Barcelona 16-18 Junio 2016

**Course International Chairman**: Alessandro Piras.

**Course National Chairman**: Fidel San Roman Ascaso,

**Course Local Chairman :** Josep de la Fuente.

**Faculty**:

Ulrike Matis Dipl ECVS, Dipl.ACVS. Ex. Profa. Cirugía Fac. Vet Munich. GER

Roberto Kostlin Dipl ECVS. Ex. Prof. Cirugía Fac. Vet Munich. GER

Ignacio Calvo Bermejo, Dipl ECVS. Assistant Professor Royal Veterinary College

Miguel Angel Sanchez Valverde Prof. Cat. Cirugía. Fac. Vet.Murcia

Manuel Gonzalo Orden Prof. Tit. Cirugía. Fac. Vet. León

Josep de la Fuente Prof. Asoc. Traumatología Fac. Vet. Autónoma Barcelona

Jesús Rodriguez Quirós Prof. Cont. Fac. Vet. Madrid

José Altonaga Prof. Tit. Cirugía Fac. Vet. León

Fidel San Román Ascaso Prof. Cat. Cirugía Fac. Vet. Madrid. Dipl EVDC.

Fidel San Román-Llorens, PhD, Chief of Orthopedics. Hospital Veterinario Valencia Sur.

Alessandro Piras DVM. Surgical and Canine Sport Medicine Referral Services. Russi. Ravenna. Italy.

**Assistants**:

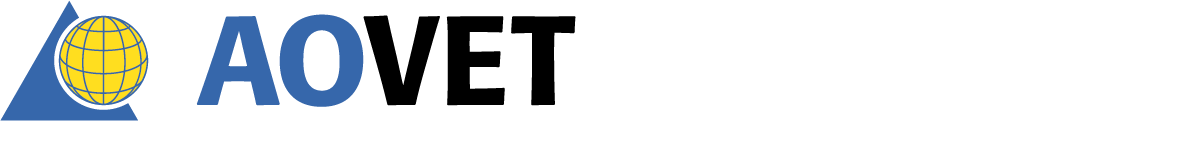
Manuel García Gomez, Clínica Asturpet, Gijón, Asturias

Daniel Mendoza, Head of orthopedics. YourVets Coventry. Tile Hill. Coventry CV56UB.

**Presentation of the Course**

The AOVET Principles Course is focused on the treatment with internal fixation of the most common fractures of small animals, by applying the AO principles.

This course is the cornerstone of the training in the operative treatment of fractures.



**Learning objectives**

Recognition of the role of biology and mechanical aspects in the process of fracture

healing.

Learning and applying the AOVET principles in treating diaphyseal fractures of the appendicular skeleton

Acquisition of practical skill in the treatment of diaphyseal fractures through exercises on plastic bones.

Recognition of the risks and potential intra-operative complications related to the treatment of fractures.

**Partner Company**

De-Puy Synthes

**Organization**

T1: Frontal Lesson

T2: Fireside discussion (clinical cases)

T3: Laboratory on plastic bones

T4: Sum-up

**Thursday June 16, 2016**

| **Time** | **Topic** | **Speaker** |
| --- | --- | --- |
| 8.30-9.00 | Registration of participants |  |
| 9.00-9.10 | Welcome and presentation of the Course | F. San Roman |
| **Module 1** | **SCIENCE OF BONES, FRACTURES AND IMPLANTS** |  |
| 9.10-9.20 | AO History and Philosophy | Alessandro Piras |
| 9.20-9.40 | Bone Structure, Vascularity and Function | Alassandro Piras |
| 9.40-10.10 | Bone Healing Under Stable and Unstable Conditions | Manuel Gonzalo Orden |
| 10.10-10.40 | Fracture Classification and Biomechanics | Ignacio Calvo |
| 10.40-11.00 | Coffee Break |  |
| **Module 2** | **AOVET Principles** |  |
| 11.00-11.30 | Principles of Bone Screw Function: Plate Screw, Position Screw, and Lag Screw | Ignacio Calvo |
| 11.30-12.00 | Principles and Clinical Application of Cerclage Wiring | Ignacio Calvo |
| 12.00-12.30 | Principles and Clinical Application of Tension Band Wiring | Ignacio Calvo |
| 12.30-13.00 | The surgical approach and soft tissue handling | Miguel Angel Sanchez Valverde |
| 13.00-14.00 | Lunch |  |
| 14.00-16.00 | **Practical Exercises: Lab 1**  Introduction to instrumenst, neutral screw, compression screw, cerclage wire introduzione allo strumentario | Ignacio Calvo  Daniel Mendoza  Fidel San Román-Llorens |
| 16.00-16.30 | Coffee Break |  |
| 16.30-16.55 | Principles and Clinical Application of Dynamic Compression Plate (DCP), Limited Contact-Dynamic Compression Plate (LC-DCP) and Locking Compression Plate (LCP) | Alessandro Piras |
| 16.55-17.20 | Principles and Clinical Application of Neutralization Plate Stabilization | Jesús Rodriguez Quirós |
| 17.20-17.45 | Principles and Clinical Application of Intramedullary Fixation | Josep de la Fuente |
| 17.45-18.10 | Principles and Clinical Application of Buttress/Bridge Plate and Plate/Rod Stabilization | Alesandro Piras |
| 18.10-18.40 | Principles of Joint Fracture Treatment | Miguel Angel Sanchez Valverde |
| 19.00 | Sum-up of the day |  |

**Friday 17 June 2016**

| **Time** | **Topic** | **Speaker** |
| --- | --- | --- |
| 8.30-10.00 | **Practical Exercises: Lab 2**  Femoral oblique fracture fixed with IM pin and cerclage wires.  Humeral lateral condyle fracture fixed with compression screw and pin  Transverse radial fracture fixed with compression plate | Dani Mendoza  Miguel Angel Sanchez Valverde  Manuel García Gomez |
| 10.00-10.30 | Fracture reduction techniques | Alessandro Piras |
| 10.30-11.00 | Coffe break |  |
| **Module 3** | **Treatment of diaphyseal fractures** |  |
| 11.00-11.30 | Humeral fractures | Matis |
| 11.30-12.00 | Radius-ulna fractures | Köstlin |
| 12.00-13.00 | Fireside discussion |  |
| 13.00-14.00 | Lunch |  |
| 14.00-16.00 | **Practical Exercises: Lab 3**  Butterfly tibial fracture fixed with neutralization plate  Comminuted femoral fracture fixed with plate and rod  Iliac fracture fixed with plate | Ulrike Matis  Roberto Kostlin  Fidel San Román-Llorens |
| 16.00-16-30 | Coffee Break |  |
| 16.30-17.00 | Femoral fractures | Matis |
| 17.00-17.30 | Tibia fractures | José Altonaga |
| 17.30-18.30 | Fireside discussion |  |
| 18.30-19.00 | Sum-up of the day |  |

**Saturday 18 June 0215**

| **Time** | **Topic** | **Speaker** |
| --- | --- | --- |
| 8.30-9.00 | Pelvic fractures | Matis |
| 9.00-9.30 | Fractures in growing animals | Köstlin |
| **Modulo 4** | **Complicanze** |  |
| 9.30-10.00 | Radiographic Assessment of Fracture Healing | Ignacio Calvo |
| 10.00-10.30 | Delayed Union and Nonunion | Fidel San Román Llorens |
| 10.40-11.00 | Coffee Break |  |
| 11.00-11.40 | Diagnosis and treatment of osteomyelitis | Alesandro Piras |
| 11.40-12.10 | Open fractures | Jesús Rodriguez Quirós |
| 12.10-12.30 | Post-operative management | Josep de la Fuente |
| 12.30-13.00 | Implant Removal | Matis |
| 13.00-14.00 | Lunch |  |
| 14.00-15.00 | **Practical Exercises: Lab 4**  “Fracture game “  Oblique humeral fracture | Fidel San Roman Llorens  Jesús Rodriguez Quirós  Jóse Altonaga |
| 15.00-15.30 | Instrumentation and implants to get started | Alessandro Piras |
| 15.00-16.00 | Fireside discussion |  |
| 16.00-16.30 | Coffee Break |  |
| 16.30-17.30 | Sum-up of the Course  What did we learned?  Participation Certificates and End of the Course | Alessandro Piras  Ulrike Matis  Roberto Kostlin  Ignacio Calvo |