

IMPROVING ANIMAL HEALTH KNOWLEDGE AND PRACTICES AMONG LIVESTOCK FARMERS THROUGH INTERACTIVE TRAINING IN NORTHERN VIETNAM

Nam Luong-Hung^{1,2*}, Mai Thi Ngan³, Nguyen Thanh Trung³, Sinh Dang-Xuan¹, Nguyen Thi Thu Hien¹, Dao Duy Tung⁴, Bui Nghia Vuong⁴, Hung Nguyen-Viet¹

¹International Livestock Research Institute, Vietnam, ²Department of Medical Biochemistry and Microbiology, Uppsala University, Sweden;

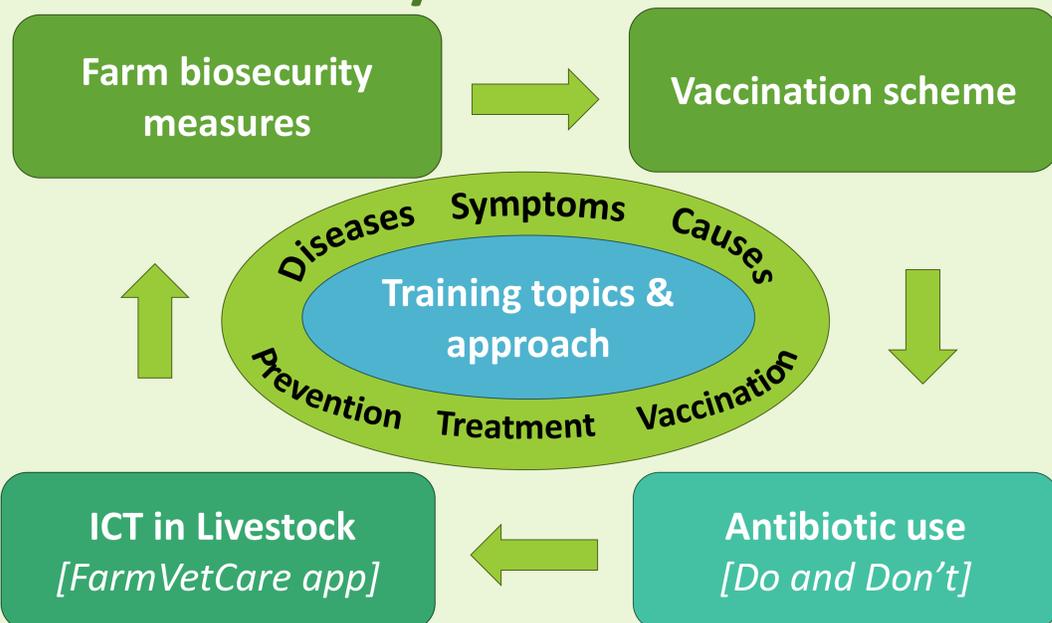
³Vietnam National University of Agriculture, Vietnam; ⁴Vietnam Institute of Animal and Veterinary Sciences, Vietnam

*Corresponding author: N.luong@cgiar.org

Problem statement

- Vietnam is recognized as a hotspot for transboundary animal and zoonotic diseases in Southeast Asia.
- Small- and medium-scale livestock farmers often face limited access to knowledge and practical guidance for implementing biosecurity measures.
- Providing interactive, on-site training is essential to enhancing farmers' capacity to understand and apply effective biosecurity practices.

The solution/Innovation

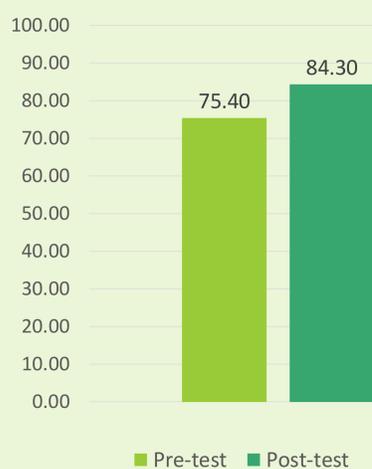


Station rotation and interactive training with livestock farmers to encourage participation and feedback

Key results/impacts

Items	Before training (N=496, %)	After training (N= 504, %)
Gender		
Female	283 (57.1)	271 (53.8)
Male	181 (36.5)	153 (30.4)
Missing data	32 (6.5)	80 (15.9)
Age (year old)		
SD	52.4 (11,6)	51.9 (11.6)
Min-max	17-88	17-78
Education		
Illiterate	19 (3.8)	14 (2.8)
Attended school	362 (72.9)	294 (58.3)
Missing data	115 (23.3)	196 (38.9)

The percentage of correct answers in pre- and post-test



- The overall understanding about *animal health training topics* was significantly improved, with more correct answer from respondents after the training compared to before (p-value <0.001).
- Better understanding about Antibiotic misuse for *animal weight gain purpose* increased, from 30.6% to 84.3%.
- Improved awareness about *substitution between vaccination and antibiotic used*, by increased correct answer from 77.6% to 90.9%.

Regional Conference

Sustainable Livestock Transformation for Food Systems in Asia and the Pacific
Hanoi, Vietnam, 24-25 March 2026



Training materials and provision of simple biosecurity equipment to farmers (Photo: Tuan Nguyen, ILRI)



Training handbook



Interactive with practical exercises during the training session (Photo: Tuan Nguyen, ILRI)

Scalability and regional relevance

- Provides a scalable training framework to improve disease control and prevention by expanding/through veterinary services to other provinces and the region
- Operationalize the One Health approach to apply and address zoonoses, antimicrobial resistance and animal diseases at grass-root level/communities.
- Offers a proven training for authorities to implement targeted training to small- and medium livestock farmers across Southeast Asian, similar-context countries

Partners and donors involved

- Lao Cai Provincial Sub-Department of Crop and Plant Protection, Animal Health and Fishery; and Phu Tho Provincial Sub-Department of Animal Husbandry, Veterinary, and Fishery
- Vietnam Institute of Animal and Veterinary Sciences
- We also acknowledge Ministry of Agriculture, Food and Rural Affairs of the Republic of Korea (MAFRA) and Sustainable Animal and Aquatic Foods (SAAF) program for their financial support

Scan QR code to download all posters at Marketplace

