Strengthening Livestock Disease Prevention and Response Capabilities for Veterinary Students in Lao PDR

Department of Veterinary Medicine

Faculty of Agriculture

Nation of University of Laos

SV **By Dr. Soulasack Vannamahaxay**

HISTORY

- **December 9, 1975.** Founded Nabong Agricultural School by transferring from Ecole Royale Agro-Silvo Pastorale – ERASP
- **1992** Rename to Nabong Agriculture College (NAC)
- **1996** NAC become the Faculty of Agriculture and Forestry (FAF) change from under the Ministry of Agriculture & Forestry to the Ministry of Education and Sport

4 Departments

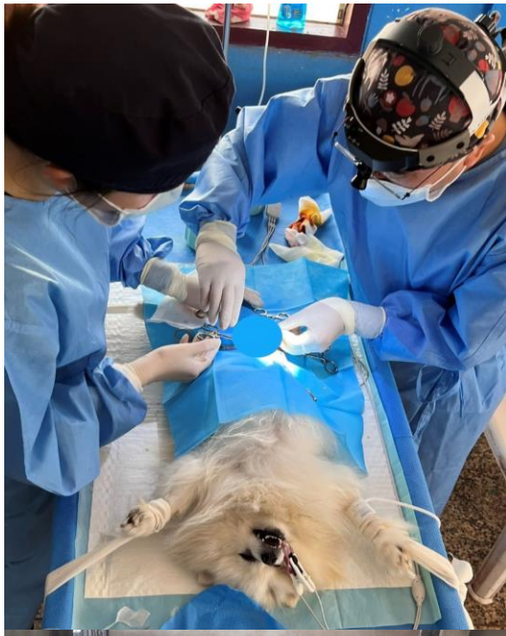
10 Study Programs (5 BSc, 1 DVM, 4 MSc)

1. Department of Crop Production
2. Department of Livestock and Fishery
3. Department of Rural Economics and Food technology

4. Department of Veterinary Medicine (since 2017)

Bachelor of Veterinary Science (BVSc) (since 2009 - 2015)

Doctor of Veterinary Medicine (DVM)(since 2015 - present)



Networking and International cooperation

ASEAN University Network

SEAOHUN
Southeast Asia One Health University Network

LAOHUN
Lao One Health University Network

GREASE

World Organisation for Animal Health
Founded as OIE

Explore opportunities to connect and collaborate with universities and organizations around the world

The institutions we have partnered with include:

Australia

Sydney University,
Queensland,
University, ACIAR

Thailand

Khonkean University
Chiang Mai University

Germany

GIZ, Agrisat

France

CIRAD, IRD,
VetAgro Sup,

China

Yunnan Agri
University

Japan

Kyoto University, JIRCAS
Hokkaido University,
Nagoya University

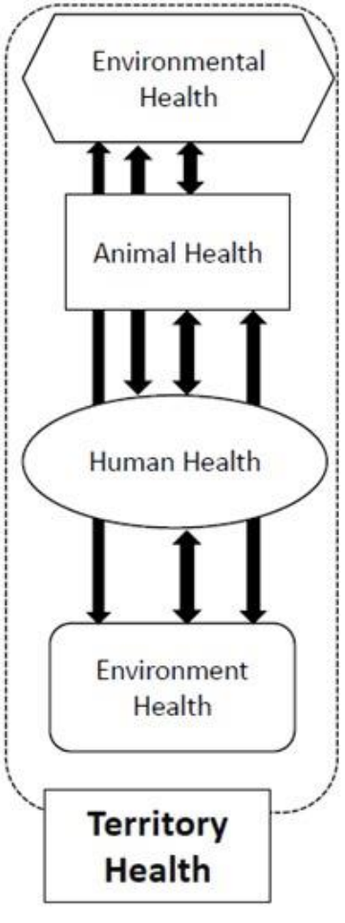
South Korea

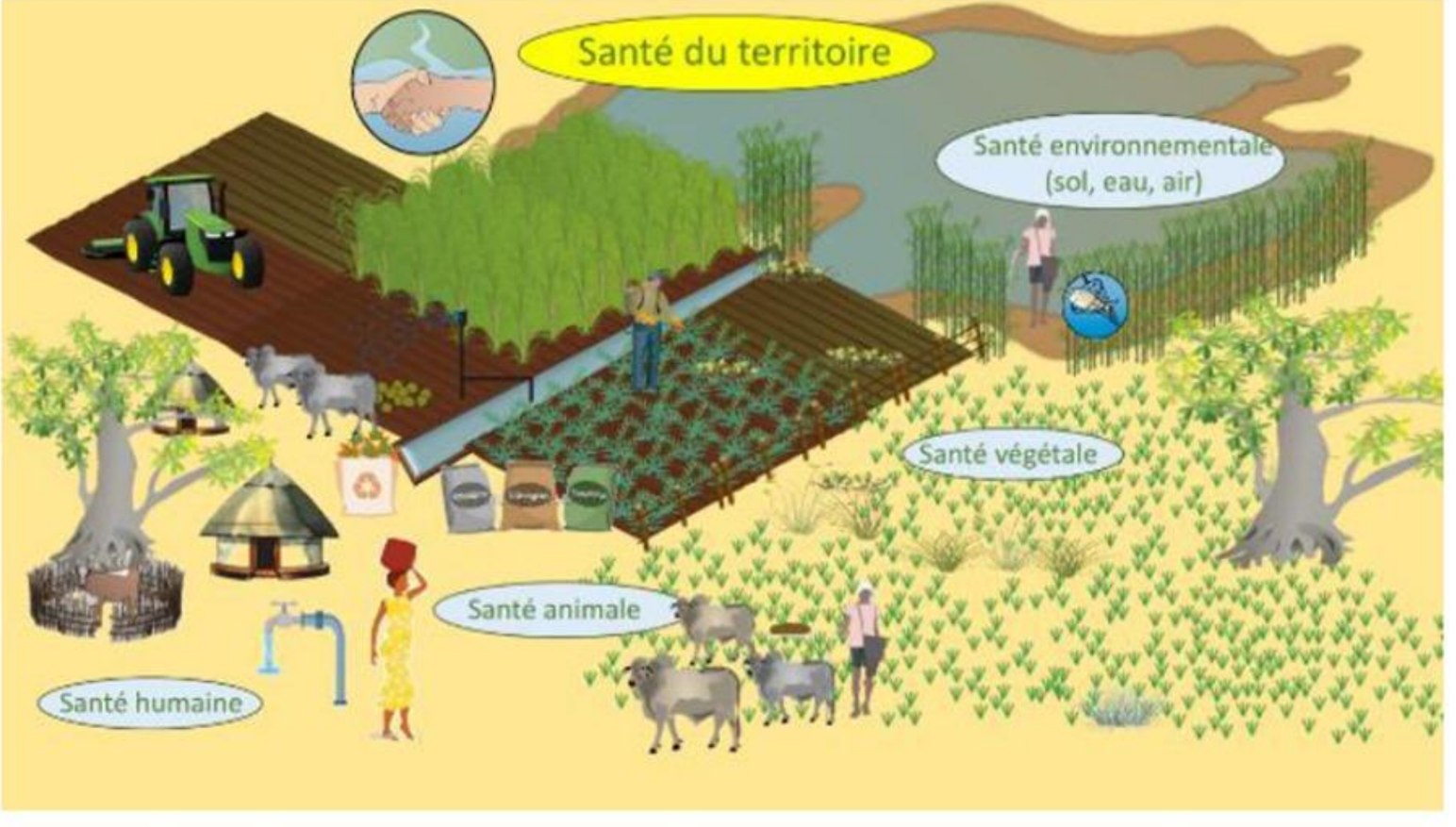
SNU, KonKuk University KOICA,
Milk for Laos, Good Farmer,
Veterinary without boarder

Healthy Territories

Santés Territoires

Action-research and innovation project to support agro-ecological transitions for healthy territory





cirad
AGRICULTURAL RESEARCH FOR DEVELOPMENT

AFD
AGENCE FRANÇAISE DE DÉVELOPPEMENT

DeSIRA
PARTNERSHIPS FOR INNOVATION

Wildlife Practice

elephant conservation center

FREE THE BEARS

“Strengthening Livestock Disease Prevention and Response Capabilities for Veterinary Students in Lao PDR”

Objective

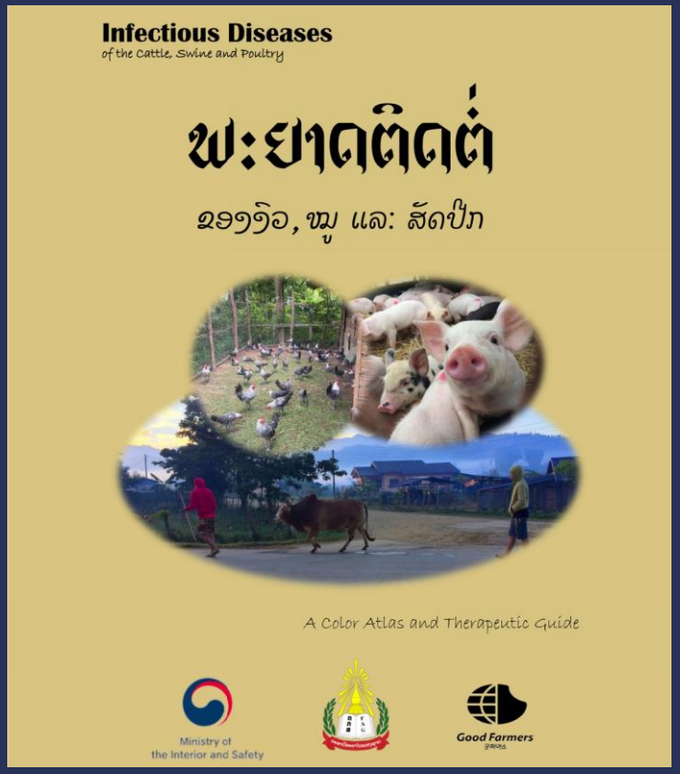
- To build the capacity of veterinary students to practice basic rural veterinary medicine principles and intervene in communities
- Preventive and early intervention rural veterinary services in limited-resource
- This program help the owners to keep animal healthy and wellness for their animals

Principles

Field & Competency-based training	Community outreach	Disease investigation
• Rural area veterinary Services training program for 5th year vet student. • The awareness of animal infectious disease and animal health care for 160 households	• Rural Area Veterinary Services (RAVS)	• Participatory epidemiology (PE) • Primary animal disease detection by the clinical sign observation • Perform laboratory Practices as sample collection and fecal examination

Activities

To achieve our objectives, we had following activities:



Establishing Programs

- Infectious disease handbook

Student Training

- Participatory epidemiology (PE)
- Rural Area Veterinary Services (RAVS) program

Field work execution

Students gain hands-on experience implementing in rural areas

Activities (cont.)

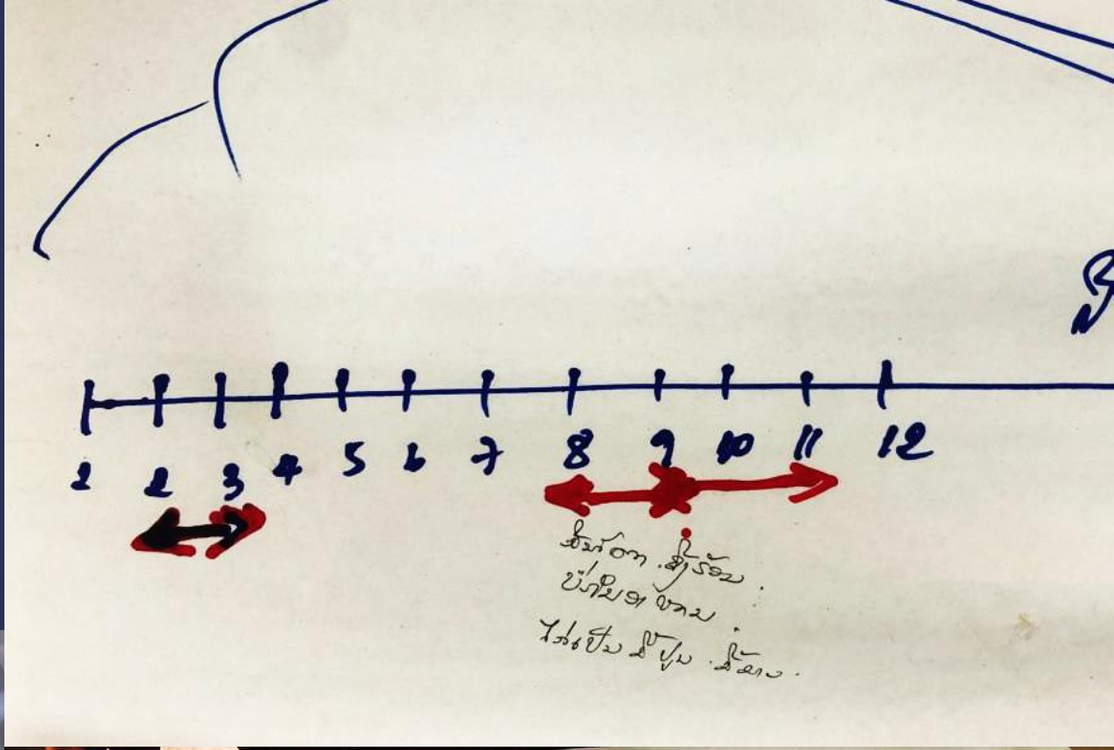
Gastrointestinal parasites examination

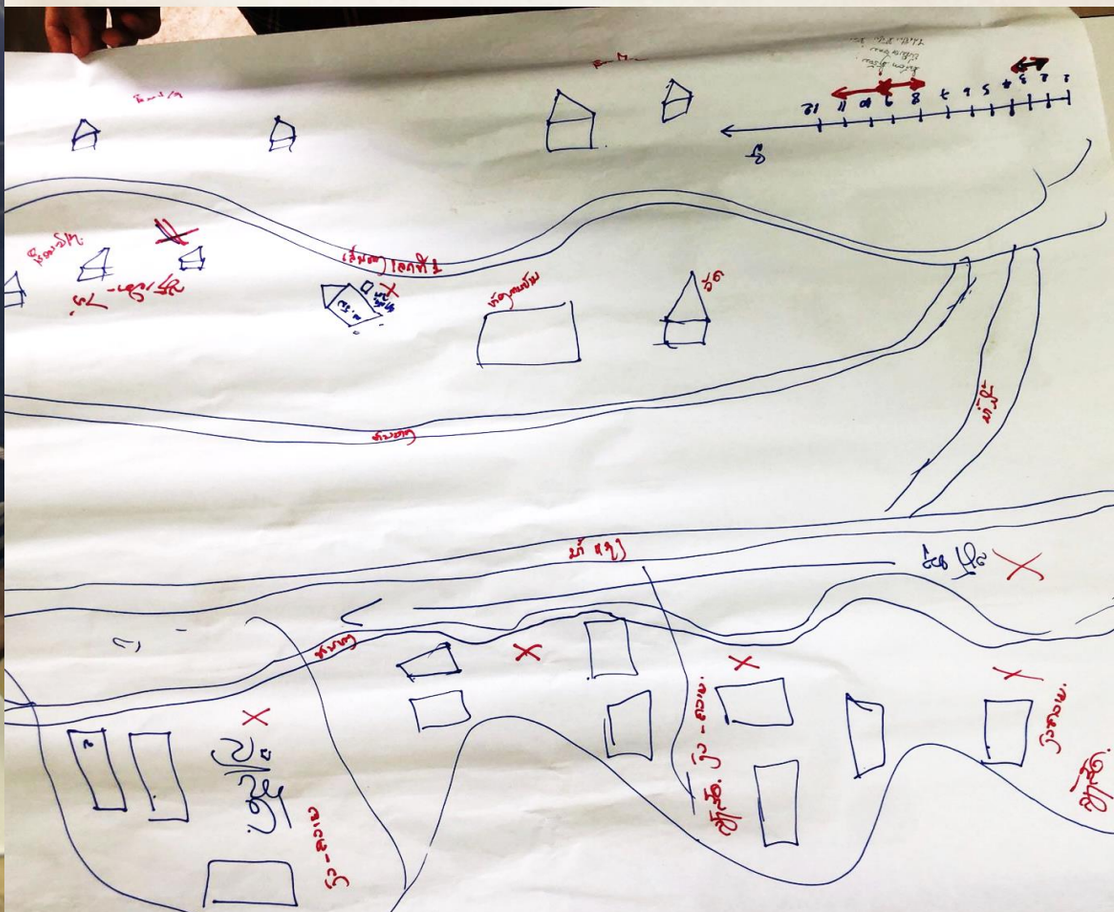
Estimate the prevalence of Livestock gastrointestinal parasites

Animal health interventions

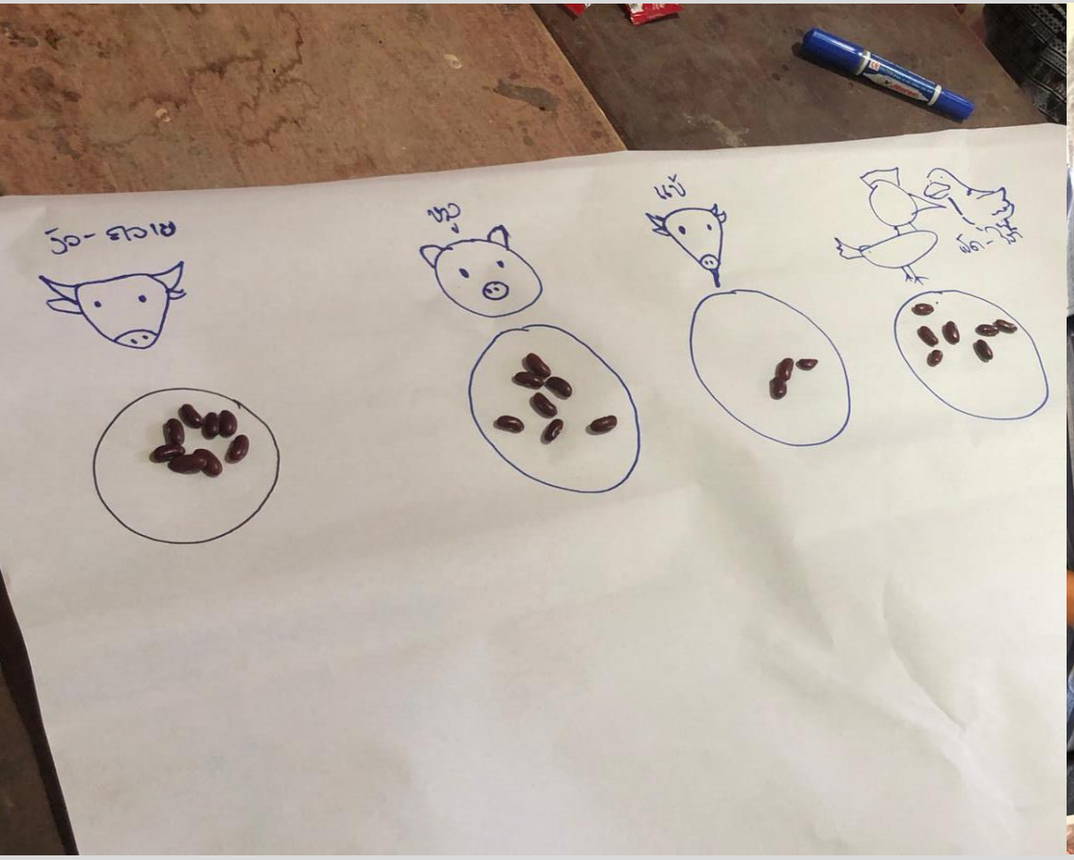
Animal health monitoring and given antiparasitic

- Participatory methods
- Focus group
- Visualization





Participatory methods:
Ranking / Scoring



Sample collection

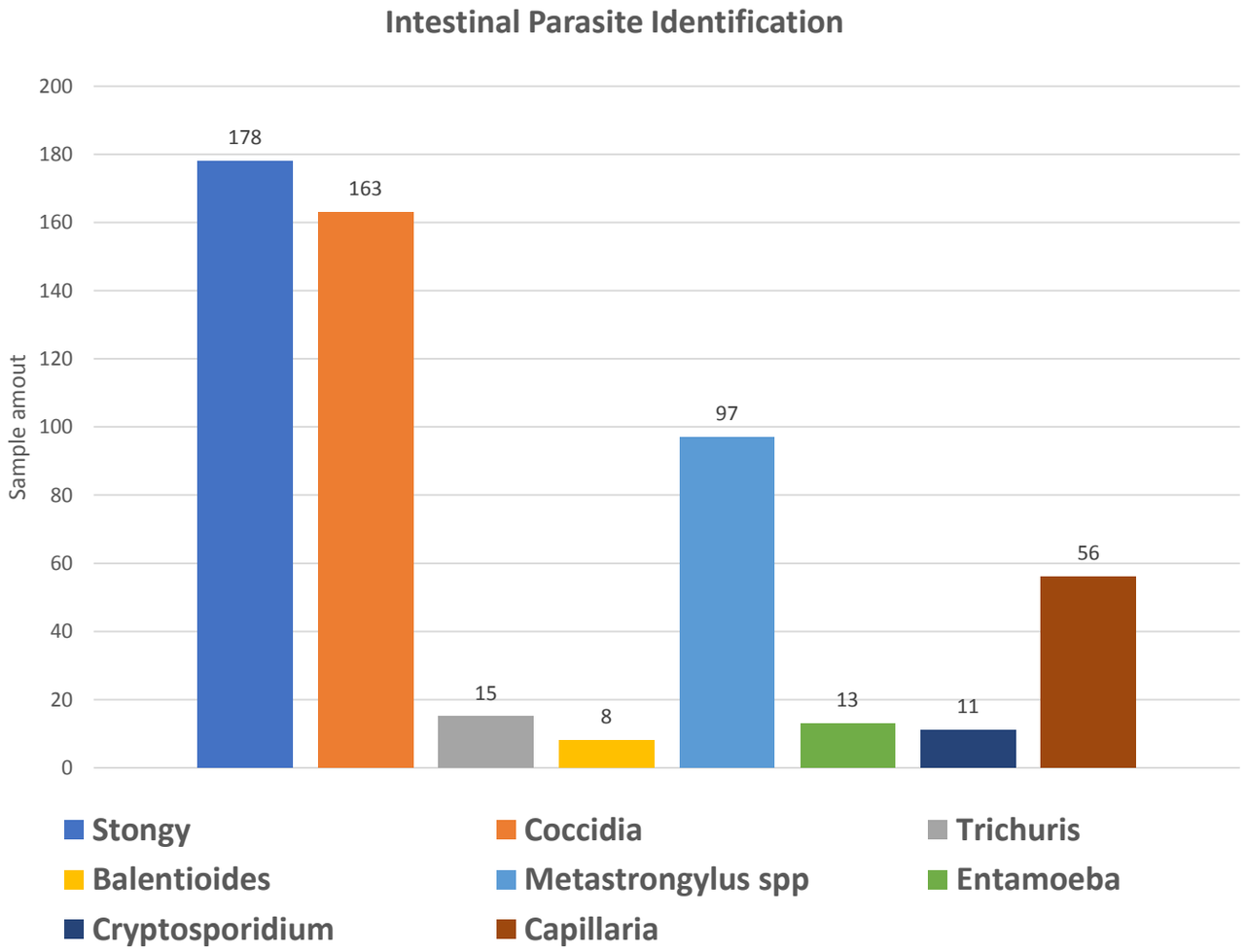
Kham district, Xiengkouang Province (XKH)					
Village	Swine	Cattle	Poultry	Buffalo	Total
Nartum	6	8	0	0	14
Xom	6	28	0	0	34
Lange	7	10	8	0	25
longpiew	2	17	0	0	19
Sanphan	5	15	0	2	22
Total Sample					114
Vieng Kham district, LuangPrabang Province (LPB)					
Village	Swine	Cattle	Poultry	Buffalo	Total
Boumvan	0	14	4	0	18
Heuyjaw	8	5	0	17	30
Samton	5	2	10	0	17
Phukarg	6	4	0	1	11
Kewlai	8	0	0	0	8
Total Sample					84

"198 fecal samples of ruminants, pigs and poultry were collected from 10 villages in two districts of LPB and XKH province"

Livestock System in Rural Areas

Preliminary Result

186 (93,93%) samples were positive for parasite infection. 8 spices were identification



On-going process…..

- Pre and post-training evaluation data analysis
- PE data manipulation
- Identify animal health issues in the study area

Opportunity and Benefits

1 Hands-On Training

Veterinary students can use this experience to develop their skills in RAVS.

2 Better Career Prospects

This training will help students to secure a better job in the future.

3 Community Development

This project helps to develop the community by improving the animal health and well-being of animals in the rural area.

Conclusion

- The project provided an opportunity for veterinary students were able to work directly with animals and learn about the specific challenges and needs of rural communities.
- The project's goal is to improve the well-being of rural communities. By helping to prevent and control livestock diseases
- The students are contributing to the health and prosperity of these communities, which often rely on their animals for food and income.
- The project provides owners with the knowledge they are being to make a positive impact on the lives of both animals and people in these communities.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Thank you