



The importance for Development of a One Health curriculum for Universities in Vietnam

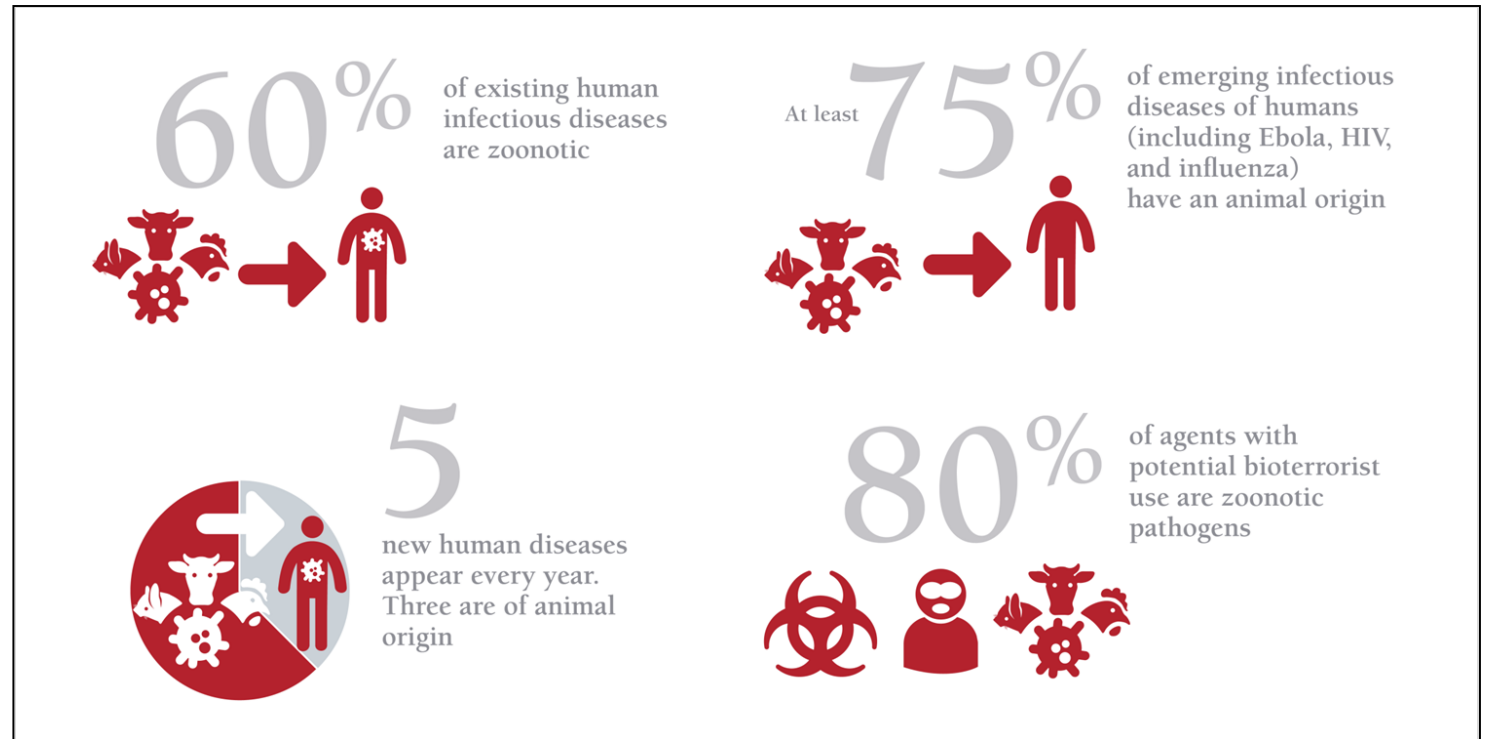
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Zoonoses
Food safety
AMR
Climate change
Environmental change
Disaster
Migration
Urbanization
Air pollution
NCDs
etc.

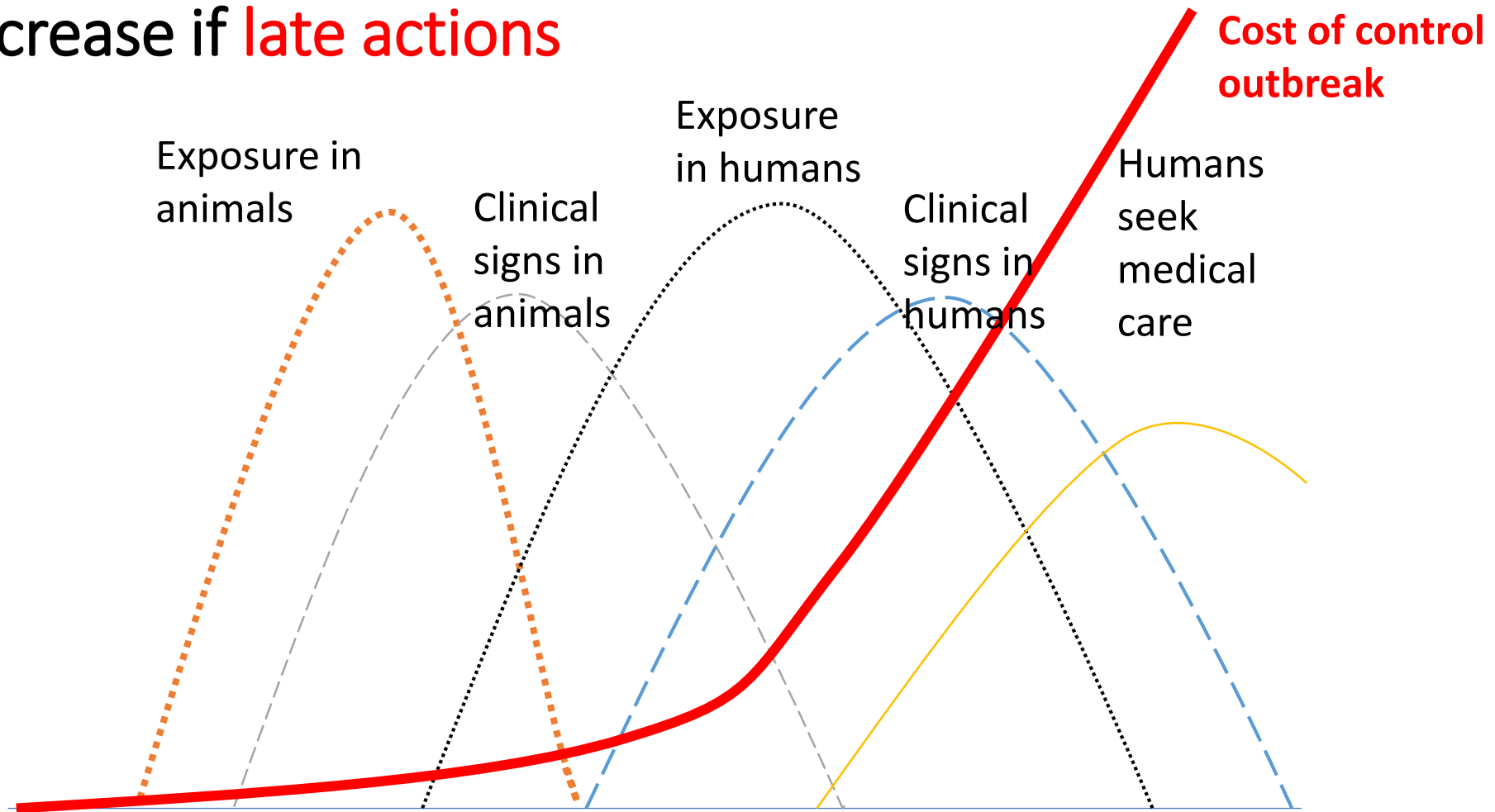
Grand challenges



Investigation and control of **zoonotic diseases**, and other **complex problems** is impossible without a multidisciplinary approach involving human, animal, environmental and other scientific disciplines.



Costs increase if late actions



Adapted from IOM (2009)





GHSA (2014) to advance a world safe and secure **from infectious disease threats**, to **bring together nations from all over the world** to make new, concrete commitments, and to elevate global health security as a national leaders-level priority.

1. Prevent 1 : Antimicrobial Resistance
2. Prevent 2 : Zoonotic Disease
3. Prevent 3 : Biosafety and Biosecurity
4. Prevent 4 : Immunization
5. Detect 1 : National Laboratory System
6. Detect 2 & 3 : Real-Time Surveillance
7. Detect 4 : Reporting
8. Detect 5 : Workforce Development
9. Respond 1 : Emergency Operations Centers
10. Respond 2 : Linking Public Health with Law and Multisectoral Rapid Response
11. Respond 3 : Medical Countermeasures and Personnel Deployment



MINISTRY OF AGRICULTURE AND
RURAL DEVELOPMENT



MINISTRY OF HEALTH

**THE VIET NAM ONE HEALTH
STRATEGIC PLAN FOR ZOOONOTIC DISEASES
2016-2020**

Seven One Health focus areas

- Building OH capacity
- OH approaches for managing human disease emergencies of zoonotic origin
- OH approaches for managing zoonotic agents with pandemic potential that are yet to emerge
- OH approaches for managing zoonotic influenza viruses with pandemic potential
- OH approaches for managing rabies
- OH approaches for managing antimicrobial resistance
- OH approaches for managing other priority zoonotic diseases



VOHUN Established



Supports universities transition from disciplinary to trans-disciplinary training



OH University Education System

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

One Health Modules

OH core competency modules

1. Collaboration and Partnership
2. Communication and Informatics
3. Culture, Beliefs
4. Values and Ethics
5. Leadership
6. Management
7. Systems Thinking
8. Policy, Advocacy and Regulation

OH technical modules

1. One Health Concepts and Knowledge
2. Fundamentals of Infectious Disease
3. Infectious Disease Management
4. Epidemiology
5. Risk Analysis
6. Public Health
7. Ecosystem Health
8. Behavior Development
9. One Health Economics
10. Zoonotic diseases
11. Wildlife diseases
12. Environmental & livestock waste management
13. Antimicrobial resistance
14. BioRisk Management



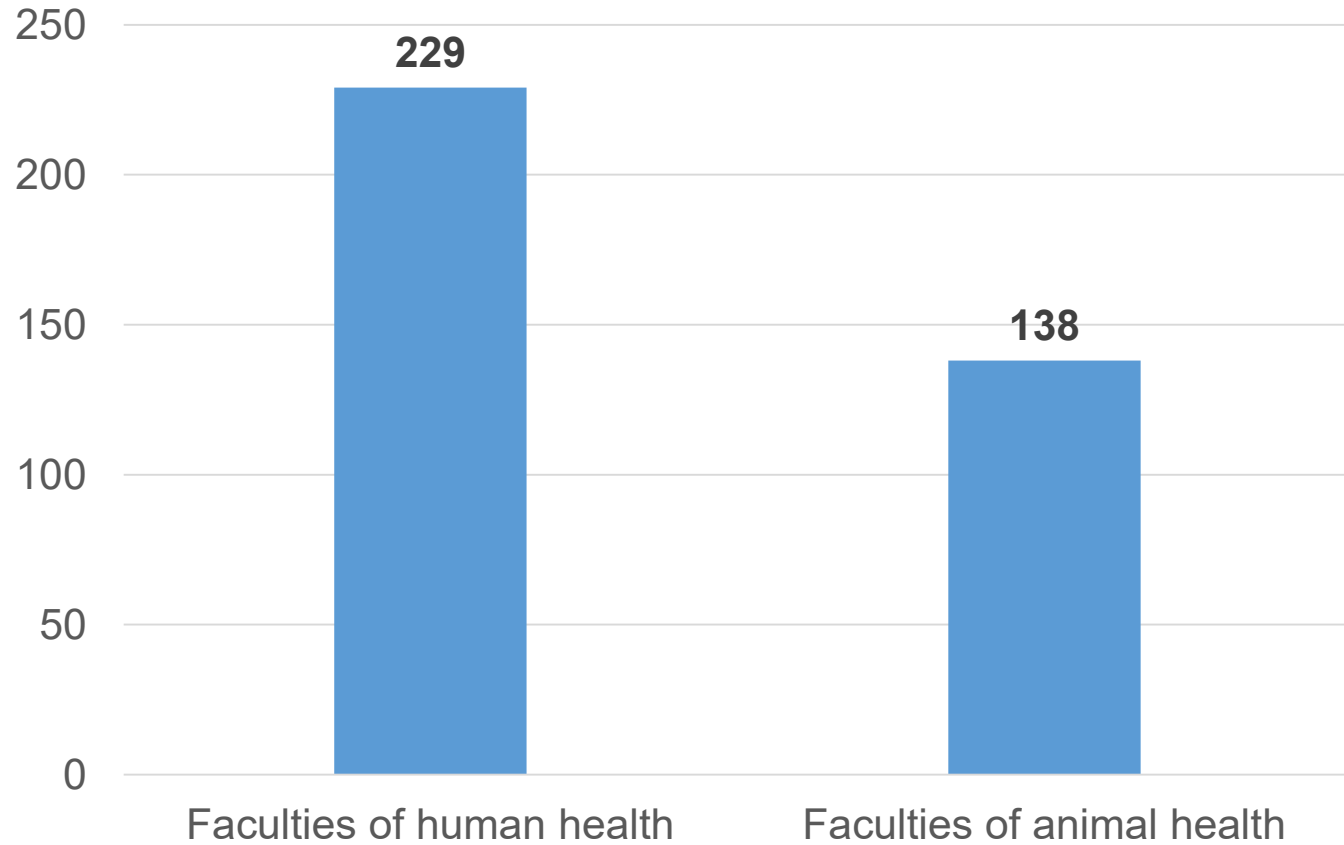
Key achievements

- ▶ OH compulsory module (2-3 credits, under-graduate & post-graduate students: PH, PM, MD, DVM., etc.)
- ▶ Master of Public Health with OH oriented teaching in English (HMU)
- ▶ Master of Public Health majoring in Environmental Health (HUPH)
- ▶ Master of Veterinary Public Health teaching in English (HCM NLU)
- ▶ 400 current health & veterinary staff were trained OH
- ▶ 15 OH students clubs were established (> 1,000 students)
- ▶ Field-based OH teaching & learning
- ▶ OH SMART, etc.

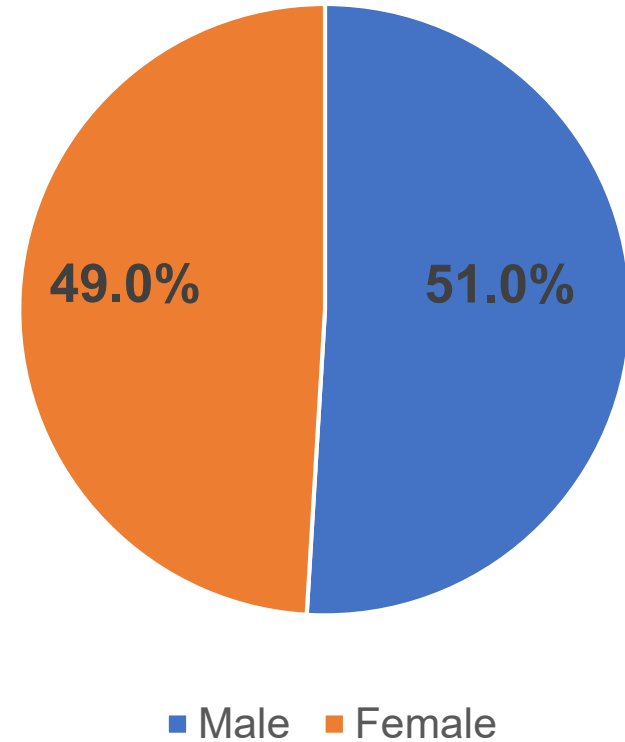


Number of lecturers trained OH: **367** – average age: **35.4** years old

Disciplines of faculty

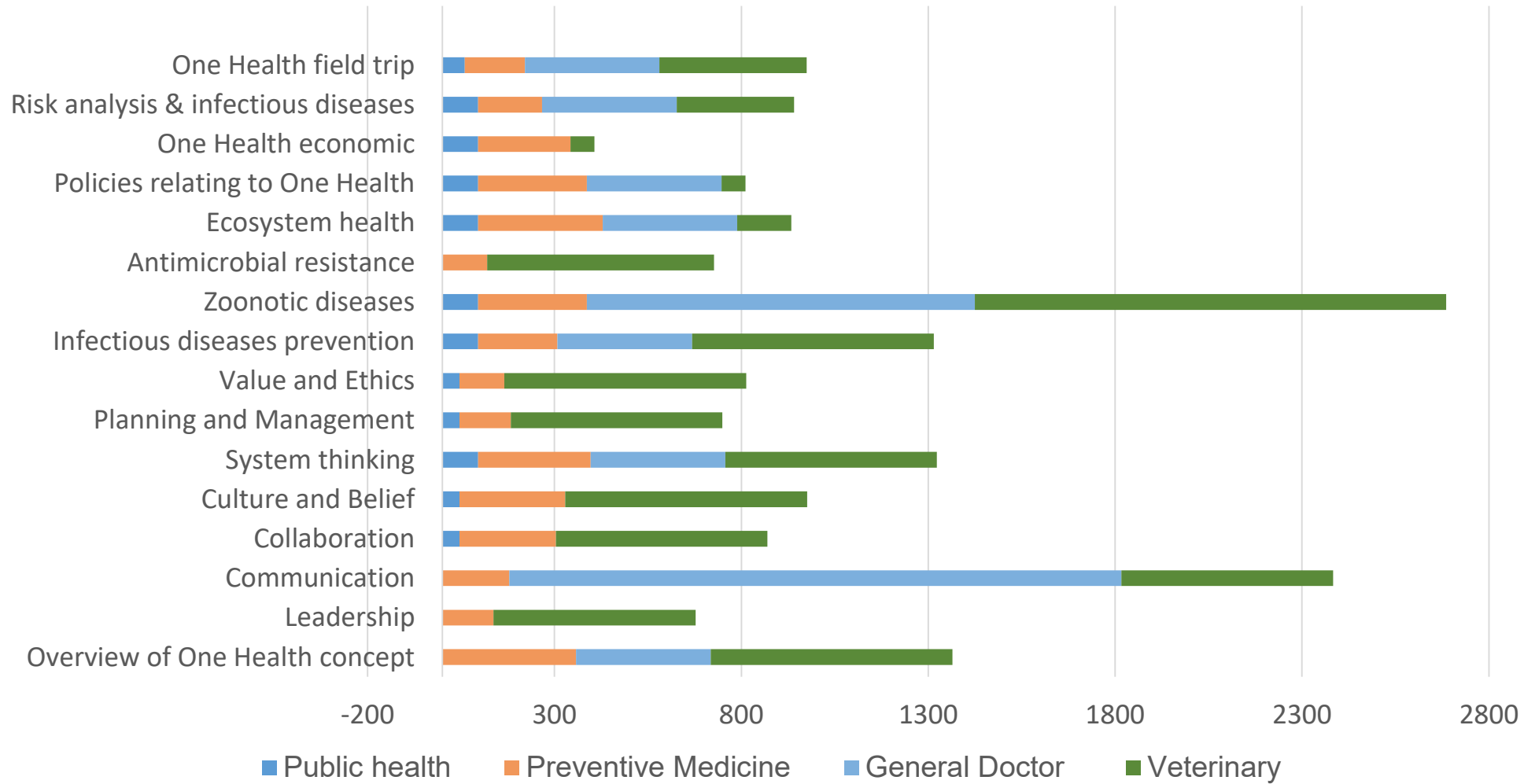


Gender

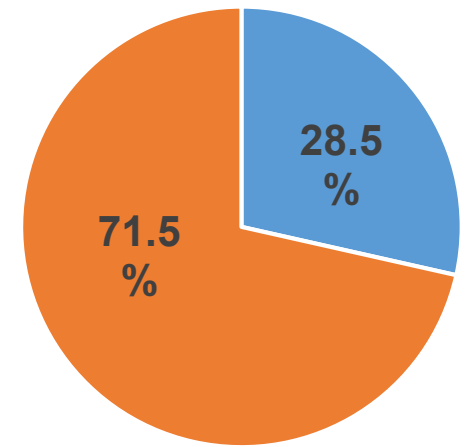




The number students studied One Health modules in 2017 - 2018



Gender



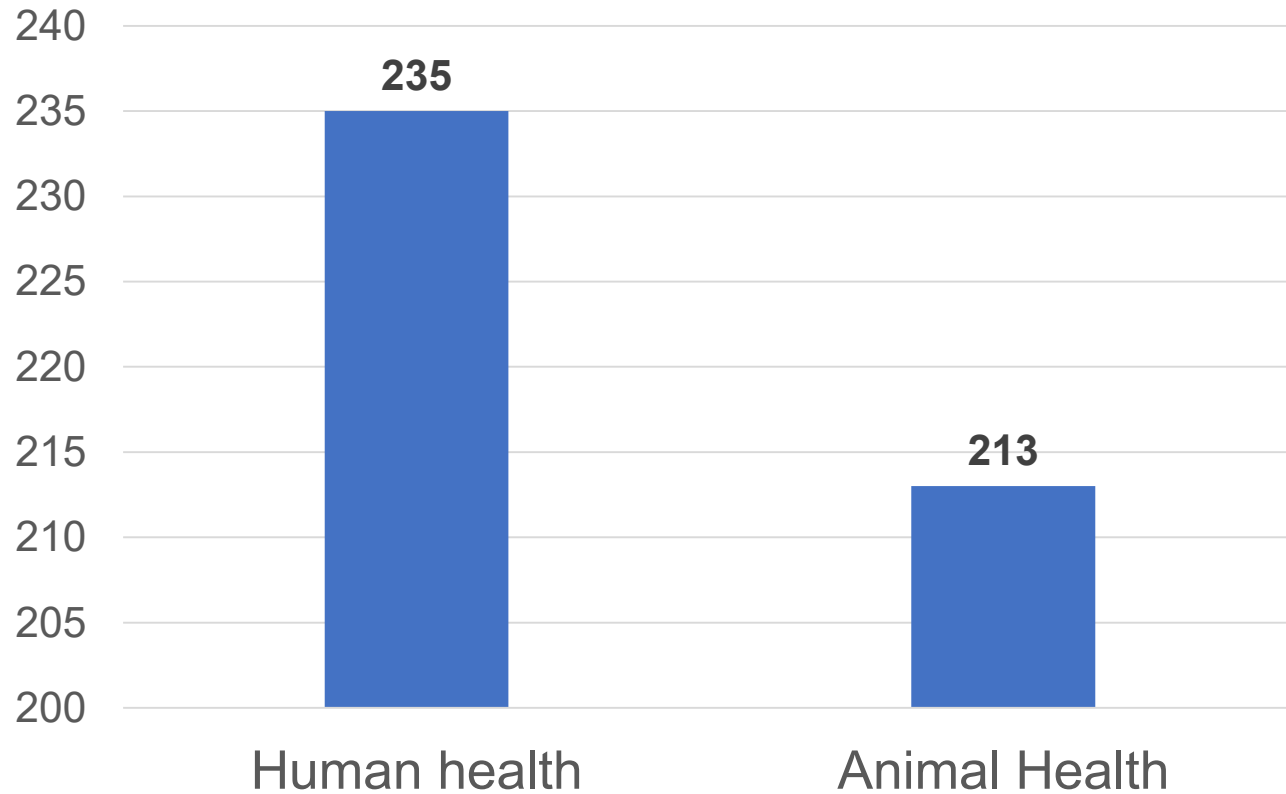
Male
Female



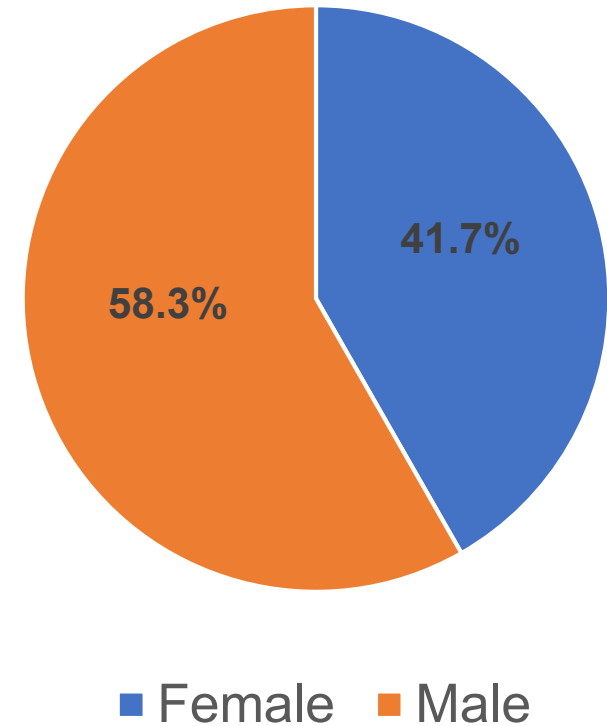


Number of professional staff trained OH: **448** – average age: **33.9** years old

Disciplines of professional staff



Gender





Collaboration & Communication

National One Health Forum
One Health Communication Network
 (One Health Partnership)



World Rabies Day
AMR
 (GDPM, DAH, NIHE, WHO, FAO)

BioRisk Management curriculum
 (DTRA)



OH short training course for professionals
 (CDC, Sub-DAH)



Government agencies consultation





Reflection on One Health Workforce

- Acceptance, policy engagement (e.g. ministries)
- How to share credits, added values of OH curricular among universities & government agencies & other organizations
- Closer collaboration/partnership between universities & government agencies, private sectors, NGOs, CSOs, etc.
- Engaging OHW frameworks within ministries (e.g. National Action Plan)
- Improving the translation of OH education & research evidences into policy
- Complementarity : OH curriculum for other health issue (e.g. NCDs)
- Maintenance & expansion of the networks



Thank you very much!

