

SEAICRN

Minimizing the Impact of Infectious Diseases and Improving Human Health through Clinical Research



The South East Asia Infectious Disease Clinical Research Network (SEAICRN) is a collaborative partnership of hospitals and research institutions in South East Asia, United Kingdom and United States of America. The Network was first created in September 2005 in order to develop the necessary partnerships in South East Asia to (i) conduct collaborative clinical research that addresses emerging threats, (ii) increase evidence-based scientific knowledge, and (iii) improve the clinical management of patients with infectious diseases of public health importance.

The SEAICRN strives to advance the scientific knowledge and clinical management of infectious diseases in South East Asia through collaborative clinical research. The scientific output of the SEAICRN seeks to provide policy makers across the region with evidence-based data to support changes in public health policy and guidelines. Furthermore, the SEAICRN endeavours to boost the research capacity of participating institutions and individuals within the Network.

SEAICRN Partners



Research sites in Thailand, Viet Nam, and Indonesia provide scientific expertise and conduct studies.



Oxford University, Center for Tropical Medicine, Nuffield Department of Medicine provides scientific expertise.



FHI 360 and Social and Scientific Systems, Inc. provide clinical research administrative and management support services.



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The National Institutes of Health's National Institute of Allergy and Infectious Diseases (NIH/NIAID), USA and the Wellcome Trust, UK provide both scientific and financial support to the Network. The SEAICRN also receives in-kind support from the governments of Thailand, Viet Nam and Indonesia.



The World Health Organization (WHO) holds observer status in the Network



Dr. Nguyen Tran Hien*

Chair of GB
Director, NIHE, Viet Nam



Dr. Supamit Chunsuttiwat*

Senior Medical Officer
MoPH, Thailand



Dr. Siswanto*

Director CAHTCE
MoH, Indonesia



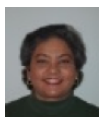
Dr. H. Clifford Lane*

Deputy Director for Clinical
Research and Special
Projects, NIAID, USA



Dr. Mike Turner*

Head of Infection and
Immuno-biology
The Wellcome Trust, UK



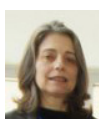
Dr. Yvette Delph*

Director,
Social & Scientific
Systems, Inc., USA



Ms. Sheila Clapp*

Project Director
FHI 360, USA



Dr. Cathy Roth*

Advisor, ADGO
WHO, Switzerland

Governing Board

The Governing Board (GB) represents the varied interests of the SEAICRN partners to reach consensus on the strategic direction for the Network.

Executive Committee

The Executive Committee (EC) provides oversight to the scientific and operational activities of the SEAICRN, reports to the Governing Board and supports the technical and administrative management aspects of the Network.



Asst Prof. Direk Limmathurotsakul*

Director of SEAICRN,
Mahidol U., Thailand



Prof. Kulkanya Chokephaibulkit*

Chief of Infectious Diseases,
Mahidol U., Thailand



Prof. Sasithon Pukrittayakamee*

Deputy Dean for International
Relations & Networking,
Mahidol U., Thailand



Dr. Tawee Chotpitayasunondh*

Pediatrician/ID
QSNICH, Thailand



Le Anh Tuan*

Chief of Office
Department of Health of
HCMC, Viet Nam



Prof. Nguyen Van Kinh*

Director, NHTD,
Viet Nam



Dr. Nguyen Van Vinh Chau*

Director, HTD, Viet Nam



Dr. Abu Tholib Aman*

Vice Dean, Gadjah Mada U.,
Indonesia



Prof. Dr. Mansyur Arif*

Chairman, Hasanuddin U.,
Indonesia



Prof. Dr. Pratiwi Sudarmono*

Vice Dean/Faculty of
Medicine, UoI, Indonesia



Janet Robinson*

Director Research,
Asia Pacific Region
FHI 360, Thailand



Dr. Lara Bethke*

Science Portfolio Advisor,
Wellcome Trust, UK



Dr. Chuen-Yen Lau*

Medical Officer,
NIAID, USA



Prof. Nicholas Day*

Director, MORU,
Thailand



Dr. Guy Thwaites*

Director, OUCRU,
Viet Nam

● Governing Board Member

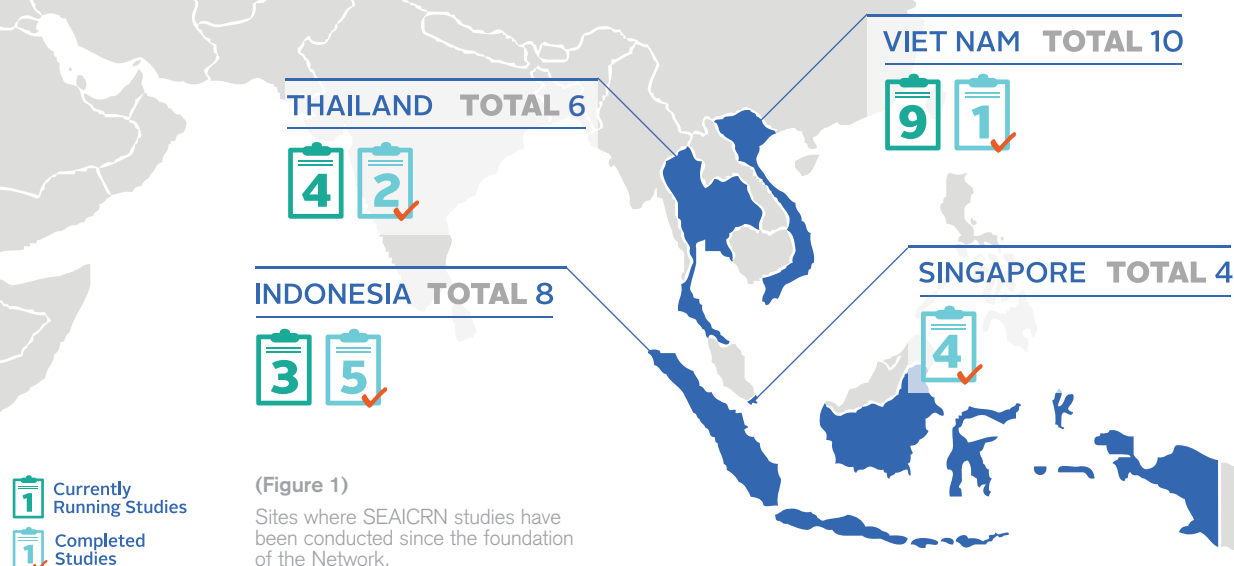
● Executive Committee Member

★ Both Governing Board and Executive Committee Member

Acronyms

NIHE=National Institute of Hygiene and Epidemiology; MoPH=Ministry of Public Health; MoH=Ministry of Health; NIAID= National Institute of Allergy and Infectious Diseases; CAHTCE=Center for Applied Health Technology and Clinical Epidemiology; HTD= Hospital for Tropical Diseases; QSNICH=Queen Sirikit National Institute of Child Health; MORU= Mahidol Oxford Clinical Research Unit; UoI=University of Indonesia; CH1= Children's Hospital 1; NHTD=National Hospital for Tropical Diseases; OUCRU= Oxford University Clinical Research Unit

SEAICRN Achievements



Since its foundation in 2005, the SEAICRN has been a growing Network and has up to date, collaborated with a total of 28 sites to carry out research activities across different countries in South East Asia (Figure 1). It is a dynamic and diverse Network comprised of partners who provide support to the scientific and operational activities of the SEAICRN.

The SEAICRN has published over 95 papers in peer reviewed scientific journals on a wide range of diseases of public health importance with a further 337 studies published by Network members. Examples of SEAICRN studies that have had an important impact on public health:

Effect of double dose oseltamivir on clinical and virological outcomes in children and adults admitted to hospital with severe influenza: double blind randomized controlled trial. (BMJ, 2013) Findings impact clinical management by showing that double dosing of Oseltamivir has no benefits in patients with severe influenza.

A Community Cluster of Oseltamivir-Resistant Cases of 2009 H1N1 Influenza (NEJM, 2010). Findings show a cluster of patients developed oseltamivir resistance and thus urge the need for studies of combination therapies in influenza.

Oseltamivir Is Adequately Absorbed Following Nasogastric Administration to Adult Patients with Severe H5N1 Influenza. (PloS ONE, 2008) Study outcomes reaffirm efficacious nasogastric drug administration route of oseltamivir in patients with severe influenza who cannot take drug orally.

Laboratory Capacity Building in Asia for Infectious Disease Research: Experiences from the South East Asia Infectious Disease Clinical Research Network (SEAICRN). (PLoS MED, 2010) Within the network, we enhanced laboratory facilities; ensured availability of necessary equipment; built human re-source capacity; and ensured quality laboratory management and testing to comply with good clinical laboratory practice (GCLP) and other international standards such as the ISO 15189.



Future Endeavors

An Observational Study of the Causes, Management, and Outcomes of Community-acquired Sepsis and Severe Sepsis in South East Asia

This study will take place for up to two years and 2,250 patients with sepsis or severe sepsis will be recruited; 750 patients will be enrolled in each of Thailand, Viet Nam, and Indonesia. This study aims to (i) understand which organisms are causing sepsis in South East Asia, (ii) define the current acute management of sepsis patients and (iii) closely monitor the outcome of those patients.

The Influenza Exome Sequencing Study - A study of the genetic determinants of severe influenza

The role of host factors on the risk of influenza infection and disease has received little attention compared to the research efforts that have focused on the viral factors. Therefore, this study aims to identify host genetic factors associated with severe influenza. The study will take a broad global approach and include cases from Thailand, Viet Nam, Mexico and the United Kingdom.

Rapid Response to Emerging Infectious Disease

ISARIC - International Severe Acute Respiratory and Emerging Infection Consortium - is a global initiative that aims to ensure that clinical researchers world-wide have open access protocols and data-sharing routes that will facilitate a rapid and coordinated response to emerging diseases that may turn into epidemics or pandemics. The SEAICRN aims to be a partner with ISARIC and conduct studies that are in line with ISARIC's ideals of wide ranging global collaboration, standardization of methods and transparency.

Network Expansion and New Partnerships

We welcome collaboration with other institutions and networks that have a similar mission, vision and ethos to the SEAICRN. If researchers and institutions intend to perform a study and would like to partner or collaborate with the SEAICRN, we are more than happy to consider and the decision will be made by the Executive Committee.



Further resources
and contact details

**South East Asia Infectious
Disease Clinical Research Network
(SEAICRN)**

8th Floor, Anekprasong Building,
Faculty of Tropical Medicine,
Mahidol University
420/6 Ratchawithi Rd., Ratchathewi
District, Bangkok 10400, THAILAND



www.seaicrn.org



infoseaicrn@gmail.com



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