Capacity Building in Biorisk Management in Vietnam (2017 – 2023)

Pham Duc Phuc, MD., PhD.
Vietnam One Health University Network (VOHUN)
Center for Public Health & Ecosystem Research (CENPHER)
Institute of Environmental Health & Sustainable Development (IEHSD)
Email: pdp@vohun.org & pdp@huph.edu.vn & phucpd@iehsd.vn
Tel: +84 904049969
VIETNAM ONE HEALTH UNIVERSITY NETWORK

Established in 2011

27 Member Universities
33 Faculties

To promote the OH approach through university training & research and to inspire a new generation of lecturers & researchers equipped with a full range of knowledge & skills to practice the transdisciplinary approach.

Mission

To leverage the strengths of Vietnam’s Universities to build an OHW with the knowledge, skills, & attitudes to prevent emerging and re-emerging infectious diseases, AMR, Food Safety

Vision
Our Impact

- 27 Member Universities
- 33 Faculty
- 506 Lecturers Trained in One Health Topics
- 2,317 Human Health and Animal Health Professionals Trained in One Health Topics
- 62,500 Students Trained in One Health Topics
- 35 One Health Modules Developed
- 19 One Health Student Clubs Established
- 1,047 Participants in One Health Student Clubs
- 12 One Health Field Sites Established
- 103 Master’s Student graduated
VOHUN ALIGNING WITH THE GLOBAL HEALTH SECURITY AGENDA

**Biosafety and Biosecurity**

**Strengthen the One Health Workforce on BRM**
- by engaging with in service institutions such as:
  - GDPM
  - DAH
  - NIHE,
  - Pls
  - RAHOs
  - VMMU
- identify dangerous pathogens, Address Pandemics, Outbreak in Effectively

**Laboratory Systems**

**Develop a One Health BRM Laboratory Network**
- that links human and animal health, meets international standards, and
- establishes best practices of care.

**Workforce Development**

**Develop an effective One Health Workforce**
- be able to prevent, detect, and respond to emerging and re-emerging infectious disease threats that includes both human and animal health workers
- develop Student Outbreak Response Teams (SORT) to establish national security and stability
Orientation of BRM in Vietnam

Develop & strengthen a OH BRM Laboratory Network

Enhance to create mandatory BRM courses in universities

Develop an effective workforce in BRM meeting international standards
Tasks:

1. BRM Curriculum Development for universities
2. Multi-sectoral One Health BRM Laboratory Network
3. Advanced Trainer Workshop facilitation (IATA Shipping, IFBA, Trainer Development)
4. Advanced Laboratory Risk Assessment Training
5. Student Outbreak Response Teams (SORT)
6. Survey to implement Biorisk Management System ISO35001
7. Remote Engagement: VOHUN BRM One Health Community of Practice
Phase 1 (2020-2021)
• 3 workshops
• 4 ToT courses
• 2 SORT teams
• 9 IFBA certified professionals

Phase 2 (2021-2022)
• 3 workshops
• 4 ToT courses
• 4 training courses
• 1 CME program
• 12 IFBA certified professionals

Phase 3 (2022-2023)
• 4 ToT courses
• 4 training courses
• 2 BRM courses integrated into training program
• 2 SORT teams
• 20 IFBA certified professionals
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Gender staff has trained in BRM (2017-2023)

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% Human health, Animal health & Environmental staff trained in BRM (2017-2023)

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<th>BRM CURRICULUM DEVELOPMENT</th>
<th>ISO 35001</th>
<th>IATA SHIPPING &amp; WASTE MANAGEMENT</th>
<th>IFBA TRAINING COURSES</th>
<th>IFBA CERTIFIED PROFESSIONALS</th>
<th>BRM TRAINER DEVELOPMENT PROGRAM</th>
<th>TABLETOP EXERCISE</th>
<th>TIMELINES METRICS</th>
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- BRM: Basic Risk Management
- ISO 35001
- IATA: International Air Transport Association
- IFBA: International Federation of Business Analytic
- BRM Trainer Development Program
% University, Governmental Agency, Military Staff trained in BRM (2017-2023)
Opportunities

1. Government direction about GHS (national laboratory systems, biosafety biosecurity, disease surveillance, workforce development); and aligned with IHR/JEE & PVS.

2. Biosafety & biosecurity getting more attention and there are many regulations for the system of laboratories, institutes, universities.

3. Well-collaborated with experienced experts from Govt. (GDPM, DAH, NIHE, PIs, RAHOs, etc.)

4. Support from University Scientific Committee, Faculty Leaders, Managers.

5. Support from DTRA, SNL, VOHUN: training materials, programs, methods, guidelines.

6. Lecturers were trained on BRM (Curriculum Development, ISO 35001, IFBA certificate, TDPs, IATA, Risk Assessment).
Challenges

1. Limited teaching hour requirement for new module / curriculum.
2. Separate lectures at different Dept/Faculties/Universities/Institutes.
3. Lack of teaching material development (case studies, practices).
4. Laboratory infrastructure, equipment for practices.
5. Complicated approval process at different levels: Training & Education Committees at the Faculty, University, Ministry.
6. BRM has not been considered as a priority issue.
Ways forward

1. Update & integrate ISO-35001 into the current CMEs biosafety courses. (to be advised by Bureau of Accreditation, MOST)

2. Develop & pilot implementation of CME on public health laboratory quality management system (QMS) included ISO-35001.

3. Expand CMEs on biosafety for current laboratory technicians, researchers.

4. Strengthen human resource (trainers) in training on BRM.

5. Establish core team on BRM at each university / training center.


7. Communicate & advocate: policy markers, govt. agencies, leaders, managers, educational professionals, scientific committee, etc.
THANK YOU VERY MUCH