

CVMA

Colorado Veterinary
Medical Association

CE Southwest | October 12-13, 2019
Doubletree by Hilton
Durango, CO

AGENDA

Saturday, October 12

- 9-10 a.m. **Registration and continental breakfast**
- 10-11 a.m. Forelimb Lameness in the Dog
Patrice M. Mich, MS, DVM, DABVP, DACVAA, DACVSMR
- 11 a.m.-noon Lessons From a Physical Therapist Part 1:
Canine Spinal Discomfort, Is Your Differential List Too Short?
Patrice M. Mich, MS, DVM, DABVP, DACVAA, DACVSMR
- Noon-1 p.m. **Lunch**
- 1-2 p.m. Regenerative Medicine 101: The Essential Basics
Tracy Webb, DVM, PhD
- 2-3 p.m. Lessons From a Physical Therapist Part 2: The Ubiquitous
Iliopsoas Strain
Patrice M. Mich, MS, DVM, DABVP, DACVAA, DACVSMR
- 3-3:15 p.m. **Break**
- 3:15-4:15 p.m. Non-medication Pain and Mobility Management Modalities
Patrice M. Mich, MS, DVM, DABVP, DACVAA, DACVSMR
- 4:15-5:15 p.m. Regenerative Medicine and Orthopedic Disease
Tracy Webb, DVM, PhD
- 5:15-6:15 p.m. **Welcome Reception (*immediately following lecture*)**
Advocacy Update from CVMA CEO and Board President
- 6:30 p.m. **Beer Pairing Dinner (*advance registration required*)**

Sunday, October 13

7-8 a.m.	Breakfast
8-9 a.m.	Chronic Pain Management and Mobility Therapy for the Senior and Geriatric Dog Part 1 Patrice M. Mich, MS, DVM, DABVP, DACVAA, DACVSMR
9-10 a.m.	Chronic Pain Management and Mobility Therapy for the Senior and Geriatric Dog Part 2 Patrice M. Mich, MS, DVM, DABVP, DACVAA, DACVSMR
10-10:15 a.m.	Break
10:15-11:15 a.m.	Regenerative Medicine and the Gastrointestinal Tract Tracy Webb, DVM, PhD
11:15 a.m.-noon	Regenerative Medicine and the 2 I's: Infection and Inflammation Tracy Webb, DVM, PhD
12:15-1 p.m.	Lunch
1-2 p.m.	Regenerative Medicine: Additional Applications Tracy Webb, DVM, PhD
2-3 p.m.	The Future of Regenerative Medicine: "To Infinity and Beyond?" Tracy Webb, DVM, PhD

SESSION DESCRIPTIONS

Saturday, October 12

10-11 a.m.

Forelimb Lameness in the Dog

Patrice M. Mich, MS, DVM, DABVP, DACVAA, DACVSMR

This lecture will review the challenges of forelimb lameness assessment, present the common and commonly missed differential diagnoses, and provide an algorithm for working up these patients.

Learning objectives:

- Complete a differential diagnosis list for forelimb lameness in the dog
- Develop a methodical approach to lameness evaluation including video assessment and manual examination
- Create a diagnostic algorithm
- Apply these principles to an example case

11 a.m.-noon

Lessons From a Physical Therapist Part 1: Canine Spinal Discomfort, Is Your Differential List Too Short?

Patrice M. Mich, MS, DVM, DABVP, DACVAA, DACVSMR

Using information garnered from learning from and teaching with physical therapists this lecture reviews spinal anatomy from the cervical through sacral vertebrae with a specific focus on function. Techniques for evaluating the spine are covered as well as a discussion of differential diagnoses for spinal region discomfort expanded beyond IVDD.

Learning objectives:

- Gain a greater understanding of the functional anatomy of the spine
- Learn a more thorough method of assessing the spine
- Develop an expanded differential diagnosis list for spinal discomfort

1-2 p.m.

Regenerative Medicine 101: The Essential Basics

Tracy L. Webb, DVM, PhD

This lecture will summarize the essential terms and descriptions used in regenerative medicine. The lecture will also summarize how regenerative therapies are created and the current regulatory status of regenerative therapies in veterinary medicine.

Learning objectives:

- Understand the terms used in regenerative medicine
- Gain a basic understanding of how the different regenerative therapies are created
- Learn the regulatory aspects of using regenerative therapies in your veterinary practice
- Know the important questions you should ask before using regenerative therapies

2-3 p.m.

Lessons From a Physical Therapist Part 2: The Ubiquitous Iliopsoas Strain

Patrice M. Mich, MS, DVM, DABVP, DACVAA, DACVSMR

Using information garnered from learning from and teaching with physical therapists this lecture will review the functional anatomy of the canine iliopsoas muscle and tendon as well as the pathobiology of muscle strain and myotendinous sprain. We will cover why iliopsoas injury has become such a common diagnosis and whether this is appropriate and accurate. Incorrect diagnosis of this injury can lead to poor response to therapy and failure to diagnose underlying common issues.

Learning objectives:

- Understand the anatomy and function of the iliopsoas muscle/tendon and thus the ways in which injury to these structures can occur
- Understand different forms of muscle contraction and how this relates injury
- Understand the difference between injury and adaptive shortening
- Learn assessment techniques for iliopsoas muscle/tendon

3:15-4:15 p.m.

Non-medication Pain and Mobility Management Modalities

Patrice M. Mich, MS, DVM, DABVP, DACVAA, DACVSMR

As veterinarians we are familiar with medications and surgery for the management of acute and chronic pain. In an era of increased scrutiny and limited supply of opioid medications for pain, exploring non medication therapies is appropriate. Further, for those patients who cannot tolerate common medications such as NSAIDs, or for whom medications are ineffective or insufficiently effective non-medication strategies can provide relief. In this lecture the science and evidence for therapies such as LASER, Acupuncture, PEMF (pulsed electromagnetic field therapy), ECSWT (extra corporeal shockwave therapy), TENS (transcutaneous electrical stimulation), manual therapy, and massage will be discussed.

Learning objectives:

- Learn the mechanism of action of LASER, acupuncture, PEMF, ECSWT as it relates to pain management
- Gain a basic understanding of the evidence for these modalities in general and specifically for veterinary species
- Understand why these modalities are being applied in veterinary medicine

4:15- 5:15 p.m.

Regenerative Medicine and Orthopedic Disease

Tracy L. Webb, DVM, PhD

A significant amount of research and clinical study has been done evaluating the use of regenerative therapies for orthopedic diseases. This talk will summarize the current information available for application of regenerative therapies to small animal patients with orthopedic disease.

Learning objectives:

- Understand why regenerative therapies are applied to orthopedic disease
- Gain a basic understanding of the current literature on use of regenerative therapies in orthopedic disease in small animals
- Understand the status of regenerative therapies in veterinary clinical practice

Sunday, October 13

8-10 a.m.

**Chronic Pain Management and Mobility Therapy for the Senior and Geriatric Dog:
Part 1 and Part 2**

Patrice M. Mich, MS, DVM, DABVP, DACVAA, DACVSMR

In this 2 part lecture we will focus on management strategies specific to senior and geriatric dogs whose pathology most frequently relates to osteoarthritis, degenerative spinal disease and the myofascial restrictions and deficiencies arising from altered mobility and pain. The latter becomes a primary pain syndrome limiting functional independence and must be addressed in a comprehensive treatment plan. Strategies will include medications, supplements, therapeutic exercise, and nutrition. Additional non-medication modalities are covered in the previous talk. Given time constraints and the magnitude of the topic these lectures will focus on practical take home gems and will finish with a clinical case example.

10:15-11:15 a.m.

Regenerative Medicine and the Gastrointestinal Tract

Tracy Webb, DVM, PhD

Application of regenerative therapies, specifically mesenchymal stem cells, to gastrointestinal diseases such as inflammatory bowel disease and gingivostomatitis has been a promising area of research. This lecture will review the available information for application of MSCs to gastrointestinal disease throughout the gastrointestinal tract.

Learning objectives:

- Understand why regenerative therapies are being applied to gastrointestinal diseases
- Gain a basic understanding of the current literature on use of regenerative therapies in gastrointestinal disease in small animals
- Understand the current status of regenerative therapies in veterinary clinical practice in this area

11:15 a.m.-12:15 p.m.

Regenerative Medicine and the 2 I's: Infection and Inflammation

Tracy L. Webb, DVM, PhD

Regenerative therapies, such as mesenchymal stem cells, have many properties that make them intriguing as new therapeutic modalities for problematic diseases. The ability of the cells to interact with the immune response is of particular interest in diseases associated with inflammation. This talk will summarize the known mechanisms and current information on application of MSCs to inflammatory diseases and infection.

Learning objectives:

- Understand why regenerative therapies are being applied to inflammatory diseases
- Gain a basic understanding of the current literature on use of regenerative therapies in inflammatory disease in small animals
- Understand the current status of regenerative therapies in veterinary clinical practice in this area

1-2 p.m.

Regenerative Medicine: Additional Applications

Tracy L. Webb, DVM, PhD

Regenerative therapies are being evaluated in a multitude of clinical areas in addition to those already discussed. This talk will summarize some of the work being done in areas such as nervous disease, acute and chronic organ injury, and organ regeneration.

Learning objectives:

- Gain a basic knowledge of the reason regenerative therapies may help in a variety of disease states and clinical conditions
- Gain a basic understanding of the current evidence available for application of regenerative therapies to these diseases and conditions
- Understand the current status of regenerative therapies in veterinary clinical practice in these areas

2-3 p.m.

The Future of Regenerative Medicine: “To Infinity and Beyond?”

Tracy L. Webb, DVM, PhD

Regenerative therapies hold much promise for application to a variety of problematic disease processes, although much of this promise has yet to be realized. This talk will discuss how current researchers are working to better understand and optimize regenerative therapies to best harness their potential in clinical practice.

Learning objectives:

- Gain a basic understanding of the ways researchers are working to optimize regenerative therapies
- Get excited about the future of regenerative medicine!

ABOUT THE PRESENTERS

Patrice M. Mich
MS, DVM, DABVP, DACVAA, DACVSMR

Dr. Patrice Mich is a small animal pain management and mobility specialist. A CSU graduate, her career is focused on regaining and maintaining functional independence and performance for canine athletes of all ages and abilities. During her 14 years as a generalist, she completed advanced training in veterinary acupuncture and achieved diplomate status in the American Board of Veterinary Practitioners (ABVP). Dr. Mich left private practice to pursue her interest in pain management, completing a residency in anesthesiology and a 2-year fellowship in integrative pain medicine post residency. In 2008, she received a master's degree in clinical science with a focus on clinical assessment, neurophysiology and management



of acute and chronic pain. She is a diplomate of the American College of Veterinary Anesthesia and Analgesia (ACVAA) and the American College of Veterinary Sports Medicine and Rehabilitation (ACVSMR); she is also certified as a Canine Rehabilitation Therapist (CCRT). Dr. Mich's interests include sporting injuries in the canine athlete, impact of limb dysfunction or loss on biomechanics, mobility, and long-term comfort; the use of veterinary orthotics and prosthetics as pain management tools; clinical assessment and treatment of chronic pain; and non-surgical approaches to Achilles mechanism injuries. She co-leads the sports medicine and rehabilitation service at Wheat Ridge Veterinary Specialists in Colorado. She is a contributing author to the textbooks *Canine Sports Medicine and Rehabilitation, 1st and 2nd Editions* (Wiley, 2013 and 2018) and *Pain Management in Veterinary Practice* (Wiley, 2014) as well as the author of numerous articles. Dr. Mich enjoys teaching and is a faculty member of the Canine Rehabilitation Institute and an affiliate faculty member at CSU.

Tracy L. Webb
DVM, PhD

Dr. Tracy Webb received her DVM degree from the Ohio State University and then completed a small animal medicine and surgery internship followed by an emergency and critical care residency at Angell Animal Medical Center. Dr. Webb then moved to Colorado where she received a PhD in Immunology/Pathology and remained at CSU in a Research Scientist role as well as performing clinical work. With over 10 years of research effort in regenerative medicine, Dr. Webb has performed many in-vitro studies as well as clinical trials looking at a variety of disease processes in several animal species. Dr. Webb is on the Board of Directors of the North American Veterinary Regenerative Medicine Association, a member of the COHA Communication and Collaboration subcommittee, and is involved in various initiatives to encourage and support quality clinical trials and the use of natural animal models to accelerate translational research.

