

# Kristin Kirkby Shaw DVM, MS, PhD, CCRT Diplomate ACVS & ACVSMR

## CURRENT POSITIONS:

### Founder/Owner

Canine Arthritis Resources and Education  
[www.caninearthritis.org](http://www.caninearthritis.org)

### Small Animal Surgeon and Managing Partner

Animal Surgical and Orthopedic Center  
Shoreline, WA

### Medical Director

Sound Veterinary Rehabilitation Center  
Shoreline, WA

## EDUCATION:

2012

### Doctor of Philosophy

Dissertation: *The effects of low-level laser therapy on intestinal ischemia-reperfusion.*  
University of Florida, Gainesville, FL

2006

### Masters of Science

Thesis: *Effects of intravenously administered bilirubin on renal ischemia reperfusion injury*  
University of Florida, Gainesville, FL

2003

### Doctor of Veterinary Medicine (*Magna Cum Laude*)

University of Florida, Gainesville, FL

2000

### Bachelors of Science

University of Florida, Gainesville, FL

## CERTIFICATIONS:

2013

### Diplomate American College of Veterinary Sports Medicine and Rehabilitation

2009

### Diplomate American College of Veterinary Surgery- Small Animal

2008

### Certified Canine Rehabilitation Therapist Canine Rehabilitation Institute

## SCIENTIFIC PRESENTATIONS:

[American College of Veterinary Surgeons Annual Symposium](#)

- 2017 “Rehabilitation post-CCL surgery: Where is the evidence?”
- 2017 “The future in wound management is here”
- 2017 Panel Discussion: “Post-operative analgesia and Nocita”
- 2016 “Update on cellular mechanisms of shock wave therapy”
- 2016 Panel Discussion: “Clinical experience with shock wave therapy”
- 2016 “The effects of gonadectomy on orthopedic disease and neoplasia”
- 2015 “Rehabilitation for medial compartment disease of the elbow”
- 2015 Panel Discussion: “What is the role of rehab for CCL disease?”
- 2015 “The next generation in pain management: Introduction to the piprant class of therapeutics”
- 2014 “Laser therapy: Where is the evidence?”
- 2010 “Which modality for my patient? An evidence based medicine approach”
- 2009 “I know rehab measures up, but how do I measure rehab?”
- 2006 “Effects of intravenously administered bilirubin on renal ischemia reperfusion injury, *in vivo*”

Veterinary Society for Surgical Oncology

- 2016 “New analgesics for surgical oncology patients”

VET Festival, Losely Park, Surrey, UK

- 2016 “Team approach to therapeutic modalities”
- 2016 “Laser, shock wave and the rest. Or just rest?”
- 2016 “Rehabilitation principles for canine athletes”
- 2016 “Rehabilitation principles for neurologic patients”

World Veterinary Orthopedic Congress/ Veterinary Orthopedic Society, Breckinridge, CO

- 2019 “Physiologic principles for rehabilitation following CCL surgery”
- 2014 “Veterinary rehabilitation: Where is the evidence?”
- 2014 Invited panelist: Tendinopathies in veterinary patients

- 2014           Invited panelist: Diagnosis and treatment of shoulder disorders  
European Society of Veterinary Orthopaedics and Traumatology Congress, Venice, Italy
- 2014           “Introduction to veterinary rehabilitation”
- 2014           “Veterinary rehabilitation: Where is the evidence?”  
European Society of Veterinary Orthopaedics and Traumatology Congress, Bologna, Italy
- 2012           “Therapeutic modalities: An EBM approach”
- 2012           “Rehabilitation of canine sporting injuries”
- 2012           “Non-surgical management of canine hip dysplasia”  
World Small Animal Veterinary Association, Auckland, New Zealand
- 2013           “Elbow disorders in dogs and cats: Clinical syndromes and diagnosis”
- 2013           “Elbow disorders in dogs and cats: Methods of treatment”
- 2013           “Shoulder disorders in dogs and cats”
- 2013           “Medial shoulder instability: Tips for diagnosis and treatment”
- 2013           “How I treat cruciate disease in small dogs”  
North American Veterinary Conference/ VMX
- 2018           “Tales from the trenches: A team approach to diagnosing and managing OA”
- 2018           “‘The 3 R’s of the CCL: Repair, Rehab and Research”
- 2018           Panel Discussion: Post-operative use of Nocita
- 2017           “New rules in management of osteoarthritis”
- 2017           “Wound healing: Optimizing outcomes and avoiding disasters”
- 2016           “Rehabilitation techniques for elbow disease”
- 2016           “Do’s and don’ts of managing DJD”
- 2015           “Evidence based pain management”
- 2014           “Diagnosis and treatment of shoulder disorders in canine athletes”
- 2014           “‘How can physical rehabilitation improve animal welfare?”

- 2013 “Getting it published: How to conduct research in practice”
- 2013 “Distal limb injuries in canine athletes”
- 2012 “Beyond R& R: Shock wave therapy for tendinopathies”
- 2012 “Assessing the trauma patient: When is surgery indicated?”
- 2012 “Localize the lesion: Differentiating orthopedic and neurologic disease”
- 2012 “Cancer vs. Cruciate: A new view on spay/ neuter?”
- 2011 “Cartilage protection for the canine athlete”
- 2011 “Non-surgical management of hip dysplasia”
- 2011 “Laser therapy in veterinary medicine”
- 2011 “Rehabilitation for geriatric and oncologic patients”
- 2011 “Rehabilitation for ICU patients”
- 2010 “Extracorporeal shockwave therapy: Reviewing the science and applications”
- 2010 “The role of rehabilitation in orthopedic surgery”
- 2010 “Vacuum-assisted wound closure for traumatic wounds”

Western Veterinary Conference

- 2018 “Tales from the trenches: A team approach to diagnosing and managing OA”
- 2017 “New rules in managing osteoarthritis”

American Veterinary Medical Association Annual Convention

- 2014 “Adjunctive therapies for canine sporting injuries”
- 2014 “Surgical and rehabilitation principles for CCL disease”
- 2014 “Surgical and rehabilitation principles for Achilles injuries”
- 2014 “Surgical and rehabilitation principles for carpal injuries”
- 2014 “Surgical and rehabilitation principles for digit injuries”
- 2014 “The comprehensive orthopedic exam”
- 2014 “Practice tip: How I diagnose MSI”

- 2012 “Advanced diagnostics for sporting injuries”
- 2012 “Maintaining joint health in canine athletes”
- 2012 “Regenerative cellular medicine for canine athletes”
- 2012 “Foot injuries in canine athletes”
- 2012 “Rehabilitation of canine distal limb injuries”
- 2012 “Rehabilitation of canine sporting injuries”
- 2012 “Inside the issues: Why rehab for my post-operative cruciate patients?”
- 2012 “Easy rehab techniques you can do in your practice”

International Association of Rehabilitation Veterinarians and Physical Therapists

- 2014 “Lasers in veterinary rehabilitation: Where is the evidence?”
- 2014 “Therapeutic exercises: 3 steps to success”
- 2010 “Research in the clinical setting”
- 2009 “Multi-modal management of canine osteoarthritis” sponsored by Novartis Animal Health

American College of Veterinary Internal Medicine Annual Forum

- 2015 “Introduction to the piprant class of therapeutics”
- 2012 “How can physical rehabilitation help my patient?”
- 2012 “Therapeutic lasers in veterinary medicine”

Symposium on Therapeutic Advancements in Animal Rehabilitation (STAAR), Newark, NJ

- 2015 “Evidence based pain management”
- 2015 “Outcome measures in veterinary rehabilitation: 4 hour workshop”
- 2015 “Designing, conducting, and publishing clinical trials: 4 hour workshop”
- 2014 “An evidence based approach to veterinary rehabilitation”

Washington State Veterinary Medical Association

- 2016 “Introduction to veterinary rehabilitation”

- 2014 “Veterinary rehabilitation: A team approach”
- 2014 “Rehabilitation for geriatric and oncologic patients”
- 2014 “Rehabilitation for hip and stifle conditions”
- 2014 “Rehabilitation for cats”

Portland Veterinary Medical Association

- 2017 “Advances in management of osteoarthritis”

Inland Empire Veterinary Medical Association Annual Meeting, Schweitzer, ID

- 2014 “Introduction to canine rehabilitation”
- 2014 “The comprehensive orthopedic examination”
- 2014 “Therapeutic modalities”
- 2014 “Rehabilitation for hip and stifle conditions”
- 2014 “Rehabilitation for forelimb disorders”
- 2014 “Rehabilitation for canine athletes”
- 2014 “Rehabilitation for geriatric and oncologic patients”
- 2014 “Rehabilitation for cats”

Florida Veterinary Medical Association Annual Meeting

- 2010 “New and old techniques in wound management”
- 2010 “Incorporating rehabilitation therapy into small animal practice”
- 2010 “Multi-modal management of degenerative joint disease”
- 2010 “Therapeutic lasers in veterinary medicine”
- 2010 “Vacuum-assisted wound closure”
- 2010 “Update on porto-systemic shunts”

**TEACHING RESPONSIBILITIES:**

2011-Present Canine Rehabilitation Institute:

Primary Faculty: Introduction to Canine Rehabilitation Module

Primary Faculty: Canine Rehabilitation Assistant/ Veterinary Nursing Module

Primary Faculty: Multi-modal Approach to the Geriatric Rehabilitation Patient

2019 Veterinary Orthopedic Society Laboratory:  
Needle Arthroscopy and Intra-articular Therapies

2012-2015 Washington State University College of Veterinary Medicine  
Invited Lecturer: Introduction to Veterinary Rehabilitation

2011 NAVC Master Class  
Challenging Rehab Cases

2010 NAVC Stem Cell Therapy Boot Camp  
Physical Therapy Techniques for the Stem Cell Patient

**LEADERSHIP:**

2015 President  
American Association of Rehabilitation Veterinarians

2013- 2015 ACVSMR Residency Credentialing Committee

2014- 2015 Vice President  
Seattle Pet Project

2011- 2013 Industrial Liaison  
American Association of Rehabilitation Veterinarians

2010- 2016 Co-Chair  
International Canine Sports Medicine Symposium

2010- 2011 Internship Director  
Seattle Veterinary Specialists

**MEMBERSHIP:**

2014-Present Veterinary Orthopedic Society

2013- Present	International Veterinary Academy of Pain Management
2010- Present	Washington State Veterinary Medical Association
2009-Present	American Association of Rehabilitation Veterinarians
2003- Present	American Veterinary Medical Association

#### **SCHOLARSHIPS & AWARDS:**

2018	John J. Sherman Award for Excellence in Veterinary Rehabilitation
2012	Mark Bloomberg Distinguished Lecturer, 28 <sup>th</sup> Annual International Canine Sports Medicine Symposium
2010	Outstanding Young Alumni Award, University of Florida
2010	James H. Yarborough Distinguished Lecturer, 26 <sup>th</sup> Annual International Canine Sports Medicine Symposium

#### **ORIGINAL PUBLICATIONS:**

1. **Shaw KK**, Alvarez L, Foster SA, Tomlinson JE, Shaw AJ, Pozzi A. Fundamental Principles of Rehabilitation and Musculoskeletal Tissue Healing. Accepted to Vet Surg May 2019.
2. Eiermann J, **Shaw KK**, Evans R, Kowaleski M, Schmierer P, Bergh MS, Cuddy L, Bleedhorn J, Kieves N, Lotsikas P, Pozzi A. Postoperative rehabilitation protocols following cranial cruciate ligament surgery in dogs: A 2017 survey of veterinary practitioners. Submitted to Vet Surg Oct 2018.
3. **Shaw KK**. Physical rehabilitation for canine patients post cranial cruciate ligament surgery. Companion Animal 2017.
4. Lascelles BDX, **Shaw KK**. An extended release local anaesthetic: potential for future use in veterinary surgical patients? Vet Med Sci, 2016.
5. Leeman JJ, **Shaw KK**, Mison MB, Perry JA, Carr A, Shultz R. Extracorporeal shockwave therapy and therapeutic exercise for supraspinatus and biceps tendinopathies in 29 dogs. Vet Rec 2016.
6. **Shaw KK**. 5 Essential Therapeutic Exercises for Dogs With Osteoarthritis. Vet Team Brief. <http://www.veterinaryteambrief.com/article/5-essential-therapeutic-exercises-dogs-osteoarthritis>. Oct 2015.
7. **Shaw KK**, Rausch-Derra LC, Rhodes L. Grapiprant: an EP4 prostaglandin receptor antagonist and novel therapy for pain and inflammation. Vet Med Sci, 2015.



8. Powers D, **Shaw KK**. Distinguishing Musculoskeletal from Neurologic Disease. Clinician's Brief. March, 2015.
9. Coleman KD, **Kirkby KA**, Lascelles BDX, Erikson M, Robertson SA. Learning confounds algometric assessment of mechanical thresholds in normal dogs Vet Surg 43(3):361-367, 2014.
10. **Kirkby KA**. Shockwave therapy as a treatment option for small animal patients. Clinician's Brief 11(8):51-53, 2013.
11. **Kirkby KA**, Freeman D, Morton A, Ellison GW, Alleman R, Borsa P, Reinhardt M, Robertson S. The effects of low-level laser therapy on intestinal ischemia-reperfusion injury in the rat. Lasers Surg Med, 44:580-587, 2012.
12. **Kirkby KA**, Lewis DD. Canine hip dysplasia: Reviewing the evidence for non-surgical management. Vet Surg 41:2-9, 2012.
13. Thieman KM, **Kirkby KA**, Flynn-Lurie A, Grooters AM, Bacon NJ. Computed tomographic examination of truncal cutaneous pythiosis followed by complete excision in a dog. J Am Vet Med Assoc Nov 1;239(9):1232-5, 2011.
14. **Kirkby KA**, Cole G. Spinal arthritis in dogs. Clinician's Brief. June 2010.
15. **Kirkby KA**, Wheeler JL, Farese JP, Bacon NJ, Ellison GW, Sereda CW, Lewis DD. Vacuum-assisted closure Part II: Clinical applications in dogs and cats. Compend Cont Ed Pract Vet, March 5, 2010.
16. **Kirkby KA**, Wheeler JL, Farese JP, Bacon, NJ, Ellison GW, Sereda CW, Lewis DD. Vacuum-assisted closure Part I: Technique of application and mechanisms of action. Compend Cont Ed Pract Vet (Small Anim) 31(12), December 2009.
17. Sereda CW, Lewis DD, Radasch RM, Bruce CW, **Kirkby K**. Antebrachial growth deformity correction using hybrid linear-circular external fixator constructs. Can Vet J 50: 723-732, 2009.
18. Coleman KD, Lurie DM, Blaik MA, Demuth G, **Kirkby K**. What is your diagnosis? Histiocytic sarcoma. J Am Vet Med Assoc 232(12): 1801-1802, 2008.
19. **Kirkby KA**, Lewis DD, Lafuente PF, Radasch RM, Fitzpatrick N, Farese JF, Wheeler JL. Management of humeral and femoral fractures in dogs and cats with linear-circular hybrid skeletal external fixators. J Am Anim Hosp Assoc 44: 180-197, 2008.
20. **Kirkby K**, Baylis C, Agarwal A, Croker B, Archer L, Adin C. Intravenous bilirubin provides incomplete protection against renal ischemia-reperfusion injury *in vivo*. Am J Physiol Renal Physiol 292: F888-894, 2007.
21. **Kirkby KA**, Adin C. Products of heme oxygenase and their potential therapeutic applications. Am J Physiol Renal Physiol 290: F563-571, 2006.

22. **Kirkby K**, Bright R, Owen H. Paraoesophageal hiatal hernia and megaesophagus in an Alaskan Malamute. *J Small Anim Pract* 46(8): 402-405, 2005.
23. **Kirkby K**, Collins K, Newell S, Ginn P, Lewis D. What is your diagnosis? Calcium crystal deposition disease (chondrocalcinosis). *J Am Vet Med Assoc* 225(9): 1335, 2004.
24. Margadant D, **Kirkby K**, Andrew SE, Gelatt, KN. Effect of topical tropicamide on tear production as measured by Schirmer's tear test in normal dogs and cats. *Vet Ophthalmol* 6(4): 315, 2003.

#### **TEXTBOOK CONTRIBUTING AUTHOR:**

1. **Shaw KK**, Brown L. Modalities Part 2: Laser Therapy. In: Goldberg ME and Tomlinson JE, eds. *Physical Rehabilitation for Veterinary Nurses and Technicians*. Wiley Blackwell; 2017.
2. Canapp SO, **Kirkby K**. Disorders of the canine forelimb: Veterinary diagnosis and treatment. In: Zink MC and Van Dyke JB, eds. *Canine Sports Medicine and Rehabilitation*. Ames, IA: Wiley-Blackwell; 2013.
3. Lotsikas, PJ, Canapp SO, Dyce J, **Kirkby K**, Christopher S, Ridge PA. Disorders of the canine forelimb: Veterinary diagnosis and treatment. In: Zink MC and Van Dyke JB, eds. *Canine Sports Medicine and Rehabilitation*. Ames, IA: Wiley-Blackwell; 2013.
4. *Small Animal Orthopedics, Rheumatology and Musculoskeletal Disorders: Self-Assessment Color Review, Second Edition*. London, UK: CRC Press. Lewis DD and Langley-Hobbs SJ, eds. 2014
5. *Small Animal Soft Tissue Surgery: Self-Assessment Color Review, Second Edition*. London, UK: CRC Press. Mankin KT, ed. 2014