



## **Continuing Professional Development on respiratory diseases of sheep**

Dates. 25, 26 and 27<sup>th</sup> of January 2017.

Background: Our team can provide a broad knowledge on ovine respiratory diseases that has been acquired during years of work at both experimental and practical level. This knowledge has been applied back in daily clinical practice with very good results in the control and prevention of these respiratory processes. We have a whole range of respiratory problems in ewes and lambs and annually we receive many respiratory clinical cases at the small ruminant clinical veterinary service of the Veterinary Faculty of Zaragoza (SCRUM).

### **Program**

#### **25<sup>TH</sup> January 2016. Wednesday**

##### **9.00h. Welcome and presentation to the course (15 min)**

- ✓ Introduction. Sheep production systems in Spain. Focus on key aspects related to respiratory diseases (husbandry, management, climate factors, transport, etc...) (45 min).

##### **10:00h. Diseases that primarily affect young animals.**

- 10.00h. Multifactorial character of respiratory diseases in lambs: ovine respiratory complex (45 min).
- 10.45h. Epidemiology of ovine respiratory complex from farm to feedlot (45 min).

##### **11.30h. Coffee break**

- 12.00h. Role of climatic and environmental factors in the development of ovine respiratory complex. From the general to the particular ambient (45 min).

- 12.45h. Lesions in ovine respiratory complex. The path to aid diagnosis and guidance for taking appropriated samples (45 min).

### **13.30h. Lunch time**

- 15.30h. Etiology of ovine respiratory complex. Focus on bacteria role: *Mycoplasma spp*, *Mannheimia haemolytica*, *Pasteurella multocida* and *Bibersteinia trehalosi* and their relationships (45 min).
- 16.15h. Treatment of bacterial respiratory diseases (60 min).
- 17.15h. Prevention of ovine respiratory complex based on vaccines: types of vaccines, vaccination programs and outcomes (45 min).

## **26<sup>TH</sup> January 2016. Thursday**

### **9.00h. Casa Ganaderos Feedlot Visit.**

- Facilities assessment
- Detection of lambs affected by respiratory diseases
- Clinical examination.
- Identification of risk factors.
- Necropsy.
- Sampling.

### **13:30 h: Lunch time**

### **15.30h. Diseases that primarily affect adult animals**

- ✓ 15.30h. Upper airways diseases.
  - 15.30h. Chronic proliferative rhinitis associated with *Salmonella enterica* subspecies *diarizonae* (35 min).
  - 16.05h. Enzootic intranasal tumour (45 min).
  - 16.50h. Sheep oestrosis (*Oestrus ovis*) (35 min).
- ✓ 17.30h. Ovine pulmonary adenocarcinoma (OPA).
  - 17.30h. Pathogenesis, symptoms and lesions (45 min).
  - 18.15h. Epidemiology, diagnostic and control (45 min).

## **27<sup>TH</sup> January 2016. Friday**

- ✓ 9.00h. Ovine progressive pneumonia (Visna/Maedi virus).
  - Pathogenesis, symptoms and lesions (45 min).
  - Epidemiology, diagnostic and control (45 min).
- ✓ 10.30h. Parasitic bronchitis and pneumonia (45 min).

### **11.15h. Coffee break**

- ✓ 12.00h. Other chronic respiratory diseases (gangrenous pneumonia, pseudotuberculosis, etc...) (45 min).
- ✓ 12.45h. Use of X-ray and ultrasounds in the diagnostic of respiratory diseases (35 min).

### **13.30h. Lunch Time**

### **15.30h. Practical session**

Clinical examination.

- Auscultation.
- Sampling in live animals.
  - Tracheobronchial lavage
  - Broncho-alveolar lavage
- ✓ Use of ultrasound in diagnosis of respiratory diseases.
- ✓ Necropsy of previously-studied animals.
- ✓ Sampling at necropsy.



Hospital  
Veterinario  
Universidad Zaragoza

### **Teaching staff:**

- ✓ Luis Miguel Ferrer Mayayo, Diplomate ECSRHM.
- ✓ George C. Fthenakis, Diplomate ECSRHM.
- ✓ José María González Sainz, Diplomate ECSRHM.
- ✓ Marcelo de la Heras Guillamón, Diplomate ECVP (European College of Veterinary Pathologists).
- ✓ Delia Lacasta Lozano, Diplomate ECSRHM.
- ✓ Lluís Luján Lerma, Diplomate ECVP.
- ✓ Aurora Ortín Pérez, Diplomate ECSRHM.
- ✓ Juan José Ramos Antón, Diplomate ECSRHM.
- ✓ Joaquin Uriarte Abad, Diplomate EVPC (European Veterinary Parasitology College).
- ✓ Teresa Navarro Rodrigo. ECSRHM resident

**Location: Veterinary Faculty, University of Zaragoza, Zaragoza, Spain. C/ Miguel Servet 177. 50013 Zaragoza. Spain.**

**Maximum number of attendees: 20 (residents take preference)**

**Minimum number of attendees: 10**

### **CPD FEES:**

- Residents: free inscription. Lunch: 50€
- No Residents: 350€ (lunch included)

**The reservation of places is opened from July 1<sup>st</sup> 2016 and the registration will be effective from September 1<sup>st</sup> 2016. Registration will close when the number of 20 attendees is reached.**

**For pre-registration please contact with Delia Lacasta: [dlacasta@unizar.es](mailto:dlacasta@unizar.es)**