

### **Canine I: Introduction to Canine Rehabilitation- Online Lecture Series**

Reviews the regulatory issues involved in this field of practice from the perspective of physical therapists and veterinarians. An overview of basic comparative anatomy will be reviewed, as well as commonly used therapeutic interventions. Collaboration between the veterinary and physical therapy professions will be emphasized to enhance the learning experience.

### **Canine II: Physical Agent Modalities and Therapeutic Exercises-Online Lecture Series**

This course will provide the participant with the didactic material for selected physical agent modalities used in canine physical rehabilitation. Superficial heating and cooling agents, therapeutic ultrasound, extracorporeal shockwave treatment, laser therapy, and electrical stimulation will be covered as well as theoretical applications with cases. This course also provides the participant with the basic skills necessary to prescribe and provide therapeutic exercise programs for dogs. Benefits and risks associated with therapeutic exercise programs will be covered along with outcome assessment of exercise programs. Topics covered include joint biomechanics, exercise physiology, range of motion and stretching, gait training, strengthening exercises, balance and proprioceptive exercises, aquatic exercises, and exercises for wellness/prevention. Outcome measures (goniometry, circumferential measurements, etc.) will also be covered.

### **Canine III: Physical Agent Modalities and Therapeutic Exercises (Live Lab)**

This course will provide the participant with laboratory experiences for selected physical agent modalities used in canine physical rehabilitation. Superficial heating and cooling agents, therapeutic ultrasound, extracorporeal shockwave treatment, laser therapy, and electrical stimulation will be covered. A palpation lab on live dogs is included to review important anatomical structures for rehabilitation. This course also provides the participant with the basic skills necessary to prescribe and provide therapeutic exercise programs for dogs. Benefits and risks associated with therapeutic exercise programs will be covered along with outcome assessment of exercise programs. Topics covered include exercise physiology, range of motion and stretching, gait training, strengthening exercises, balance and proprioceptive exercises, aquatic exercises, and exercises for wellness/prevention. Outcome measures (goniometry, circumferential measurements, etc.) will also be practiced in this course. Orthopedic and neurological evaluation/assessment of the rehabilitation patient will also be reviewed and performed with supervision.

### **Canine IV: Putting it All Together: Designing & Implementing a Rehabilitation Program (Homework: Preparation , Live Lab: presentation and discussion)**

Design and implement a comprehensive rehabilitation program for commonly seen orthopedic and neurologic conditions in the canine patient. A case study approach will be utilized teaming students from different professions.

### **Canine V: Canine Osteoarthritis Management,**

The course will cover the entire spectrum of OA Case Management from maximizing the effectiveness of business practices, correct utilization of Veterinarians, the veterinary technician and the dog handler in a team approach within case management applications, and exploration and application of the most common treatment modalities using the multimodal approach.

**Canine VI** Clinical Practicum (Externship & Case Studies) This is the individual portion of the program. You are required to complete five case studies and a 40 hour externship.

**Canine VII:** Written and Practical Exam. (proof of degree and/or license must be on file) Offered every all year round as an online exam in 3 steps:

- 1) upload your 5 cases for evaluation – once evaluated with a “pass” continue with
- 2) written exam: available every last week of a month. Access can be chosen individually during this week, min. 70% are required for a pass, in order to continue with the last step:
- 3) practical exams. Again, we offer them as a zoom meeting online every month. Alternatively limited slots are available at each location, during the lab days (day 4 of the onsite part).

\*Courses must be completed in order. The Canine V (OA) can be taken in advance of starting the program. Should you have completed OA case manager before you entered the academic CCRP program, you can take pain management instead.

## CCRP Program Details

The CCRP program is a systematic and comprehensive package. Those completing the program will receive a CCRP credential. It is important to the other CCRP's around the world that all candidates complete the full spectrum of CCRP training. The CCRP credential is available only as a complete package.

Payment plans are available.

## Canine I - E-Learning

### Introduction to Canine Rehabilitation (12 contact hours)

#### **Course description:**

Canine I reviews the regulatory issues involved in this field of practice from the perspective of physical therapists and veterinarians. The response of tissues to disuse and re-mobilization will be covered and clinically applied to the science of veterinary rehabilitation. An overview of basic comparative anatomy will be reviewed, as well as commonly seen orthopedic and neurological conditions and commonly used therapeutic interventions. Collaboration between the veterinary and physical therapy professions will be emphasized to enhance the learning experience. How to get started in the field and protocol development will be reviewed.

Classes and units (plus complete workbook):

### **1. Why Physical Rehabilitation?**

- Unit 1: Introduction to Physical Rehabilitation
- Unit 2: Conditions That Can Benefit from Rehab
- Unit 3: Additional Conditions That Can Benefit from Rehab
- Unit 4: Question & Answer Session
- Class 1: Quiz

### **2. Introduction to Canine Rehabilitation**

- Unit 1: Introduction
- Unit 2: Overview of Canine I - VII
- Unit 3: Canine Rehab Background
- Unit 4: Differences Between Human and Canine Rehab
- Unit 5: Questions & Answer Session
- Class 2: Quiz

### **3. Responses of Musculoskeletal Tissues to Disuse & Remobilization**

- Unit 1: Introduction
- Unit 2: Immobilization and Remobilization
- Unit 3: Effects of Training and Drugs on Cartilage
- Unit 4: Joint Capsule Changes with Immobilization and Remobilization
- Unit 5: Response of Muscle to Reduced Use and Remobilization
- Unit 6: Muscle Measurement & Changes Following Cruciate Ligament Surgery
- Unit 7: Remobilization of Muscle
- Unit 8: Response of Ligaments and Tendons to Reduced Use & Remobilization
- Unit 9: Response of Ligaments & Tendons to Stress, Mobilization, & Drugs
- Unit 10: Response of Bone to Reduced Use and Stress
- Unit 11: Response of Bone to Reduced Use and Stress
- Class 3: Quiz

### **4. Canine Osteology & Arthrology**

- Unit 1: Terminology and Shoulder Region
- Unit 2: Elbow, Antebrachium, and Carpals
- Unit 3: Ilium, Femur & Hip
- Unit 4: Tibia, Fibula, Stifle, and Tarsus
- Class 4: Quiz

### **5. Canine Myology**

- Unit 1: The Forelimb
- Unit 2: The Rear Limb Class
- 5: Quiz

## **6. Neuroanatomy**

- Unit 1: Vertebrae Anatomy & Spinal Nerve Relationships
- Unit 2: Cervical Intumescence & Nerves of the Forelimbs
- Unit 3: Lumbosacral Intumescence & Nerves of the Rea Limb
- Class 6: Quiz

## **7. Common Neurologic Conditions**

- Unit 1: Signs Based on Lesion Localization
- Unit 2: Intervertebral Disc Disease
- Unit 3: Cervical, Thoracolumbar, & Lumbar Disc
- Unit 4: Postoperative Considerations in Spinal
- Unit 5: Wobbler Syndrome
- Unit 6: Degenerative Myelopathy
- Unit 7: Fibrocartilagenous Embolic Myelopathy
- Unit 8: Trauma & Inflammatory Conditions
- Unit 9: Miscellaneous Spinal Conditions
- Class 7: Quiz

## **8. Common Ailments in the Hindlimb**

- Unit 1: Canine Hip Dysplasia - Part I
- Unit 2: Canine Hip Dysplasia - Part 2
- Unit 3: Patella Luxations
- Unit 4: Cranial Cruciate Injuries
- Unit 5: Cranial Cruciate Injuries - Post-surgical Treatments
- Unit 6: Fracture Mangement
- Class 8: Quiz

## **9. Common Conditions of the Forelimb**

- Unit 1: Assessment of the Forelimb
- Unit 2: OCD Shoulder
- Unit 3: Biceps Tenosynovitis & Infraspinatus Contracture
- Unit 4: Elbow Dysplasia & Fractures
- Class 9: Quiz

## **10. Canine Behavior & Handling**

- Unit 1: Communication & Behavior
- Unit 2: Aggression and Handling Tips
- Class 10: Quiz

## **11. Canine Examination**

- Unit 1: Introduction to Canine Examination

- Unit 2: Diagnosis & Interventions
- Class 11: Quiz

## **12. Orthopedic Evaluation**

- Unit 1: Initial evaluation & Lower Hindlimbs
- Unit 2: Stifle and Hip
- Unit 3: The Forelimb
- Class 12: Quiz

## **13. Neurologic Examination**

- Unit 1: Neurologic Examination of the Forelimb & Rear Limb
- Class 13: Quiz

## **14. The Team Approach / Getting Started**

- Unit 1: The Team Members
- Unit 2: Getting Started
- Unit 3: Resources, Marketing, and Fee Schedule
- Unit 4: Summary
- Class 14: Quiz

## **15. Additional Resources**

- a) Cranial Drawer Motion
- b) Olecranon Process
- c) Coranoid Process
- d) Ortolani Sign
- e) Lumbosacral Palpation
- f) Femoral Antiversion and Angle of Inclination
- g) Hip Dysplasia

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# **Canine II - Course: Physical Agents , Electrotherapeutic Modalities, Therapeutic Exercise Prescription/Aquatic Therapy (E-learning)**

**Physical Agents & Electrotherapeutic Modalities**

**Course description:**

This course will provide the participant with the didactic and clinical applications of selected physical agent modalities used in canine physical rehabilitation. Superficial heating and cooling agents, therapeutic ultrasound, extracorporeal shock wave treatment, cold lasers and neuromuscular electrical stimulation will be covered in the lecture, with laboratories to practice using the modalities. In addition, This course will provide the participant with the basic skills necessary to prescribe and provide therapeutic exercise programs for dogs. Benefits and risks associated with therapeutic exercise programs will be covered along with outcome assessment of exercise programs. Some of the topics covered will be; range of motion, strengthening exercises, aquatic exercises and exercises for wellness/prevention. Techniques will be practiced during extensive laboratories on live animals.

**Objectives:**

1. Participants understand acute and chronic inflammation and its management
2. Participants understand the regulatory issues involved in canine rehabilitation
3. Participants understand the principles of thermotherapy (heat) as a therapeutic modality and can apply it safely
4. Participants understand the principles of cryotherapy (cold) as a therapeutic modality and can apply it safely
5. Participants understand the principles of therapeutic ultrasound as a therapeutic modality and can apply it safely
6. Participants understand the principles of electrical stimulation as a therapeutic modality and can apply it safely
7. Participants understand the principles of therapeutic laser as a therapeutic modality and can apply it safely
8. Participants understand the principles of ECSWT as a therapeutic modality and can apply it safely
9. Participants understand the principles of massage as a therapeutic modality and can apply it safely
10. Participants understand the principles of range of motion and stretching and can perform it safely
11. Participants understand the principles of proprioceptive exercises and can perform them safely
12. Participants understand the principles of aquatic exercises and can perform them safely
13. Participants understand the principles of therapeutic exercises and can perform them safely
14. Participants understand the principles of outcome assessment and can perform goniometry and limb circumference

**Classes and units (plus complete workbook):****1. Acute and chronic inflammation**

- Unit 1 Signs & Causes

- Unit 2 Acute Inflammation
- Unit 3 Chronic Inflammation
- Unit 4 Acute vs. Chronic Inflammation
- Class 1 Quiz

## **2. Regulatory issues**

- Unit 1 Regulatory issues
- Class 2 Quiz

## **3. Physical Agent Modalities**

- Unit 1 General Guidelines - Part 1
- Unit 2 General Guidelines - Part 2
- Unit 3 General Principles
- Class 3 Quiz

## **4. Principles of Heat as a Therapeutic Agent**

- Unit 1: Biological Effects of Heat
- Unit 2: Thermotherapy Examples
- Class 4 Quiz

## **5. Principles of Cold as a Therapeutic Agent**

- Unit 1: Biological Effects of Cold
- Unit 2: Cryotherapy Examples
- Unit 3: Question & Answer Session
- Class 5 Quiz

## **6. Therapeutic Ultrasound in Small Animal Practice**

- Unit 1: Introduction
- Unit 2: Typical Parameters
- Unit 3: Administration Guidelines
- Unit 4: Thermal Effects
- Unit 5: Preparation & Application
- Unit 6: Non Thermal Effects
- Class 6 Quiz

## **7. Electrotherapy**

- Lecture Series I: Basic Principles of Electrical Stimulation
  - Unit 1: Basic Principles of Electrical Stimulation
  - Unit 2: Electrodes
  - Unit 3: Parameters
  - Unit 4: Types of Stimulators

- Lecture Series II: Neuromuscular Electrical Stimulation (NMES)
  - Unit 5: Neuromuscular Electrical Stimulation
  - Unit 6: NMES Applications
- Lecture Series III: Electrical Stimulation for Pain Control
  - Unit 7: Electrical Stimulation for Pain Control
  - Unit 8: Motor Level Stimulation
- Lecture Series IV: Electrical Stimulation for Edema Reduction
  - Unit 9: Electrical Stimulation for Edema Reduction
- Class 7 Quiz

## 8. Laser Therapy

Laser Therapy in Veterinary Practice Ray Arza, DVM

- Unit 1: History and Classification
- Unit 2: Laser Penetration
- Unit 3: Parameters
- Unit 4: Laser-Tissue Interaction
- Unit 5: Therapeutic Protocols

Introduction to Low Level Laser  
Darryl L. Millis, MS, DVM, Diplomate ACVS, CCRP, Diplomate ACVSMR

- Unit 1: Principles
- Unit 2: Research
- Unit 3: Types of Lasers
- Class 8 Quiz

## 9. Extracorporeal Shockwave Treatment

- Unit 1: Introduction
- Unit 2: Clinical Effects
- Unit 3: Osteoarthritis Studies
- Unit 4: Elbow Osteoarthritis
- Unit 5: Demonstration
- Class 9 Quiz

## 10. Stem Cell and Regenerative Medicine

- Adipose Stem Cell Therapy
- Adipose Stem Cell Therapy
- Biologic Intervention: Platelet Rich Plasma & Stem Cell Therapy
- Unit 1: Platelet Rich Plasma
- Unit 2: Stem Cells
- Unit 3: Stem Cells: Clinical Research & Rehabilitation
- Unit 4: Joint Injections
- Class 10 Quiz



## **11. Massage in Small Animal Practice**

- Unit 1: Benefits & Effects
- Unit 2: Massage Techniques
- Unit 3: General Considerations
- Class 11 Quiz

## **12. Targeted Pulsed Electromagnetic Field**

- Targeted PEMF (tPEMF)<sup>™</sup> Technology
- Case Study: Madison
- Case Study: Bob
- Case Study: Otis

## **Class 12 Quiz**

## **13. Range of Motion & Stretching**

- Unit 1: Range of Motion - Goals & Benefits
- Unit 2: Range of Motion - Examples
- Unit 3: Stretching - Goals & Benefits
- Unit 4: Stretching - Examples
- Class 1 Quiz

## **14. Exercises to Enhance Proprioception**

- Unit 1: The Science of Proprioception
- Unit 2: Proprioceptive Training
- Class 2 Quiz

## **15. Assessing Treatment Outcomes**

- Unit 1: Measuring Outcomes
- Unit 2: Static Weight & Gait
- Unit 3: Muscle Girth
- Unit 4: Joint Function & Goniometer
- Class 3 Quiz

## **16. Aquatic Exercises**

- Unit 1: Benefits & Guidelines
- Unit 2: Physical Properties of Water
- Unit 3: Equipment
- Unit 4: Getting the Dog in the Water
- Unit 5: Aquatic Kinematics
- Class 4 Quiz

## **17. Therapeutic Exercises**

- Unit 1: Goals & Benefits of Therapeutic Exercises
- Unit 2: Standing & Walking Exercises
- Unit 3: Treadmill Exercises
- Unit 4: Other Active Exercises
- Unit 5: Weights and Carts
- Class 5 Quiz

### **18. Joint Mobilizations & End-feels**

- Unit 1: Indications for Joint Mobilization
- Unit 2: Evaluation & End-feels
- Class 6 Quiz

### **19. Basic Science of Physical Therapy Anatomy & Biomechanics**

- Unit 1: Basics of Biomechanics
- Unit 2: Joint Motion
- Unit 3: Muscle Biomechanics
- Unit 4: Biomechanics of Exercise Modification
- Unit 4: Biomechanics of Exercise Modification
- Unit 5: Gait Biomechanics
- Unit 6: Kinematic Gait Evaluation
- Class 7 Quiz

### **20. Kinematics of Selected Therapeutic Exercises in Dogs**

- Unit 1: Ground vs. Treadmill Walking
- Unit 2: Stairs & Inclines
- Unit 3: Dancing & Wheelbarrowing
- Unit 4: Cavaletti Rails
- Unit 5: Sit to Stand and Jumping
- Class 8 Quiz

### **21. Exercise Physiology & Conditioning**

- Unit 1: Muscle Physiology
- Unit 2: Training & Conditioning
- Unit 3: Respiration
- Unit 4: Cardiovascular Changes
- Unit 5: Hematologic & Biochemical Changes
- Unit 6: Exercise & Nutrition/Diet/Aging/Temperature
- Class 9 Quiz

### **22. Prostheses & Bracing**

Clinical Use of Socket Prostheses in Companion Animals

- Unit 1: Introduction & Prerequisites

- Unit 2: Device Options & Features
- Unit 3: Types of Orthoses & Prostheses
- Unit 4: Fabrication
- Unit 5: Fitting
- Unit 6: Troubleshooting, Training, and Management
- Bracing Insights
- Class 10 Quiz

## **Reference Articles**

### **Test Canine II**

**Seminar Contact Hours:** 23.0

Course meets the requirements for hours of continuing education in jurisdictions which recognize AAVSB RACE approval; however, participants should be aware that some boards have limitations on the numbers of hours accepted in certain categories and/or restrictions on certain methods of delivery of continuing education

## **Aquatic Therapy**

### **Canine III and IV : Presence Days - Putting it All Together: Designing & Implementing a Rehabilitation Program**

#### **Day 1**

- Introduction
- Orthopedic examination
- Neurologic examination
- Gait analysis

#### **Day 2**

- Heat and cold therapy
- Laser therapy
- TENS/E-Stim
- Shockwave therapy
- Goniometric assessment
- Muscle girth assessment
- PROM
- Endfeels
- Outcome assessment

#### **Day 3**

- Active therapeutic exercises,

- Strengthening
- Stretching
- Massage
- Aquatic exercises
- Proprioceptive exercises
- Introduction and examination of patient incl. treatment plan
- Presentation of case and solution

#### **Day 4**

- Bring it all together - Interactive case work up in small groups

#### **Day 5**

- Presenting homework
- Discussion
- Next steps to become a CCRP

**Contact hours:** 40.0

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## **Canine V - OA Module I: Basic Science of Osteoarthritis**

### **Module Description:**

This module addresses the basics of osteoarthritis. In order to appreciate the pathophysiology of osteoarthritis we need to understand the importance of normal cartilage structure and function as well as looking at the joint as an organ. We are not going to treat just the articular cartilage; we are going to treat the entire joint. Having a thorough comprehension of the pathophysiology of osteoarthritis will help us understand the efficacy of the different treatments options.

### **Module IA: Normal Cartilage Structure & Function**

- 1A - Unit 1: Introduction
- 1A - Unit 2: Chondrocytes
- 1A - Unit 3: Extracellular Matrix
- 1A - Unit 4: Cartilage Loading and Recovery
- 1A: Quiz

### **Module IB: Pathophysiology of Osteoarthritis**

- 1B - Unit 1: What is Osteoarthritis?
- 1B - Unit 2: Breakdown of Articular Cartilage
- 1B - Unit 3: Progression of Osteoarthritis
- 1B - Unit 4: Proteoglycan & Cytokines

- 1B - Unit 5: Additional Pathogenesis Considerations
- 1B: Quiz

### **Module IC: Common Conditions Leading to OA**

- 1C - Unit 1: Acquired Conditions: Fractures
- 1C - Unit 2: Acquired Conditions: Joint Luxations
- 1C - Unit 3: Additional Acquired Conditions
- 1C - Unit 4: Developmental Conditions: OCD & Hip Dysplasia
- 1C - Unit 5: Developmental Conditions: Elbow Dysplasia
- 1C: Quiz

### **OA Module II: Assessment & Diagnosis of the Arthritic Patient**

#### **Module Description:**

Early identification of osteoarthritis is key to providing the best long-term care for patients in order to modify the progression of the disease. Unfortunately, the vast majority of patients are not properly identified until they have end-stage osteoarthritis. In this module, you will expand your knowledge on how to assess and diagnose arthritis. You will receive tips on how to take patient histories. You will also identify clues that indicate a patient is suffering from this disease, including how to perform a thorough gait evaluation. We will also discuss how to determine if a treatment is having a beneficial effect by identifying and measuring outcomes.

#### **Module IIA: History and Gait Evaluation of the Arthritic Patient**

- 2A - Unit 1: Early Identification - History
- 2A - Unit 2: Clinical Signs
- 2A - Unit 3: Gait Evaluation
- 2A - Unit 4: Kinematic Gait Analysis
- 2A - Unit 5: Which is the Lamé Limb?
- 2A: Quiz

#### **Module IIB: Physical Examination & Diagnostics of the Arthritic Patient**

- 2B - Unit 1: Orthopedic Evaluation
- 2B - Unit 2: Hip and Elbow Evaluation
- 2B - Unit 2: Hip and Elbow Evaluation
- 2B: Quiz

#### **Module IIC: Assessing OA**

- 2C - Unit 1: Measuring Outcomes
- 2C - Unit 2: Lameness Evaluation & Muscle Girth Measurements
- 2C - Unit 3: Joint Function & Pain Assessment
- 2C: Quiz

## **OA Module III: Medical Management of Osteoarthritis**

### **Module 3A: Nonsteroidal Anti-inflammatory Medications to Treat OA**

- 3A - Unit 1: Inflammatory Pathway
- 3A - Unit 2: Cyclooxygenase (COX1 & COX2)
- 3A - Unit 3: General Considerations in the Use of NSAIDs in OA
- 3A - Unit 4: Adverse Events of NSAIDs
- 3A - Unit 5: Changing NSAIDs and Other Considerations
- 3A - Unit 6: Deramaxx® (Deracoxib)
- 3A - Unit 7: Previcox® (Firocoxib), Rimadyl® / N...
- 3A - Unit 8: Metacam® (Meloxicam), Zubrin® (Tepoxalin)
- 3A - Unit 9: Aspirin
- 3A - Unit 10: Non-FDA Approved Drugs for Managing Osteoarthritis
- 3A - Unit 11: Comparison of Various NSAIDs for the Management of Stifle OA
- 3A - Unit 12: NSAIDs and GI Ulceration / Improving Safety
- 3A - Quiz

### **Module 3B: Disease Modifying OA Drugs**

- 3B - Unit 1: Polysulfated Glycosaminoglycans
- 3B - Unit 2: Hyaluronic Acid, Polyglycan, & Doxycycline
- 3B - Quiz

### **Module 3C: Other Medications Useful for Managing OA Pain**

- 3C - Unit 1: Opioids
- 3C - Unit 2: Opioid-Like Drugs and NMDA Receptor Antagonists
- 3C - Unit 3: Tricyclic Antidepressants and Steroids
- 3C - Quiz

## **OA Module IV: Nutritional Management of Osteoarthritis**

### **Module Description:**

This module covers the nutritional management of osteoarthritis, not only weight control in the obese patient, but the role of omega-3 fatty acids and the evidence surrounding them. We will also discuss other nutritional supplements and their efficacy.

### **Module IVA: Nutritional Management of OA**

- 4A - Unit 1: Obesity
- 4A - Unit 2: What is Obesity?
- 4A - Unit 3: Weight Control
- 4A - Unit 4: Diet Strategies for Dogs
- 4A: Quiz

### **Module IVB: Nutraceuticals in the Management of OA**

- 4B - Unit 1: Introduction to Polyunsaturated Fatty...
- 4B - Unit 2: Omega-3 Fatty Acids
- 4B - Unit 3: Glucosamine & Chondroitin Sulfate - Part 1
- 4B - Unit 4: Glucosamine & Chondroitin Sulfate - Part 2
- 4B - Unit 5: Avocado Soybean Unsaponifiables & MSM
- 4B - Unit 6: SAmE & Hyperimmune Milk
- 4B: Quiz

## **OA Module V: Exercise and Manual Therapy of Patients with OA**

### **Module Description:**

This module will focus on how to use exercises and manual therapy to treat osteoarthritis. Manual therapy techniques are used to improve tissue extensibility and range of motion, promote relaxation, modulate pain, and reduce inflammation.

### **Module VA: Range of Motion, Stretching, Massage, Joint Mobilization**

- 5A - Unit 1: Introduction to Range of Motion and S...
- 5A - Unit 2: Range of Motion
- 5A - Unit 3: Stretching
- 5A - Unit 4: Massage
- 5A - Unit 5: Joint Mobilization
- 5A: Quiz

### **Module VB: Proprioceptive Exercises**

- 5B - Unit 1: Introduction to Proprioception
- 5B - Unit 2: Proprioception Exercises
- 5B: Quiz

### **Module VC: Aquatic Exercises**

- 5C - Unit 1: Introduction
- 5C - Unit 2: Equipment
- 5C - Unit 3: Aquatic Kinematics
- 5C: Quiz

## **OA Module VI: Physical Modalities to Treat Osteoarthritis**

### **Module Description:**

As far as physical agents go, there are many tools at our disposal to treat the osteoarthritis, including: cryotherapy, low level lasers, extracorporeal shockwave treatment, transcutaneous electrical nerve stimulation, therapeutic ultrasound, pulsed electromagnetic fields, and static medical magnets. In this module we will discuss the use and efficacy of each one so you can determine how best to treat your patients.

### **Module VI A: Cryotherapy**

- 6A - Unit 1: Cryotherapy Part 1

- 6A - Unit 2: Cryotherapy Part 2
- 6A - Unit 3: Superficial Heat in Osteoarthritis
- 6A - Demonstration: Cryotherapy
- 6A: Quiz

### **Module VI B: Low Level Laser Therapy for OA**

- 6B - Unit 1: Principles
- 6B - Unit 2: Research
- 6B - Unit 3: Types of Lasers
- 6B - Unit 4: Effects of Low Level Laser Therapy on Arthritic Tissue
- 6B - Unit 5: Dosage & Application
- 6B - Demonstration: Low Level Laser Therapy
- 6B: Quiz

### **Module VI C: Extracorporeal Shockwave Therapy**

- 6C - Unit 1: Introduction
- 6C - Unit 2: Research
- 6C - Unit 3: Effect of ESWT on Elbow OA
- 6C - Demonstration: Extracorporeal Shockwave Therapy
- 6C: Quiz

### **Module VI D: Transcutaneous Electrical Nerve Stimulation (TENS)**

- 6D - Unit 1: Introduction
- 6D - Unit 2: Evidence for TENS
- 6D - Demonstration: TENS
- 6D: Quiz

### **Module VI E: Therapeutic Ultrasound**

- 6E - Unit 1: Therapeutic Ultrasound
- 6E - Demonstration: Therapeutic Ultrasound
- 6E: Quiz

### **Module VI F: Pulsed Electromagnetic Fields & Static Magnets**

- 6F - Unit 1: Pulsed Electromagnetic Fields
- 6F - Unit 2: Static Magnets
- 6F: Quiz

### **Demonstrations**

- Demonstration: Treadmill
- Demonstration: Cryotherapy
- Demonstration: Low Level Laser



- Demonstration: Shockwave Therapy
- Demonstration: TENS
- Demonstration: Therapeutic Ultrasound

## **OA Module VII: Other Treatments for Osteoarthritis**

### **Module Description:**

In the final module of the course, we will be discussing additional treatments for osteoarthritis that may not fit in the categories already discussed. We will cover surgical treatments, other medical treatments, stem-cell therapy, and acupuncture. We will also look ahead at potential treatments that may prove to be effective in the future.

### **Module VIIA: Surgical Treatments for OA**

- Unit 1: Elbow Surgery - Part 1
- Unit 2: Elbow Surgery - Part 2
- Unit 3: Shoulder & Carpal Surgery
- Unit 4: Hip Surgery
- Unit 5: Stifle Surgery
- Unit 6: Tarsus & Digit Surgery
- 7A: Quiz

### **Module VII B: Additional Treatments for OA**

- Unit 1: IRAP / Prolotherapy / Bisphosphonates
- Unit 2: Botulinum Toxin
- Unit 3: Herbal Treatments for OA - Part 1
- Unit 4: Herbal Treatments for OA - Part 2
- Unit 5: Stem Cell Therapy
- Unit 6: Role of the Environment
- 7B - Quiz

### **Module VII C: Acupuncture**

- Unit 1: Acupuncture - What is the Point?
- Unit 2: Neurophysiology of Acupuncture
- Unit 3: Pain Relief
- Unit 4: Shu Points
- Unit 5: Mu Points
- Unit 6: Bladder Meridian
- Unit 7: Additional Meridians
- Unit 8: Acupuncture Application
- Unit 9: Summary
- Case Study: Jake
- 7C - Quiz

### **Module VII D: Future Treatments**

- Future Treatments for Osteoarthritis
- 7D - Quiz

**Contact Hours:** 20h

## Canine VI - is a two-part course consisting of

- **40 hours of observation (externship)**
- **and five required case studies.**

The guidelines for this course are given to each individual. Canine I through IV must be completed prior to beginning this course. Observation hours completed prior to registration or without site approval may not be used to fulfill course requirements. Case studies begun before the pre-requisite is met may not be used to fulfill course requirements.

Case Studies must be submitted for the following areas:

- Orthopedic - two cases
- Neurological - two cases
- Additional case of the participant's choosing - one case

Case study format will be provided and has to be used.

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## Canine VII - Final Exam

### Exam

- Part 1: successful evaluation of the 5 cases (“pass”)
- Part 2: 150 MC questions
- Part 3: practical part, if in doubt presentation of 1 own case can be requested

### Prerequisites:

All previous steps (Canine I-VI) need to be completed prior to applying for the exam. You need to apply for your individual time slots whenever you are ready for it. This is not affected by the fact, that you have bought the exams with this bundle.

The 5 cases need to arrive ideally 8 weeks prior to your preferred date for the written exams .. They are part of the exams . Evaluation of the cases will result in either “passed” = allowance to take the next steps of the exams, or "failed": new cases need to be submitted first.

The case study format is provided during the CCRP course, is made available on your VAHL LMS platform to be downloaded together with a sample case for your convenience.

**Duration:** written part: 3.5 hours, practical part: 30 -45 min.

**Language:** English

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### **Prerequisites - Module III - ONLINE EXAM:**

We recommend to book transfer and accommodation after having received the positive response "passed". Please also make sure to have a travel (cancellation) insurance.