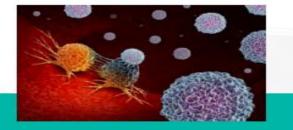
#### ADOLESCENT AND REPRODUCTIVE HEALTH

- Sexual and Reproductive Health
- Gender Identity and Transgender Care
- HIV and STD prevention
- Mental Health

#### **GENOMICS**

- Medical Genetics and Genomics
- Precision Medicine and Public health





#### CANCER

- Cancer Screening and Prevention
- Cancer Immunotherapy and Cellular Therapy
- Comprehensive Cancer Center
- Stem Cell and Organ Transplantation

#### NON-COMMUNICABLE DISEASES

- Critical Care Nephrology
- Obesity, Diabetes, Hormone and Metabolism
  Stroke Center
- Cognitive Neuroscience of Dementia
- Immunology and Immune-mediated Diseases
- Kidney Metabolic Disorders
- Gastroenterology and Motility
- Ophthalmology/Otorhinolaryngology
- Parkinson's Disease and Movement Disorders

#### **INFECTIOUS DISEASES** & TROPICAL MEDICINE

- Emerging Infectious Diseases and One Health
- Clinical Virology and Epidemiology
- HIV and Tuberculosis
- Vector Biology and Vector-Borne Diseases



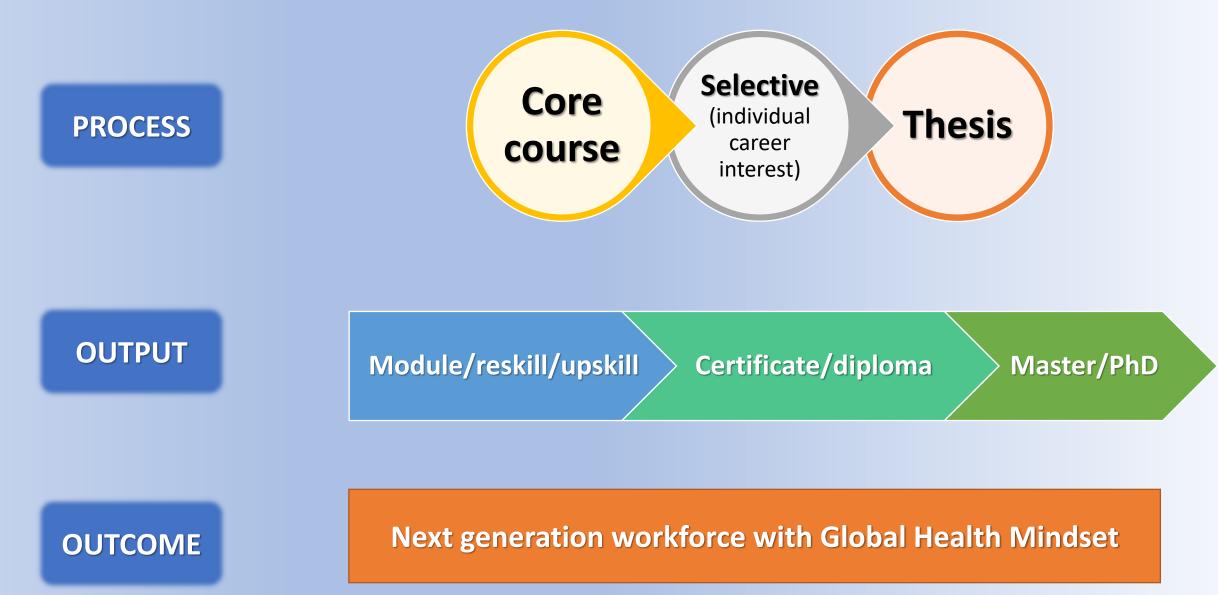
- Vaccine Development and Clinical Trials
- Immunization Policy and Implementation

For more information, please visit the website https://sgh.md.chula.ac.th

## **SGH** Activities

- A. Global Health Forum
- **B. SGH Lecture Series**
- C. Reskill/Upskill/New skill Courses
- D. Global Health Pathway Program (modular program)

Work closely with Graduate Affairs, MDCU Modular course Master degree PhD



### **SGH ACTIVITIES**



Dr. Dennis Carroll, the world-renowned expert and Distinguished Professor of Faculty of Medicine, discussed with young fellows and students in SGH Megatrends in Healthcare Workshop.

### **KNOWLEDGE IS POWER**

Here, we welcome and encourage the renowned experts to impart tried-and-true approaches to help better understanding global health trends and strategies to combat global health threats and challenges.







Dean Michelle Williams of Harvard T.H. Chan School of Public Health delivered a talk on Global Health's Bold Agenda.



The Sixth Chula VRC Vaccine Research Forum 2022

25 January 2022 Bhumisiri Building 12th Floor, the KCMH & Faculty of Medicine, Chulalongkorn University

### mRNA/LNP Technology

The Discovery for Global Heath

Honorable Speakers **Three Prince Mahidol Award 2021 Laureates** 



80



Katalin Kariko BioNTech & U Penn, USA

2022 SGH FORUM #4

**Drew Weissman Pieter Cullis** U British Columbia, Canada U Penn, USA



# **Global Concern**

#### **Endocrine Disrupting Chemicals (EDCs)** and Way Forward

Wednesday 20 July 2022, 13.00-14.30 (GMT+7)

Chulalonakorn Universitu, Thailand



#### Prof. Kyungho Choi, PhD, DVM

Department of Environmental Health Sciences School of Public Health Seoul National University, Korea

Prof. Vichit Supornsilchai, MD, PhD Prof. Young Lim Kho, PhD Department of Pediatrics Faculty of Medicine

Department of Health, Environment & Safety Eulji University, Korea

# **2022 SGH Academic Forums**



The School of Global Health presenting the 2022 SGH Forum #2

#### **Global Health Security : Threats and Ways Forward**

10 February 2022 at 9:00 AM

### The School of Global Health presenting the 2022 SGH Forum #3 **Global Megatrends: Reshaping Future Thailand**

27 เมษายน 2565 12.00 - 13.30 น.

สแกนเพื่อเข้าร่วม

ดร. สมเกียรติ ตั้งกิจวานิชย์

- Global Meaatrends ·

ศ.ดร.วิพรรณ ประจวบเหมา

ดร.กรรณิการ์ ธรรมพานิชวงค์

้นักวิชาการอาวุโส สถาบันวิจัยเพื่อการพัฒนาประเทศ

Environmental Sustainability -

<u> ทีวิทยาลัยปร</u>ะชากรศาสตร์ จฬาลงกรณ์มหาวิทยาลัง

- Aging Society & Urbanization -

ประธานสถาบันวิจัยเพื่อการพัฒนาประเทศไ

#### ดร.นพ.ปียะ หาณวรวงศ์ชัย ภาควิชาเวชศาสตร์ป้องกันและสังคม นะแพทยศาสตร์ จฬาลงกรณ์มหาวิทยาลัย Health & Healthcare System











Dennis Carroll, PhD Chair of Leadership Board Global Virome Project



Soawapak Hinjoy, DVM, DrPH Director of the Office of International Cooperation, DDC



Jiruth Sriratanaban, MD, PhD Associate Dean for Planning and Development, MDCU



# 2022 SGH Lecture Series





**Kidney Disease** as a Public Health Problem:

Shared Understanding and Sustainable Solutions

C zoom 18 May 2022 12.00 - 13.00 (GMT+7)



PROF. VIVEKANAND JHA Executive Director, George Institute India Chair of Global Kidney Health Faculty of Medicine, Imperial College London



**GH LECTURE SERIES #2** 

2022

PROF. KEARKIAT PRADITPORNSILPA Division of Nephrology, Department of Medicine Faculty of Medicine, Chulalongkorn University

SCAN TO REGISTER







### **THE COVID-19 PANDEMIC AND GLOBAL HEALTH DIPLOMACY:**

**CRITICAL LESSONS WE NEED TO LEARN** 

2022 SGH LECTURE SERIES #1

### **DR. DENNIS** CARROLL

3 MAY 2022 12:00-13:00 VIA ZOOM MEETING



ODERATOR **DR. JATE RATANACHINA** 

Website: https://sgh.md.chula.ac.th/ Email: sgh@chula.md





2022 SGH LECTURE SERIES #3 **Political Economy** and its Implications on Global Health

26 กรกฎาคม 2565 เวลา 12.00-13.30 น.



zoom

### นพ.สุวิทย์ วิบุลผลประเสริฐ

รองประธานมูลนิธิเพื่อการพัฒนานโยบายสุขภาพระหว่างประเทศ INTERNATIONAL HEALTH POLICY PROGRAM FOUNDATION

### วิทยากร



#### ดร.นพ.เจตน์ รัตนจีนะ

ภาควิชาเวชศาสตร์ป้องกันและสังคม คณะแพทยศาสตร์ จุฬาลงกรณ์มหาวิทยาลัย ผ้ดำเนินรายการ

JOIN FOR FREE



MEETING ID 974 7002 6034 PASSCODE 869593



# S≊TTING A NEW HEALTH AG≊∩DA

At the Nexus of Climate Change, Environment, and Biodiversity



## **One Health : Medicine + Veterinary + Environment**

Addressing Ecosystem Change and Pandemic Emergence through Strengthening One Health Implementation

POSAC Side Meeting 1000 2001 its (servery pitt). P.30- COOPERSING AN dana Seand debiaritateirak

Session 1: Impact of ecceystem disturbance on the pandamic threats. Sension 2: Research and One Health implementation to address eccevation change and pandemic emergence.

and the second

Public states (in

Adopting to Main a changing clientle

+

- One Health smort surveillance.
- One Health networking
- The effect of ecosystem disturbance on:
- Emerging vector-borne diseases
- Nipoh virus surveillence.
- Antibiotic resistant superlugs









Recipients

6 PMAC 1000 2023



Planta -

Speakers.

in the second



in the second

Haller Hars.

EID-SEARCH

Contraction Statistics

Dr. Thanawan Sintanawa, A000 Dr. Supeport: Machanophosophee, UDDD Or Plongning Li, Scollas TA Misson Dr. Rafanaperis Tangwangnines, DHCU, SOC One Health Qualifying the

Dept. of Foreign Wittins and Trade. Asstrolla-

And, Prof. Opens Publisherant, In Submit Benerosystempotic Dr. Manhanes Kalpravidh

### พหวฒนธรรม :

เข้าร่วมงาน

## SGH, สถาบันเอเชียศึกษา จุฬา ฯ, ฝ่ายการพยาบาล รพ จุฬาฯ , สำนักงานบรรเทาทุกข์ สภากาชาดไทย



คณะนิเทศศาสตร์ จุฬาลงกรณ์มหาวิทยาลัย

#### ( the second

### งานเสวนา ครั้งที่ 2 <u>เข้าใจ-เข้าถึง พห</u>ุวัฒนธรรม <mark>ูลดความเหลื่อมล้ำในกา</mark>รบริการสุขภาพ

เวลา 12.25 - 15.35 น. I ณ ห้อง 1216 ชั้น 12 อาคารภมิสิริมังคลานสรณ์ โรงพยาบาลจฬาลงกรณ์

> ศ.นพ.สุทธิพงศ์ วัชรสินธุ กรรมการผู้ทรงคุณวุฒิ สำนักบริหารวิชาการสุขภาพโลก คณะแพทยศาสตร์ จุฬาลงกรณ์มหาวิทยาลัย

#### ความสำคัญของพหุวัฒนธรรมกับการพัฒนา มาตรฐานคณภาพสถานพยาบาล (HA) รศ.ดร.นพ.จิรุตม์ ศรีรัตนบัลล์ กกรรมการผู้ทรงคณวุฒิ คณะกรรมการสถาบันรับรองคณภาพสถานพยาบาล

#### 13.45 - 15.05 u. soulaoun "มุมมองจากผู้รับและผู้ให้บริการ ทางการแพทย์ที่มีความหลากหลาย ทางวัฒนธรรม"





นายหมวดโท จิระวดี อิศรางกูร ณ อยุธยา

คณพัด ตัวแทนคนไร้บ้าน







คุณปวีณา วารีใส ผศ.ดร.เจษฎา ศาลาทอง ดำเนินรายการ





ผูดแลผู้ป่วยระยะทาย

คุณบุญธิดา สีมวงเร

# Networking and Collaboration







Nurse Training Course with Nursing Department, King Chulalongkorn Memorial Hospital

Academic Cooperation Meeting with Faculty of Tropical Medicine, Mahidol University



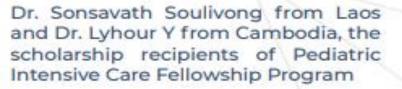
# SGH'S MISSION FOR GLOBAL HEALTH SECURITY AND HEALTH EQUITY

We also take it a mission to introduce to relevant stakeholder groups and society at large the global trends and experts' thoughts on global health security and health equity issues. In action to promote health equity through regional cooperation, networking forums have been organized in various areas. Scholarships are also provided for medical professionals to be trained in specialized practice and leadership program.







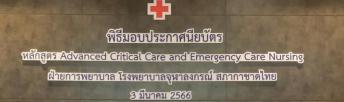


SCHOOL OF GLOBAL HEALTH Faculty of Medicine

> Advanced Critical Care & Emergency Care Nursing Course

Non-degree Programs











Workshop for Pediatric Critical Care 17-18 MAY 2023 @ Mahosot Hospital, Lao



โครงการส่งเสริม การสร้างผลผลิต งานวิจัยด้านสุงภาพโลก ปี พ.ศ. 2565 2022 Global Health Research Promotion Scheme

Application open until midnight of 30 September 2022

More information at https://sgh.md.chula.ac.th/ e-mail: sgh@chula.md



สำนักบริหารวิชาการสุงภาพโลก เปิดรับสมัครทุนสนับสนุน อาจารย์/นักวิจัยที่รับนิสิต บัณฑิตศึกษาร่วมดำเนินงานวิจัย ด้านสุงภาพโลก จำนวน 5 ทุน ทุนละ 1 แสนบาท

SCHOOL OF GLOBAL HEALTH Faculty of Medicine Chulalongkorn University

### คุณสมบัติผู้สมัคร

- เป็นอาจารย์/นักวิจัยงองคณะแพทยศาสตร์
 หรือ รพ.จุฬาลงกรณ์ สภากาชาดไทย
 - มีโครงการวิจัยด้านสุงภาพหนึ่งเดียว

# Global Health Research Promotion

## One Health

Climate Change and Health





DEDICATED TO THE HEALTH OF ALL CHILDREN\*

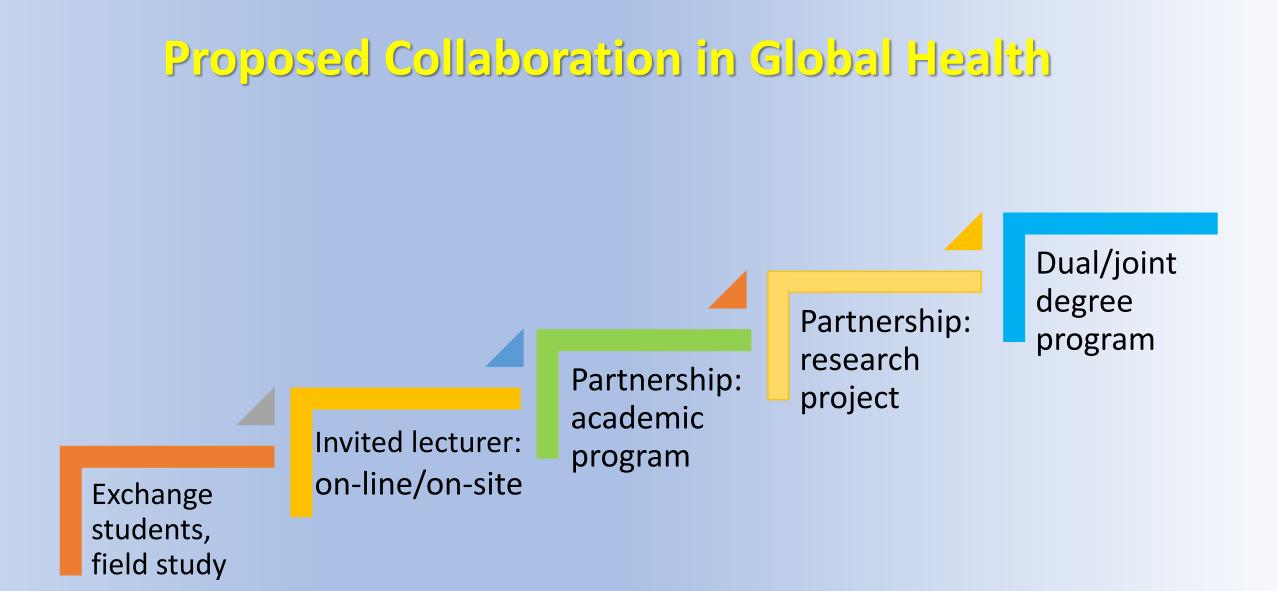
## The Role of Pediatricians in Global Health

Parminder S. Suchdev, MD, MPH, FAAP,<sup>a</sup> Cynthia R. Howard, MD, MPHTM, FAAP,<sup>b</sup> SECTION ON INTERNATIONAL CHILD HEALTH

- The American Academy of Pediatrics
- (AAP) declares that pediatricians are "dedicated to the health of all children."
- Pediatricians can work domestically and collaboratively across international borders to improve the health

of children throughout the world, regardless of the nationality, culture, language, religion, or socioeconomic status of those children

- Pediatricians may engage in global health activities in multiple domains, including but not limited to direct patient care, teaching and training, research, and advocacy
- Pediatric continuing medical education (CME) providers and departments of pediatrics are encouraged to make training in global health available to pediatricians and trainees



# tp://sgh.md.chula.ac.th

# **Thank You**



# SCHOOL OF GLOBAL HEALTH

Faculty of Medicine Chulalongkorn University