



Internationally accredited program to become a **CERTIFIED CANINE REHABILITATION PRACTITIONER - CCRP -**

Original course of the University of Tennessee/USA

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Dr. Beate Egner



Prof. Darryl Millis

WELCOME TO THE EUROPEAN CCRP COURSES

For many years, physiotherapy, rehabilitation and sports medicine have been established in the veterinary field and are increasingly important in orthopedic and neurologic cases but also in the training of sports- and working dogs. Additionally dogs with specific problems, like obesity, endocrine and even more heart disease need to be treated adequately. This requests a thoroughly understanding of the underlying condition, a highly educated specialist to evaluate the patient, to set up the treatment plan and finally to treat the patient successfully.

For over 8 years we are successfully teaching the original University of Tennessee course to become a Certified Canine Rehabilitation Practitioner (CCRP) to highly motivated veterinarians, physiotherapists and veterinary nurses. To secure the highest level of professional training we collaborate with the original faculty of the UT courses in the USA and the key opinion leaders and research leaders in physiotherapy and rehabilitation in Europe. All faculty members are CCRP holders and secure the same level and understanding of thorough training in this fast emerging field.

What is important when working in veterinary physiotherapy and sports medicine?

Improve the patients situation adequately and to a maximum, without causing any harm to our animals.

This can only be secured, if the therapist completely understands anatomy, physiology, pathophysiology and the modalities. **Thorough understanding of the entire situation is our key interest, while teaching. We train attendees to understand the principles of each treatment and enable them to set up individual treatment plans instead of using preset recepies.**

CCRP holders are recommended world wide through our webpages and we are frequently asked by clinics for such recommendations. We support you continuously in your daily work with ongoing continuing education, online case discussions and a forum to exchange experience. Our faculty remains on your side to support in challenging cases and thus guarantee the best outcome you can expect from such an education.

We are an institution of professional higher learning where you, your learning, and your needs are the focus. It would be my pleasure to welcome you in one of the next courses personally.

With best regards, Beate

A WARM WELCOME FROM THE USA

The University of Tennessee Certificate Program in Canine Physical Rehabilitation was introduced in 1999 in the United States, and since has spread around the world. Today, we have more graduates world-wide than any other program.

We are proud of our Certified Canine Rehabilitation Practitioners, who are leaders in the field of small animal rehabilitation.

Our goal is to educate professionals who share a common interest in helping animals recover from illness and/or injury, and to help animals to live life to the fullest with minimal pain and discomfort. **Our mission is to promote the art and science of canine physical rehabilitation.**

The University of Tennessee and our partner, Beate Egner / Schloss-Seminar, have worked diligently to construct a program that meets the needs of the **veterinarian, veterinary nurse and physical therapist.**

Our instructors are the leaders in veterinary rehabilitation and have written the most important books and scientific literature regarding rehabilitation.

Most of our instructors teach at prestigious universities, and many are board certified by the American

College of Veterinary Surgeons, the American College of Veterinary Sports Medicine and Rehabilitation, or the American Board of Physical Therapy Specialities.

Wouldn't you rather learn information directly from these instructors?

We have a commitment to presenting a comprehensive curriculum that provides a solid foundation upon which to treat routine and complicated clinical cases, and to build and improve clinical practice in veterinary rehabilitation. Our approach is to teach the information and principles to face any rehabilitation situation, rather than simply provide protocols for the "average case".

Our graduates strengthen the growth of this young field by sharing their new knowledge of canine physical rehabilitation with other veterinarians, colleagues, and animal owners. They are leaders in veterinary rehabilitation.

Yes, the Certificate Program in Canine Rehabilitation is demanding and requires much thought and study. But don't you and your patients deserve the best?

See you soon! Darryl

GOAL

Our goal is to educate professionals who share a common interest in helping animals recover from illness and/or injury, and to help animals to live life to the fullest with minimal pain and discomfort.

SPECIAL FEATURES OF THIS COURSE

- Instructors are the leaders in veterinary rehabilitation and have written the most important books and scientific literature regarding rehabilitation and physical medicine.
- Effective knowledge transfer in a compact seminar instead of a two-year program
- Extensive hands-on training
- Small group sizes for effective learning
- Evidence-based medicine approach

EDUCATION TO BECOME A CCRP

Who can attend?

Veterinarians, Physiotherapists, Veterinary Nurses/ Technicians

How to become a CCRP

- Step 1:** Complete Level 1 and Level 2 CCRP courses. Alternatively you may want to decide on the Fast-Track version.
- Step 2:** Complete your practical training with a 40 hours externship and send in the confirmation letter/log 6 (www.u-tenn.com)
- Step 3:** Complete your 5 cases documentation: 2 orthopedic, 2 neurologic, 1 case of your choice (orthopedic, neurologic, cat etc.)
- Step 4:** Take your exams:
- a) presentation of one of your cases
 - b) practical exams on animal
 - c) written exams (150 MC questions)

PROGRAM DESCRIPTION

The courses are designed to guide the practitioner through the theoretical foundations to the clinical applications of canine rehabilitation.

Level 1 = Part I – III, **Level 2** = Part IV + V
Both levels are required to allow a candidate to take the exams and earn the title CCRP

► Part I

This course is taught as an e-learning module with 12 hours lectures and another 10 - 12 hours preparation time.

Why physical rehabilitation: In this part the participants will get an overview about the reasons and the advantages of physical therapy. The scientific basis and the evidence-based proof of the values of Physical Rehabilitation will be explained.

Osteology and Arthrology, Myology, Neuroanatomy:

A sound knowledge about the structure and function of the musculoskeletal system is necessary for success in the field of rehabilitation. Therefore the necessary knowledge of anatomical structures important for Physical Rehabilitation will be presented.

Common neurologic conditions, common hind limb orthopedic conditions, common forelimb orthopedic conditions:

In this module the most important disorders seen in rehabilitation will be explained. For each disease the etiology, diagnosis and the conservative or surgical treatments will be addressed.

Canine behavior: The development of a successful rehabilitation plan not only depends on the underlying disease but also on the dog's behavior. In this module the students will become familiar with all types of canine behavior important for physical rehabilitation.

Canine examination, orthopedic examination, neurologic examination: Before a rehabilitation program is started a diagnosis of the underlying diseases and conditions must be made. Therefore the students will be introduced to common orthopedic and neurological examination techniques.

Introduction / e-learning

- Why physical rehabilitation
- Osteology and Arthrology
- Myology
- Neuroanatomy
- Common neurologic conditions
- Common hind limb orthopedic conditions
- Common forelimb orthopedic conditions
- Canine behavior
- Canine examination
- Orthopedic examination
- Neurologic examination
- Team approach – getting started

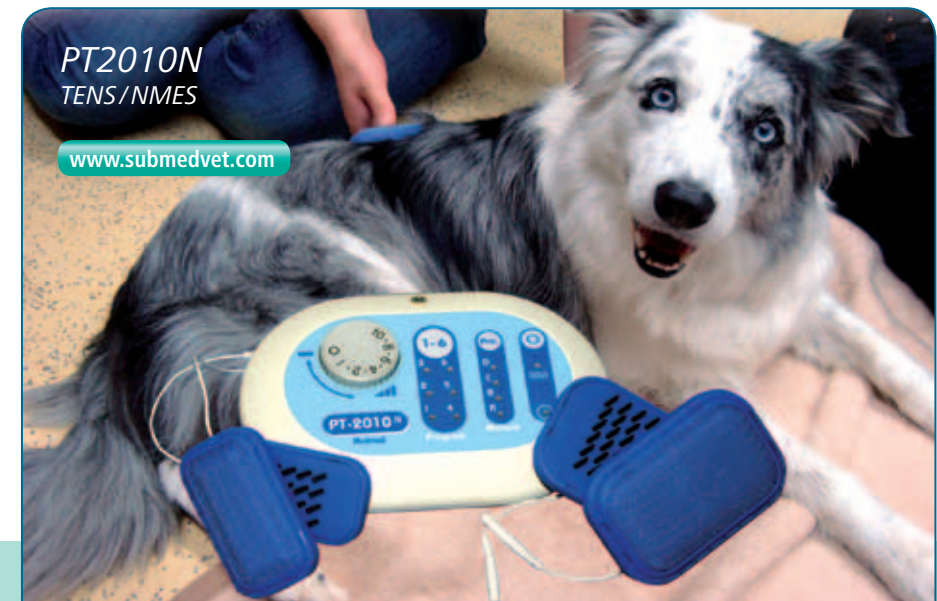
► Part II

This course is taught in presence days with a clear focus on practical elements and supported by e-learning modules.

In this part the most important physical rehabilitation modalities will be explained. For each modality the physiological and pathophysiological basic knowledge will be taught. Topics will be thermotherapy (cold, heat, superficial, deep, therapeutic ultrasound), electrical stimulation, laser, and extracorporeal shockwave treatment. The theory and evidence-based use of each modality will be presented in lecture, and the modalities will be used by participants in labs.

Physical Agents and Electrotherapeutic Modalities

- Acute and chronic inflammation
- Response of tissues to disuse and remobilization
- Regulatory issues
- Biophysical properties of heat
- Biophysical properties of cold
- Superficial heating agents
- Cryotherapy
- Deep heating agents (plus Lab)
- Electrical stimulation / TENS, NMES (plus Lab)
- Laser treatment (plus Lab)
- Other emerging modalities (shockwave, etc.)



► Part III

Presence days with a strong emphasis on labs.

Therapeutic exercises and aquatic therapy are highly important in rehabilitation. To perform patient oriented and adequately designed exercise programs, the rehabilitation specialist needs a deep understanding of dog biomechanics, exercise physiology and conditioning. Students will be introduced to methods of biomechanical research including kinetics and kinematics. An overview of the biomechanics of sound and diseased dogs and the biomechanics during therapeutic exercises will be given. Important considerations in exercises physiology will also be discussed. Using this basic knowledge, students will be instructed in the different exercises and aquatic regimes in lecture and lab.

Therapeutic exercise prescription and aquatic therapy

- Anatomy and biomechanics
- Range of motion and stretching (plus Lab)
- Massage (plus Lab)
- Joint mobilization, end-feels, goniometry, and limb circumference (plus Lab)
- Therapeutic exercises (plus Lab)
- Exercises to enhance proprioception (plus Lab)
- Aquatic exercises (plus Lab)
- Exercise physiology and conditioning
- Assessing treatment outcomes
- Kinematics of therapeutic exercises



► Part IV

Presence days

In this course, the knowledge from parts 1 to 3 will be put together. The students will design and implement comprehensive rehabilitation programs for frequently seen conditions, based on actual cases. The rehabilitation program will be discussed regarding time frames and duration of treatments, the methods of referral and communication with the referring vet and the owner, and documentation.

Design and implement a comprehensive rehabilitation program for commonly seen orthopedic conditions in the dog (interactive, in small groups)

- Design and implement a comprehensive rehabilitation program for commonly seen Neurologic conditions in the dog
- Correlate the rehabilitation program with the physiologic processes that the patient is undergoing during its rehabilitation
- Discuss reasonable time frames for treatment including when to begin treatment, frequency of treatment, and duration of treatment
- Discuss the need for and the methods of referral and communication between the referring veterinarian and the rehabilitation provider
- Document the rehabilitation programs using standardized forms



► Part V

Presence days

In this part the focus is on osteoarthritis and neurological diseases, very common conditions presented to the rehabilitation specialist. The pathophysiology and ethology of OA and neurological conditions will be explained, and the diagnosis and outcome measurements will be addressed. Common treatment modalities, including surgical and conservative treatments will be presented. The importance of pain medication and anti-inflammatory treatment with a special focus on NSAIDs will be discussed. This part concludes with an explanation of the therapeutic exercises, aquatic therapy and physical modalities used for treatment of these conditions, followed by design of treatment plans.

Osteoarthritis and Neurology

- Structure and function of articular cartilage
- How osteoarthritis occurs
- Clinical evaluation of patients with osteoarthritis
- Common clinical conditions leading to arthritis
- Outcome assessment of patients with osteoarthritis
- Surgical treatments
- Role and use of NSAIDs, including COX-2 inhibitors and steroids
- Slow-acting disease-modifying osteoarthritis agents
- Nutritional treatments
- Therapeutic exercises, aquatic therapy and physical modalities
- Alternative and complementary treatments
- Putting it together – designing a treatment plan for the patient with osteoarthritis
- Common clinical conditions of neurologic disease
- Therapeutic exercises, aquatic therapy and physical modalities
- Alternative and complementary treatments
- Putting it together – designing a treatment plan for the patient with neurologic disease



CONTINUING EDUCATION

NEURO-REHABILITATION – CHALLENGING BUT REWARDING

Diagnosis of any neurological problems can be a long drawn out process. Once this has been achieved and any surgical intervention done then the next challenge is to return that individual to an active and independent life. This can place considerable demands on the rehabilitation specialist but often proves to be a very rewarding task.

This is a course you must not miss!

- an indepth introduction into neuro-rehab
- with extensive hand on sessions
- latest modalities available
- developing client specific programs
- setting up home exercise recommendations
- small working groups

COURSE DESCRIPTION

The Neurological Course offers you the opportunity to learn more from experts with a wealth of experience in this field. You will work through examination of the paretic and paralysed patient, briefly touch on conventional management both from a surgical and conservative perspective. The importance of appropriate neurological rehabilitation is long established in the human field. Thus the course will also draw on the experience of human neurorehabilitation specialists and how we can use their experience to enhance our treatment protocols in the field of animal neurorehabilitation. With these insights we will then look at the principles that underlie neurorehabilitation from a veterinary perspective and which rehabilitation techniques can be employed to enhance progress. Equally importantly the course will examine why certain rehabilitation techniques are inappropriate and can inhibit progress. It will have a strong practical component and delegates will have the opportunity to work with rehabilitation equipment in a clinical setting with highly experienced tutors.

MAIN SPEAKERS

Lowri Davies
Dr. Laurent S. Garosi
Josie Buckman

E-LEARNING COURSES

Osteoarthritis Case Manager Certificate course *20 hours*

The purpose of the University of Tennessee Arthritis Case Manager Course is to improve the care and quality of life of dogs with osteoarthritis by having a designated case manager to help guide treatment and communicate with the owner. This course will help you and your staff to recognize OA early and to effectively provide pre-emptive care and treatment for dogs in all stages of OA. The course will cover the entire spectrum of OA Case Management from maximizing the effectiveness of business practices, correct utilization of the veterinary technician in case management applications, and exploration and application of the most common treatment modalities using the multimodal approach.

Companion Animal Pain Management course *28 hours*

This course is designed to help veterinarians and vet techs identify the pathologies that will benefit from effective pain management practices. It provides an in-depth discussion of the neurobiology of acute and chronic pain.

This program embraces the multimodal treatment of pain management and provides an evidence-based approach to treatment options. It focuses on the neurobiology of pain mechanisms so as to understand the basis for mechanism-based treatments, with a special focus on NSAIDs. Further, this course embraces the team approach to pain management, recognizing the valuable roles of the veterinarian, veterinary technician, and owner in managing each case. In particular, veterinary technicians play a major role in managing these patients for their lifetime, and interact with veterinarians and owners to be

certain that patients are receiving optimal treatment and that owners are informed and educated about the treatment options for their pets and receive appropriate follow-up care.

CCRP Examination Review course

2:28 hours

This review class is intended to assist veterinarians, veterinary technicians, and physical therapists prepare for the Certified Canine Rehabilitation Practitioner (CCRP) examination. Important topics on the exam are highlighted and special attention paid to proper techniques for assessments and therapeutic modalities

Massage course

1:20 hours

Although many of the theories and benefits are the same, canine massage therapy is very different than human massage therapy. This class will identify these unique challenges and outline how to adapt massage therapy techniques to these patients. In addition, demonstrations of assessment and massage techniques are performed on a variety of canine patients.

Class Objectives:

- Summarize how to use the food drive as a reward for movement and basic luring. Assess patients' active movements and functional tasks
- Describe active assisted stretching exercises and post-isometric muscle release (PIMR) techniques
- Identify benefits, indications, and contraindications of massage therapy treatment

RECOMMENDED READING



Bockstahler, Millis, Levine:
**Essential Facts
of Physiotherapy
in Dogs and Cats**
BE VetVerlag
ISBN 3-938274-09-3
(Deutsch: 3-938274-08-5)
www.be-vetverlag.com

FACULTY



Darryl Millis

DVM, MS, Diplomate ACVS, CCRP, Diplomate ACVSMR. Professor of Orthopedic Surgery at the University of Tennessee, Director of the CARES Center for Veterinary Sports Medicine, adjunct clinical Professor at the University of Tennessee-Chattanooga, research in animal rehabilitation, osteoarthritis, and bone healing.



Barbara Bockstahler

DVM, FTA, CCRP, Priv. Doz. Dr. habil., head of the Rehabilitation and Physical Therapy Department at the University of Vienna. Her major interest is gait analysis in dogs, underwater therapy, as well as research on transcutaneous electric nerve stimulation (TENS).



David Levine

PhD, PT, Diplomate ABPTS, CCRP adjunct associate Professor at the University of Tennessee, USA. Adjunct professor at North Carolina State University College of Veterinary Medicine. Board certified as a specialist in orthopedics by the American Board of Physical Therapy Specialties.





Denis Marcelin-Little

Prof. Surgery Univ. Raleigh/NC USA, Dipl. ACVS, Dipl. ECVS, CCRP. Denis has a special interest in biomodeling and biofabrication of artificial joints.



Renata Diniz

DVM, MSc, CCRP, Private practice specialized in small animal physical rehabilitation -Mallorca, Spain, Vice president of AIFISVET (ibero american society of veterinary physiotherapy)



Karine Le Bleis

Certified in Accupuncture (l'Académie Vétérinaire d'Acupuncture et Ostéopathie) and Physiotherapy, head of the Department of Physiotherapy and sports medicine at Fregis/Paris-Arcueil (2010 to date)



Marion Mueller

CVA, CCRP, Department of Physiotherapy and Rehabilitation Medicine, Vetschool Vienna (VUW) Austria, Member of the Movement Science Group



Dr. Laurent S. Garosi

DVM, Dip ECVN, MRCVS RCVS & European Specialist in Veterinary Neurology, President European College of Veterinary Neurology



Ludovica Dragone

Dr. ssa, Md Vet, CCRP, Vice President of VEPR, President of the department of Physiotherapy at SCIVAC, Head of the clinic on rehabilitation and sports medicine: Dogfitness.it in Reggio Emilia/Italy



Lowri Davies

BVSc MRCVS Cert Vet Acup (IVAS), CCRP, Director of the SMART (Sports Medicine and Rehabilitation Therapy) Veterinary Clinics. President of the British Veterinary Rehabilitation and Sports Medicine Society

Beatrice Lijour

PhD, CCRP Cand. Associate professor in surgery, since 2010 development of physiotherapy in canine hospital of the veterinary school of Nantes Ecole Nationale Vétérinaire de Nantes (ONIRIS-NANTES) /France

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