



AOVET Master Course in Complex Fracture Management

.....

Description

Building on the knowledge and skills gained through the AO Basic Principles in Fracture Management course, this AOVET Master Course in Complex Fracture Management explores the treatment of complex articular fractures and comminuted fractures treated by minimally invasive plate osteosynthesis.

Educational Objectives

- Decision making in challenging articular fracture treatment and minimally invasive fracture fixation techniques
- Be able to perform diaphyseal and articular fracture fixation on plastic bone models and cadaveric specimen
- Evaluate post-op rads of the wet-lab, recognize potential pitfalls and technical mistakes

Prerequisites

AO Basic Principles of Fracture Management course, as some competence with instrumentation and techniques is assumed.

Laboratory

In the labs plastic bone models (dry lab) and cadaveric specimens (wet lab) will be used. At the end of each day session an interactive discussion will take place based on the post-operative radiographs.

Course Chairman

Bruno Peirone

Co-Chairman

Fulvio Cappellari

Faculty

Bruno Peirone, DVM, PhD, Professor of Small Animal Orthopedic

Fulvio Cappellari, DVM, PhD

Luca Vezzoni, DVM, DECVS

Philipp Schmierer, DVM, DECVS

October 29th 2021

Timetable	Topic	Speaker
8.30-9.00	Registration	
9.00-9.05	Welcome and Course Organization	
9.00-9.20	What's new in articular fracture repair	
9.20-9.40	Approaches to the elbow joint: tips and tricks	
9.40-10.10	Complex distal articular humeral fractures	
10.10-10.30	Proximal ulna fractures	
10.30-11.00	coffee break	
11.00-11.30 dry lab	Fracture of the lateral portion of the humeral condyle	
11.30-13.00 wet lab	Fracture of the lateral portion of the humeral condyle Proximal ulna articular fracture	
13.00-14.00	Lunch	
14.00-14.45 dry lab	Distal humeral Y fracture	
14.00- 16.00 wet labs	Y fracture of the humeral condyle	
16.00-16.30	coffee break	
16.30-17.00	Incomplete ossification of the humeral condyle	
17.00-18.30	wet lab exercises discussion (Rads)	All Faculty
18.30-19.00	Day sum-up -What did we learnt	

October 30th 2021

Timetable	Topic	Speaker
8.30-8.50	Approaches to the hip joint - tips and tricks	
8.50-9.10	Acetabular fractures treatment options	
9.10-9.30	How do I treat hip luxation?	
9.30-10.00	Current trends in SI luxation	
10.00-10.30	coffee break	
10.30-13.00 wet lab	Fracture of the femoral neck Approach to the hip joint with trochanteric osteotomy Application of a reconstruction plate on acetabular fracture	
13.00-14.00	Lunch break	
14.00-16.00 wet lab	Fixation of a sacro-iliac joint luxation Treatment of hip luxation	
	coffee break	
16.30-17.00	Distal femoral fractures	
17.00-17.30	Distal radius-ulna fractures in toy breed dogs	
17.30-19.00	wet lab exercises discussion (Rads)	
	Q&A	All

October 31st 2021

Timetable	Topic	Speaker
8.30-9.00	Biomechanics of complex long bone fractures	
9.00-9.30	Indirect reduction techniques	
9.30-9.50	MIPO: when really does it makes sense	
9.50-10.10	Radius-ulna fractures with MIPO	
10.10-10.30	Tibia fractures with MIPO	
10.30-11.00	Coffee Break	
11.00-13.00 wet lab	Comminuted tibia fracture with MIPO Comminuted radius-ulna fracture with MIPO	
13.00-14.00	lunch	
14.00-14.30	Femoral fractures with MIPO	
14.20-14.50	MIPO Pros and Cons	
14.50-16.30	wet lab exercises discussion (Rads)	ALL
16.30-16.45	Course sum-up What did we learnt	
16.45-17.00	Course Closure	

DRY LAB

EXERCISE	BONE MODEL	VIDEO	IMPLANTS
Fracture of the lateral portion of the humeral condyle	SAWBONE Sku: 2003-22	SI	3.5 mm cortical screw 1.6/2.0 mm Kirschner wire
Distal humeral Y fracture	SAWBONE Sku: 2003-5	SI	3.5 6 holes plate 2.7 6 holes plate 3.5 mm cortical screw

Wet Lab

EXERCISE	LOCATION	DESCRIPTION	IMPLANTS
Fracture of the lateral portion of the humeral condyle	Right elbow	Prepare fracture from cranial approach (day before) Surgical approach and osteosynthesis	3.5 LCP plates (6,7,8 holes) 2.7 LCP plates (6,7,8 holes) 3.5 mm traditional and locking screws 2.7 mm traditional and locking screws
Proximal ulna fracture	Right elbow	Surgical approach Preparation of articular fracture with oscillating saw by the faculty Osteosynthesis	3.5 LCP plates (8,9,10 holes) 2.7 LCP plates (8,9,10 holes) 3.5 mm traditional and locking screws 2.7 mm traditional and locking screws Kirschner wires (1.0, 1.2, 1.4, 1.6, 2.0) Cerclage wires (0.8, 1.0, 1.2)
Y fracture of the humeral condyle	Left elbow	Prepare fracture from cranial approach (day before) Surgical approach and osteosynthesis	3.5 LCP plates (6,7,8,9,10 holes) 2.7 LCP plates (6,7,8,9,10 holes) 3.5 mm traditional and locking screws 2.7 mm traditional and locking screws
Fracture of the femoral neck	Right hip	Cranio-lateral approach to hip Preparation of neck fracture with oscillating saw by the faculty Osteosynthesis	3.5 and 2.7 mm traditional screws Kirschner wires (1.0, 1.2, 1.4, 1.6, 2.0)

EXERCISE	LOCATION	DESCRIPTION	IMPLANTS
Lateral approach to the hip joint	Right hip	Surgical approach with greater trochanter osteotomy	
Application of a reconstruction plate on the acetabulum	Right hip	Application of a reconstruction plate on the acetabulum	2.7 and 3.5 reconstruction plates (6,7,8 holes)
Fixation of a sacro-iliac joint luxation	Left ileum	Surgical approach to sacroiliac joint Preparation of sacroiliac luxation with osteotomy by the faculty Application of lag screw	3.5 and 2.7 mm traditional screws Kirschner wires (1.0, 1.2, 1.4, 1.6, 2.0)
Treatment of hip luxation	Left hip	Cranio-lateral approach with hip luxation Reduction and stabilization with toggle pin or ileo-femoral suture	Toggle pin Orthofiber
Comminuted tibia fracture with MIPO	Left tibia	Preparation of comminuted tibia fracture and x-ray Osteosynthesis	3.5 and 2.7 LCP plates (9,10,11,12 holes) Steinmann pins (2.0, 2.5, 3.0 mm)
Comminuted radius-ulna fracture with MIPO	Left radius-ulna	Preparation of comminuted radius-ulna fracture and x-ray Osteosynthesis	3.5 and 2.7 LCP plates (9,10,11,12 holes) Steinmann pins (2.0, 2.5, 3.0 mm)