



GENERAL PRACTITIONER CERTIFICATE IN ORTHOPOEDICS – GPCert(Ortho)

SYLLABUS

This syllabus is intended to guide the delegate to the key areas they are expected to understand. The emphasis is very much on the clinical approach to different orthopaedic presentation. In particular, the veterinarian will learn to develop a rational step-wise logical approach to different orthopaedic complaints from principles of lesion localisation, establishing differential diagnostic list, choosing appropriately ancillary diagnostic test to having knowledge of treatment options available.

The veterinarian will be expected to have knowledge of common disorders and an appreciation of resource material from where further research can be undertaken into more unusual conditions. Additional reading lists and resource material will be provided by individual tutors during the course.

- The orthopedic visit: history and evaluation of gait and posture.
- Palpation and manipulation of the forelimb and hind limb.
- The orthopedic examination: palpation and manipulation of the distal ends
- Tendo-muscular disorders
- Deformities and limb deviation: definitions and pathogenesis
- Orthopedic disorders of the dog in growth, joints and bone segments.
- Orthopedic oriented approach to the race and the size of the dog
- Orthopedic shoulder pathologies in dogs in growth and in adult dogs.
- Orthopedic elbow in dogs in growth and in adult dogs.
- Orthopedic disorders of the carpus and tarsus in dogs in growth and in adult dogs.
- Orthopedic hip in dogs in growth and in adult dogs.
- Knee diseases in dogs in growth and in adult dogs.
- Primary and metastatic bone neoplasms.

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- Neoplasms of soft tissue orthopedic.
- The orthopedic examination: neurological evaluation and diagnostic imaging indicated.
- Neurological pathologies of orthopedic interest.
- Besides radiology: other surveys of diagnostic imaging in musculoskeletal diseases (ECO,TAC,RM,SCINTIGRAPHY).
- Management of the patient with multiple orthopedic problems, choosing priorities.
- Empowerment of the surgeon in orthopedics and traumatology and management of complications.
- Knowledge of basic set and specialistic instruments for orthopedic surgery, service and sterilization.
- Acquire practical skill for soft tissue handling and surgical approaches to humerus and shoulder joint.
- Learning and application of direct/indirect fracture reduction techniques for humeral fractures
- Learning and application of bandage techniques
- Acquire practical skill for surgical approaches of the forelimb and hip joint.
- Learning and application of direct/indirect fracture reduction techniques for forelimb fractures
- Acquire practical skill for surgical approaches of the rear limb
- Learning and application of direct/indirect fracture reduction techniques for rear limb fractures
- Recognize the role of biology and mechanics in bone healing.
- Knowledge of AO/VET instrument and implants for fracture treatment.
- Learning and application of AO principles: cerclage, tension band, positional and compressive screw, compression, neutral and bridging plate
- Application of AO principle in long bone fractures.
- Acquire practical skill in fracture treatment in laboratory using plastic bone models
- Recognize intra-operative challenges and potential complications in fracture treatment with internal fixation.

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- Identify and treat most common bone healing pathologies: delayed union, non-union, osteomyelitis.
- Recognize intra-operative challenges and potential complications in fracture treatment with internal fixation.
- Knowledge of joint surgery
- Principles of treatment of articular fractures and of tendon and ligaments injuries.
- Knowledge and principles application in arthrodesis
- Correct diagnostic and therapeutic approach in congenital and traumatic luxation, shoulder instability, carpal and tarsal post-traumatic instability.
- Knowledge of articular and periarticular front limb fracture and principles of treatment.
- Implants selection and surgical technique in pancarpal, pantarsal and tarsal arthrodesis.
- Knowledge of articular and periarticular rear limb fracture and principles of treatment.
- surgical treatment of sacroiliac luxation
- Correct diagnostic and therapeutic approach in traumatic hip luxation
- Indications, contraindication, expectation in Femoral Head and Neck Excision and surgical technique.
- Knowledge of surgical techniques for Cranial Cruciate Ligament rupture and correct application of extra articular surgery.
- Correct diagnostic approach to medial and lateral congenital patellar luxation and surgical and correct application of TTT and patellar groove deepening.
- Diagnostic approach to Achilles tendon injuries and surgical treatment
- Knowledge of most common external fixation systems.
- Learning of External Fixation principles for long bones fracture treatment.
- Learning of indication and contra-indication of External Fixation in traumatology.
- Application of External Fixation principles in long bone fractures treatment.
- Acquire practical skill in fracture treatment with External Fixation techniques
- Recognize intra-operative challenges and potential complications in fracture treatment with external skeletal fixation.
- Recognize intra-operative challenges and potential complications in fracture treatment with internal fixation.

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- Basic knowledge of treatment principles of most common complications related to External Skeletal Fixation techniques.
- Knowledge of other potential applications of External skeletal Fixation in orthopedics
Knowledge of frame disassembling method.
- Pediatric Orthopedics : why ?
- Orthopedics oriented approach to breeds
- Pathogenesis and development of hip dysplasia in puppies
- Tests of Barlow and Ortolani in puppies
- Measurement of the angles of reduction and subluxation
- Standard radiographic screening for early diagnosis of HD: VD to arts extended ,VD frog, DAR, distraction.
- Pathogenesis and development of elbow dysplasia in puppies.
- Execution of standard radiographic for the elbow
- Radiographic interpretation of early diagnosis.
- Evaluations of early diagnosis of FCP/OCD
- Evaluations of early diagnosis of UAP
- Evaluations of early diagnosis of other diseases of the elbow
- Options for early treatment of hip dysplasia in puppies.
- Interactive discussion of cases of early diagnosis HD, with choice of treatment
- Treatment options of elbow dysplasia in puppies
- Interactive discussion on cases of early diagnosis ED, with choice of treatment
- Results and complications of the treatment of early HD
- Results and complications of the treatment of early ED
- Pathologies physeal
- Treatment of alignment defects in dogs , in growth physeal disorders .
- Early diagnosis and treatment of OCD for the shoulder
- Early diagnosis and treatment of OCD for the knee
- Early diagnosis and treatment of OCD for the hock

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- Treatment of injuries of the cruciate in dogs in growth
- Tendon-muscular disorders in dogs in growth