

## **PUBLICATIONS - Refereed:**

2013

Millis DL, Carr J. Robenacoxib – a new nonsteroidal anti-inflammatory drug for cats. In preparation for submission to the Compend Contin Educ Pract Vet.

Millis DL, Weigel JP, Korvick DL, Dean DD, Wang WD. The effect of polysulfated glycosaminoglycans in a canine model of osteoarthritis. In preparation for submission to J Amer Anim Hosp.

Lidbetter D, Millis DL, Daniel GB. Comparison of demineralized bone matrix and autogenous cancellous bone graft on bone healing in an unstable canine radial ostectomy model. In preparation for submission to the Journal of the American Veterinary Medical Association.

Millis DL, Conzemius MG, Wells KL, Beale BS, Lipowitz AJ, Sweet DC, Claxton RF. The efficacy of deracoxib as a postoperative analgesic in dogs undergoing surgery for cranial cruciate ligament rupture. In preparation for submission to the Journal of the American Veterinary Medical Association.

Lidbetter D, Millis DL, Daniel GB. The use of low-intensity ultrasound on bone healing in an unstable canine radial ostectomy model. To be submitted to Veterinary Surgery.

Millis DL, L Scroggs, D Francis. Variables Contributing to Thigh Girth Measurements in Dogs. To be submitted, Am J Vet Res.

Millis DL, Prior IC. Clinical notes: Multimodal pain management for dogs and cats. Clinician's Brief 11:64-65, 2013.

2011

Souza CH deMello, Headrick J, Weigel JP, Millis DL. The use of Cyclosporine-A in Dogs with Chronic Osteoarthritis- A Pilot Study. Vet Comp Orthop Traumatol 24: 285–288, 2011.

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R Yamada, Millis DL. Manual Therapy. Jap J S Anim Med

R Yamada, Millis DL. Physical Rehabilitation of Joint Conditions. Jap J S Anim Med

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Hoelzler MG, Harvey RC, Lidbetter DA, Millis DL. Comparison of perioperative analgesic protocols for dogs undergoing tibial plateau leveling osteotomy. *Vet Surg* 34:337-344, 2005.

Arnold G, DL Millis. Physical Rehabilitation: Improving the outcome in dogs with orthopedic problems. *Veterinary Medicine*, 100:438-445, 447-8, 2005.

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Millis DL. Pearls of veterinary practice. Getting the dog moving after surgery. *J Amer Anim Hosp Assoc* 40:429-436, 2004.

Hoelzler MG, DL Millis, DA Francis, JP Weigel. Results of arthroscopic versus open arthrotomy for surgical management of cranial cruciate ligament deficiency in dogs. *Veterinary Surgery* 33(2):146-153, 2004.

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Loonam J, DL Millis. Choosing surgical lighting. *Compend Cont Educ Pract Vet* 25:537-542, 2003.

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Millis DL. Die "ganzheitliche" Behandlung von Arthrose-Patienten ("Holistic" treatment of arthrosis). *Praktische Tierarzt.* 83:770-778, 2002.

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Schryver HF, Millis DL, Soderholm LV, Williams J, Hintz HF. Metabolism of some essential minerals in ponies fed high levels of aluminum. *Cornell Vet* 76:354-360, 1986.

#### **PUBLICATIONS - Books and Monographs:**

2013

Millis DL. Essential Facts of Orthopedic and Gait Evaluation. Vet Verlag, In progress 2010. German and English translations.

Bockstahler B, Levine D, Millis DL, eds. Essential Facts of Physiotherapy in Dogs and Cats. 2<sup>nd</sup> edition in preparation, Vet Verlag.

Millis DL, Levine D, Taylor RA, eds, Canine Physical Therapy and Rehabilitation. 2<sup>nd</sup> edition in press. WB Saunders Co. (Elsevier), December 2012.

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Millis DL. "Complete" Management of the Arthritic Patient in *Nutrition and Health Care in Large Breed Dogs*. The Iams Company, Geneva, Switzerland, 2001.

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*Basic Science for Animal Physical Therapists - Canine Anatomy and Biomechanics I: Forelimb*. Reigger-Krugh C, Millis DL. Orthopedic Section Home Study Course, American Physical Therapy Association, LaCrosse, WI, 2000.

## **PUBLICATIONS - Book Chapters:**

2012

Millis DL. Canine Physical Therapy and Rehabilitation. 2<sup>nd</sup> edition in press. WB Saunders Co. (Elsevier), December 2012.

Regulatory and Practice Issues for the Veterinary and Physical Therapy Professions

Canine Anatomy

Responses of Musculoskeletal Tissues to Disuse and Remobilization

Exercise Physiology of the Canine Athlete

Orthopedic and Neurologic Evaluation  
Outcome assessment  
Nursing Care of the Rehabilitation Patient  
Therapeutic Lasers in Veterinary Rehabilitation  
Applications of Extracorporeal Shock Wave Therapy in Small Animal Practice  
Other Modalities in Veterinary Medicine  
Biomechanics of Physical Rehabilitation and Kinematics of Exercise  
ROM and Stretching Exercises  
Exercises for Proprioception, Balance, and Joint Position Awareness  
Early limb use exercises  
Strengthening exercises  
Aquatic Therapy  
Physical Therapy for Geriatric and Arthritic Patients  
Protocol Development and Protocols  
Development of a Rehabilitation Facility for Small Animals and Business Considerations

Levine D, Millis DL, Adair S. Physical Therapy Modalities. In: Equine Manual therapy, 1<sup>st</sup> editions, KK Haussler, NG Robinson, eds. Elsevier. Submitted. In Press.

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Millis DL, Levine D. Therapeutic Exercises, in *Essential Facts of Physiotherapy in Dogs and Cats*. Vet Verlag, November 2004.

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Riegger-Krugh C, Millis DL, Weigel JP. Canine Anatomy. Millis DL, Levine D, Taylor RA (eds): *Textbook of Canine Rehabilitation and Physical Therapy*, 1<sup>st</sup> ed, Philadelphia, Elsevier, pp 38-99, 2004..

Millis DL. Responses of Musculoskeletal Tissues to Disuse and Remobilization. Millis DL, Levine D, Taylor RA (eds): *Textbook of Canine Rehabilitation and Physical Therapy*, 1<sup>st</sup> ed, Philadelphia, Elsevier, pp 113-159, 2004.

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Hamilton S, Millis DL, Taylor RA, Lewelling A. Therapeutic Exercise. Millis DL, Levine D, Taylor RA (eds): *Textbook of Canine Rehabilitation and Physical Therapy*, 1<sup>st</sup> ed, Philadelphia, Elsevier, pp 244-263, 2004.

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### **PUBLICATIONS - Abstracts, Proceedings:**

2013

Tobias J, Millis DL, Weigel JP. Kinetic and Kinematic Analysis of Hind Limb Joints Following Immobilization of the Tarsus - A pilot study. Veterinary Orthopedic Society Meeting, March 2013.

2012

Millis DL, Westling M. The effect of oral tramadol on ground reaction forces in dogs with experimentally induced osteoarthritis. Proc 7<sup>th</sup> International Association of Veterinary Rehabilitation and Physical Therapy Meeting. Vienna, Austria, August 2013.

Millis DL, Carr J. Kinematic analysis of the forelimb of normal dogs during stair and ramp ascent. Proc 7<sup>th</sup> International Association of Veterinary Rehabilitation and Physical Therapy Meeting. Vienna, Austria, August 2013.

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McEachern GL, Millis DL, Headrick J, Hicks DA. Kinematic assessment of sit-to-stand exercise in dogs with chronic extracapsular cranial cruciate repair. Proc 2<sup>nd</sup> World Veterinary Orthopedic Congress/Veterinary Orthopedic Society, Keystone CO, Feb

Headrick JH, Hicks DA, McEachern GL, Millis DL. Kinematics of walking over cavaletti rails compared to overground walking in dogs. Proc 2<sup>nd</sup> World Veterinary Orthopedic Congress/Veterinary Orthopedic Society, Keystone CO, Feb 2006.

Hicks DA, Millis DL, Headrick JF,; McEachern GL. Computer-assisted kinematic evaluation of compensatory movements of the lumbar spine associated with hind limb lameness in dogs with stifle osteoarthritis. Proc 2<sup>nd</sup> World Veterinary Orthopedic Congress/Veterinary Orthopedic Society, Keystone CO, Feb 2006.

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- 2002
- Hoelzler MG, DL Millis, DA Francis, JP Weigel. Outcome assessment following arthroscopic and arthrotomy techniques for extracapsular stifle stabilization in dogs. Proc 12<sup>th</sup> Annual American College of Veterinary Surgeons Symposium, San Diego, 2002.
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Interview on Canine Stem Cell Therapy in Dogs for Dog Fancy magazine with Meredith Wargo, June 2011.

Getting dogs back on their paws, a Q & A with canine physical rehabilitation expert Darryl Millis, DVM. DVM360, Advanstar Communications, Feb 1, 2011.

TV Show segment on Osteoarthritis, Your Life with Dr. Anna Marie, to air Fall 2010

Elbow and Hip Dysplasia, Dog Fancy – Contributor with Marcia King, 2009

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10 Tips for Transporting the Injured Dog By Marcia King. Interview with DL Millis. Dog Fancy, 2007.

Broken Up: Dealing with Fractures by Marcia King. Interview with DL Millis. Dogs Fancy, 2007.

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Web site with lecture slides, notes, exam, and links to other web sites. University of Tennessee. Fall 1999.

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Gone to the Dogs (Physical Therapy for Dogs) by Vicki Slagle Johns. University of Tennessee Alumni Magazine, Summer 1996.

Physical Therapy in Veterinary Medicine. Two volume audio tape set from presentation at the American Physical Therapy Association Scientific Meeting and Exposition. Minneapolis, MN, June, 1996.

Total hip replacement in dogs. Morning Show, Channel 10, Knoxville, TN. May 21, 1996.

#### **RESEARCH AND EXTERNAL SUPPORT - Principal Investigator:**

Prevalence of Osteoarthritis in Dogs Undergoing Dental Procedures. Novartis Animal Health. DL Millis, \$61,928.82, funded.

Environmental factors involved in limit of detection and fatigue in the detection of explosive substances by trained detection dogs. Department of Homeland Security. DL Millis, J Albright, F Brasfield, \$522,412, pending.

In Support of Ongoing Orthopedic Research. DL Millis, Northeast Seminars, \$25,000, funded.

Treatment of Dogs Following Tibial Plateau Leveling Osteotomy for Cranial Cruciate Ligament Disease with Autogenous Mesenchymal Stem Cells. COE. M Cekanova, DL Millis, \$24,000, funded.

Maintenance of Arthritic Dog Colony, DL Millis, Northeast Seminars. \$20,000, funded.

Effect of Alternative and Complementary Treatments on Kinetic Parameters of Gait in Dogs with Hip Osteoarthritis. DL Millis, M Drum, D Levine, C Egger, J Headrick. Morris Animal Foundation. \$83,808, funded.

Clinical Evaluation of Extracorporeal Shock Wave Therapy For Management of Canine Osteoarthritis of the Elbow Joints. DL Millis. \$43,068, Funded.

Pilot Study to Evaluate Adipose-Derived Stem Cells for the Treatment of Canine Osteoarthritis. DL Millis, VetStem, \$7,242, pending.

The Effect of Weight Loss on Clinical Function in Dogs with Osteoarthritis, DL Millis, Janssen Animal Health, \$67,463, not funded.

Clinical Evaluation of Flavocoxid For Management of Canine Osteoarthritis. DL Millis, Agrilabs, \$44,488, not funded.

Placebo Controlled Field Efficacy Trial of Meloxicam Administered Orally via Transmucosal Oral Mist. DL Millis, Antegritty Enterprises, \$23,000. Funded, but project discontinued due to product issues.

Clinical Assessment of a New NonSteroidal Anti-inflammatory Medication for Feline Osteoarthritis. DL Millis, \$15,000. Funded.

The Effect of Dasuquin on Lameness Secondary to Stifle Osteoarthritis in Dogs. DL Millis. February, 2007, \$47,000. Funded.

Effect of Alternative and Complementary Treatments on Kinetic and Kinematic Parameters of Gait in Dogs with Osteoarthritis. DL Millis, J Headrick, C Egger, D Levine, M Drum. Morris Animal Foundation, \$213,300, Not funded.

Evaluation of three novel compounds on the prevention of chemically induced synovitis in dogs. DL Millis. December 2005, \$150,000.

The Effect of PLA-725 on the Prevention of Lameness Induced by Chemical Synovitis in Dogs. DL Millis, August 2004, \$66,675.

The use of injectable NSAID in the management of postoperative pain in clinical patients. DL Millis, August, 2004, \$143,237.

The Effect of Diet on Muscle Atrophy Following Surgery for Cranial Cruciate Ligament Rupture. DL Millis. November 2003, \$92,444.

Effect of injectable NSAID on perioperative analgesia following cranial cruciate ligament transection and tibial plateau leveling osteotomy in dogs. DL Millis, JP Weigel. November 2003, \$100,000.

Osteoarthritis colony development. DL Millis. September 2002 to June 2003. \$72,000.

A clinical study of the use of shock wave therapy for canine osteoarthritis of the hip and elbow. DL Millis and DA Francis. HMT, June 2002. \$15,000.

Continued studies on the effect of injectable deracoxib, a COX-2 specific inhibitor, on perioperative analgesia in a stifle arthrotomy-cranial cruciate ligament stabilization model in dogs. DL Millis, JP Weigel. May 2002, \$96,800.

Continued studies on the effect of milk ultrafiltration fraction on osteoarthritis in the dog. DL Millis. October 2001. \$28,681

The effect of injectable COX-2 specific inhibitor, on perioperative analgesia in a stifle arthrotomy-cranial cruciate ligament stabilization model in dogs. DL Millis, JP Weigel, RC Harvey. October 2001, \$72,375

The effect of milk ultrafraction on osteoarthritis in the dog. DL Millis. October 2000. \$26,502.

Evaluation of clinical efficacy and safety of flupirtine for treatment of chronic pain associated with osteoarthritis secondary to hip dysplasia in dogs. DL Millis. Bayer, September 2000. \$92,329.

A multi-center clinical study of the effect of an investigational drug on chronic pain in dogs with osteoarthritis. DL Millis. March 2000. \$75,000.

A multi-center clinical study of the effect of SD-6746 on post-operative analgesia associated with cranial cruciate ligament stabilization (acute pain) in dogs. DL Millis, JP Weigel. Monsanto Company/Novartis, March 1999. \$80,000.

The effect of somatotropin during recovery from cranial cruciate ligament transection and subsequent stifle stabilization. DL Millis, JP Weigel, D Korvick, S Belkoff, FC Buonomo. Monsanto Company, September 1998. \$82,265.

The effect of a new Cox-2 inhibitor on perioperative analgesia in a stifle arthrotomy-cranial cruciate ligament stabilization model in dogs. DL Millis, JP Weigel, RC Harvey. Monsanto Company, March 1998, \$50,865

Modulation of osteoarthritis with somatotropin and polysulfated glycosaminoglycans in dogs using the Pond-Nuki model. DL Millis, JP Weigel, FC Buonomo. Protiva, a unit of Monsanto Company. May 1997, \$77,413

Initial dose determination of a new cyclooxygenase-2 inhibitor for the prevention of lameness induced by chemical synovitis in dogs. DL Millis, JP Weigel, DJ Welsch, JW Day, FC Buonomo. Protiva, a unit of Monsanto Company. May 1997, \$83,215.



Equipment grant to purchase a Dual-Energy X-Ray Absorptiometer. DL Millis and Joe Bartges. Centers of Excellence equipment grant, June, 1997, \$12,000.

The use of canine recombinant somatotropin to enhance fracture healing in dogs: The effect of length of treatment time on bone healing. DL Millis, F Williams, JP Weigel. Protiva, a division of Monsanto Company. January 1997, \$65,342.

Pilot Study of a COX-2 Inhibitor in Prevention of Lameness Induced by Chemical Synovitis. DL Millis. G.D. Searle & Company, July 1996, \$50,749.

The Use of Canine Recombinant Somatotropin to Enhance Healing of Delayed Union Fractures in Dogs. DL Millis, GB Daniel, L Munson, D Gerard, JP Weigel. Centers of Excellence, June 1996, \$10,000.

The Use of Canine Recombinant Somatotropin to Enhance Fracture Healing in Dogs. DL Millis, B Wilkens, F Buonomo, J Sackman, L Munson, G Daniel, J Weigel. Monsanto Corporation, March 1996. \$47,320.

The effects of early rehabilitation of the dog following cranial cruciate ligament reconstruction surgery. DL Millis, D Levine, M Brumlow. Companion Animal Fund, July 1995. \$3250.

The effects of early rehabilitation of the dog following cranial cruciate ligament reconstruction surgery. DL Millis, D Levine, M Brumlow. American Animal Hospital Association, June 1995. \$5330, not funded.

Evaluation of the Effect of LoFrin (fenleuton) on Modulating Ground Reaction Forces in Dogs with Acute Synovitis Induced by Carrageenan. DL Millis. Abbott Laboratories, May 1995. Funded - \$35,850.

Equipment grant to purchase a radiographic transmission densitometer. DL Millis, G. Daniel. Centers of Excellence equipment grant, September, 1994. Funded - \$1000.

The Effect of Exogenous Growth Hormone on Bone Healing in Dogs I. Biomechanical Factors and Gait Analysis. II. Effects on Bone Physiology. DL Millis, B Wilkens, J Weigel, G Daniel, L Munson. University of Tennessee Venture Grant, May 1994. Funded - \$4000, Monsanto Corporation, May 1994. Funded - \$5000.

Disseminated Intravascular Coagulation in Canine Trauma Patients. DL Millis. University of Tennessee Professional Development Award, October 1993. Funded - \$3400.

A Comparison of Techniques for Obtaining Hemostatic Profiles in Dogs. DL Millis, M Jagger, B Hawkins. Mississippi State University CVM Restricted Use Fund, September, 1992. Funded - \$2200.

Disseminated Intravascular Coagulation in Canine Trauma. DL Millis, TA Tobias. Mississippi State University Research Initiation Grant, December, 1992. Funded - \$5500.

Endotoxemia and Disseminated Intravascular Coagulation in Canine Gastric Dilatation-Volvulus. DL Millis, CL Tyner. Research Initiation Program, November, 1991. Not funded.

Exposure of Veterinary Students to Non-traditional Careers in Veterinary Medicine. DL Millis, CR Nichols. Mississippi State University Special Teaching Project, October, 1991. Not funded.

Changes in Coagulation Tests of Healthy Dogs Undergoing Ovariohysterectomy. DL Millis, JG Hauptman. Supported by Companion Animal Fund. December, 1990.

The Role of Disseminated Intravascular Coagulation in Canine Gastric Dilatation-Volvulus. DL Millis, JG Hauptman. Companion Animal Fund, May, 1989. Funded - \$7526.

Determination of a Relationship Between Hypothyroidism and Lower Urinary Tract Infection-Associated Struvite Urolithiasis. DL Millis, RW Walshaw. American College of Veterinary Surgeons, 1989. Accepted, but not funded.

Evaluation of Free Hydroxyproline Concentration in Serum of Horses in the Early Diagnosis of Lameness. DL Millis, HF Hintz, HF Schryver. Harry S. Zweig Fund, 1985. Funded - \$1500.

## **RESEARCH AND EXTERNAL SUPPORT - Co-Investigator:**

M Chekanova, DL Millis. Canine stem cell research. Centers of Excellence. Funded, \$24,000

KM Tobias, DL Millis, R Harvey, J Bartges. Analgesics for cats: clinical efficacy of 3 drugs for pre-emptive analgesia, and effects of chronic administration of a new Cox-2 selective inhibitor. American Animal Hospital Association, May 2003, \$46,000.

Comparison of postoperative analgesic protocols following tibial plateau leveling osteotomy. MG Hoelzler, RC Harvey, DL Millis. Small Animal Research Fund, December 2001. \$1,500.

Comparison of postoperative morbidity after traditional and arthroscopic stifle stabilization surgery in dogs. MG Hoelzler, DL Millis, JP Weigel. Hohn Johnson Research Awards, December 2001. \$10,000. Not funded.

Characterizing articular and meniscal cartilage pathology: correlating biomechanical and biochemical parameters for guiding treatment and determining prognosis. JL Cook, D Millis, JL Tomlinson, K Kuroki, T Noone, D Fox, C Cook, S Ball. AVMA Foundation, November 2000. \$83,147. Not funded.

Anti-inflammatory therapy for severe joint inflammation in the dog: nutritional therapy with anti-inflammatory fatty acids. MD Karlstad, J Bartges, DL Millis, J Whelan, et al. Center for Age Related Diseases, June 2000. \$44,000.

Effects of o,p'-DDD treatment on body composition and urinary calcium excretion in dogs with pituitary dependent hyperadrenocorticism. A Clare Kraje, J Bartges, R DeNovo, DL Millis. Resident Research Grant, April 1998. \$8850.

A preliminary evaluation of growth hormone for treatment of idiopathic dilated cardiomyopathy in Doberman Pinschers. J Bright, R Gompf, DL Millis, W Adams. Protiva, a division of Monsanto Company, November 1996. \$5000. Funded.

Relationship of sepsis and hemostatic abnormalities in clinical canine patients. Kerstetter KK, DL Millis. American Animal Hospital Association, June 1995. Not funded.

Evaluation of Serum and Tumor Osteocalcin as Metastatic Markers in Canine Osteosarcoma. B Wilkens, DL Millis, J Sackman, K Hahn. UTCVM Resident Venture Grant, April, 1995. Funded - \$1400

The Effect of Exogenous Recombinant Canine Growth Hormone on Bone Healing in Dogs: Morphologic, Biological, and Biomechanical Analyses. B Wilkens, DL Millis. American College of Veterinary Surgeons Grant, December 1994. \$5000. Accepted, but not funded.

Torsional Integrity of Three Techniques for Slipped Capital Femoral Epiphysis Fixation in Immature Canines. S Belkoff, DL Millis, CW Probst. Hohn-Johnson Research Award, Veterinary Orthopedic Society, November, 1991. Not funded.

Disseminated Intravascular Coagulation and Gastric Necrosis. JG Hauptman, DL Millis. Companion Animal Fund, December, 1990. Funded - \$9660.

A Biomechanical Comparison of Fixation Techniques for Slipped Femoral Capital Epiphyses in Canines. CW Probst, SM Belkoff, DL Millis. Hohn-Johnson Research Award, Veterinary Orthopedic Society, November, 1990. Funded - \$2500.

Development of a Bovine Model of Human Slipped Capital Femoral Epiphysis. CW Probst, SM Belkoff, DL Millis, RC Haut, NK Ames. BRSG, November, 1990. Accepted, but not funded.

Femur Fracture Documentation Study. Fracture Documentation Group, TD Braden, leader. 1989 to 1992.

## **PROFESSIONAL PRESENTATIONS:**

### **SCIENTIFIC PRESENTATIONS**

2013

Tobias J, Millis DL, Weigel JP. Kinetic and Kinematic Analysis of Hind Limb Joints Following Immobilization of the Tarsus - A pilot study. Veterinary Orthopedic Society Meeting, March 2013.

2012

Millis DL, Westling M. The effect of oral tramadol on ground reaction forces in dogs with experimentally induced osteoarthritis. 7<sup>th</sup> International Symposium on Veterinary Rehabilitation and Physical Therapy, August, 2012.

Millis DL, Carr J. Kinematic analysis of the forelimb of normal dogs during stair and ramp ascent. 7<sup>th</sup> International Symposium on Veterinary Rehabilitation and Physical Therapy, August, 2012.

Westling M, Millis DL. The effect of oral tramadol on ground reaction forces in dogs with experimentally induced osteoarthritis. Veterinary Orthopedic Society Meeting, March 2012.

2011

Millis DL, Drum M, Whitlock D. Complementary Use Of Extracorporeal Shock Wave Therapy On Elbow Osteoarthritis In Dogs. 34<sup>th</sup> Veterinary Orthopedic Society, Snowmass, CO, March 2011.

2010

DL Millis, M Drum, D Whitlock. Effect of extracorporeal shock wave therapy on elbow osteoarthritis in dogs. Proc 3<sup>rd</sup> World Veterinary Orthopedic Congress, Bologna, Italy, Sept 2010.

RP Millard, JF Headrick, DL Millis. Kinematic analysis of stair and decline slope walking of the pelvic limb in healthy dogs. Proc 3<sup>rd</sup> World Veterinary Orthopedic Congress, Bologna, Italy, Sept 2010.

RP Millard, JF Headrick, DL Millis. Kinematic analysis of stair and decline slope walking of the pelvic limb in healthy dogs. Proc 6<sup>th</sup> Meeting of the International Association of Veterinary Rehabilitation and Physical Therapy, Auburn, Alabama, Aug 2010.

2008

Long term kinetic and kinematic comparison of cruciate-deficient dogs treated with tibial plateau leveling osteotomy or modified retinacular imbrication technique. 19<sup>th</sup> ACVS Annual Symposium, San Diego, October 2008.

Long term kinetic and kinematic comparison of cruciate-deficient dogs treated with tibial plateau leveling osteotomy or modified retinacular imbrication technique. 33<sup>rd</sup> Veterinary Orthopedic Society, Big Sky, MT, March 2008.

2006

Kinematic Assessment Of Selected Therapeutic Exercises In Dogs. Proc 16<sup>th</sup> Annual American College of Veterinary Surgeons Symposium, Washington, DC. October 2002.

Correction of Bilateral Ectopic Patellas with Tibial Crest Transposition in a Miniature Horse. 2<sup>nd</sup> World Veterinary Orthopedic Congress/Veterinary Orthopedic Society, Keystone CO, Feb 2006.

2004

Effects of cryotherapy on temperature change in caudal thigh muscles of dogs. 3<sup>rd</sup> International Symposium on Physical Therapy and Rehabilitation in Veterinary Medicine, Raleigh, NC, August, 2004.

Kinematic assessment of selected therapeutic exercises in dogs. 31<sup>st</sup> Veterinary Orthopedic Society, Big Sky, MT, February 2004.

2003

Comparison of carprofen and etodolac for the management of stifle osteoarthritis: A pilot study. 30<sup>th</sup> Veterinary Orthopedic Society, Steamboat Springs, CO, February 2003.

2002

Joint Kinematics During Underwater Treadmill Activity. 2<sup>nd</sup> International Symposium on Physical Therapy and Rehabilitation in Veterinary Medicine, Knoxville, TN, August, 2002.

A multi-center clinical study of the effect of deracoxib, a COX-2 selective drug on post-operative analgesia associated with cranial cruciate ligament stabilization in dogs. Veterinary Orthopedic Society, Park City, Utah, March 2002.

2001

Effect of deracoxib, a new COX-2 inhibitor on perioperative analgesia in a stifle arthroscopy cranial cruciate ligament stabilization model in dogs. Scientific Meeting, American College of Veterinary Surgeons, Chicago, October 2001

A multi-center clinical study of the effect of deracoxib, a COX-2 selective drug on post-operative analgesia associated with cranial cruciate ligament stabilization in dogs. Scientific Meeting, American College of Veterinary Surgeons, Chicago, October 2001

2000

Changes in muscle mass following transection of the cranial cruciate ligament and immediate stifle stabilization. The 27<sup>th</sup> Annual Conference of the Veterinary Orthopedic Society, Val d'Isere, France, March 2000.

1999

Variables Affecting Thigh Circumference Measurements in Dogs. The First International Symposium on Rehabilitation and Physical Therapy in Veterinary Medicine. Corvallis, OR, August 1999.

Changes in Muscle Mass Following Transection of the Cranial Cruciate Ligament and Immediate Stifle Stabilization. The First International Symposium on Rehabilitation and Physical Therapy in Veterinary Medicine. Corvallis, OR, August 1999.

Effect of canine somatotropin on cartilage in a Pond-Nuki model of osteoarthritis. 26<sup>th</sup> Annual Conference of the Veterinary Orthopedic Society, Sun Valley, Idaho, March 1999.

1998

The effects of canine recombinant somatotropin on skeletal tissues in an unstable radial gap osteotomy model. Scientific Meeting, American College of Veterinary Surgeons, Chicago, October 1998.

Effect of polysulfated glycosaminoglycan on articular cartilage in a Pond-Nuki model of osteoarthritis. European College of Veterinary Surgeons Annual Conference, Poertschach, Austria, June 1998.

1997

The effect of dose of canine somatotropin on bone healing in a canine unstable gap fracture healing model. Scientific Meeting, American College of Veterinary Surgeons, Orlando, October 1997.

The effect of dose of canine somatotropin on bone healing in a canine unstable gap fracture healing model. Scientific Meeting, European College of Veterinary Surgeons, Versailles, France, June 1997.

The effect of dose of canine somatotropin on bone healing in a canine unstable gap fracture healing model. Monsanto Company, March 1997.

The effect of dose of canine somatotropin on bone healing in a canine unstable gap fracture healing model. Proc 24th annual conference of the Veterinary Orthopedic Society, Big Sky, MT, March 1997.

A preliminary study of early physical therapy following surgery for cranial cruciate ligament rupture in dogs. Proc 24th annual conference of the Veterinary Orthopedic Society, Big Sky, MT, March 1997.

1996

Determination of proximal femoral epiphyseal depth for physeal fracture repair in dogs. Scientific Meeting, American College of Veterinary Surgeons, San Francisco, November 1996.

The effect of canine somatotropin on bone healing in a canine nonrigid fracture healing model. 42nd Annual Meeting, Orthopedic Research Society, Atlanta, February 1996.

1995

The effect of canine somatotropin on bone healing in a canine nonrigid fracture healing model: radiographic, densitometric and biomechanical features. Scientific Meeting, American College of Veterinary Surgeons, Chicago, October 1995.

The Effect of Growth Hormone on Bone Healing In Dogs Using a Nonrigid Fracture Model  
Southeast Veterinary Surgeon's Conference, Atlanta, June 1995.

The Effect of Growth Hormone on Bone Healing In Dogs Using a Nonrigid Fracture Model  
Monsanto Corporation, St. Louis, MO, February 1995.

1994

The Effect of Systemic Heparinization on Abdominal Organ Blood Flow in Surgically Created Gastric Dilatation Volvulus.  
Scientific Meeting, American College of Veterinary Surgeons  
Washington, DC, October 1994.

Preliminary Results of a Survey of Factors Important to Faculty Members in Selection of Interns and Residents  
American Association of Veterinary Clinicians in conjunction with the American College of Veterinary Surgeons Annual Meeting, Washington, DC, October 1994.

Acquisition of Coagulation Profiles: A Comparison of Venipuncture and Catheter Derived Samples  
Southeastern Veterinary Surgeon's Conference, Lake Lanier Islands, GA, July, 1994

1993

A Retrospective Study of Surgery in Pet Rabbits  
Scientific Meeting, American College of Veterinary Surgeons  
San Francisco, California, October 1993.

1991

Coagulation Abnormalities and Gastric Necrosis in Canine Gastric Dilatation-Volvulus  
Resident's Forum, American College of Veterinary Surgeons  
San Francisco, California, October 1991  
Runner-up, Best Clinical Presentation

Coagulation Abnormalities and Gastric Necrosis in Canine Gastric Dilatation-Volvulus  
2nd Annual Phi Zeta Research Day  
East Lansing, Michigan, May, 1991  
Winner, Best Resident/Graduate Student presentation

1986

The Use of Serum Free Hydroxyproline as an Indicator of Bone Metabolism in Horses  
American Academy of Veterinary Nutrition Meeting in conjunction with the American Veterinary Medical Association Annual Meeting Atlanta, Georgia, July, 1986

1983

The Effect of Exercise and Training on Bone in Yearling Horses  
Equine Nutrition and Physiology Society Meeting  
Louisville, Kentucky, 1983

#### **POSTER PRESENTATIONS**

Comparison of weightbearing at a stance vs trotting in dogs with lameness. DL Millis, M Westling, W Westling. Proc 7<sup>th</sup> International Symposium on Veterinary Physical Rehabilitation, Vienna, Austria, August 2012.

Effect of extracorporeal shock wave therapy on elbow osteoarthritis in dogs. DL Millis, M Drum, D Whitlock. Proc 6<sup>th</sup> Meeting of the International Association of Veterinary Rehabilitation and Physical Therapy, Auburn, Alabama, Aug 2010.

The effect of transcutaneous electrical nerve stimulation (TENS) on dogs with osteoarthritis of the stifle. Millis DL. Veterinary Orthopedic Society Annual Meeting, Snowmass, CO, March 2005.

Evaluation of limb composition by dual-energy x-ray absorptiometry in dogs 1 year after cranial cruciate ligament transection and stifle repair. Millis DL, Gröbllinger K. European College of Veterinary Surgeons Annual Congress, Prague, Czech Republic, July 2004.

Comparison of carprofen and etodolac for the management of stifle osteoarthritis: A pilot study. Millis DL, J Loonam, M Stevens. 30<sup>th</sup> Veterinary Orthopedic Society, Steamboat Springs, CO, February 2003.

The effect of length of treatment with canine recombinant somatotropin on bone healing in an unstable fracture gap model. Millis D, Williams F, Weigel J, Daniel G, Buonomo F. 45<sup>th</sup> Annual Meeting of the Orthopaedic Research Society, Anaheim, California, February 1999.

Modulation of cartilage injury with growth hormone and/or polysulfated glycosaminoglycans in a canine model of osteoarthritis. Millis D, Korvick D, Dean D, Wang W, Weigel J, Buonomo F, Athanasiou K. 45<sup>th</sup> Annual Meeting of the Orthopaedic Research Society, Anaheim, California, February 1999.

Effect of polysulfated glycosaminoglycans in a Pond-Nuki model of osteoarthritis. Millis D, Korvick D, Dean D, Wang W, Weigel J, Buonomo F. 25<sup>th</sup> annual conference of the Veterinary Orthopedic Society, Snowmass, CO, February 1998.

### **SCIENTIFIC PRESENTATIONS - Coauthor**

2013

Tobias J, Millis DL, Weigel JP. Kinetic and Kinematic Analysis of Hind Limb Joints Following Immobilization of the Tarsus - A pilot study. Veterinary Orthopedic Society Meeting, March 2013.

2010

Whitlock D, Millis DL, Odoi A. Can Goniometry be used to Detect the Presence of Lameness in Dogs with Chronic Elbow Osteoarthrosis? 35th Veterinary Orthopedic Society, Breckenridge, CO 2010.

2008

Durant AM, Millis DL Headrick JF. Kinematics of stair ascent versus trotting in healthy dogs. 33rd Veterinary Orthopedic Society, Big Sky, MT, March 2008.

Souza CHM, Millis DL, Headrick J, Weigel JP. The treatment of canine osteoarthritis with cyclosporine-a. 33rd Veterinary Orthopedic Society, Big Sky, MT, March 2008.

2006

Headrick JH, Hicks DA, McEachern GL, Millis DL. Kinematics of walking over cavaletti rails compared to overground walking in dogs. 2<sup>nd</sup> World Veterinary Orthopedic Congress/Veterinary Orthopedic Society, Keystone CO, Feb 2006.

Hicks DA, Millis DL, Headrick JF,; McEachern GL. Computer-assisted kinematic evaluation of compensatory movements of the lumbar spine associated with hind limb lameness in dogs with stifle osteoarthritis. 2<sup>nd</sup> World Veterinary Orthopedic Congress/Veterinary Orthopedic Society, Keystone CO, Feb 2006.

Vannatta ML, Millis DL, Levine D, Adair S, Schwartz P, Hicks D, Evans M. The effects of cryotherapy on in vivo skin and muscle temperature, and intramuscular blood flow. 2006 Combined Sections Meeting of the American Physical Therapy Association, Feb 2006, San Diego.

2005

Gassel AG, Millis DL, Schwartz P, Evans MB, Hicks DA. Kinematic gait analysis of the pelvic limb: comparison of overground versus incline walking in 10 dogs. 32nd Veterinary Orthopedic Society Annual Meeting, Snowmass, CO, March 2005.

Hicks DA, Millis DL, Arnold GA, Evans MB. Comparison of weightbearing at a stance vs. Trotting in dogs with rear limb lameness. Veterinary Orthopedic Society Annual Meeting, Snowmass, CO, March 2005.

2004

Hicks DA, Millis DL, Schwartz P, Evans MB. Kinematic assessment of selected therapeutic exercises in dogs. 3rd International Symposium on Physical Therapy and Rehabilitation in Veterinary Medicine, Raleigh, NC, August, 2004.

Schwartz P, Millis DL, Hicks DA, Evans M. Kinematic Comparison of Over Ground vs. Treadmill Walking. 31st Veterinary Orthopedic Society, Big Sky, MT, February 2004.

Francis DA, Millis DL, Evans M, Moyers T. Clinical evaluation of extracorporeal shockwave therapy for the management of canine osteoarthritis of the elbow and hip joints. 31st Veterinary Orthopedic Society, Big Sky, MT, February 2004.

2003

Hoelzler MG, RC Harvey, DL Millis. Comparison of perioperative analgesic protocols for dogs undergoing tibial plateau leveling osteotomy. 8<sup>th</sup> World Congress of Veterinary Anesthesia, Knoxville, TN, September 2003.

Francis DA, DL Millis, M Stevens. Bone and lean tissue changes following cranial cruciate ligament transection and stifle stabilization. *Bloomberg Award Winner*. Veterinary Orthopedic Society, Steamboat Springs, CO, February 2003.

Lidbetter DA, DL Millis. The effects of demineralized bone matrix and cancellous bone graft on an unstable radial ostectomy model in dogs. Veterinary Orthopedic Society, Steamboat Springs, CO, February 2003.

Loonam J, DL Millis, M Stevens, T Moyers. The effect of therapeutic ultrasound on tendon healing and extensibility. Veterinary Orthopedic Society, Steamboat Springs, CO, February 2003.

2002

Hoelzler MG, DL Millis, DA Francis, JP Weigel. Outcome assessment following arthroscopic and arthrotomy techniques for extracapsular stifle stabilization in dogs. 12<sup>th</sup> Annual American College of Veterinary Surgeons Symposium, San Diego, 2002.

Tragauer V, D Levine, DL Millis. Percentage of Normal Weight Bearing during Partial Immersion at Various Depths in Dogs. Proc 2<sup>nd</sup> International Symposium on Physical Therapy and Rehabilitation in Veterinary Medicine, Knoxville, TN, August, 2002.

KD Johnston, D Levine, MN Price, NH Schneider, DL Millis. The Effect of Tens on Osteoarthritic Pain in the Stifle of Dogs. Proc 2<sup>nd</sup> International Symposium on Physical Therapy and Rehabilitation in Veterinary Medicine, Knoxville, TN, August, 2002.

Francis D, DL Millis. Muscle and Bone Changes Following Cranial Cruciate Ligament Transection and Stifle Stabilization. Proc 2<sup>nd</sup> International Symposium on Physical Therapy and Rehabilitation in Veterinary Medicine, Knoxville, TN, August, 2002.

Johnston SA, Conzemius MG, Cross AR, Martinez SA, Renberg WC, Millis DL, Leumpert LG, Claxton RF. A multi-center clinical study of the effect of deracoxib, a COX-2 selective drug on chronic pain in dogs with osteoarthritis. Veterinary Orthopedic Society, Park City, Utah, March 2002.

Francis DA, Millis DL. Trends Observed in Bone Metabolism Markers from Dogs Following Radial Ostectomy. Veterinary Orthopedic Society, Park City, Utah, March 2002.

Lidbetter D, Millis DL. Effect of ultrasound stimulation on bone healing in dogs. Veterinary Orthopedic Society, Park City, Utah, March 2002.

2001

Johnston SA, Conzemius MG, Cross AR, Martinez SA, Renberg WC, Millis DL, Leumpert LG, Claxton RF. A multi-center clinical study of the effect of deracoxib, a COX-2 selective drug on chronic pain in dogs with osteoarthritis. Scientific Meeting, American College of Veterinary Surgeons, Chicago, October 2001.

Noone TJ, Millis DL, Korvick DL, Cook J, Athanasiou KA. Biomechanical and biochemical properties of the canine meniscus with experimental and spontaneously occurring stifle instability. Veterinary Orthopedic Society, Lake Louise Canada, February 2001.

2000

Noone TJ, Millis DL, Korvick DL, Athanasiou KA. Biomechanical properties of the canine meniscus with experimental and spontaneously occurring stifle instability. Residents' Forum, American College of Veterinary Surgeons, Washington, DC, September 2000.

1999

Levine D, Millis DL. Thermal effects of 3 MHz ultrasound treatment in dogs. The First International Symposium on Rehabilitation and Physical Therapy in Veterinary Medicine. Corvallis, OR, August 1999.

Peacock J, Millis DL, Weigel JP. A comparative analysis of two methods of cranial drawer quantitation in the canine stifle. 26<sup>th</sup> Annual Conference of the Veterinary Orthopedic Society, Sun Valley, Idaho, March 1999.

1998

Williams FA, Millis DL, Weigel JP, Daniel GB. The effect of length of treatment with canine somatotropin on bone healing in an unstable fracture gap model. Scientific Meeting, American College of Veterinary Surgeons, Chicago, October 1998.

Korvick DL, Millis DL, Zhu CF, Agrawal CM, Athanasiou KA. Effects of polysulfated glycosaminoglycans on articular cartilage in a Pond-Nuki model of osteoarthritis. 17<sup>th</sup> Southern Biomedical Engineering Conference.

1997

Gerard DA, Millis DL, Johnson M, Love J, Chase D. Stimulation of adult calvarial bone activity by canine growth hormone. American Academy of Oral and Maxillofacial Surgeons, September 1997.

Weigel JP, Millis DL, Levine D, Brumlow M. A preliminary study of early physical therapy following surgery for cranial cruciate ligament rupture in dogs. Scientific Meeting, American College of Veterinary Surgeons, Orlando FL, October 1997.

Lorinson D, Millis DL, Bright RM. Determination of maximum depth of pin placement for repair of distal femoral physcal fractures. Scientific Meeting, European College of Veterinary Surgeons, Versailles, France, June 1997.

Levine D, Millis DL, Brumlow, M. Early physical therapy following surgery for cranial cruciate ligament rupture in dogs. Scientific Meeting, American Physical Therapy Association, San Diego, June 1997.

1996

Buonomo FC, Wilkens BE, Millis DL, Daniel GB, Munson L. Metabolic effects of canine somatotropin on bone growth factors and fracture healing in dogs. Proc of the 758th Annual Meeting of the Endocrine Society.

Lorinson D, Millis DL, Bright RM. Determination of maximum depth of pin placement for repair of distal femoral physcal fractures. Scientific Meeting, American College of Veterinary Surgeons, San Francisco, November 1996.

1995

B Wilkens, DL Millis, G Daniel, F Buonomo, L Munson, J Sackman. Metabolic and histopathological effects of canine somatotropin on bone healing in dogs using a nonrigid fracture model. Scientific Meeting, American College of Veterinary Surgeons, Chicago, October 1995. Winner, Best Resident Research Presentation.

Kerstetter KK, DJ Krahwinkel, DL Millis. Pericardiectomy in the dog: 22 cases (1978-1994). Southeastern Veterinary Surgeon's Conference, Atlanta, GA, June, 1995.

#### **POSTER PRESENTATIONS - Co-Author**

Westling M, Millis DL. The effect of oral tramadol on ground reaction forces in dogs with experimentally induced osteoarthritis. Veterinary Orthopedic Society Meeting, March 2012.

Cekanova M, Geiser D, Millis D, Legendre A, Whitlock D. Hyperbaric oxygen treatment affects canine mesenchymal stem cells in vivo. North American Veterinary Regenerative Medicine Association. Lexington, KY, June 2011.

Headrick JF, Durant AM, Millis DL. Advancements in kinematic data acquisition: reduction of skin movement artifact and further improvements in the inverse dynamics model. 35th Veterinary Orthopedic Society, Big Sky, MT, March 2008.

Stoller NB; Headrick JH; Millis DL. Kinetics of Jumping Dogs. Proc of the 32nd Veterinary Orthopedic Society, Sun Valley, ID, March 2007.

McEachern GL, Millis DL, Headrick J, Hicks DA. Kinematic assessment of sit-to-stand exercise in dogs with chronic extracapsular cranial cruciate repair. 2<sup>nd</sup> World Veterinary Orthopedic Congress/Veterinary Orthopedic Society, Keystone CO, Feb 2006.

Arnold GA, Millis DL, Schwartz P, Hicks DA, Evans MB. Three-dimensional kinematic motion analysis of the dog at a walk Proc of the 32nd Veterinary Orthopedic Society, Snowmass, CO, March 2005.

Vannatta ML, Millis DL, Adair S, Schwartz P, Hicks D, Evans M. Effects of cryotherapy on temperature change in caudal thigh muscles of dogs. 31st Veterinary Orthopedic Society, Big Sky, MT, February 2004.

Hoelzler MG, DL Millis, DA Francis, JP Weigel. Outcome assessment following arthroscopic and arthrotomy techniques for extracapsular stifle stabilization in dogs. 12<sup>th</sup> Annual American College of Veterinary Surgeons Symposium, San Diego, October 17-20, 2002.

Weigel JP, Forrester JH, Mullinix L, Millis DL. Vibrational analysis of growth hormone modulated healing of a canine radial partial ostectomy. Second Tennessee Conference on Biomedical Engineering. Vanderbilt University, Nashville, TN, April 9-11, 1999.



Gerard DA, Chambers KC, Millis DL, Chase DC. Effect of growth hormone on bone activity at various sites. Second Annual Research Day, University of Tennessee Medical Center Graduate School of Medicine, Knoxville, May 21, 1998.

## **INVITED PRESENTATIONS**

### **International**

2012

Congresso de Medicina Veterinaria em Ligua Portuguesa

Lisbon, Portugal

- Physiotherapy – What is it, how and when to use
- Why Physiotherapy? Part 1 – Acute and chronic inflammation
- Why Physiotherapy? Part 2 – Changes when you do not use the limb
- ROM and Stretching
- Examination of the Physiotherapy Patient :goniometer, girthometer and end feels
- Kinesiotherapy
- Neuromuscular electrostimulation
- Ultrasound
- Laser therapy

### **SCIVAC**

Cremona, Italy, October

- Extracorporeal shockwave therapy – What it is and how it works
- ESWT – How and when can we use it
- ESWT – The evidence
- Therapeutic Laser therapy

European College of Veterinary Surgeons

Barcelona, Spain, July

- Tendon Repair
- Rehabilitation of muscle and tendon injuries
- Rehabilitation in the cat
- Meet the Expert – How to Get Started in Physiotherapy

7<sup>th</sup> International Symposium in Veterinary Rehabilitation and Physical Therapy.

Vienna, Austria, August

- Pre conference lab: The neurological examination
- The anatomy of the canine hip – just a short refresher
- Panel Discussion on the hip
- Functional anatomy of the canine spine
- Do you remember: clinical examination and pathologies of the back
- Kinematics of the canine spine in sound and lame dogs
- Surgical approaches to the dog's back
- Panel Discussion on the back
- Exercise physiology of dogs – all you want to know about muscles
- Commonly seen injuries in canine sports
- Panel discussion on sports injuries

European University of Tennessee Certificate Program in Canine Rehabilitation

Finland, September

Courses I, II, III

Mallorca, Spain

Courses I-V, October

Kruuse Inspiration Days

Copenhagen, Denmark, March

Rehabilitation of Stifle Injuries

Japanese University of Tennessee Certificate Program in Canine Rehabilitation

Yokohama, Japan, August

Courses IV, V, Update Course

Yokohama, Japan, January

Courses I, II, III

2011

Eickemeyer Neurologic and Aquatic Seminar

Tuttlingen, Germany, October

Principles of Aquatic Therapy

Kinetics and Kinematics of Aquatic Exercises

Planning for Aquatic Treadmills in the Veterinary Facility

Care and Maintenance of Aquatic Treadmills

Operation of Aquatic Treadmills and Aquatic Treadmill Use - Laboratory

Final Questions and Answers

European University of Tennessee Certificate Program in Canine Rehabilitation

Mallorca, Spain - October

Courses I-V

Veterinary European Physical Rehabilitation Association

Warsaw, Poland – September

Veterinary rehabilitation of spinal cord trauma – medical and surgical therapies

Veterinary rehabilitation of spinal cord trauma

Japanese University of Tennessee Certificate Program in Canine Rehabilitation

Yokohama, Japan

Courses V and VII - March

Courses IV and V - August

2010

Annual Meeting of the International Veterinary Chiropractic Association

Valencia, Spain – November

Why physical rehabilitation?

Orthopedic and lameness evaluation

Neurologic assessment

Basic physical rehabilitation

Therapeutic exercises

Aquatic exercises

Rehabilitation of common orthopedic conditions

European University of Tennessee Certificate Program in Canine Rehabilitation

Malorca, Spain - October

Courses I-V

European School for Advanced Veterinary Studies - Course for Veterinary Physical Therapy

Vienna, Austria - September

Physical Therapy Examination

Therapeutic Ultrasound

Therapeutic Exercises

Rehabilitation of Shoulder and Elbow Surgery

Rehabilitation of Hip and Stifle Surgery

Rehabilitation after Decompressive Spinal Cord Surgery

Developing a Treatment Plan

SCIVAC (Societa Culturale Italiana Veterinari per Animali da Compagnia)

Cremona, Italy, September

Physical Therapy: why – part 1 (Acute and Chronic Inflammation)

Physical Therapy: why – part 2 (Responses of tissues to disuse and remobilization)

Assessing treatment outcomes

Joint mobilization, end feels, goniometry, limb circumference

ROM and stretching

Aquatic exercises

Chondroprotectants

Nursing care in the orthopaedic patient

Veterinary European Physical Rehabilitation Association  
Zagreb, Croatia – May

Diagnostic procedures of the stifle  
Gait analysis – changes of gait in diseases of the stifle  
Orthopedic examination and diagnostic imaging of the stifle  
Surgery of the stifle joint  
What does surgery change in the joint and where do we have to pay attention in rehabilitation?

Japanese University of Tennessee Certificate Program in Canine Rehabilitation  
Yokohama, Japan - January  
Courses IV-V

2009

30<sup>th</sup> Annual Meeting of Japanese Society of Clinical Veterinary Medicine, Osaka Japan, November  
Why Physical Rehabilitation and How to Get Started  
Keynote address. First non-Japanese keynote speaker in the 30 years of the meeting.  
Rehabilitation of Common Orthopedic Conditions

Hokkaido Veterinary Medical Association, Sapporo, November  
Why Physical Rehabilitation and How to Get Started

Tokyo Veterinary Technical School, Tokyo, November  
Why Physical Rehabilitation and How to Get Started

Fitzpatrick Referrals, Guilford, England, November

Introduction - Why do physical rehabilitation  
Ortho exam and lab  
Neuroanatomy, neuro exam and neuro lab  
Responses of tissues to disuse and remobilization  
Cryotherapy and thermotherapy  
Range of motion and stretching and lab  
Proprioceptive and Balancing exercises and lab  
Early limb use and strengthening exercises and lab  
Introduction to advanced modalities: Neuromuscular electrical stimulation, Therapeutic Ultrasound, Low level laser,  
Extracorporeal shockwave  
Introduction to Aquatic Therapy

Novartis Animal Health, March, Winnipeg, Saskatchewan, Calgary, Vancouver, Victoria  
Multimodal Treatments for Osteoarthritis

2008

Southern European Veterinary Congress, Barcelona, Spain, October  
International Sled Dog Veterinary Medical Association Annual Meeting  
Physical Rehabilitation of the Athlete

European University of Tennessee Certificate Program in Canine Rehabilitation  
Malorca, Spain - October  
Courses I-V

8<sup>th</sup> CONPAVEPA, the Brazilian National Small Animal Veterinary Association Congress  
Sao Paola, Brazil, September 17-19, 2008

Why Physical Rehabilitation  
Cold, Heat, ROM, Massage  
Therapeutic Exercises  
Aquatic Exercises  
Neuromuscular Electrical Stimulation and Therapeutic Ultrasound  
Interactive Case Discussions

## SCIVAC

Cremona, Italy, March

- Physical Therapy: why – part 1 (Acute and Chronic Inflammation)
- Physical Therapy: why – part 2 (Responses of tissues to disuse and remobilization)
- Assessing treatment outcomes
- Joint mobilization, end feels, goniometry, limb circumference
- ROM and stretching
- Aquatic exercises
- Chondroprotectants
- Nursing care in the orthopaedic patient

Golden Triangle Veterinary Academy

Kitchener, Ontario, Canada - March

- Diagnosing difficult (and easy) lamenesses
- Multimodal treatments for osteoarthritis
- What's new in cranial cruciate ligament disease
- Shoulder and elbow conditions
- Hip conditions

2007

## SCIVAC

Cremona, Italy - November

- Advanced Physical Rehabilitation Techniques

Joint Meeting of the Ordre des médecins vétérinaires du Québec (66th Annual Convention) and The International Veterinary Academy of Pain Management (4th Annual Meeting) International Academy of Pain Management

Montreal, Quebec, Ontario - November

- Pain measurement in animals
- Update on OA in Dogs

Danish Society of Veterinarians Certified in Small Animal Diseases

Hindsgavl Castle, Funen, Denmark - October

- Small Animal Rehabilitation Therapy

European University of Tennessee Certificate Program in Canine Rehabilitation

Malorca, Spain - October

- Courses I-V

Veterinary Professional Quest

Windjammer Cruises, Costa Rica - August

- Why Physical Rehabilitation
- Cold, Heat, ROM, Massage
- Exercises to Enhance Proprioception
- Therapeutic Exercises
- Aquatic Exercises
- Neuromuscular Electrical Stimulation and Therapeutic Ultrasound
- Assessing Treatment Outcomes
- Interactive Case Discussions

Israeli Veterinary Medical Association

Tel Aviv, Israel - May

- Why Physical Therapy - Why Not?
- Physiotherapy for Pain and Pain Control for Physiotherapy
- Post-operative nursing care of orthopedic and neurologic patients
- Biomechanics of Exercise and Aquatic Therapy
- Pain and Exercise Case Reports
- The "Complete" Management of Osteoarthritis (Chondroprotectants, exercise, etc) - Part I
- The "Complete" Management of Osteoarthritis (Chondroprotectants, exercise, etc) - Part II
- Case Examples

Australian Veterinary Association Conference  
Melbourne, Australia - May  
Multimodal Treatment of Osteoarthritis

#### SCIVAC

Cremona, Italy - March  
Physical Therapy: why – part 1 (Acute and Chronic Inflammation)  
Physical Therapy: why – part 2 (Responses of tissues to disuse and remobilization)  
Assessing treatment outcomes  
Joint mobilization, end feels, goniometry, limb circumference  
ROM and stretching  
Aquatic exercises  
Chondroprotectants  
Nursing care in the orthopaedic patient

Golden Triangle Veterinary Academy  
Kitchener, Ontario, Canada - March  
Why Physical Rehabilitation  
Basic Physical Rehabilitation  
Therapeutic Exercises  
Aquatic Exercises

2006

Hamilton, Ottawa, Toronto, Novartis Animal Health Canada, November 21-22  
Comparative Efficacy of NSAIDs  
Essential Facts on Physical Rehabilitation

Schloss Seminars and the University of Tennessee Certificate Program in Canine Rehabilitation, Malorca, Spain, November  
Canine Courses III, IV, V

4th International Symposium on Rehabilitation and Physical Therapy in Veterinary Medicine, Arnhem, The Netherlands,  
October 26-29

Veterinary-Physiotherapeutic Cooperation in Canine Rehabilitation: A Model  
Kinematics of Therapeutic Exercises  
Roundtable Discussion Leader - The Roles of the Vet/Vet Tech/PT in Companion Animal Rehabilitation

World Small Animal Veterinary Association, Prague, Czech Republic, October  
Improving Orthopedic Surgical Results.  
Roundtable Discussion on Canine Pediatric Conditions

2<sup>nd</sup> Hellenic Association of Veterinary Orthopaedics and Traumatology, Athens, Greece, May 13-14  
Tibial Plateau Leveling Osteotomy for the Treatment of Cranial Cruciate Ligament Rupture  
Conservative Management of Cranial Cruciate Ligament Rupture and Rehabilitation

#### SCIVAC

Cremona, Italy - May  
Physical Therapy: why – part 1 (Acute and Chronic Inflammation)  
Physical Therapy: why – part 2 (Responses of tissues to disuse and remobilization)  
Assessing treatment outcomes  
Joint mobilization, end feels, goniometry, limb circumference  
ROM and stretching  
Aquatic exercises  
Chondroprotectants  
Nursing care in the orthopaedic patient

Academie de medecine veterinaire du Quebec (Small Animal Veterinary Association in Quebec)  
St-Hyacinthe, Quebec - May  
Why is Physiotherapy Important?  
Basic Physiotherapy Techniques – Cryotherapy, Thermotherapy, Range of Motion, and Stretching  
Exercises to Enhance Proprioception

The Science of Therapeutic Exercises  
Aquatic Therapy  
Rehabilitation Cases

Ontario Association of Veterinary Technicians, 28th Annual Conference, Toronto February 18  
The "Complete" Management of Osteoarthritis - 4 hrs

Leader's Circle, Puerto Rico - February  
Comparative Efficacy of NSAIDs  
Disease Modifying Osteoarthritic Drugs

2005

Italian School of Veterinary Physiotherapy  
Sienna, Italy - May  
Responses of Tissues to Disuse and Remobilization  
Assessing the Rehabilitation Patient  
Anatomy and Biomechanics of Rehabilitation  
Therapeutic Exercises  
Aquatic Therapy  
Range of Motion, Stretching, Cold and Heat  
Assessing Outcomes  
Rehabilitation Case Discussions

Canada - May  
University of Saskatchewan Western College of Veterinary Medicine  
University of Montreal College of Veterinary Medicine  
University of Prince Edward Island College of Veterinary Medicine  
Guelph University College of Veterinary Medicine  
Deramaxx--The US Experience  
Novartis Leader's Circle Meeting  
St. John's Island, US Virgin Islands - September  
NSAIDs and DMOADs for Osteoarthritis

Finnish Annual Veterinary Meeting, Small Animal Section  
Helsinki, Finland - November  
Aquatic Therapy  
Cranial Cruciate Ligament Disease - Surgical and Medical Management  
Hip Dysplasia  
Luxating Patellas  
Physical Modalities Used in Physical Rehabilitation  
Pathophysiology of Osteoarthritis  
Osteoarthritis Treatments  
Muscle Conditions  
Tendon Conditions  
Therapeutic Exercises  
Responses of Tissues to Disuse and Remobilization  
Rehabilitation Case Studies

Schloss Seminars  
Rothenbuch, Germany - November  
Examination of the Rehabilitation Patient  
Pain Case Studies  
Therapeutic Exercises  
Aquatic Treadmills  
Passive Therapeutic Exercises  
Rehabilitation for Dogs with Osteoarthritis  
Postoperative Management of Joint Surgery  
Neurologic Rehabilitation

Sweden Veterinary Seminar Series

Helsingborg, Sweden - November

- General overview on Physiotherapeutic options
- Interactive case reports: arthritis and spinal disease
- Laboratory Session on Aquatic Therapy
- Why Physiotherapy?

2004

European College of Veterinary Surgeons, Prague, Czech Republic - July  
University of Berlin Veterinary College  
Giessen University, College of Veterinary Medicine  
Tuttlingen, Germany  
Extracorporeal Shockwave Treatment

SCIVAC (Societa Culturale Italiana Veterinari per Animali da Compagnia)

Cremona, Italy - May

- Aquatic Treadmills
- Assessment and Outcomes
- Fracture Rehabilitation
- Neuromuscular Electrical Stimulation and Therapeutic Ultrasound
- Orthopedic Protocols
- Proprioceptive Science and Exercises
- Rehabilitation of Sporting Dogs
- Therapeutic Exercises

3<sup>rd</sup> International Symposium on Veterinary Physical Therapy and Rehabilitation

Raleigh, NC - August

- Cranial Cruciate Ligament Injuries and Their Rehabilitation
- Managing Chronic Osteoarthritis Using Physical Rehabilitation
- Models for Animal Rehabilitation

2003

Master's Degree Program in Veterinary Physiotherapy 1<sup>st</sup> Annual Conference  
London, Great Britain - September 2003.  
Veterinary Physiotherapy: The Past, Present, and Future - Keynote Address  
Research Update

World Congress on Physical Therapy

Barcelona, Spain - May - Cancelled due to regional instability  
Veterinary Physical Rehabilitation

Novartis Leader's Circle

Grand Cayman, Cayman Islands - March 7  
New Advances in Pain Management

2002

1<sup>st</sup> World Orthopaedic Veterinary Congress

Munich, Germany, September 5-8

- Precongress Osteoarthritis Seminar - Pain Assessment in Patients with Osteoarthritis
- Canine Rehabilitation Techniques
- Bone and Muscle Changes after Cranial Cruciate Ligament Transection and Stifle Stabilization

2<sup>nd</sup> International Symposium on Physical Therapy and Rehabilitation in Veterinary Medicine

Knoxville, TN, August 11

- Management of Osteoarthritis.

European College of Veterinary Surgeons Annual Congress

Vienna, Austria, July 5-6  
Aquatic therapy

2001

The “Complete” Management of Canine Osteoarthritis

Large Breed Health Care Symposium sponsored by the Iams Company

Venice, Italy, November 17

Believed to be the first symposium in veterinary medicine to be broadcast live world-wide on the internet at [www.eukanuba-scienceonline.com](http://www.eukanuba-scienceonline.com)

British Veterinary Orthopaedic Association

Birmingham, England - November 9-11

Pathophysiology of tissue disuse and recovery

Basic science of physical therapy - anatomy and biomechanics

Postoperative rehabilitation

University of Ghent, College of Veterinary School

Ghent, Belgium, July 4-6

Canine Rehabilitation

1999

First International Rehabilitation/Physical Therapy in Veterinary Medicine Symposium

Corvallis, Oregon. August 1999.

Veterinary Physical Rehabilitation - Where do we go next?

Panel Discussion

Neuromuscular Electrical Stimulation

Copenhagen Veterinary Medical Association

Copenhagen, Denmark. June 1999

Physical Therapy in Small Animals

World Congress on Physical Therapy

Yokohama, Japan. May 1999

Veterinary Physical Therapy

### **National and Regional**

2012

Southwest Veterinary Conference

Why is Rehabilitation Important to My Patients and My Practice?

Exercises for neurologic patients

Exercises for orthopedic patients

Rehabilitation of Joints

Aquatic Therapy

Therapeutic Modalities I - Lasers, Extracorporeal Shock Wave

Therapeutic Modalities II – Neuromuscular electrical stimulation, therapeutic ultrasound, thermal modalities

Rochester Academy of Veterinary Medicine

Feline Pain Management

2011

Burlington Veterinary Medical Association

Hartford Area Veterinary Medical Association

Joint Health in Performance Dogs

Sponsored by Nutramax

Illinois Veterinary Medical Association Annual Conference – November

Considerations in repair of cranial cruciate ligament injury

Considerations in the use of external skeletal fixation

Laboratory – extracapsular repair of cranial cruciate ligament rupture

Laboratory – External skeletal fixation

American College of Veterinary Surgeons, Chicago, October

Extracorporeal shock wave therapy for elbow DJD

American Veterinary Medical Association, St Louis, August



- Improving the orthopedic examination
- Diagnosing subtle lameness – What clues can I use?
- To rehab or not, and if so, what can I do tomorrow?
- Rehabilitation considerations in the postoperative patient
- Rehabilitation considerations in the orthopedic patient
- Nutritional consideration in the arthritic patient
- Nutritional treatment of osteoarthritis
- Current concepts in the management of osteoarthritis
- Complementary treatment of osteoarthritis
- Loosen up – stretching, range of motion, joint mobilization

Jefferson Area Veterinary Medical Association, Charlottesville, VA, May  
NSAIDs, DMOADs, and Other Things for the Management of Osteoarthritis

Western Veterinary Conference, Las Vegas, February  
The Complete Management of Osteoarthritis

2010

Animal Medical Center, New York City, December  
Use and misuse of NSAIDs  
Treating chronic pain in dogs and cats  
Rehabilitation for osteoarthritis

University of Tennessee College of Veterinary Medicine Last Chance Seminar, Knoxville, November  
Managing osteoarthritis without NSAIDs

Maryland Veterinary Medical Association Annual Meeting, Baltimore, October  
Diagnosing challenging lameness  
What's new in elbow dysplasia and cranial cruciate ligament disease  
What's new in osteoarthritis  
Why physical rehabilitation and how to get started

Novartis Dinner Meetings, Chicago, April; Chico CA, January; Memphis, November  
The complete management of osteoarthritis

North American Veterinary Conference, Orlando, January  
The multimodal approach to arthritis makes sense, but how do I make cents?  
Nutritional supplements for osteoarthritis and rehabilitation  
Loosen up – joint mobilization techniques  
Diagnosing difficult lameness  
Masterclass diagnosing difficult lameness

2009

University of Tennessee College of Veterinary Medicine Last Chance Seminar, Knoxville, December  
Beyond the Head Bob and Hip Hike

ACVS Annual Symposium, Washington, DC, October  
Rehabilitation of Tendon and Ligament Injuries  
Session Chair Rehabilitation Session

Southeast Louisiana Veterinary Association, New Orleans, September  
Diagnosing Orthopedic Lameness  
Managing Osteoarthritis with Pills from A to Z  
Nutritional Management of Osteoarthritis  
Physical Rehabilitation of Osteoarthritis  
Why Physical Rehabilitation and How to Get Started  
Heat, Cold, Range of Motion and Stretching

Novartis Animal Health  
Atlanta, GA, August Techniques for Early Diagnosis of Osteoarthritis with a Multimodal Approach to Treatment

Asheville, NC, May, The Complete Management of Osteoarthritis

American Animal Hospital Association, Phoenix, Arizona March

Orthopedics: Diagnosing orthopedic conditions. Beyond the head bob and hip hike  
ACVS – What’s on the cutting edge? New advances in small animal surgery  
Cruciate ligament rupture – Optimizing recovery with treatment and rehab  
What’s new in elbow dysplasia?  
Managing osteoarthritis – There’s more to it than NSAID’s?  
Orthopedic Radiology with Leila Worth, DACVR – 2 hrs

Western Veterinary Conference Oquando Center Lectures to Veterinary Technician Educators from Japan, Las Vegas, February

Why Physical Rehabilitation  
Cold, Heat, ROM, Massage  
Exercises to Enhance Proprioception – lecture and lab  
Therapeutic Exercises – lecture and lab  
Aquatic Exercises – lecture and lab

Low Country Veterinary Medical Association Meeting, Charleston, SC, January

Diagnosing Difficult (and Easy) Lamenesses  
Drugs to Treat Osteoarthritis – A to Z  
Nutritional Management of OA  
Physical Rehabilitation of OA

2008

Atlantic Coast Veterinary Conference, Atlantic City, NJ, October

Why Physical Rehabilitation?  
Basic Rehabilitation Techniques  
Exercises to Enhance Proprioception  
Therapeutic Exercises  
Aquatic Exercises  
Advanced Rehabilitation Modalities  
Rehabilitation Case Studies – Putting it All Together

American College of Veterinary Surgeons Veterinary Symposium, San Diego, CA, Oct.

Small Animal Cutting Edge Breakfast Panel on Novel Therapies for Canine Osteoarthritis

Delaware Valley Academy of Veterinary Medicine, April

Why Physical Rehabilitation?  
Basic Rehabilitation  
Therapeutic Exercises I & II  
Aquatic Therapy  
Orthopedic and Neurologic Cases – Putting it All Together

Midwest Veterinary Conference, Columbus, OH, Feb

Why Physical rehabilitation?  
Basic Rehabilitation Techniques  
Therapeutic Exercises I  
Therapeutic Exercises II  
Aquatic Exercises  
Rehabilitation Case Studies: Putting It All Together  
Physical Rehabilitation Wet Lab

Michigan Veterinary Specialists Conference, Detroit, Sept

Orthopedic Cases and Their Post-operative Management

Multimodal Treatments for the Pain of Chronic Osteoarthritis

Newark Veterinary Medical Association, Aug  
Honolulu Veterinary Medical Association, Aug  
White Plains Veterinary Medical Association, June

New Jersey Veterinary Medical Association, June  
Delaware Veterinary Medical Association, June  
Dallas Veterinary Medical Association, Dallas TX, Feb

NAVC on Campus

U of FL, Gainesville, Feb  
Purdue University, Feb  
Michigan State University, Sept  
Physical Rehabilitation in Small Animals

North American Veterinary Conference, Orlando, Jan

Meet the Professor Luncheon - What's New in Arthritis Management?  
Current Concepts of Veterinary Joint Preservation Therapy  
Rehabilitation Considerations in Dogs with Performance Induced Injuries  
Physical Rehabilitation All Day Wet Lab

2007

American College of Veterinary Medicine, Chicago, Oct  
Kinematics of Exercise in Humans and Dogs

Nashville Veterinary Medical Association Dinner Meeting, September  
The Complete Management of Osteoarthritis

Ferno Veterinary Rehabilitation Seminar, Williamsburg , VA, June

Why is Physical Rehabilitation Important?  
Legal Aspects of Veterinary and Physical Rehabilitation and Practice Models  
Basic Rehabilitation Techniques – Cryotherapy, Heat, Range of Motion, Stretching  
Therapeutic Ultrasound  
Neuromuscular Electrical Stimulation  
Aquatic Therapy  
Outcome Assessment  
Wet Lab – Therapeutic Ultrasound & Electrical Stimulation and Laser Therapy  
Wet Lab – Aquatic Therapy

Veterinary Surgical Associates and Veterinary Medical Specialists Eighth Annual Symposium, San Jose, April  
The “Complete” Management of the Arthritic Patient - One talk to DVMs, another talk to Vet Techs

NAVC on Campus - Virginia-Maryland Regional College of Veterinary Medicine, March  
Physical Rehabilitation in Small Animals

DC Academy of Veterinary Medicine, Washington, DC, February

Why Physical Rehabilitation  
Basic Physical Rehabilitation  
Therapeutic Exercises  
Aquatic Exercises  
Outcome Assessment  
Rehabilitation Cases

Mississippi Veterinary Medical Association Winter Meeting, Starkville, MS, Feb

Basic Techniques of Physical Rehabilitation and Why to Use Them  
Thermotherapy, Cryotherapy, ROM, Stretching, Limb Use Exercises  
Intermediate Techniques of Physical Rehabilitation  
Proprioceptive exercises, strengthening exercises  
Aquatic Therapy  
Advanced Modalities  
Therapeutic ultrasound, neuromuscular electrical stimulation, laser, extracorporeal shockwave treatment

Charlottesville Veterinary Association, January  
Managing Osteoarthritis

Novartis Sales Meeting, Dallas, Jan  
NSAIDs, DMOADs and Efficacy in the Management of Osteoarthritis

North American Veterinary Conference, Orlando, Jan  
Meet the Professor Luncheon - Physical Rehabilitation - When and How?  
Physical Rehabilitation All Day Wet Lab

2006

Wisconsin Veterinary Medical Association Annual Meeting, Madison, Wisconsin, Oct  
Why Physical rehabilitation?  
Basic Rehabilitation Techniques  
Therapeutic and Aquatic Exercises  
Rehabilitation Case Studies: Putting It All Together

American College of Veterinary Surgeons Veterinary Symposium, Washington, DC. October  
ROM, Stretching, Hot, and Cold  
Biomechanics of Therapeutic Exercise  
Aquatic Exercise

Albany, NY, Sept 12  
A Multimodal Approach to Treating Osteoarthritis

St Louis, November 3  
Washington, DC, August 29  
Kansas City, May 16  
Evaluating Multimodal Treatments for Osteoarthritis

Alabama Veterinary Medical Association, Orange Beach, Alabama, June 29  
Surgery for Cruciate Ligament Ruptures-What's Best?  
How to Keep Luxating Patellas from Re-Luxating  
Why Physical Rehabilitation?  
Therapeutic and Aquatic Exercises  
Physical Therapy Lab

Syracuse Academy of Veterinary Medicine, Syracuse, NY, June  
Basic Physical Rehabilitation  
Managing Arthritis with Pills from A to Z  
Treating Osteoarthritis without NSAIDs

Williamsburg, VA, April 22  
DMOAD Study  
Comparative Efficacy of NSAIDs

Oregon Physical Therapy Association, Portland, Oregon, March  
Introduction and Legal Issues  
Anatomical Differences Between Dogs and Humans  
Common Orthopedic Conditions in Dogs  
Common Neurologic Conditions in Dogs  
Canine Behavior (How not to get bitten)  
What is Known About Canine Physical Rehabilitation  
Therapeutic Exercises  
Aquatic Therapy  
Rehabilitation of the Orthopedic Patient  
Rehabilitation of the Neurologic Patient

Central Veterinary Conference, Kansas City, MO, Aug 26  
The Novartis New England Osteoarthritis Symposium, Boston and Hartford, June  
AVMA, Honolulu, July 15 ACVIM, Louisville, KY, June  
Maui, May

Houston, March 22

AAHA, Long Beach, CA, March 14

Western States Veterinary Conference, Las Vegas, February 23  
NSAIDs and DMOADs and Efficacy for the Management of Osteoarthritis

West Virginia Veterinary Medical Association, Greenbriar, West Virginia, February  
Why Physical Rehabilitation?  
ROM, Stretching, Cold, Heat  
The Science of Therapeutic Exercises

North American Veterinary Conference, Orlando, January  
Conditioning and Range of Motion Exercises in the Arthritic Dog  
Perioperative and Chronic Pain Management in the Dog  
Physiotherapy lab, all day session, coordinator and instructor

2005

American College of Veterinary Surgeons Veterinary Symposium, San Diego, Oct 28-29  
Nonsurgical Management of Shoulder and Elbow Conditions  
Nonsurgical Management of Hip Dysplasia

New England Veterinary Conference, Mt Snow, Vermont, September  
Why Physical Rehabilitation?  
Getting the Patient Moving - Heat, cold, range of motion, stretching, massage  
The Science of Therapeutic Exercises  
Aquatic Exercise, Therapeutic Ultrasound, Extracorporeal Shockwave Treatment, Neuromuscular Electrical Stimulation  
Orthopedic Rehabilitation Cases  
What do I Need to Get Started? (Including outcome assessment)  
4 hour Laboratory  
Patient evaluation and assessment, including goniometry and limb circumference  
Range of motion, stretching, and joint mobilization techniques  
Therapeutic Exercises  
Therapeutic ultrasound and neuromuscular electrical stimulation  
6 hours of Lectures to Veterinary Technicians  
Why is Physical Rehabilitation Beneficial and When Should it be Used?  
Common Modalities Used in Physical Rehabilitation  
Application and Use of Advanced Modalities  
Therapeutic and Aquatic Exercises  
Physical Rehabilitation Protocols and Case Examples  
Assessing Patient Progress

Pennsylvania Veterinary Medical Association, Harrisburg, PA, August  
Managing Arthritis with Pills from A to Z  
Managing Osteoarthritis with Physical Agents  
Nutritional Management of Osteoarthritis  
Why Physical Rehabilitation?  
Modalities Used in Physical Rehabilitation  
The Science of Therapeutic Exercise

American College of Veterinary Surgeons Diplomate Meeting, Mt Washington, NH, July  
Physical Rehabilitation Techniques and Practices

American College of Veterinary Surgeons Veterinary Symposium, San Diego, October  
Nonsurgical Management of Canine Hip Dysplasia  
Nonsurgical Management of Shoulder and Elbow Conditions

American College of Veterinary Internal Medicine Annual Meeting, Baltimore, June  
Use It or Lose It - Responses of Tissues to Disuse and Remobilization  
Basic Physical Rehabilitation  
Advanced Physical Rehabilitation

## Treating Osteoarthritis without NSAIDS

Red Bank and Oradell Veterinary Hospitals, New Jersey, May

Why Physical Rehabilitation?

Therapeutic and Aquatic Exercises

Proprioceptive Exercises

American Animal Hospital Association Annual Meeting, Baltimore, March

Adjunctive Treatment for Osteoarthritis

Harrisburg Veterinary Medical Association, Harrisburg, PA, March

Prescribing More Play

Western States Veterinary Conference, Las Vegas, February

Adjunctive Treatment for Osteoarthritis

Pennsylvania Veterinary Conference, Philadelphia, PA, February

Why Physical Rehabilitation?

Basic Rehabilitation Modalities - Heat, cold, range of motion, stretching

Proprioceptive Exercises and the Science Behind Them

Therapeutic and Aquatic Exercises - The Science and Practical Applications

Advanced Modalities in Veterinary Rehabilitation - Therapeutic Ultrasound, Extracorporeal Shockwave Treatment,  
Neuromuscular Electrical Stimulation

Nutraceuticals in chronic pain management

Minnesota Veterinary Medical Association, Minneapolis, January

Responses of Tissues to Disuse and Remobilization

Range of Motion, Stretching, Cold and Heat

The Science of Therapeutic Exercises

Aquatic Therapy

Neuromuscular Electrical Stimulation and Therapeutic Ultrasound

Rehabilitation Protocols for Orthopedic Conditions

North American Veterinary Conference, Orlando, FL, January

Osteoarthritis from A to Z Master Class

Physical Therapy for Pain Relief in Canine Osteoarthritis

Physical Therapy Techniques I and II

2004

Atlantic Coast Veterinary Conference, Atlantic City, NJ, October

Adjunctive Treatment for Canine Osteoarthritis

Wild West Veterinary Conference, Reno, NV, October

Adjunctive Treatment for Canine Osteoarthritis

Pain Management

Physical Rehabilitation for Osteoarthritis

Southwest Veterinary Conference, Fort Worth, TX, September

Assessing the Rehabilitation Patient

PostOperative Pain Management

Electrical Stimulation and Therapeutic Ultrasound

The Science of Therapeutic Exercises

Introduction to Small Animal Rehabilitation

Therapeutic Exercises and Protocol Development

Modalities Used in Physical Rehabilitation

Why Physical Rehabilitation?

Central Veterinary Conference, Kansas City, MO, August

Canine Gait Analysis

Forelimb Fracture Repair

Physical Rehabilitation  
Carpal and Digit Conditions  
Managing Arthritis  
Shoulder and Elbow Conditions

Southeast Veterinary Conference, Myrtle Beach, SC, June  
Adjunctive Treatment for Canine Osteoarthritis

Symposium of the Student American Veterinary Medical Association, Knoxville, TN, March  
Small Animal Physical Therapy  
Management of Chronic Osteoarthritis

American Animal Hospital Association Annual Meeting , Tampa, FL, March  
Diagnosing Difficult (and Easy) Lamenesses  
Carpal, Tarsal, and Digit Conditions  
Hip Conditions  
Canine Physical Rehabilitation Lectures and Laboratories

Pet's Choice Meeting, Tempe, AZ, March  
New Treatments for Osteoarthritis

Western States Veterinary Conference, Las Vegas, NV, February  
What's New in Osteoarthritis  
No Excuse for Pain  
Extracorporeal Shock Wave Treatment

Indiana Veterinary Medical Association Annual Meeting, Indianapolis, IN, January  
Research Update on Canine Physical Therapy

North American Veterinary Conference, Orlando, FL, January  
New Treatments for Osteoarthritis  
Rehabilitation of the Sporting Dog  
Canine Physical Rehabilitation Lectures and Laboratories

Canine Veterinary Rehabilitation Certificate Short Courses  
Vet II July 11-13, Knoxville  
PT II May 14-16, Boston  
Vet III July 15-17, Knoxville  
Vet and PT IV, April 24-25, July 18-19, Knoxville  
Vet and PT V, January 10-11, San Francisco; July 20-21, Knoxville; August 14-15, San Diego  
Vet and PT VII, June 26-27, December 11-12, Knoxville

2003

American College of Veterinary Surgeons Pet Owner's Seminar, Washington, DC, October 11  
Rehab, One Key to a Better Life for Your Pet

American College of Veterinary Surgeons Veterinary Symposium, Washington, DC, October 12  
Rehabilitation of Sporting Dogs

American Association of Veterinary State Boards Annual Delegate Assembly, Annual Meeting of the American Veterinary Medical Association, Denver, CO  
Collaborative Practice

Peter Piper Veterinary Conference, Sanibel Island, FL  
Non-Steroidal Anti-Inflammatory Drugs - Newer Uses for Some New Drugs

Chronic and Orthopedic Pain Control -- Ensuring Long-term Comfort  
American College of Veterinary Surgeons Veterinary Symposium  
Washington, DC, October  
Southwest Veterinary Conference

Dallas, September  
Annual Meeting of the American Veterinary Medical Association  
Denver, CO July  
North Carolina Veterinary Medical Association Annual Meeting  
Myrtle Beach, SC, June  
Veterinary Orthopedic Society  
Steamboat Springs, CO, Feb  
Western Veterinary Conference  
Las Vegas, Feb

Iams Breeders' Symposium Series, Westminster Dog Show, New York, New York, Feb 8  
Houston International Dog Show, Houston, July  
Joint and Leg Problems in Growing Show Dogs

North American Veterinary Conference, Orlando, Jan 20  
New Advances in Pain Management

Louisville Veterinary Medical Association, Louisville, KY, Jan 15  
COX-2 Inhibition and Pain Management - What's the Buzz?

Colorado State University Annual Veterinary Conference, Fort Collins, CO, Jan 11  
Veterinary Physical Rehabilitation - 6 hrs of presentations

Canine Veterinary Rehabilitation Certificate Short Courses

Intro PT Course, Newark, NJ  
Vet II - Feb 21-23, Knoxville; July 8-10, Knoxville; November 7-9, Knoxville  
PT II - July 8-10, Knoxville  
Vet III - July 11-13, Knoxville  
PT III - April 25-27, Atlanta  
Vet and PT IV, July 14-15, Knoxville  
Vet and PT V, May 3-4, Detroit; July 16-17, Knoxville, September 20-21, Philadelphia  
Vet and PT VII, June 20-22, Knoxville; December 5-7, Knoxville

2002

American College of Veterinary Surgeons Veterinary Symposium, San Diego, October  
Rehabilitation of Neurological Patients  
Rehabilitation of Orthopedic Patients

Annual Meeting of the American Veterinary Medical Association, Nashville, TN, July 14  
Introduction to Small Animal Veterinary Physical Rehabilitation

Charlotte Regional Veterinary Medical Association, Charlotte, NC, Dec 11  
Coxibs, NSAIDS, and the Pain of Osteoarthritis

Challenge of the Champions Dog Show Iams Breeders' Symposium Series, Orlando, FL, Dec 10  
Joint and Leg Problems in Growing Show Dogs

Atlantic Coast Veterinary Conference, Atlantic City, NJ, September  
Introduction to Small Animal Physical Rehabilitation  
Therapeutic and Aquatic Exercises  
Neuromuscular Electrical Stimulation and Therapeutic Ultrasound

Canine Veterinary Rehabilitation Certificate Short Courses

Intro PT Course, April 20-21, Omaha, NE; June 22-23, Kalamazoo, MI; November 16-17, Tallahassee, FL  
Vet II Feb 15-17, Knoxville  
PT II August 15-17, Knoxville  
Vet III April 26-28, Knoxville; October 11-13, Knoxville  
PT III, May 17-19, Boston; November 1-3, Sturbridge, CT  
Vet and PT IV, May 4-5, Minneapolis; June 15-16, San Francisco  
Vet and PT V, September 14-15, Chapel Hill, NC



Harris County Veterinary Medical Association, Houston, TX, March 14  
Canine Physical Rehabilitation  
Music City Veterinary Conference, Nashville, TN, Feb 24  
Veterinary Physical Therapy

North American Veterinary Conference, Orlando, FL, January 2002  
Canine Physical Rehabilitation Masterclass and Wet Lab

Buffalo Academy of Veterinary Medicine, January 3  
Canine Physical Rehabilitation

2001

American College of Veterinary Surgeons Veterinary Symposium, Chicago, October  
Physical Rehabilitation in Osteoarthritis  
Principles and Modalities of Physical Therapy  
Case-based Postoperative Management of Joint Surgery - Treatment Protocols

Veterinary Orthopedic Society, Lake Louise, Alberta, Canada, February 25-March 2  
Physiotherapy - Therapeutic Exercises for Arthritis and Joint Surgery  
Assessing and Prescribing for the Rehabilitation Patient - Part I  
Assessing and Prescribing for the Rehabilitation Patient - Part II

UTCVM Continuing Education Seminar, Knoxville, TN, December 5  
Canine Arthroscopy

Chattanooga Veterinary Medical Association, December 2  
Canine Physical Rehabilitation

Tri-Cities Veterinary Medical Association, September 16  
Canine Physical Rehabilitation

University of Tennessee College of Veterinary Medicine, June 1-3  
Canine Physical Therapy Short Course and Wet Lab

Veterinary Professional Quest Conference, Alta, Utah, April 3-7  
Canine Physical Therapy  
Update on Small Animal Orthopedics

Oregon Physical Therapy Conference, March 9-11  
Canine Physical Therapy

Minnesota Veterinary Medical Association Annual Conference, Bloomington, MN, February 1  
Responses of Musculoskeletal Tissues to Disuse and Remobilization  
Heat, Cold, Range of Motion, and Massage  
Neuromuscular Electrical Stimulation and Therapeutic Ultrasound  
Therapeutic and Aquatic Exercises  
Rehabilitation Protocol Development and Assessing Outcomes  
Physical Rehabilitation Case Studies

Michigan Veterinary Conference, Lansing, MI, January 26  
Responses of Musculoskeletal Tissues to Disuse and Remobilization  
Heat, Cold, Range of Motion, and Massage  
Neuromuscular Electrical Stimulation and Therapeutic Ultrasound  
Therapeutic and Aquatic Exercises  
Rehabilitation Protocol Development and Assessing Outcomes  
Physical Rehabilitation Case Studies

North American Veterinary Conference, Orlando, FL, January  
Canine Physical Rehabilitation  
Physical Rehabilitation for the Arthritic Patient

## Canine Physical Rehabilitation Wet Lab

### Canine Veterinary Rehabilitation Certificate Short Courses

Intro PT Course - Knoxville, TN, September 22-23

PT II - New Hampshire Institute of Technology, Manchester, NH, November 2-4; Knoxville, Tennessee, August 24-26

2000

American College of Veterinary Surgeons Veterinary Symposium, Washington, DC, September

Pathophysiology of Tissue Disuse and Recovery

Therapeutic and Aquatic Exercise

Quail Country Continuing Education Weekend, December 8-10

Selected Topics in Small Animal Orthopedics

American Physical Therapy Association, Knoxville, Tennessee, June 9-11

Canine Physical Therapy Short Course

Veterinary Specialists of the Southeast Continuing Education Weekend, Charleston, SC, May 19-20

Responses of Tissues to Disuse and Remobilization

Rehabilitation of the Cranial Cruciate Ligament Patient

Canine Physical Therapy 1, Denver, Colorado, April 7-8

The Basic Principles

Knoxville Academy of Veterinary Medicine, Knoxville, Tennessee, March 29

Physical Therapy at UT

University of Tennessee College of Veterinary Medicine, Feb 18-20, April 14-16

Canine Physical Therapy Short Course

North American Veterinary Conference, Orlando, FL, January

Fracture/Separation of the Proximal Capital Femoral Epiphysis

What's New in Fracture Repair

Cranial Cruciate Ligament Disease - Surgical and Medical Management

Meet the Professor - Postoperative Rehabilitation

Veterinary Physical Therapy

Feline Orthopedic Conditions

Postoperative Rehabilitation

Carprofen and Etodolac for Postoperative Pain and Inflammation

The Role of NSAID in Managing Pain

How I Manage Pain in Hip Dysplasia

1999

American College of Veterinary Surgeons Veterinary Symposium, San Francisco, October

Physical Rehabilitation

Fractures of the Forelimbs

Diagnosis and Management of DIC--What's New?

Fall Conference for Veterinary Technicians, Tennessee Veterinary Technicians Association, Gatlinburg, TN, Oct 16

Canine Physical Therapy

Asheville Veterinary Medical Society, Asheville, NC, July 15

Physical Therapy of Small Animals

American Physical Therapy Association, University of Tennessee College of Veterinary Medicine, Knoxville, Tennessee, June 18-20

Canine Physical Therapy I Short Course and Wet Lab

1998

American College of Veterinary Surgeons Veterinary Symposium, Chicago, October  
Interlocking nails - when they worked and when they didn't

Veterinary Continuing Education, University of Tennessee, December 2  
Post Operative Rehabilitation

Appalachian Branch of the American Association for Laboratory Animal Science, Winter Quarter Meeting  
University of Tennessee, January 30  
Orthopedic Research

1997

American College of Veterinary Surgeons Veterinary Symposium, Orlando, FL, October  
Complicated Femoral Fractures.

University of Tennessee Annual Conference for Veterinarians, Knoxville, Tennessee, February 2  
Feline Joint Diseases  
Update on Carprofen

American College of Veterinary Surgeons Veterinary Symposium, San Francisco, October  
Clinical Experience with Derotational Femoral Osteotomy

American Physical Therapy Association Scientific Meeting and Exposition, Minneapolis, Minnesota, June  
Physical Therapy in Veterinary Medicine

1996

University of Tennessee College of Veterinary Medicine, Knoxville, Tennessee, September 13  
Luxating Patella Short Course and Wet Lab

University of Tennessee Continuing Education Program for The Japanese Animal Hospital Association, Knoxville, Tennessee,  
March 7  
Force Plate Gait Analysis

1995

American College of Veterinary Surgeons Veterinary Symposium, Chicago, October  
Feline Joint Problems

University of Tennessee College of Veterinary Medicine, Knoxville, Tennessee, April 21-22  
Canine Cranial Cruciate Ligament Short Course and Wet Lab, Course Leader

1994

American College of Veterinary Surgeons Veterinary Symposium, Washington DC, October  
Peritonitis and Peritoneal Drainage: New Developments.  
Coagulopathies Associated with Surgical Conditions

University of Tennessee Veterinary Continuing Education Program, Knoxville, Tennessee, November  
The Bleeding Patient - How to control Intraoperative Hemorrhage

East Tennessee Veterinary Medical Association Annual Meeting, Gatlinburg, Tennessee, October  
Partial Rupture of the Cranial Cruciate Ligament  
Degenerative Joint Disease - New Approach to an "Old Age" Problem  
Fracture Fixation - How to Avoid Treatment Failure  
Luxating Patellas - How to Achieve Successful Results  
Hip Dysplasia - When to Refer

1993

Veterinary Continuing Education Program, University of Tennessee, Knoxville, Tennessee, December  
External Fixators in Small Animal Orthopedics

Jackson Veterinary Medical Association, Jackson, MS, May  
Gastric Dilatation-Volvulus

1992

Mississippi State and Auburn University Continuing Education Weekend, Mississippi State University, Starkville, Mississippi, October

Disorders of Coagulation

Tuscaloosa Veterinary Medical Association, Tuscaloosa, AL, March

Plastic and Reconstructive Surgery

Winter Meeting of the Mississippi Veterinary Medical Association, Starkville, MS, February

Gastric Dilatation-Volvulus

1990

Michigan State University, October

Surgery in Pet Rabbits

Michigan State University, June

Disease Conditions Affecting Bone Healing

Western Michigan Veterinary Medical Association, Grand Rapids, MI, January

Forces Affecting Fracture Fixation

1989

Michigan State University, November

Orthopedic Conditions of the Carpus and Digits

Michigan State University, February

Surgical Considerations in Gastrointestinal Neoplasia

1988

Livingston County Veterinary Medical Association, Brighton, MI, November

Gastric Dilatation-Volvulus and the Use of the Muscular Flap Gastropexy

Michigan State University, November

Peripheral Nerve Surgery