LinkTADs

# D3.5 Training material of Field Epidemiology Training and online presentations

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**D3.5**

**D3.5 Training material of Field Epidemiology Training and online presentations**

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**Author list**

| **Name** | **Organisation** |
|---|---|
| Julien Cappelle | CIRAD |
| Kang Jingli | CAHEC |
| Li Shuo | FAO ECTAD |

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| **Dissemination Level** | | |
| **PU** | Public | **PU** |
| **PP** | Restricted to other programme participants (including the Commission Services) | |
| **RE** | Restricted to a group specified by the consortium (including the Commission Services) | |
| **CO** | Confidential, only for members of the consortium (including the Commission Services) | |

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Harbin Veterinary Research Institute

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China Animal Disease Control Center

Sociedade Portuguesa de Inovação

Huazhong Agricultural University

# Contents

Background ..... 1

Field Eprdemiology Training ..... 3

Annexes ..... 6

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# 01.

# Background

# Background

The main objective of Work Package 3 is improving epidemiological awareness and ability to strengthen the emergence response capacity for emerging infectious diseases (EIDs) and public health threats, through exchanging knowledge and fostering cooperation in the priority areas. This includes the capacity building of using epidemiological tools in animal disease prevention and control programmes, such as surveillance and outbreak investigation, based on novel, scientifically sound methodologies.

According to Task 3.1, a meeting was organised between the main FETPV partners (FAO, CAHEC, RVC and CIRAD) to provide recommendations for further workshops and training sessions. The meeting recommended that under the Task 3.3, a session of training of trainers in field epidemiology will be organised in Qingdao with selected students from the previous FETPV cohorts. The training sessions focused on training participants in how to organise epidemiology training sessions (including educational techniques) and to identify constraints that may be encountered when trying to implement training at the national level.

Based on recommendations from Task 3.1, the Field Epidemiology Training Workshops were held with the participation of both Chinese and European Epidemiologists. The purpose of the initiative is to develop the capacity of selected Chinese FETPV trainers, which is considered as an important step achieving sustainability and localization of the development of veterinary epidemiology in China. These activities were jointly supported by LinkTADs and China FETPV program.

In order to achieve better outcomes, the training was designed as two parts (in April and July 2015). For each part, there were several interactive lectures and networking/discussion sessions on selected topics. The training aims to a) improve Chinese trainers' capacity for teaching veterinary epidemiology; b) develop training curricula and materials in Chinese which are adapted to the Chinese context; and, c) enhance their technical competent on veterinary epidemiology. Experts and experienced researchers were invited to the training sessions and present specific research projects on the respective topics. Training presentations were developed by the invited experts to be used in the events.

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# 02.

# Field Epidemiology Training

# Field Epidemiology Training

## Workshop 1 1-3 April 2015

The first part of the Field Epidemiology Training for Chinese trainers was held in Qingdao from 1st to 3rd April 2015. Ten Chinese FETPV graduates, who showed excellence in previous training sessions and expressed interest in becoming local trainers, participated in this training for trainers. They were mainly from national and provincial level animal disease control centers and research institutions, including CADC, CAHEC and HVRI. The training was delivered by Dr Julian Drewe and Prof. Dirk Pfeiffer from RVC (an institution which runs a specific course in training veterinary teachers, from which some of the material was adapted), and was facilitated by Dr Guo Fusheng, Dr Li Shuo and Tang Hao from FAO China.

The 1st training workshop specifically aimed at:

1. Providing insights to best practice teaching methods and the theory underpinning these.

2. Revising and reaching agreement on the FETPV curriculum for future FETPV courses (ensuring relevance to the Chinese context).

3. Discussing and reaching agreement to a list of teaching sessions and case studies for each topic, with each session having a named trainer attached to lead the development of it.

Dr Julian Drewe and Prof. Dirk Pfeiffer from RVC gave three interactive lectures on learning theories, curriculum development and learning materials. The focus was on 'becoming an effective and better teacher' rather than addressing technical epidemiological content. Mr Tang Hao from FAO ECTAD China led two discussion sessions with all participants. In the discussion sessions, participants reviewed the core competence of FETPV trainees and key topics for the veterinary epidemiology introductory course. The participants also discussed and agreed on assignments and a work plan for Chinese trainers including course development and trainee mentoring. Meanwhile, the workshop also had a session to discuss the ASF outbreak investigation protocol for China

## Workshop 2 8-10 July 2015

Following the first training of trainer workshop in April, the second part of the training was held in Qingdao from 8th to 10th July 2015. Ten Chinese trainers of FETPV participated in the 3-day workshop. The training were delivered by Dr Julian Drewe and Prof. Dirk Pfeiffer from RVC and Dr Flavie Goutard from CIRAD, and facilitated by Tang Hao from FAO China. Three experts from Germany also participated in the workshop and conducted two scientific workshop sessions with participants.

Prof. John Edwards from FAO China gave a presentation to all participants and introduced the platform and opportunities for them, especially the young professionals, to develop capacity on teaching veterinary epidemiology and keep communicating with experienced experts. Dr Julian Drewe gave an interactive lectures on review learning theories and learning assessment. The importance of aligning learning objectives, teaching methods and assessment methods was demonstrated and emphasised. Mr Tang Hao led two discussion sessions with all participants. In the discussion sessions, participants reviewed the field epidemiological study design of every trainee and provided the suggestions individually. In order to improve the teaching capacity, the Chinese trainers' teaching plans were also reviewed. Trainers presented a summary of their plans for each of the 16 topics identified in the last workshop, such as surveillance, outbreak investigation and control strategy. The following contents were included in each topic:

1. Learning objectives
2. Syllabus
3. Teaching methods
4. Course notes
5. Teaching slides
6. Exercise
7. Case study
8. Proposed method(s) of assessment

The presentations were followed by thorough discussions within the group, where feedback was provided on the specific teaching plan. A plan was made accordingly by the speakers on how to improve the teaching sessions. The participants also discussed and agreed on assignments and a work plan for Chinese trainers including course development and trainee mentoring.

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# 03.

# Annex

# Annex

## Annex 1 List of participants and Invited external lecturers

### Participant list

| No. | Name | Institute | Gender |
|---|---|---|---|
| 1 | Tang Hao | FAO | M |
| 2 | Guo Fusheng | FAO | M |
| 3 | Yu Qi | Chinese trainer | F |
| 4 | Wang Jingfei | Chinese trainer | M |
| 5 | Han Xue | Chinese trainer | F |
| 6 | Lan Zouran | Chinese trainer | M |
| 7 | Liu Hualei | Chinese trainer | M |
| 8 | Wang Youming | Chinese trainer | M |
| 9 | Li Yin | Chinese trainer | M |
| 10 | Shen Chaojian | Chinese trainer | M |
| 11 | Wei Xinjie | Chinese trainer | F |
| 12 | Ma Qingxia | FETPV graduate | F |
| 13 | Sun Xiangdong | FETPV graduate | M |
| 14 | Zhao Yunling | FETPV graduate | F |
| 15 | Kang Jingli | CAHEC | F |
| 16 | Liu Ailing | CAHEC | F |
| 17 | Li Jinhua | CAHEC | F |
| 18 | Yu Liping | CAHEC | F |
| 19 | Dirk Pfeiffer | RVC | M |
| 20 | Julian Drewe | RVC | M |

### Invited external lecturers

Dr Carola Sauter-Louis, Deputy Head of the institute of epidemiology of the national animal health institute, Friedrich-Loeffler-Institut (FLI)

Dr Thomas Selhorst, Deputy Head of Epidemiology, Statistics and Mathematical Modelling, Bundesinstitut für Risikobewertung (BFR)

Dr Xu Wenna，Deputy Head of International Affairs, Bundesinstitut für Risikobewertung (BFR)

## Annex 2 Agendas

# FETPV TRAINER'S TRAINING WORKSHOP

# LinkTADs FIELD EPIDEMIOLOGY TRAINING （1）

### Qingdao, 1-3 April 2015

**Aims**

By the end of this workshop the following will have been achieved:

1. Participants will have insights into best practice teaching methods and the theory underpinning these.
2. We will have revised and agreed the FETPV curriculum for the full FETPV course (ensuring relevance to the Chinese context).
3. We will have agreed a list of teaching sessions and case studies for each topic, with each session having a named trainer attached to lead the development of it

## Agenda:

**Wed 1st April: Curriculum development**

| | |
|---|---|
| *8:30-9:00* | *Registration* |
| *9:00-11:00* | **Interactive lecture 1: Intro to learning theories** --Julien |
| *11:00-12:00* | **Discussion** of ideas covered / comparison with Chinese situation |
| *12:00-13:30* | *Lunch* |
| *13:30-15:30* | **Interactive lecture 2: Curriculum development** What is a curriculum and what forms can it take |
| *15:30-17:00* | **Discussion exercise**<br>Develop the basic veterinary epidemiology curriculum adapted to Chinese context and needs |

**Thu 2nd April: Teaching methods**

| | |
|---|---|
| *9:00-12:00* | **Interactive lecture 3: Learning approaches and learning objectives** (Dirk). **--** From basic understanding at the bottom to deep insight and critical insight at the top.<br><br>**Overnight task preparation**: Participants are to each prepare something to teach the next day.<br>**Discussion of ASF outbreak investigation protocol** and how this could be used for teaching opportunities - to align with FAO activity |
| *12:00-13:30* | *Lunch* |
| *13:30-15:00* | **Scientific lectures: Spatial Analysis in Veterinary Epidemiology** (Dirk) |
| *15:30-17:00* | **Scientific lectures: Exploration of spatial data** (Dirk) |

**Fri 3rd April: Development of learning materials**

| | |
|---|---|
| *9:00-12:00* | **Overnight task follow-up**<br><br>**Interactive lecture 4 (with props): learning materials**<br><br>**Discussion**: Identification of which teaching materials are required to fill the FETPV curriculum.<br><br>**Practical Exercise** |
| *12:00-13:30* | *Lunch* |
| *13:30-15:00* | **Scientific lectures: Risk Management and Communication I** (Dirk) |
| *15:30-17:00* | **Scientific lectures: Risk Management and Communication II** (Dirk) |

# FETPV TRAINER'S TRAINING WORKSHOP

# LinkTADs FIELD EPIDEMIOLOGY TRAINING （2）

## Qingdao, 8-10 July 2015

**Aims of this workshop:**

1. Participants will have insights into best practice teaching and assessment methods and the theory underpinning these.
2. We will have revised and agreed the FETPV curriculum for the full FETPV course (ensuring relevance to the Chinese context).
3. For a list of 16 teaching topics, the materials and case studies will have been developed, tested, revised and stored, ready for the basic training of future courses.

## Agenda:

| Date | Morning session | Afternoon session |
|---|---|---|
| Wed 8 July | • Welcome and introduction (Dirk Pfeiffer)<br>• Icebreaker (Julian Drewe)<br>• Brief review of the areas of learning theory discussed in previous workshop (Dirk Pfeiffer and Julian Drewe)<br>• Discussion: how to apply each of these areas of learning theory to the FETPV course (including constructive alignment and overall curriculum design) | • Scientific workshop session led by Germany experts (FLI and BFR)<br>a) focus on how to improve trainees' experience and learning when doing coursework/field projects; b) presentations with interactive discussion; c) integrate with key challenges/difficulties/questions from the participants |

| Date | Morning session | Afternoon session |
|---|---|---|
| Thu 9 July | • Lecture: Assessment and Feedback (Julian Drewe)<br>• Discussion of how to consistently and coherently assess trainees through the FETPV course<br>• Discussion of experiences and lessons during the teaching and mentoring | • Scientific workshop session led by Flavie Goutard<br>• Review of trainers' plans for teaching topics – session 1 (session led by Chinese trainers) |
| Fri 10 July | • Review of trainers' plans for teaching topics – session 2 (session led by Chinese trainers) | • Outstanding discussions<br>• Plan next steps<br>• Timetable for trialling the recently developed teaching sessions |

# Annex 3 Training Materials

**RVC- Prof Dirk Pfeiffer and Dr Julian Drewe**

- Risk Management and Management and Management and Management and Communication

FETPV 2015 - Risk and decision maki

- Spatial Analysis in Veterinary Epidemiology

FETPV 2015 - Spatial analysis