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ONE HEALTH WORKFORCE

NEXT GENERATION: SOUTHEAST ASIA

YEAR 3 SEMI-ANNUAL REPORT
October 2021 – March 2022

AND CONTROL
FEVER OUTBRI
LIFE

This publication was prepared by the Southeast Asia One Health University Network in Thailand.

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The current five-year project titled One Health Workforce – Next Generation (OHW-NG) seeks to empower the One Health University Networks to provide model One Health programs for students and in-service professionals, equipping them with the skills to work towards possible solutions for complex problems such as high-impact infectious diseases or the phenomenon of **antimicrobial resistance** that is reducing the efficacy of medicines against pathogens. To this end, the Project activities fall under three broad objectives:

- ◆ **One Health training and empowerment.** The activities that fall within this Project objective are geared towards raising proficiency in One Health technical skills and competencies of the current and future members of the One Health workforce. SEAOHUN activities across the regional and country networks presently utilize strategies to develop and curate One Health curricula, One Health career development, foster experiential learning opportunities, and raise advocacy skills for utilizing collaborative and multi-disciplinary One Health approaches to address complex and dynamic health challenges.
- ◆ **One Health workforce assessment and tracking.** The Project intends to assess One Health competencies of the students and in-service professionals we have trained, track their career placement and professional development, and to identify the gaps in the workforce that we may fill.
- ◆ **Organizational sustainability.** As the main exponents for One Health in their respective regions, the OHW-NG Project supports SEAOHUN and the Africa One Health University Network (AFROHUN), by providing opportunities for strategic planning, networking, partnership development, and revenue generation.

This report captures progress to-date of the SEAOHUN and its country networks undertaken in the period of 1 October 2021 through 31 March 2022. The report also highlights the contribution of One Health Champions who are actively promoting our goal and objectives, and supporting implementation of our activities.

The Project is implemented in collaboration with the OHW-NG Global Consortium of partners under the leadership of the University of California, Davis' One Health Institute. We acknowledge the contribution of all thematic leads and the Consortium members who are instrumental for promoting the exchange of ideas on pedagogy, research, and cross-cultural contexts that may improve One Health capacity building efforts. It is an embodiment of the type of openness and collaboration that are necessary to tackle the solutions required by complex threats to health. We are thankful for the leadership of the One Health Institute and the continuing support of the Global Consortium for this project.

We are grateful to all the eight country networks and 95 member Universities across Southeast Asia who continue to implement our courses, develop new capacity-building opportunities, and seek out new fellow advocates for One Health. We also recognize Chevron, the USAID Strategies to Prevent (STOP) Spillover consortium, the Food and Agriculture Organization of the United Nations (FAO), and other partners at national, regional, and international levels who combine their efforts with ours so that development is ultimately sustainable and balanced for all living things.

Finally, SEAOHUN deeply thanks USAID for the vision and long-term commitment to global health, and the specific strategy to develop a sustainable One Health workforce in Southeast Asia.

Vipat Kuruchittham
Executive Director, SEAOHUN

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ACRONYMS

AMR	Antimicrobial Resistance
CAMBOHUN	Cambodia One Health University Network
COVID-19	Coronavirus Disease 2019
INDOHUN	Indonesia One Health University Network
LAOHUN	Lao One Health University Network
MMOHUN	Myanmar One Health University Network
MoECRT	Ministry of Education, Culture, Research, and Technology (Indonesia)
MyOHUN	Malaysia One Health University Network
NCO	National Coordinating Office
OHS	One Health Site
OHSC	One Health Student Club
OHW-NG	One Health Workforce - Next Generation
PAAW	Philippine Antimicrobial Awareness Week
PhilOHUN	Philippine One Health University Network
SEAOHUN	Southeast Asia One Health University Network
SPADA	Sistem Pembelajaran Daring
THOHUN	Thailand One Health University Network
USAID	United States Agency for International Development
VOHUN	Vietnam One Health University Network
WAAW	World Antimicrobial Awareness Week

One Health Workforce - Next Generation Project:

Progress for Year 3,
October 2021 to March 2022



Photo credit: CAMBOHUN

SEAOHUN

SOUTHEAST ASIA ONE HEALTH UNIVERSITY NETWORK

ABOUT SEAOHUN

- Our mission is to develop a resilient and competent One Health workforce by leveraging education, research, and training provided by Member Universities in Southeast Asia.
- The SEAOHUN Secretariat represents the Network at regional and international meetings to advocate for the role of universities to spread the One Health approach.
- We maintain regional programs to build capacity in One Health: 1) SEAOHUN Fellowships, 2) SEAOHUN Scholarships, 3) SEAOHUN Small Grants, and 4) Regional Students' Engagement.
- SEAOHUN was established in 2011 by ten universities in Indonesia, Malaysia, Thailand and Viet Nam.
- Visit our website at www.seaohun.org.

Highlights

- Five Year 2 SEAOHUN Fellows successfully completed their placements
- New fellowship placement established at the Institute for Medical Research in Malaysia
- FAO Regional Office of Asia and the Pacific (FAORAP) provided funding support for the SEAOHUN 2021 Small Grants Program
- SEAOHUN joined the Global Health Security Agenda (GHSA) in October 2021
- Welcomed incoming SEAOHUN Executive Board Chairperson Dr. Parntep Ratanakorn
- SEAOHUN University networks raised capacity in resource mobilization and partnership development
- Shared SEAOHUN Newsletter Issue #4

NETWORK OVERVIEW



8

Countries



95

Member Universities



34

One Health Student Clubs

Activities

Objective 1

SEAOHUN Small Grants Program

The SEAOHUN Small Grants Program provides grants of no more than 10,000 USD to innovative ideas in One Health field research, curriculum development, and training. Through the grants, SEAOHUN supports in-service health professionals and faculty members from member Universities to explore the One Health approach and its application in their respective sectors and academic disciplines.

The Secretariat received funding from FAORAP for five additional grant applications meeting their priorities. The call for the

Year 3 small grants applications is underway since 28 February 2022. A Frequently Asked Questions document was developed to answer common requests for clarification of potential applicants.

The Secretariat organized a webinar on 10 March 2022 to provide an orientation for 66 potential applicants, and to feature the progress of 2021 grant recipients. Dr. Ngo Thi Thuy Huong of Phenikaa University (Viet Nam) presented her research into the links between microplastic pollution and One Health. Dr. Regine Berba from the University of the Philippines – Philippine General Hospital presented on the Philippine Antimicrobial Awareness Week activities (please see the related PhilOHUN **Success Story**).

SEAOHUN 2022 Small Grants

Applications Information

MAX USD10K Proposed budget

Must be implemented within six months starting no later than 1 June 2022

The application deadline is 27 March 2022

Student Community of Practice

The Secretariat piloted the virtual Student Journal Club as a community of practice for students across Southeast Asia to connect with each other and teach each other about One Health by reviewing relevant research articles and other publications. The club format has a student volunteer summarize an article and present in the meeting, and then participants break into



280
Individuals trained
in One Health topics



103
Activities planned
for Year 3



16
Scholarships and
fellowships awarded

discussion groups with student leaders who provide prompt questions and report the group's discussion into plenary. The club's inaugural webinar topic was "Gender in One Health" held on 26 March 2022. Sixteen undergraduate and graduate students attended the webinar. It featured a presentation on the topic by Ms. Olesya Kochkina, and Ms. Siti Adriana Binti Ismail gave the summary on the selected reading "Overcoming the 'tyranny of the urgent': integrating gender into disease outbreak preparedness and response" (Smith, J.: 2019).¹

SEAOHUN Fellowship Program

SEAOHUN Fellowship Program motivates early- and mid-career professionals to join the One Health workforce or strengthen their capacities with this program that matches them to available short-term professional work experience. The program curates the placement opportunities with academic and research institutions, government agencies, and international policy-making organizations in Southeast Asia in order to provide practical experience working on One Health issues. The program is open to qualified professionals in One Health related disciplines from SEAOHUN countries. The following received their awards toward the end of Year 2 and have completed their fellowships in this period:

- Clara Imaniar, fellow at the Eijkman Institute for Molecular Biology (Indonesia)
- Ketkesone Phrasisombath, fellow at the FAO (Lao PDR)²
- Maw Rain, fellow at the SEAOHUN Secretariat (Thailand)
- Vo Duy Thanh, fellow at the Wildlife Conservation Society (Viet Nam)³
- Yusuf Sucol, fellow at the Bureau of Animal Industry, Department of Agriculture (Philippines)

In this period, Dr. Shih Keng Loong from Malaysia commenced his fellowship on 1 March 2022 at the Tropical Disease Research Center of Khon Kaen University (Thailand). Selection is underway for the placements with the International Livestock Research Institute (Viet Nam), and with a new partner, the Institute for Medical Research (Malaysia). More information on the Fellowship Program may be found here: www.seaohun.org/fellowship.

1 <https://doi.org/10.1080/13552074.2019.1615288>

2 Link to article: <https://www.seaohun.org/single-post/a-seaohun-fellow-s-experience-in-lao-pdr>

3 Link to article: <https://www.seaohun.org/single-post/seaohun-fellowship-on-wildhealthnet-vietnam-update>



Focus on Fellows

Name: **Clara Imaniar**
Sex: **Female**
From: **Indonesia**
Host Organization:
Eijkman Institute for Molecular Biology
(Indonesia)

Name: **Maw Rain**
Sex: **Female**
From: **Myanmar**
Host Organization:
SEAOHUN Secretariat (Thailand)

“The fellowship in SEAOHUN Secretariat was like a bridge for me which connect the real-world practical experience from theoretical knowledge I have gained from my Master’s study. It not only enhances my One Health competencies but also lets me practice leadership and become a part in building One Health Workforce for the Next Generation like me”

Maw Rain

Name: **Ketkesone Phrasisombath**
Sex: **Male**
From: **Lao PDR**
Host Organization:
FAO in Lao PDR

Name: **Yusuf Sucol**
Sex: **Male**
From: **Philippines**
Host Organization:
Bureau of Animal Industry,
Department of Agriculture
(Philippines)

Name: **Vo Duy Thanh**
Sex: **Male**
From: **Viet Nam**
Host Organization:
Wildlife Conservation Society (Viet Nam)

“I’ve gained much experience from my SEAOHUN fellowship under the supervision of FAO Lao PDR. I learned and improved my technical and coordination skills through many national One Health events. After the fellowship, I am committed to contributing to the development of One Health collaboration in Lao PDR.”

Dr. Ketkesone Phrasisombath

“I am truly grateful for all the lessons learned from my colleagues at WCS Vietnam and One Health professionals that I have met during the SEAOHUN fellowship program”

Mr. Vo Duy Thanh

Objective 2

The Secretariat is supporting the preparations for the Competency-Based Education Workshop scheduled for May 2022.

Objective 3

SEAOHUN joined the GHSA

SEAOHUN is honored to join as a member of the GHSA, uniting with over 70 countries, international organizations, non-government organizations, and private sector companies to help make our world safe and secure from global health threats. Our expression of interest was accepted in late October 2021. Please read more about this development in our [Success Story](#).

Resource Mobilization and Partnership Development

SEAOHUN aims to strengthen its resource mobilization and partnership efforts to build up the organizational sustainability of the regional- and country-level University networks. To this end, the Secretariat has organized the following:

- **Resource Mobilization Committee.** This committee is convened quarterly to discuss grant opportunities, partnership development efforts, and potential collaboration to apply for research grants and funding opportunities. The committee has 21 members from six country networks and the Secretariat, plus representatives from the Global leads for organizational sustainability.
- **Building Effective Partnerships Training, December 2021 through February 2022.** A training course was conducted for

selected participants who wanted to learn effective approaches for reaching potential partners. Five short training sessions guided trainees through the stages of building successful partnerships. The training was held by The Partnership Initiative, and was based on The SDG Partnership Guidebook (2022) that they developed together with the United Nations Department for Economic and Social Affairs. Fourteen participants attended the course from six country networks and the Secretariat.

- **Fundamentals of Resource Mobilization Training, 21 January 2022.** The OHW-NG Global Team facilitated this workshop to enable members of the Resource Mobilization Committee to learn foundation concepts and tools. The training was developed in response to the Networks' priority for resource mobilization. The workshop had 13 participants from five country networks and the Secretariat.

SEAOHUN Executive Board Meeting

The SEAOHUN Executive Board met virtually on 16 December 2021 to be briefed on the OHW-NG Project updates. They welcomed new members Dr. Agus Suwandono (INDOHUN Coordinator), Mr. Borin Sear (CAMBOHUN Coordinator), and Dr. Sudarat Damrongwatanapokin (SEAOHUN Senior Technical Advisor). The position of SEAOHUN Executive Board Chairperson formally passed from Dr. Le Thi Huong (Viet Nam) to Dr. Parntep Ratanakorn (Thailand); the new Vice Chairperson is Dr. Michael Tee (Philippines).

SEAOHUN Newsletter

Issue #4 is now available: <https://mailchi.mp/59e3243d244d/seaohunnewsletterissue4>.

Lessons Learned

Increase Preparation Lead Time

It is presently challenging for partner organizations to agree to host SEAOHUN Fellows as they are actively occupied with response efforts to the COVID-19 pandemic. The Secretariat has moved up the start of coordination to November for finding hosts for fellows to have ample time for discussion on the hosting assignment, accommodate their internal approval procedures, and even find alternative hosts if needed.

The application period for Small Grants has been moved up to March in order to accommodate time to obtain ethics approval from relevant Institutional Review Boards.

Promote Program Visibility

The SEAOHUN Newsletter is the main channel for increasing the visibility of

the regional programs and the partners that are supporting these. For example, Issue #3's theme was the Small Grants Program, and Issue #4's theme is on risk communication for One Health. Future newsletter editions will be devoted to themes in order to increase the dissemination to interested readers.

Prioritize Resource Mobilization

Our members of the resource mobilization committee are full-time academicians, hence aligning their schedules is challenging. We promoted member engagement through advanced reservation of their time to join quarterly meetings, sending gentle reminders before the meetings, sharing interesting funding opportunities via email, and offering members and country networks assistance if needed for proposal preparation.

Next Steps

The SEAOHUN Fellowship program is popular because it enables mutual benefits for both host and fellow. The Secretariat is looking to expand partnership to more organizations and private sector companies, and thus mobilize more resources for One Health.

The SEAOHUN Small Grants have counterpart local grants in partnership with CAMBOHUN,

LAOHUN, and MMOHUN in order to increase the access of in-service health professionals and academicians to support their One Health ideas. Local small grant selection will be conducted by the Networks, and applicants may submit their proposals in their respective languages.

Success Story

SEAOHUN Joins the Global Health Security Agenda

A milestone achievement for the Southeast Asia One Health University Network was formal admittance as a member of the Global Health Security Agenda in October 2021. The GHSA is a multilateral and multisectoral collaboration of over 70 countries, international and non-government organizations, and private sector companies who envision a world safe and secure from global health threats caused by infectious diseases. The GHSA was initiated in 2014 to better prepare for the infectious disease outbreaks, drawing on experience from epidemics such as SARS (2002), H1N1 influenza (2009), MERS-CoV 2012, H7N9 influenza (2013), and Ebola (2014).

As a strong advocate for global health security, SEAOHUN joined the global platform to synergize efforts with other GHSA partners working to develop resilient and competent One Health workforces in Southeast Asian countries to effectively prevent, detect and respond to infectious disease threats by leveraging education, research, and training excellence. SEAOHUN advocates the role of universities to build the capacity of professionals across sectors to solve complex One Health issues, conduct research for evidence-based decision making, and assist governments with surge capacity before and during public health emergencies.

While SEAOHUN's formal membership happened recently, we have been participating in the GHSA Workforce Development and Laboratory Systems action packages since 2018. The invitation to attend GHSA activities was a recognition of our contribution to One Health workforce development with the support of United States Agency for International Development (USAID) One Health Workforce and One Health Workforce – Next Generation (OHW-NG) Projects. In addition, SEAOHUN organized a side event entitled

“University Role in Advancing One Health Workforce Development” during the GHSA Ministerial Meeting in Bali, Indonesia in 2018.



As a GHSA member and in partnership with the USAID OHW-NG Global Consortium, SEAOHUN is committed to promoting the development, delivery, institutionalization, accreditation, and employer-recognition of training and educational activities in alignment with One Health core and technical competencies. To realize this commitment, SEAOHUN actively steers its 95 member Universities across eight Southeast Asian countries to contribute towards the three GHSA action packages:

- **Workforce Development:** to help develop a fully competent workforce from diverse occupations capable of responding to infectious disease outbreaks and of multisectoral collaboration.
- **Laboratory Systems:** to support real-time bio-surveillance through robust national laboratory systems with effective point-of-care and laboratory-based diagnostics.
- **Zoonotic Disease:** to help increase human resource and strengthen technical capacities of animal, human and wildlife health services in support of zoonotic diseases prevention, detection, and response activities.

SEAOHUN looks forward to working in unity with all relevant GHSA stakeholders on this critical platform who are passionate about global health security, exchanging experiences on approaches to workforce development, and sustaining the integration of collaborative One Health approaches for a safer, healthier and more secure future.



SOUTHEAST ASIA ONE HEALTH UNIVERSITY NETWORK MEMBERS

LAOHUN

Champasack University
National University of Laos
Savannakhet University
Souphanouvong University
University of Health Sciences, Lao PDR

MMOHUN

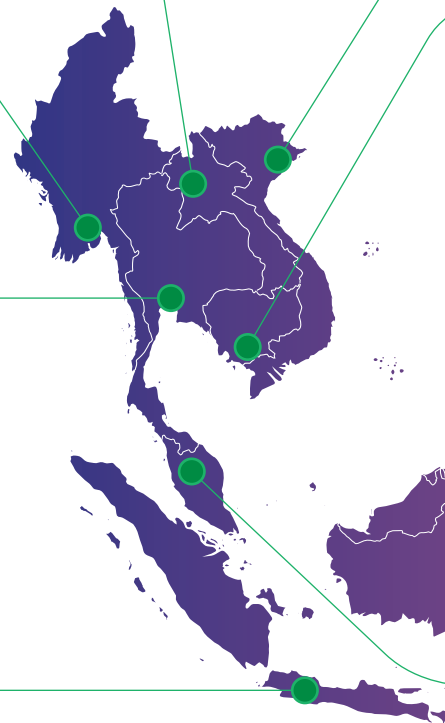
University of Medicine 1
University of Public Health
University of Veterinary Science, Yezin

INDOHUN

Airlangga University
Andalas University
*Bogor Agriculture University**
Brawijaya University
Cendrawasih University
Diponegoro University
*Gadjah Mada University**
Hasanuddin University
Mataram University
Muhammadiyah Hamka University
Mulawarman University
Nusa Cendana University
Padjajaran University
Sam Ratulangi University
Sriwijaya University
Syiah Kuala University
Udayana University
*University of Indonesia**
University of North Sumatra
University of West Nusa Tenggara

THOHUN

Burapha University
*Chiang Mai University**
Chulabhorn Royal Academy
Chulalongkorn University
Kasetsart University
Khon Kaen University
Maharakham University
*Mahidol University**
Prince of Songkla University
Thammasat University
Walailak University



CAMBOHUN

Kampong Cham National Institute of Agriculture
Prek Leap National Institute of Agriculture
Royal University of Agriculture
Royal University of Phnom Penh
University of Health Sciences, Cambodia

VOHUN

Bac Giang Agriculture and Forestry University
Buon Ma Thuot University
Can Tho University
Can Tho University of Medicine & Pharmacy
Dong A University
Hai Phong University of Medicine & Pharmacy
Hanoi Medical University*
Hanoi University of Public Health*
Hue University of Agriculture & Forestry
Hue University of Medicine & Pharmacy
Nam Dinh University of Nursing
Nghe An University of Economics
Nong Lam University - Ho Chi Minh City
Phenikaa University
Quy Nhon University
Tay Nguyen University
Thai Binh University of Medicine and Pharmacy
Thai Nguyen University of Agriculture & Forestry
Thai Nguyen University of Medicine & Pharmacy
Tra Vinh University
University of Medicine and Pharmacy at Ho Chi Minh City
University of Medicine and Pharmacy - Vietnam National
University, Hanoi
Vietnam National University of Agriculture*
Vinh Long University of Technology Education
Vinh Medical University

PhilOHUN

Benguet State University
Cavite State University
Central Luzon State University
Central Mindanao University
Pampanga State Agricultural University
University of Eastern Philippines
University of the Philippines Los Baños
University of the Philippines Manila
Visayas State University

MyOHUN

University of Cyberjaya
International Islamic University Malaysia
International Medical University Malaysia
Management and Science University
Royal College of Surgeons in Ireland &
University College Dublin Malaysia Campus
Universiti Kebangsaan Malaysia*
Universiti Malaya
Universiti Malaysia Kelantan
Universiti Malaysia Sabah
Universiti Malaysia Sarawak
Universiti Malaysia Terengganu
Universiti Putra Malaysia*
Universiti Sains Islam Malaysia
Universiti Sains Malaysia
Universiti Sultan Zainal Abidin
Universiti Teknologi MARA
Universiti Tunku Abdul Rahman

*Founding Universities



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SEA OHUN
Southeast Asia One Health
University Network

CAMBOHUN
CAMBODIA ONE HEALTH UNIVERSITY NETWORK

CAMBOHUN

CAMBODIA ONE HEALTH UNIVERSITY NETWORK

NETWORK OVERVIEW



5

Universities



6

Faculties



8

Activities planned for Year 3

ABOUT CAMBOHUN

- ◉ CAMBOHUN promotes One Health activities for local and regional visibility.
- ◉ Our mission is to develop a sustainable network of One Health professionals with cross-sectoral expertise to understand and address public health threats.
- ◉ Established in June 2019.
- ◉ Visit our website at www.cambohun.org.

Highlights

- The first One Health Field Trip was organized for 20 undergraduate students, Kep Province, 26-28 March 2022.
- CAMBOHUN awarded its first small grant to Ms. Limkuoch Hov of Kampong Cham National Institute of Agriculture; Phnom Penh, 30 March 2022.

Activities

OBJECTIVE I

One Health Experiential Learning

CAMBOHUN National Coordination Office (NCO) organized a field trip to Kep Province from 26-28 March to engage students in One Health, and stimulate the establishment of One Health Student Clubs in their respective universities. The activity attracted 20 students and five faculty members from all member Universities of the Network. The field trip provides students and faculty members opportunities to: 1) practice identifying One Health issues and proposing solutions; 2) exchange knowledge and skills in One Health and its approach among faculties and students; 3) improve One Health knowledge and communication skills; and 4) engage the students for One Health Student Club establishment. Read more in our [Success Story](#).

CAMBOHUN continues to raise the capacity of the country's One Health workforce in participatory epidemiology by building upon the training conducted in Year 2. The NCO has begun preparations for a field practical, enabling the participants to apply the tools learned in that training event in a rural community near Phnom Penh in May 2022.

Encouraging Careers in One Health

CAMBOHUN is searching for host organizations for undergraduate student

interns to provide hands-on and real-world learning experiences addressing One Health issues. The internship is intended to enable undergraduate students to gain hands-on experience with One Health issues during their two-month semester break, and hopefully be motivated to pursue careers in One Health-related sectors after graduation.

Promoting One Health Research in Cambodia

CAMBOHUN awarded its first Local Small Grant to Ms. Limkuoch Hov and her team on 30 March 2022. Their winning proposal is on a study of the knowledge and practices of farmers regarding avian influenza. The CAMBOHUN NCO held a call for research proposals from 1-18 February, with a budget ceiling of USD 5,000, and received five applications in total. The Network is considering continuing a country-level small grant program for researchers interested in addressing One Health issues in Cambodia.

CAMBOHUN awards a small grant to Ms. Limkuoch Hov, 30 March 2022

Image source: CAMBOHUN



Nine people attended the awarding ceremony held at Prek Leap National Institute of Agriculture; the participants represent the USAID Mission, the Food and Agriculture Organization of the United Nations, and CAMBOHUN.

OBJECTIVE 2

SEAOHUN and CAMBOHUN are supporting the Global Team-led activities for One Health Workforce Assessment and Tracking.

OBJECTIVE 3

Board Meeting on 14 January 2022

CAMBOHUN held the first Board Meeting for the Project Year 3 in Phnom Penh at the

University of Health Sciences. Attendees included representatives from all member Universities, and provided the opportunity to welcome the newest members – the Kampong Cham National Institute of Agriculture and the Royal University of Phnom Penh. The NCO provided a briefing on achievements made and challenges faced in OHW-NG Year 2, and proceeded to a review and approval of the Year 3 work plan. The Board Members recommended that, in addition to the Ministry of Health and Ministry of Agriculture, Forestry and Fisheries, CAMBOHUN should apply for endorsement from the Ministry of Environment and the Ministry of Education, Youth and Sports. Ministry endorsements show government recognition of CAMBOHUN and its project activities, and facilitate a smoother implementation of the OHW-NG Project in the country.

Lessons Learned

The students who attended the One Health field trip appreciated the experience very much. They recognized that the trip was an opportunity to learn about food safety using the One Health concept in practice, especially since the field trip was their first real exposure to the approach. The trip also

provided a unique opportunity to meet students from other universities who were learning about One Health and expand their personal networks on the cusp of entering the workforce. The CAMBOHUN NCO plans to build on this experience for the Year 4 work plan.

Next Steps

In the coming quarter, CAMBOHUN NCO is supporting preparations for the participatory epidemiology training, scheduled for the next quarter.

The NCO will be coordinating with government and other institutions to host One Health interns; internships are planned to commence during the May – June semester break.

Success Story

CAMBOHUN's Students took a trip to One Health

Educational field trips play a significant role in the One Health teaching curriculum. Students should be encouraged to join field trips in terms of education to have ample opportunity to witness new things, learn about new environments at their own pace, and immerse themselves in an authentic One Health experience. Most importantly, field trips contribute greatly to building self-confidence and foster a sense of teamwork and community. The Cambodia One Health University Network (CAMBOHUN) promotes the concept of a One Health field trip for students to practice observation, conduct non-experimental research, or to gain experiences outside their everyday activities.

“ I would like to recommend that other students should engage or involve in any field trips, if possible, to gain more knowledge and skills not only for the health of people connect to animals' health but also for environmental health.”

**Lim Lengchhun, student,
University of Health Sciences**

The One Health field trip was organized for the first time for the network, benefitting 25 participants from CAMBOHUN's five member Universities. Students and their accompanying faculty members stayed in Kep Province, located to the south of Phnom Penh



City, 26 to 28 March 2022. The field trip provided opportunity to practice identifying One Health issues and proposing innovative solution to these issues, and apply One Health knowledge and skills. During the trip, the students learned specifically about One Health and its importance to promoting food safety, as well as practice some key tools from participatory epidemiology. They also happily began forming new friendships with each other, a critical peer networking opportunity for future One Health professionals.

The trip was organized by CAMBOHUN utilizing the experiential learning method, and is part of the One Health Workforce – Next Generation Project funded by the U.S. Agency for International Development.

“ This field trip trained me how to study and investigate One Health issues and solve them, and how to work and communicate within a team.”

**Lao Ratt, student,
Royal University of Phnom Penh**



INDOHUN

INDONESIA ONE HEALTH UNIVERSITY NETWORK

NETWORK OVERVIEW



20
Universities
34
Faculties



5
One Health
Collaborating Centers
12
Laboratories



5
One Health
Student Clubs



20
Activities planned
for Year 3



10,523
Students reached
by One Health sessions
on Kampus Mengajar

ABOUT INDOHUN

- ◉ We are a network of Indonesian higher education institutions promoting collaboration in human, animal and environmental health sectors in Indonesia.
- ◉ We serve as a platform for academics, stakeholders, scientists, community members and professionals to work together to achieve the best health for everyone.
- ◉ Established in January 2012.
- ◉ Visit our website at www.indohun.org.

Highlights

- Three One Health course modules have been uploaded to the Ministry of Education, Culture, Research and Technology (MoECRT) online learning platform, SPADA at <https://lmsspada.kemdikbud.go.id/>.
- Three virtual preparation training sessions were conducted to support the implementation of MoECRT *Kampus Mengajar* program; January to February 2022.
- Several activities have been conducted to support universities and government institutions in preparing health graduates and health officers as part of One Health workforce through assisting training programs and enriching study materials.
- Continued conducting social media campaigns on Instagram to raise awareness on antimicrobial resistance (AMR) as well as other One Health-related issues.

Activities

Objective 1

Building and assisting the professional development of the One Health workforce.

INDOHUN continues to build and support the knowledge, skills, and abilities of both the pre-service and in-service One Health workforce in order to further their professional development.

One Health Training Modules integration program. The COVID-19 pandemic underscored the need for robust online learning options. To address this challenge, the Ministry of Education, Culture, Research and Technology (MoECRT) launched the Indonesian online learning platform known as *Sistem Pembelajaran Daring* (SPADA) Indonesia. INDOHUN collaborated with MoECRT to develop three modules for SPADA, which can be used by students and lecturers to gain knowledge and new perspectives on One Health. Read our **Success Story** for more details.

Preparation training for 'Kampus Mengajar' program. MoECRT established the *Kampus*

Mengajar program¹ to engage third-year university students from across Indonesia to support primary education during the COVID-19 pandemic. Students who start the program receive training in cross-disciplinary skills to gain a strong foundation for this program. INDOHUN conducted three virtual sessions on 28 January, 7 and 16 February, training students on coordination, communication, facilitation skills, and design thinking. INDOHUN experts led the sessions that were marked with interest from more than 10,000 participants. The recording is accessible through: <https://youtu.be/3U-GRqzMXtA>.

The Ciloto Health Training Center of the Ministry of Health, conducted several workshops for health graduates and health officers. INDOHUN contributed experts from Gadjah Mada University and Brawijaya University and materials related to One Health, AMR, and poultry health management.

¹ About program (in Bahasa Indonesia): <http://ditpsd.kemdikbud.go.id/hal/kampus-mengajar>

Objective 2

SEAOHUN and INDOHUN are supporting the Global Team-led activities for One Health Workforce Assessment and Tracking.

Objective 3

Improve public awareness on One Health activities in Indonesia and OHW-NG activities

To expand INDOHUN's reach, we focused on promoting our activities through digital

platforms such as the INDOHUN website, social media, media and communication channels, and the Situsehat e-learning platform. Eight articles and 54 posts were made on One Health relevant topics including AMR, eye health, COVID-19, World Cancer Day, and International Women's Day. During the reporting period, we reached 16,014 viewers, and 3,073 engagements (e.g. likes, comments, shares) through the social media campaigns. The Web analytics show 31,255 unique visitors visited INDOHUN webpages with over 2.5 million clicks.

Lessons Learned

Well-maintained coordination with related partners and stakeholders, especially the Technical Counterpart Agency

There were changes in government structure and administration issues this year, similar to the previous year. However, we learned that the role of the MoECRT as Technical Counterpart Agency is very significant and important for smooth coordination of project implementation. MoECRT helped us get

the full support from the new government and collaborate on any future programs, projects, or activities. With support from the United States Agency for International Development, we furthered relationships with global health security partners such as the Food and Agriculture Organization of the United Nations and the U.S. Centers for Disease Control (CDC) in Indonesia to help support One Health workforce development in the country.

Next Steps

INDOHUN is committed to supporting university networks and to assisting government ministries, particularly the MoECRT, in training the current and future One Health workforce. Through the OHW-NG Project, we will continue to support the implementation of One Health Core Competencies training and related

activities to expand the understanding and application of the One Health approach. In addition, in the next quarter INDOHUN will closely work and collaborate on a "Training to Degree" Conversion Program with the Field Epidemiology Training Program Indonesia at the Directorate of Surveillance, Ministry of Health and the CDC in Indonesia.

Success Story

Government of Indonesia Integrates One Health Modules into the Official Online Learning Platform

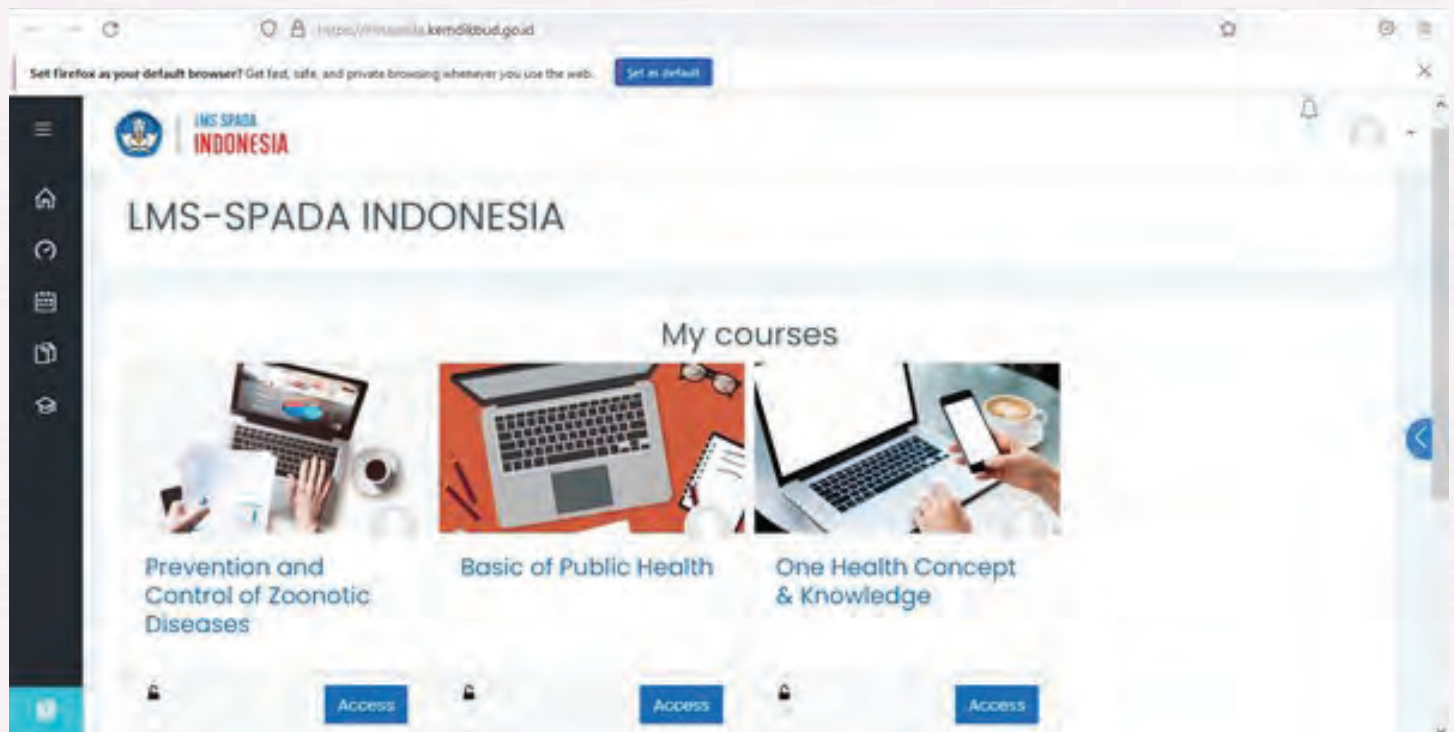
The One Health concept is not yet part of the official university-level health education curricula in Indonesia. Lecturers seeking to teach this concept or students wishing to learn about it must find available educational materials created by third parties, whose materials may not be relevant or fully represent the learning and development goals of Indonesia. To fill this gap, the Indonesia One Health University Network (INDOHUN) has been developing teaching and training materials on One Health, and delivering these through webinars and training events.

This year, the Government of Indonesia, through the Ministry of Education, Culture, Research, and Technology (MoECRT), invited INDOHUN to contribute modules on One Health to *Sistem Pembelajaran Daring* or SPADA, the official digital online learning platform. SPADA is a secure digital space where lecturers, students, and others can go for online teaching and learning activities.

With the support from the U.S. Agency for International Development, INDOHUN and MoECRT jointly selected from among the One Health training modules produced by the INDOHUN's members for inclusion into SPADA. Three modules are successfully integrated into the platform: 1) Basics of Public Health; 2) One Health Concepts and Knowledge; and 3) Prevention and Control of Zoonotic Disease. In addition to the lectures, each of these modules contain a variety of other learning tools, such as case studies, videos, and quizzes. These tools diversify and invigorate the learning experience for students and allow for broad-scale access.

We at INDOHUN hope our modules will be widely used as references for students and other related stakeholders. We believe that these modules will be a written One Health legacy that can be easily and freely accessed by everyone. The ability to gain knowledge and new perspectives on One Health is just one click away.

Try out SPADA at <https://lmsspada.kemdikbud.go.id/>.



INDOHUN's One Health courses are now found in SPADA, the official online learning platform of the Government of Indonesia

Image source: INDOHUN



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LAOHUN
Lao One Health University Network

LAOHUN

LAO ONE HEALTH UNIVERSITY NETWORK

NETWORK OVERVIEW



5

Universities



18

Faculties



7

Activities planned for Year 3

ABOUT LAOHUN

- LAOHUN seeks to promote collaboration among our University Members to promote the One Health concept and approach.
- Our mission is to develop the capacity of our members to promote One Health awareness, knowledge, and practice through expansion of universities, network strengthening, and advancement of the One Health workforce.
- LAOHUN has five member universities and was established in 2018.
- Visit our website at www.laohun.org.

Highlights

- LAOHUN Board Meeting, 10 December 2021.

Activities

OBJECTIVE 1

One Health Activities for Students

The National University of Laos (NUOL) and the University of Health Sciences (UHS) are each preparing activities to engage students to learn about One Health and how it is relevant to their disciplines. The purpose of these activities is to increase and sustain student interest in One Health, and motivate them to establish One Health Student Clubs. These universities will both conduct a seminar and start a discussion group. The seminar will feature the video made by the winner of the 2021 Regional Student Competition conducted by the Southeast Asia One Health University Network (SEAOHUN). Facilitators will prompt students to review the video and propose how to improve it. Discussion groups will utilize the format wherein students select and discuss a paper relevant to One Health.

Preparations for Participatory Epidemiology Training

The National University of Laos (NUOL) and the University of Health Sciences (UHS) are collaborating to develop a short training course on participatory epidemiology. The objective of the course is to increase knowledge of training participants in the concepts and approach to participatory epidemiology, and provide opportunities

to gain skills such as cross-sectoral collaboration, area mapping, and semi-structured interviewing. The target participants are faculty members from Champasack University, Savannakhet University, and Souphanouvong University.

OBJECTIVE 2

SEAOHUN is supporting the Global Team-led activities for One Health Workforce Assessment and Tracking.

OBJECTIVE 3

LAOHUN Board Meeting on 10 December 2021

The LAOHUN Board conducted their first meeting for Project Year 3. The Board met virtually to discuss and approve the work plan for October 2021 to September 2022, and report on the activities conducted in October 2020 to September 2021. Fifteen representatives of the five member universities attended this meeting. Among the decisions discussed include selection of the topic for One Health training, and prioritizing Souphanouvong, Savannakhet and Champasak universities for the LAOHUN Small Grants Program.

Next Steps

In the next quarter, LAOHUN will focus on preparations for the upcoming training on participatory epidemiology scheduled

for April 2022, and for the selection of the recipients of the LAOHUN Small Grants Program.

MyOHUN

MALAYSIA ONE HEALTH UNIVERSITY NETWORK

NETWORK OVERVIEW



17

Universities



20

Faculties



8

One Health Student Clubs



21

Activities planned for Year 3

ABOUT MyOHUN

- This network was built to promote the philosophy and spirit of One Health for working together to respond to new and emerging diseases.
- **Mission:** To link and enable universities, government, and relevant agencies to generate social and intellectual capital on One Health against infectious and zoonotic disease.
- Our Network comprises 17 universities, 20 faculties, two Ministries and seven departments/line agencies.
- Established in 2012.
- Visit our website at www.myohun.com.

Highlights

- MyOHUN created One Health experts' database, <https://myohun.com/directory/>.
- Thirty-eight representatives from respective MyOHUN member Universities attended the MyOHUN Year 3 Strategic Planning Meeting held from 14-16 January 2022.
- MyOHUN was successfully re-certified for the ISO 9001:2015 by the audit held on 20 and 21 January 2022.
- MyOHUN secured collaboration with Sandia National Laboratories to solidify the One Health Biorisk Management capacity building for Malaysia.

Activities

OBJECTIVE 1

Grants to support MyOHUN One Health Student Clubs (OHSCs)

Across all MyOHUN member Universities, there are eight OHSCs that have each conducted a variety of activities to educate fellow students on One Health concepts and values. Eight grants are available to the clubs to support the design of their activities to train students in One Health. Each club must apply for the grant, and the National Coordinating Office (NCO) will review these for suitability. To date, four OHSCs have submitted their proposals and these are currently under NCO review; these clubs are from the Universiti Kebangsaan Malaysia, Universiti Malaysia Kelantan, Universiti Teknologi MARA, and Universiti Sains Islam Malaysia.

OBJECTIVE 2

MyOHUN has developed a database of its experts from animal, human, and environmental health fields. This will ensure that these experts are reachable

and identifiable to relevant stakeholders. The database is published on the MyOHUN website and is comprised of names of individual MyOHUN members, who are listed according to their respective field(s) of expertise at their university, ministry, or government agency/department. The database will allow individuals who are looking for Malaysian experts in a particular One Health field to search for and get in touch with MyOHUN members.

OBJECTIVE 3

Progressing towards MyOHUN sustainability

MyOHUN strives to strengthen its functional and organizational capacities to ensure network sustainability through systematic management and networking.

MyOHUN held its Strategic Planning Meeting from 14-16 January 2022 in Melaka, Malaysia. MyOHUN Chairman, Professor Dr. Abdul Rahman Omar, gave welcoming remarks and Professor Dr. Latiffah Hassan presented updates on the One Health Workforce Next-Generation (OHW-NG) Project, including

the activities for Year 3. The two-day meeting was devoted to discussions by the 38 representatives from the various institutional partners to plan the year's activities.

MyOHUN Executive Board members met on 12 March 2022 to discuss the direction towards sustainability of the One Health University Network in Malaysia. MyOHUN Executive Board members consist of representatives of government agencies, institutions, and universities, solidifying the organizational management structure of the network.

Since 2015, the NCO's Quality Management System demonstrates that MyOHUN operates in compliance with the International

Standard 9001: 2015; the NCO passed this year's audit held in January 2022.

Building Partnerships for One Health

On 4–8 February and 23–27 March 2022, Sandia National Laboratories, in collaboration with MyOHUN, organized two Biorisk Management workshops in Malaysia lasting five days each, with six more planned until August this year. The target participants are researchers from key government institutions and major research universities from among our members. MyOHUN established the collaboration with Sandia National Laboratories with an aligned goal of building capacity for the One Health workforce to prevent, detect, and respond to infectious disease threats.

Lessons Learned

Strengthened network sustainability through collaborations

MyOHUN is looking to create more networking opportunities, collaborations, and relationships with ministries, agencies, and international organizations in order to continue to build a solid foundation for

a sustainable organization. The MyOHUN database of experts that has been developed will ideally contribute to this, ensuring that experts can be identified easily and more readily to facilitate collaborations. In addition, MyOHUN has worked with global partners to progress the Network's One Health Academy further.

Next Steps

As part of ensuring sustainability, MyOHUN has been formulating multiple platforms by which it can exist as its own entity, such as MyOHUN One Health Foundation and MyOHUN One Health Academy.

MyOHUN has standardized the network's management strategies, structure, and best practices to create a stronger foundation.

MyOHUN will continue to improve the network's management, structure, membership, and workforce capacity by engaging with more partners in the private sector and international organizations with the goal of achieving full sustainability by the end of the OHW-NG Project in 2024.

Success Story

Malaysia One Health Student Clubs Marching Ahead

The Malaysia One Health University Network (MyOHUN) established the university One Health Student Club (OHSC) as part of the country network in 2016. With an overall goal to empower students with vital One Health competencies before they graduate, seven OHSCs were formed at network universities including: Universiti Putra Malaysia, Universiti Kebangsaan Malaysia, Universiti Sains Malaysia, International Islamic University Malaysia, Universiti Teknologi MARA, Universiti Malaysia Kelantan, and Universiti Malaysia Sarawak.

One Health Student Clubs consist of relatively young students, and MyOHUN realized that shaping their views and values of tomorrow's world will be strengthened through the concepts and practices of One Health. Leveraging support from the US Agency for International Development and engagement with the One Health Workforce and One Health Workforce – Next Generation projects, MyOHUN's OHSCs have been enabled to develop and implement activities mutually beneficial to their respective communities and themselves as learners.

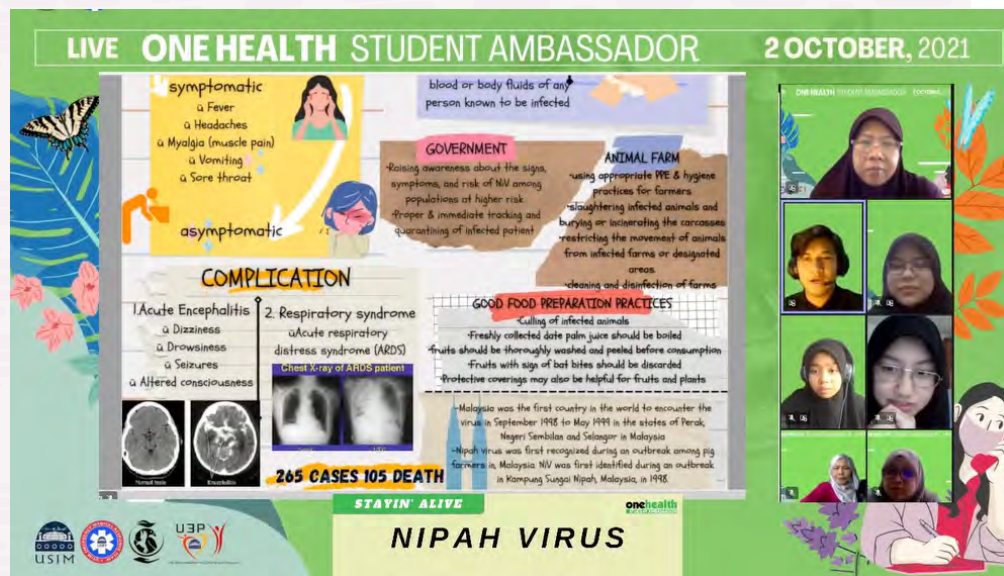
The English proverb, 'Youth will be served,' carries a significant meaning when observing how Malaysian OHSCs organized One Health-related activities. Since the OHSCs' establishment by our member Universities, we have seen a range of activities conceptualized and executed by young minds, ranging from health awareness campaigns to health seminars and community education – all arranged and organized by students.

In 2018, Universiti Sains Islam Malaysia (USIM) formed the eighth OHSC, inspired by the students' excellent knowledge and experiences through the MyOHUN activities in which they participated. Throughout 2021, while COVID-19 restrictions confined club members to their homes it did not stop the USIM OHSC from acting. The club organized an online video competition, "One Health Student Ambassador," to create engagement with

fellow students on One Health-related issues. "We were inspired by the Regional Video Competition organized by SEAOHUN last year. We wanted more students to experience the thrill of creating videos as well as learning something from the multidisciplinary teams formed during the competition," said Amir Irfan, president of UPM OHSC 2021.

With the growth that OHSCs have displayed, it's no surprise that a several new universities have expressed interest in establishing their own clubs. Some clubs have even designed their own activities without funding from MyOHUN, such as when UPM OHSC organized "All Hands-on Deck: Bringing One Health to New Heights" webinar on 29 January 2022.

OHSCs have proven a phenomenal means to sustain One Health learning and action among students. MyOHUN is honoured by the engagement of our current OHSCs and encourage universities to form new clubs in our shared mission to promote One Health.



Students in an online discussion about the Nipah virus and its impacts during the One Health Student Ambassador Program, 2 October 2021.

Image credit: USIM OHSC



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MMOHUN
Myanmar One Health University Network

MMOHUN

MYANMAR ONE HEALTH UNIVERSITY NETWORK

NETWORK OVERVIEW



3

Universities



8

Faculties



2

Activities planned
for Year 3

ABOUT MMOHUN

- MMOHUN promotes knowledge exchange and capacity building in One Health among human, animal, and environmental health professionals in Myanmar.
- Our mission is to develop a resilient and competent One Health workforce by leveraging education, research, and training excellence provided by member universities.
- Established in 2019.
- Visit our website at www.seaohun.org/mmohun

Highlights

MMOHUN local small grants program launched, 7 March 2022.

Activities

Objective 1

Enhancing capacities of One Health professionals through a local small grants program

SEAOHUN Secretariat and MMOHUN, are collaborating on a local small grants program in Myanmar to enable faculty members of the member Universities in Myanmar to develop innovative ideas and implement pilot projects that advance training and education on prioritized One Health core competencies and technical skills. The priority is given to human and animal sectors, and each successful proposal will be awarded a maximum of 5,000 USD. SEAOHUN and MMOHUN announced the call for proposals on 7 March 2022,

with the deadline on 27 March 2022. It is hoped that this initiative will increase One Health research and training innovation in the country.

Objective 2

SEAOHUN and MMOHUN are supporting the Global Team-led activities for One Health Workforce Assessment and Tracking.

Objective 3

MMOHUN activities under this Objective commence in the next reporting period.

Lessons Learned

Despite political challenges and the COVID-19 pandemic, the Secretariat and the OHW-NG global consortium made progress in the development of One Health workforce in Myanmar by providing opportunities for faculty members of MMOHUN to join virtual

events to enhance their capacities, such as the “Building Effective Partnerships” training that ran from December 2021 to February 2022. Faculty members of MMOHUN will be engaged virtually at this challenging time.

Next Steps

MMOHUN is collaborating with the SEAOHUN Secretariat to promote a local small grant opportunity in Myanmar. The selection

of successful proposals and its project implementation will be done in the remaining months of Year 3.



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PHILOHUN
Philippine One Health University Network

PHILOHUN

PHILIPPINE ONE HEALTH UNIVERSITY NETWORK

NETWORK OVERVIEW



9

Universities



19

Faculties



3

Activities planned
for Year 3

ABOUT PHILOHUN

- PhilOHUN generates socially-relevant academic excellence on One Health by leveraging education, research, and training developed in collaboration with universities in the Philippines.
- Our mission is to develop the next generation of a skilled and competent One Health workforce.
- PHILOHUN was established in December 2019.

Highlights

- A radio interview of Prof. Ma. Fe Bulao highlighted the negative effect of antimicrobials in feeds on humans; 26 February 2022.
- Dr. Michael Tee published an article in the Philippine Star on antimicrobial use and misuse on 6 March 2022; <https://www.pressreader.com/philippines/the-philippine-star/20220306/281689733271973>.
- An official PhilOHUN website is in development.

Activities

Objective 1

Awareness-raising and capacity-building on One Health

Through OHW-NG, PhilOHUN is able to contribute efforts to increase knowledge and awareness on One Health in the Philippines. This will be done through community-level training among frontline health workers and discussions about One Health on radio programs.

The community-level training aims to introduce the One Health approach and its related concepts to frontline health workers. A total of four in-person training sessions will be organized across different municipalities in the country, where sessions will concretize One Health concepts and core competencies into the context of their work in the communities. Plans have been in place to conduct a training session for the local government unit in Camarines Sur, but these have been postponed due to the local and national elections.

The One Health awareness-raising activity, which will target the general public in the Philippines through radio, is also ongoing. On February 26, 2022, an interview on the implications of the use and misuse of antimicrobials in animal feed and its

negative effect on humans was held with Prof. Ma. Fe Bulao, a faculty member from Pampanga State Agricultural University, one of the PhilOHUN member Universities. Other efforts in raising awareness on One Health include publishing a newspaper article on antimicrobial use and misuse and antimicrobial resistance in the Philippine Star, a national print and digital newspaper in the Philippines.

OBJECTIVE 2

SEAOHUN and PhilOHUN are supporting the Global Team-led activities for One Health Workforce Assessment and Tracking.

OBJECTIVE 3

PhilOHUN website

The PhilOHUN website is designed to represent the identity of the organization and to disseminate information on its activities. The website aims to improve PhilOHUN's brand and communication strategy through visibility and transparency by presenting culminated activities, published resources, and open activities and grants.

Lessons Learned

The importance of efficiency during setbacks and delays

Some activities were delayed because of the ongoing campaign for the local and national elections. This impressed upon

us the importance of being efficient and using the available time to make additional preparations for smooth implementation of the activities once conditions were more favorable.

Next Steps

PhilOHUN will continue coordinating with local government units and radio stations. We will also provide opportunities to students with interests in the field of One Health to lead advocacy activities. Coordination with our implementation partners will help set up opportunities to conduct awareness raising among community health workers and among the general public by providing opportunities where PhilOHUN-affiliated faculty could discuss various One Health concepts and applications. Partnering and engaging with the youth will also help promote One Health in the younger population who will soon be future leaders and advocates in One Health.

Furthermore, the organization will continue to polish the development of the website by gathering current and relevant documents

from activities that the organization has hosted and collaborated with in order to provide a transparent background of the organization's purpose and advocacy. The backend for a forum page in the website shall also be set up to encourage discourse on specific issues and matters that the organization would like to promote or raise awareness to. Lastly, integration of event sign-up forms to the website and association of social media accounts to the PhilOHUN email address shall also be addressed to implant the permanence of the organization in the digital space and support the website's goal of improving the organization's identity and reputation. The fully equipped website will help with information dissemination and promotion of ongoing and future activities of PhilOHUN.

Success Story

YOUth Against AMR! Tomorrow's hope answering the call of today

The young people of the Philippines recognize that it will soon be their turn to step up and face the problems of today. Filipino youth are asserting their right to actively address national and global issues. With the right opportunities and support, young people in our country could leave a positive and meaningful impact among their peers and across the nation.

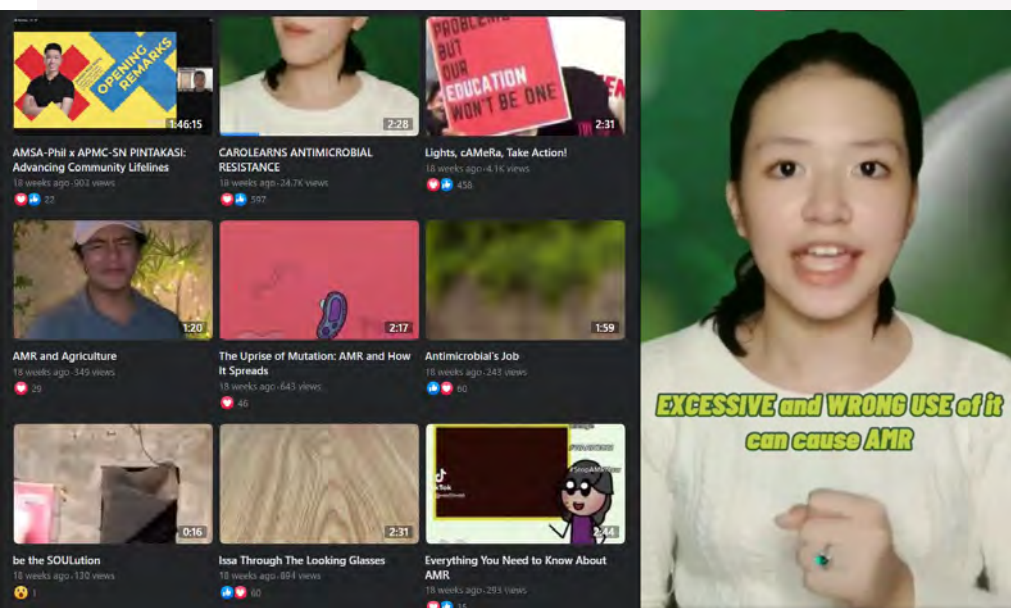
“YOUth Against AMR!” was a series of month-long activities leading up to Philippine Antimicrobial Awareness Week (PAAW) 2021. It was the collective effort of the Medical Students for Social Responsibility (MSSR), a student organization from the University of the Philippines Manila. With support and guidance of Dr. Noel R. Juban and Dr. Regina P. Berba, both faculty members of the College of Medicine, MSSR designed a campaign to educate and inspire high school and college students to become advocates against antimicrobial resistance (AMR). Highlight activities included: 1) a contest for creating and promoting educational content on AMR; 2) a conference titled “WAAW Youth Conference: YOUth Against AMR!” for teaching students how to advocate for antimicrobial stewardship; and 3) daily quiz bees or short and fun tests of knowledge about AMR myths and facts

conducted via MSSR’s social media pages on Instagram and Facebook. Contest entries received a lot of interest on the social media platforms and daily quiz bees attracted around 180 persons per day during its 25-day run.

The crown jewel of the whole experience was the conference, which taught advocacy skills to increase understanding and appropriate action to address the AMR problem in the Philippines. The conference inspired a 35% increase in intent among the attendees to participate more in AMR-related campaigns, according to the post-event survey. Participants learned effective and respectful strategies to talk to their relatives, friends, and community leaders about AMR.

Overall, the campaign was a success, evidenced by the contest’s award ceremony, held alongside the award ceremonies of the PAAW 2021 student video and essay-writing competitions hosted by the Department of Education.^a These efforts began a discussion of how Filipino youth, even those as young as high school, can support global health strategies and apply them in their lives.

“YOUth Against AMR!” and other student initiatives are a reminder that thinking outside silos is effective as a springboard for the participation of more youth advocates against superbugs in the future. These activities were conducted under PAAW 2021, supported by a small grant awarded to Dr. Berba from the Southeast Asia One Health University Network and the USAID One Health Workforce – Next Generation Project. AMR continues to be a threat on a global scale, exacerbated by poor regulation and lack of awareness in countries like the Philippines. Fighting against it will demand our all, and campaigns targeting youth education and advocacy are steps in the right direction.



^a https://www.facebook.com/watch/live/?ref=watch_permalink&v=1093877814682801



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Thailand One Health
University Network

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THAILAND ONE HEALTH UNIVERSITY NETWORK

NETWORK OVERVIEW



11

Universities



70

Faculties



3

One Health
Student Clubs



11

Activities planned
for Year 3



35,103

Individuals reached by
risk communication on
One Health topics

ABOUT THOHUN

- THOHUN collaborates across sectors using the One Health approach, offering pre-service training for future and current members of the workforce to prevent and protect against emerging/re-emerging diseases in Thailand.
- Our mission is to support trans-disciplinary collaboration among universities and involved agencies to develop skilled One Health professionals and conduct research employing the One Health approach to promote the health of humans, animals and environment.
- Established in August 2012.
- Visit our website at www.thohun.org.

Highlights

- One Health in the Park virtual event on “Solutions and Innovation: Coping with PM2.5 pollution”, 25 February 2022.
- The One Health Core Competencies Course Working Group was established.
- THOHUN Steering Committee meeting, 4 February 2022.
- THOHUN Chairman visited Walailuk University, 2 March 2022.

Activities

Objective 1

One Health Training in Vocational Education Programs

THOHUN is expanding One Health training to reach students and trainers in vocational schools. A two-day virtual workshop is planned for representatives of the Office of the Vocational Education Commission and teachers from 70 vocational schools.

Establishing One Health Student Clubs

In Year 3, THOHUN has continued efforts to increase the number of One Health Student Clubs (OHSCs). A call for applications was issued to help establish two additional OHSCs. On 22 January 2022, the THOHUN National Coordination Office (NCO) met with members and mentors of the current OHSCs to discuss guidelines for managing and collaborating on One Health activities. Potential activities include beach clean-up, mineral lick placement for wildlife, rabies vaccination for pets, removal of mosquito breeding sites, and construction of fire-safe zones. The NCO is coordinating with the relevant government offices to ensure the smooth implementation of planned events.

Risk Communication e-Learning Modules

THOHUN is converting the training materials on infodemics risk reduction developed in Year 2 into e-learning sessions on COVID-19 risk communication to be delivered in a blended format (virtual and in-person). The training will benefit Province Health officers and Village Health Volunteers. The in-person segment will be conducted in Sa Kaeo Province.

International short course on Ecosystem Health, THOHUN-TELI

Course materials and contents are being developed for hybrid learning version of the flagship THOHUN-TELI training course, which is designed for training during the pandemic of infectious disease in the future.

Objective 2

SEAOHUN and THOHUN are supporting the Global Team-led activities for One Health Workforce Assessment and Tracking.

Objective 3

One Health in the Park event

Broadcasted live via THOHUN's Facebook page, we successfully conducted the first "One Health in the Park" for the year 2022, "Solutions and Innovation: Coping with PM2.5 pollution". Influencers, and stakeholders from various sectors met about 4,000 participants to answer their questions. This activity increased THOHUN's social media followers. Read more in our [Success Story](#).

THOHUN Steering Committee Meeting

The THOHUN Steering Committee convened virtually on 4 February 2022 to welcome new faculty members, review the progress of THOHUN Foundation registration, discuss

activity implementation, and review options for integration of core competencies into education and training programs. The meeting included representatives from SEAOHUN and OHW-NG who shared their vision of network sustainability.

Core Competencies Working Group

THOHUN established a working group on One Health Core Competencies, to support faculty members in three disciplinary clusters: a) Health Sciences b) Veterinary Sciences, and c) Environmental Sciences.

THOHUN Chair visits Walailuk University

THOHUN Chair, Assoc. Prof. Parntep Ratanakorn, met with deans of Walailuk University on 2 March 2022 to gather feedback for the Network's improvement.

Lessons Learned

The Internet has allowed the Network to share information and discuss activities in real-time. However, virtual collaboration may not be as effective for interactive activities, such as a rabies outbreak simulation

requiring real-world response conditions. THOHUN continues to choose the most feasible virtual platform to implement activities for training.

Next Steps

THOHUN will create an environment that supports student-centered activities, such as OHSCs and OH Ambassadors, which are impactful and sustainable. Lessons learned from the COVID-19 pandemic will be integrated into educational materials.

THOHUN will establish a working group to develop business plans for networking, network governance, and financial sustainability and resource mobilization.

THOHUN will strengthen our organizational capacity by participating in relevant training conducted by global and regional partners.

Success Story

One Health in the Virtual Park: Increase the Public's One Health Awareness

The One Health approach is a collaborative, multi-disciplinary effort across sectors to address issues related to human, animal, and environmental health. The Thailand One Health University Network (THOHUN) organizes a “One Health in the Park” event to build a stronger connection with the Thai community, and to increase the general public’s appreciation for and understanding of how One Health relates to current health issues.

Tracing its beginnings to the COVID-19 pandemic, “One Health in the Park” is a virtual talk and debate show hosted by experts, influencers, and stakeholders from various sectors and disciplines. Broadcasted live via THOHUN’s social media page (Facebook), audiences are effectively engaged through interaction with speakers in Q&A sessions. After each event, discussion points are captured as short videos and articles to highlight key information, and viewers are encouraged to watch the next sessions.

The kickoff event for 2022 was “Solutions and Innovation: Coping with PM2.5 Pollution” held on 25 February 2022, which reached 3,934 people. Audience feedback was very positive, as demonstrated by the quotes below:

- “I’ve learned a lot about PM2.5 pollution, its effects, and how to protect my beloved one from it”.
- “I’ve learned many things about PM2.5, especially the long-term health effects. I can apply what I learned for self-protection when the time comes.”

An increasing number of followers on the THOHUN Facebook fan page, thousands of viewers, participant engagement in the Q&A session, and positive feedback all reflect that “One Health in the Park” is an effective tool for One Health communication between experts and the general public.

Watch for future “One Health in the Park” sessions on the THOHUN Facebook fan page.



“One Health in the Park” was broadcasted through THOHUN’s Facebook page

Image credit: THOHUN



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VOHUN

VIETNAM ONE HEALTH UNIVERSITY NETWORK

NETWORK OVERVIEW



25

Universities



32

Faculties



18

One Health
Student Clubs



15

Activities planned
for Year 3



2

Evidence-based
informational resources
and products made

ABOUT VOHUN

- VOHUN connects Vietnamese universities to equip a new generation of lecturers and researchers with a full range of One Health knowledge and skills.
- Our mission is to leverage the training, education, and research capacities of the University Network to build the skills, knowledge, and attitude base for OH leaders.
- Member of the Viet Nam One Health Partnership for Zoonoses.
- Established in November 2011.
- Visit our website at www.vohun.org.

Highlights

- VOHUN established a new One Health Site at Thien Thuan Tuong, a pig raising and breeding company in Quang Ninh. A One Health Site is a place where students may learn to apply the One Health approach and competencies.
- Thirty-five students gained practical experience in March 2022 through a field-based training course at Thien Thuan Tuong.
- VOHUN NCO successfully organized a semi-virtual workshop to update the competencies in One Health modules of member Universities; February 2022.
- One hundred and thirty-six attendees joined the “Policy Dialogue on Developing One Health Workforce in Vietnam,” 3 November 2021.
- Two policy briefs were developed on One Health capacity building intended for policy makers at the central and provincial level: (1) One Health policy and education; and (2) Increasing practical experiences in One Health education.
- Two hundred and twenty-three attendees joined the Student Talk Show “One Health – Career Development Opportunity,” 22 November 2021.
- VOHUN admitted Dong A University as its newest member, raising the Network’s total to 25 member Universities.
- VOHUN presented on the OHW-NG Project at the USAID Mission Partners’ Meeting on 15 February 2022.

Activities

Objective I

Capacity Building in One Health

Hanoi Medical University (HMU) and VOHUN have evaluated and offered scholarships for fifteen Master’s students of One Health. After getting approval from the Ministry of Health, VOHUN NCO through Hanoi University of Public Health will sign a scholarship contract with HMU.

On 24 and 25 February 2022, with the technical support of two experts from the Global team, VOHUN NCO successfully organized a virtual workshop to update the One Health competencies in the teaching modules for specific majors in member Universities. Eighty-three lecturers

participated in the workshop to identify the competencies which meet local needs. A significant outcome was 17 member Universities committed to develop new or updated OH modules.

One Health Practice at the Animal-Human Interface

Thai Nguyen University of Agriculture and Forestry (Thai Nguyen UAF) organized a field-based training course at the One Health Site (OHS) in Quang Ninh province, which engaged 35 students from two universities (Thai Nguyen UAF and Hai Phong University of Medicine and Pharmacy). The training focused on biosafety and biosecurity in pig production and hands-on experience performing rapid tests for the African swine

fever virus, a significant animal disease currently threatening swine populations in the region. For this course, VOHUN established a new OHS in partnership with a private company, Thien Thuan Tuong company. This company is a science and technology enterprise in livestock and crop production that owns 1,200 breeding sows, each year producing 6,000 gilts, 5,000 commercial breeding pigs, and 20,000 fattening pigs.

The Hue University of Agriculture and Forestry, with support from VOHUN NCO, organized a virtual training course in the ethical use of animals for scientific research purposes, held on 24 to 25 March 2022. In attendance were 92 participants from One Health-related sectors, with the majority working in animal health.

Promoting One Health Student Clubs

Recognizing their effectiveness at engaging the youth, the VOHUN NCO organized a workshop in December 2021 to orient and share the activities planned for the One Health Student Clubs (OHSCs) for this Project Year 3. As the result, 18 OHSCs proposed 66 activities. VOHUN has provided technical and financial support to five OHSCs to implement activities such as recruitment and virtual contests.

One activity celebrated the 2022 World Wildlife Day (3 March). The VOHUN NCO organized a virtual talk show “Wildlife Conservation and Health” that reached more than 240 attendees. This talk show aimed to raise understanding of the link between wildlife conservation, human health, and environmental health. The speakers came from organizations active in environmental health, namely the Convention on International Trade in Endangered Species of Wild Fauna and Flora, the World Wide Fund For Nature, Save Vietnam Wildlife, Vietnam

National University of Agriculture, and Nong Lam University.

Objective 2

SEAOHUN and VOHUN are supporting the Global Team-led activities for One Health Workforce Assessment and Tracking.

Training of Trainers on Knowledge Management

VOHUN NCO has prepared a tentative agenda for a Training of Trainers on Knowledge Management. This activity targets faculty members of VOHUN universities, with the aim to best meet their institutional knowledge management needs to sustain One Health curricula and workforce development. This event is planned for May.

Objective 3

VOHUN at Ten Years

To celebrate the 10th year since VOHUN’s establishment, we organized a semi-virtual “Policy Dialogue on Developing One Health Workforce in Vietnam”. With 136 participants drawn from representatives of the national government, international organizations and member Universities, we had a robust discussion on the current situation and future needs for the country’s One Health workforce. Read more in our **Success Story**.

A One Health Student Talk Show and career development opportunity was held with 223 students, alumni, lecturers, and a representative from the private sector, the Thien Thuan Tuong company which hosts an OHS. The event aimed to: i) help students determine the importance of self-training,

supplementing knowledge, and One Health capacity to meet future job requirements; and ii) discuss opportunities to choose a job that is suitable for the profession the students are studying.

VOHUN developed policy briefs based on points raised in both events:

- One Health Policy and Education: https://vohun.org/uploads/data/5259/files/files/file-tin-tuc/Policy_Brief_No_1_ENG.pdf
- Increasing practical experiences in One Health education: https://vohun.org/uploads/data/5259/files/files/file-tin-tuc/Policy_Brief_No_2_ENG.pdf

Expanding VOHUN's Reach

VOHUN expanded its Network to 25 member Universities. The Dong A University was admitted into VOHUN on the recommendations of the university leader.

VOHUN gave presentations on the progress of the OHW-NG activities at the USAID Mission Partners' Meeting on 15 February 2022. The virtual meeting was organized to provide updates to the current priorities for Global Health Security, identify coordination needs and opportunities for collaboration.

Students learn how to perform rapid tests for the African swine fever virus at the Quang Ninh One Health Site.

Photo credit: VOHUN



Lessons Learned

Dialogue with partners yields insights for developing the One Health workforce.

The two events held for VOHUN's 10th anniversary celebration, the policy dialogue and the One Health career development talk show, were venues for interaction among stakeholders. The policy dialogue resulted in specific recommendations for policy and practice are proposed together with specific solutions on adding an One Health-related competency framework for job positions in health care units and training courses. The speakers emphasized the roles of the member Universities in One Health workforce education and the importance of the field-based learning and internship for students to gain critical skills and expand career opportunities.

Expand the network to connect universities with the private companies that employ the One Health workforce.

VOHUN has established a new OHS at a private company, Thien Thuan Tuong company. Thai Nguyen UAF successfully organized the field-based training course on this site. Students had the opportunity to apply their knowledge and skills into actual practice on the site where they may apply for work after graduation. Organizing this type of field site promotes the exchange of ideas and practices between academia and the private sector. The diversity of One Health sites also contributes to the network's long-term sustainability.

Next Steps

VOHUN will continue providing member universities technical support in developing and updating One Health modules to increase diversity of affiliated disciplines. In addition, VOHUN will strengthen the capacity of district-level human and animal health staff through short courses in One Health-based disease surveillance, and data analysis and interpretation. Newly-developed and updated modules, together with practicals in the curriculum of member Universities, will improve the quality of current and future human resources at preventing, detecting, and rapidly responding to public health threats.

VOHUN will continue supporting member universities to establish One Health Sites and organize field-based training courses for students. This will help improve our current and future workforce knowledge and skills by developing and providing various OH training programs and events.

VOHUN will continue to encourage students to learn and practice skills by hosting a National One Health Camp and supporting OHSCs organizing seminars, competitions, field trips, and community outreach activities.

Success Story

VOHUN's 10-year journey with the Viet Nam One Health Workforce

“To attain the ultimate aim of human health, One Health must handle all areas with an inclusive degree in all sectors, including environmental health, animal health, economic health, social health, and so on.”



Prof. Le Vu Anh - VPHA



Image credit: VOHUN

The Vietnam One Health University Network (VOHUN) has become one of the world leaders in providing One Health capacity building. As noted by Dr. Pham Duc Phuc, Coordinator of VOHUN, this is the most crucial factor in transforming from reactive responses to health crises towards more proactive sustainable development practices that minimizes health risks to all living things. This approach emphasizes the important interconnection and interdependence between human, animal, and environmental health, ensuring an optimal One Health.

Founded in 2011 with support from the U.S. Agency for International Development, VOHUN has helped thousands of students learn about One Health through university courses, training modules, and field trips to curated One Health sites during the last ten years.

The sustainability of One Health teaching, research and practice have been the focus of VOHUN's efforts. To achieve these, two One Health Master's degree programs were developed in partnerships between VOHUN and Hanoi Medical University and Nong Lam University. To-date, 57 Vietnamese and 34 international students have received Master's degrees in One Health.

In November 2021, VOHUN invited government agencies to a policy dialogue on developing the One Health workforce in Viet Nam. The objectives of the dialogue were to discuss the current situation of the One Health workforce in the country, and identify the needs and requirements of the future. The event was organized as part of VOHUN's 10th anniversary celebration to highlight accomplishments and future plans for our network. From more than 130 attendees, a majority self-identified as practitioners from the Ministry of Health and Ministry of Agriculture and Rural Development, or lecturers from VOHUN member universities.

Highlight challenges identified for One Health workforce capacity building programs included: willingness of field-site owners for student internship; the roles of VOHUN members to sustain One Health education by improving the quality of educational content in One Health; increasing numbers of graduates equipped and articulate with One Health skills and competencies; and the need to focus on enhancing skills at collaborating across disciplines and applying knowledge to address real world health challenges.

Learning from the COVID-19 pandemic, an infectious disease resulting from human-animal-ecosystem interactions, Dr. Phuc stated that it is even more vital to adopt One Health as an approach to preserve global health. VOHUN and its One Health programs will continue to play an important role for the well-being humans, animals and our shared environments across the country and region.



Image credit: SEAOHUN

One Health Champions

Increasing knowledge of the interconnectedness of the health of people, animals, and the environment

ONE HEALTH CHAMPIONS



Bunna Chea
One Health Champion,
CAMBOHUN
Lecturer, Faculty of Veterinary
Medicine, Royal University of
Agriculture, Cambodia

“In the future, the lives of humans and animals and their interactions with the environment will be more complex. Only by collaborating across academic institutions, private organizations, and governments agencies will we prevent future pandemics from having severe impacts.”

Bunna Chea is a lecturer on One Health practice and veterinary microbiology in the Bachelor of Science in Veterinary Medicine program of the Faculty of Veterinary Medicine, Royal University of Agriculture. His research interests are in antimicrobial resistance impacts from food production systems and zoonotic diseases. He led a team of researchers from eight different Cambodian universities that received a SEAOHUN Small Grant in 2020 for developing and piloting a training module on preventing the spread of rabies. Since 2020, Mr. Chea has served as the university’s liaison to the Cambodia One Health University Network. He is actively supporting the Network’s efforts at collaboration for research, education and training on One Health with other teaching and research organizations in Cambodia. Mr. Chea earned a Master’s in Agrofood Chains from the Université Toulouse III - Paul Sabatier, with a major in Food Safety, Agrofood and Public Health.



Rahmi Nuraini
One Health Champion,
INDOHUN
Education and Training Program
Manager, Indonesia One Health
University Network

“I want to strengthen the implementation of One Health core values in many aspects in life, enhance good communication and coordination among health-related sectors, and take part in zoonotic disease mitigation in Indonesia.”

Rahmi Nuraini is an Education and Training Program Manager in the One Health Workforce – Next Generation Project. For nearly five years, her efforts have instilled One Health core values in the daily lives of public health, animal health, and environmental health practitioners, and helped integrate these topics into university curricula as part of her work with INDOHUN. She has experience in multi-sector collaboration efforts between the Government of Indonesia, professional associations, academia, and the private sector through various training and education programs that target both students and in-service professionals. Rahmi is leading the preparatory training in cross-disciplinary skills for the newly-established ‘Kampus Mengajar’ Program at the Ministry of Education, Culture, Research, and Technology. The program engages third-year university students to provide support for primary-level education during the COVID-19 pandemic. She is supporting the implementation of the One Health Internship Program through the collaboration between the Universitas Indonesia and Diponegoro University to convert the Field Epidemiology Training Program into a Master’s degree program. Rahmi holds a Bachelor of Science in public health nutrition from the University of Indonesia.

FOR SOUTHEAST ASIA

“One Health is not science, but it is a collaborative, multisectoral, and transdisciplinary approach for working together at all levels and places. In Lao PDR, One Health is a new and important concept to encourage multidisciplinary efforts for searching, finding and solving complex problems together. As in the saying “working with no hero” – let’s move together for health for all.”

Vannaphone Putthana is a lecturer in animal disease and medicine, epidemiology, food safety and food security, and One Health. His research interests are veterinary medicine and food safety. He is serving as Vice-Chair of LAOHUN and actively working to expand membership and advocacy for research, education and training on One Health provided by the five member Universities. Dr. Putthana has been coordinating several international projects funded by the European Union, the Food and Agriculture Organization of the United Nations, the World Organisation for Animal Health, and United States Agency for International Development. Dr. Putthana earned his Ph.D. at the Czech University of Life Science, with a specialization on Food Microbes.



Vannaphone Putthana
One Health Champion, LAOHUN
Vice-Dean, Faculty of
Agriculture, National University
of Laos, Lao PDR



“My mission is to empower the knowledge and skills of One Health among the community, students, and staff towards better and more sustainable disease management.”

Professor Dr. Razitasham Safii is a Public Health Medicine Specialist for the Ministry of Health and Malaysia One Health University Network (MyOHUN). She collaborates with the Epidemic Intelligence Program (Malaysia) as a trainer and mentor. She was the Sarawak State Epidemiology Officer from 2009-2013, where she was responsible for managing outbreaks of cholera, hand-foot-and-mouth disease, Middle East Respiratory Syndrome, and swine flu. Dr. Razitasham is a professor at the Faculty of Medicine and Health Sciences, University Malaysia Sarawak, where she is actively involved in teaching and inculcating the One Health approach to undergraduate and postgraduate students. Her research interests include infectious tropical diseases such as rabies and Japanese encephalitis. Since 2013, Dr. Razitasham has served as university representative for MyOHUN. Her present roles in MyOHUN include Project Leader of the One Health Field Epidemiology Training Program, trainer in tabletop exercises for postgraduate students, participant in field simulation exercises, and as a speaker in numerous seminars related to One Health. She co-authored MyOHUN’s One Health Manual on Handling Zoonotic Disease Outbreaks in Malaysia (2017) and is currently preparing a training manual on One Health Field Epidemiology Training Program. Dr. Razitasham is a medical doctor with a Masters in Community Health from the Universiti Kebangsaan Malaysia.



Razitasham binti Safii
One Health Champion, MyOHUN
Professor, Faculty of Medicine
and Health Sciences, University
Malaysia Sarawak, Malaysia



ONE HEALTH CHAMPIONS



Ye Htut Aung

Health Champion, MMOHUN
Pro-Rector, University of
Veterinary Science, Yezin,
Naypyitaw, Myanmar

“The impacts of animal diseases can significantly reduce economic productivity, elimination of entire flocks or herds, and ultimately loss of biodiversity. The four elements for a healthy future for animals are disease detection, prevention, improvement, and the sustainable development of the livestock sector. By protecting animals, we preserve our future..”

Ye Htut Aung is a Professor of animal science and agricultural science, teaching at the Department of Medicine of the University of Veterinary Science, Yezin, Naypyitaw, Myanmar. He has been building the capacity of veterinary students in the diagnosis and treatment of animal diseases, working towards developing training programs for raising clinical skills as well as treating animals in the field. He is presently serving as Co-Leader of MMOHUN, and promotes One Health research and practice throughout the country. Dr. Ye Htut Aung received his Ph.D. from the Hannover School of Veterinary Medicine in Germany.



Joseph Rem C. Dela Cruz

One Health Champion,
PhilOHUN
President, Medical Students for
Social Responsibility

“Filipinos deserve synergistic and responsive health systems – the One Health approach, integrating inputs from various sectors of society to reach the most holistic solution, affirms this need.”

An aspiring physician, researcher, and public health advocate, Joseph Rem C. Dela Cruz is a third-year medical student at the University of the Philippines - Manila. With his can-do attitude and passion for service, Rem has led and participated in countless initiatives such as “WalaSTIK!”, a community initiative on plastic waste segregation, and “Dx101”, a workshop on clinical reasoning for medical students. Rem is the president of the Medical Students for Social Responsibility (MSSR), a student organization at the college. Together with his fellow MSSR students, they created the “YOUth Against AMR!” campaign, which is a youth-led national campaign on antimicrobial resistance. This campaign was part of the Philippine Antimicrobial Awareness Week 2021 celebrations in November. MSSR won the 2021 APRU Global Health Case Competition and were finalists in the 2021 Innovate4Health design sprint. Rem has co-authored articles on road injury and mental health, and has worked with experts in vaccinology and health education to design modules on COVID-19 vaccination. His interests include medical education, One Health, infectious diseases, health financing, and health policy. Rem has a Bachelor of Science in Public Health from the University of the Philippines – Manila.

FOR SOUTHEAST ASIA

“Animal welfare is the most important responsibility for veterinarians, and ultimately it is also important for human welfare. If we in animal and human health can collaborate effectively to prevent, detect and respond to infectious disease threats, then we will make the world a much safer place.”

Associate Professor Parntep Ratanakorn is one of the One Health pioneers in Thailand and Southeast Asia. A well-known veterinarian who is fondly recognized as the “Dr. Dolittle” of Thailand, his professional expertise is in veterinary medicine and veterinary pathology related to wildlife. He won the 2019 Animal Welfare Global Awards given by the World Veterinary Association. Dr. Ratanakorn has been dedicated to promoting the One Health approach into government, academia, and the private sector since 2012. He has contributed to over 100 publications on One Health in the areas of zoo and wildlife medicine. Dr. Ratanakorn is the Chairperson of the Thailand One Health University Network, and Chair of the SEAOHUN. He received a Diplomate from the Veterinary Council of Thailand, Thai Board in Veterinary Medicine. A strong advocate for animal welfare, Dr. Ratanakorn is a member of several societies including the Thai Society for the Prevention of Cruelty to Animals, the National Committee on Wildlife Preservation and Protection, and the Hornbill Research Foundation. Dr. Ratanakorn holds a Master of Science in Pathobiology from Mahidol University, and a Doctor of Veterinary Medicine from Kasetsart University.



Parntep Ratanakorn
One Health Champion, THOHUN
Dean, Faculty of Veterinary
Medicine and Applied Zoology,
HRH Princess Chulabhorn
College of Medical Science,
Chulabhorn Royal Academy,
Thailand



“My favorite slogan is: “One World, One Health.” The notion of One Health promotes the link between environmental, animal, and human health. Without a healthy and sustainable environment, we will not be able to live a happy existence as humans.”

Dr. Ngo Thi Thuy Huong is a senior researcher and lecturer at the Faculty of Biotechnology, Chemistry, and Environmental Engineering of Phenikaa University. She earned her Ph.D. in Environmental Chemistry and Ecotoxicology at University of Bayreuth. She is the leader of the Environmental Chemistry and Ecotoxicology research group. She is a frequent visiting lecturer at universities in Viet Nam and Belgium. Dr. Ngo has led several national and international projects funded by national development agencies of Viet Nam, the United States, the United Kingdom, and Belgium. Her research includes water contamination in river basins and its implications on environmental health, soil phytoremediation strategies to solve the Agent Orange environmental contamination, wastewater-informed early warning systems to mitigate the impact of COVID-19, and microplastic contamination and its effects on ecosystems and human health. She recently received a SEAOHUN Small Grant for her proposal on assessing the impacts of microplastics on health. After Phenikaa University joined the Vietnam One Health University Network (VOHUN) in 2021, Dr. Ngo quickly became a One Health advocate. She serves as the university’s coordinator for VOHUN activities, including helping to establish the Phenikaa University One Health Student Club. To raise public awareness of One Health and environmental health, Dr. Ngo is frequently interviewed on national television and print media.



Ngo Thi Thuy Huong
One Health Champion, VOHUN
Senior researcher and lecturer,
Phenikaa University, Viet Nam





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