

# Caroline Adamson Adrian

## Curriculum Vitae

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### Education:

Doctorate of Philosophy (canine biomechanics) Colorado State University	2011	Fort Collins, CO
Master of Science in Physical Therapy North Georgia College & State University	1999	Dahlonega, GA
Bachelor of Science in Biology Allegheny College	1994	Meadville, PA

### Employment History:

2011-Present	Veterinary Specialists of Northern Colorado Director, Rehabilitation Services	Loveland, CO
2007-Present	VCA Animal Hospitals Director, Rehabilitation Services	Los Angeles, CA
2000-Present	Alameda East Veterinary Hospital Director, Rehabilitation Services	Denver, CO

### Teaching Experience:

2001-Present	Clinical instructor for veterinarians, physical therapists, veterinary technicians and physical therapist assistants in animal rehabilitation certificate programs (University of Tennessee and Canine Rehabilitation Institute)	
2006-Present	Certified Clinical Instructor for physical therapy students. VCA Alameda East Veterinary Hospital, Denver CO; VCA Veterinary Specialists of Northern Colorado, Fort Collins, CO	
2006 – 2011	Faculty, Boulder College of Massage Therapy, Canine Massage Certification Program. Modules in canine anatomy and pathology, Boulder, CO	
2002 – 2004	Faculty, University of Tennessee Certificate Program in Canine Rehabilitation	

### Memberships in Professional Societies:

American Physical Therapy Association (1996-Present)
Orthopaedic Section Member
Animal Rehabilitation Special Interest Group (1998 – Present)
Vice-President (2007 – 2013)
Chair, Committee on Practice (2004-2007)

Veterinary Orthopedic Society (2002 – Present)

American Canine Sports Medicine Association (2004-Present)

International Association for Veterinary Rehabilitation and Physical Therapy (1999 – Present)

### **Honors and Awards**

Wayne and Nancy McIlwraith Orthopedic Scholarship (2009)

### **Publications:**

#### Peer-Reviewed

Adrian CP, Haussler KK, Kawcak C, Reiser R, Riegger-Krugh C, Palmer RH, McIlwraith CW, Taylor RA. The role of muscle activation in cruciate disease. *Vet Surg* 2013;42(7):765-73.

Adrian CP, Haussler KK, Kawcak C, Reiser R, Palmer R, Riegger-Krugh C, McIlwraith CW, Taylor RA. (2011). Kinetic, kinematic and electromyographic analysis of canine cruciate ligament rupture using a monopolar radiofrequency energy model. (Doctoral dissertation). Retrieved from ProQuest Dissertations and Theses. (Accession Order No. 3468743).

#### Non Peer-Reviewed

Adamson Adrian C. Doing the Dog Paddle: Comparative Aquatic Physical Therapy in Human, Canine and Equine Rehabilitation. American Physical Therapy Association. Combined Sections Meeting. February 8, 2008.

Adamson Adrian C; Wolfe T. Core concept and trends in iliopsoas strains. Sports Medicine Conference Proceedings. Auburn, AL. Jan 2008

Adamson Adrian C; Wolfe T. Core concept and trends in iliopsoas strains. American College of Veterinary Surgeons. Chicago, IL. October 20, 2007.

Adamson C. Maximizing performance of the canine athlete. American College of Veterinary Surgeons. 2006

Adamson C. Orthotics and prosthetics in veterinary medicine. American College of Veterinary Surgeons. 2006

Adamson C. Various Topics in Veterinary Rehabilitation: Kinetics of Weight Loss, Practical Applications of Neurological Rehabilitation, Orthotics and Prosthetics in Veterinary Rehabilitation. Colorado Veterinary Medical Association. 2006

Adamson C, Taylor RA. Correlation of healing and physical therapy. ANFIVET. Brazil 2006

Adamson C, Taylor RA. Equi-Light therapy. ANFIVET. Brazil 2006

Adamson C. Physical therapy in veterinary medicine. Yamazaki College. Tokyo, Japan. 2004

Adamson C, Riegger-Krugh C. A proposed twelve week protocol for the rehabilitation of cranial cruciate ligament injury following tibial plateau leveling osteotomy (TPLO) in dogs. Orthopaedic Physical Therapy Practice. June 2003. Special Issue dedicated to the Animal Physical Therapist Special Interest Group of the Orthopaedic Section.

Adamson C. Conservative treatment of bicipital tendonitis proves successful with rehabilitation. DVM Magazine. August 2003.

### Book Chapters

Applied Canine Biomechanics (Chapter 4). Animal Physiotherapy: Assessment, Treatment and Rehabilitation of Animals. 2<sup>nd</sup> ed (2016).

Conceptual Overview of Physical Therapy, Veterinary Medicine, and Canine Physical Rehabilitation (Chapter 3). Canine Rehabilitation and Physical Therapy. 2nd ed (2013).

Physical Rehabilitation for the Veterinary Technician (Chapter 25). McCurnin's Clinical Textbook for Veterinary Technicians. 7<sup>th</sup> ed (2009).

Emerging Modalities in Veterinary Rehabilitation (Chapter 5). Veterinary Clinics of North America: Small Animal Practice (2005).

Assistive Devices, Orthotics and Prosthetics (Chapter 10). Veterinary Clinics of North America: Small Animal Practice (2005).

Logistics of Companion Animal Rehabilitation (Chapter 12). Veterinary Clinics of North America: Small Animal Practice (2005).

Conceptual Overview of Physical Therapy, Veterinary Medicine, and Canine Physical Rehabilitation (Chapter 3). Canine Rehabilitation and Physical Therapy. 1<sup>st</sup> ed (2004).

Physical Rehabilitation for Geriatric and Arthritic Patients (Chapter 24). Canine Rehabilitation and Physical Therapy. 1<sup>st</sup> ed (2004).

Putting It All Together: Principles of Protocol Development (Chapter 25). Canine Rehabilitation and Physical Therapy. 1<sup>st</sup> ed (2004).

### **Scientific and Professional Presentations:**

Muscle Activation in Cruciate Disease. Association of Chartered Physiotherapists in Animal Therapy (ACPAT). Rugby, Warwickshire, England. February 3, 2018.

Common K9 Sports Medicine Conditions and their Rehabilitation. Association of Chartered Physiotherapists in Animal Therapy (ACPAT). Rugby, Warwickshire, England. February 3, 2018.

Introduction to Veterinary Orthotics and Prosthetics. Societa Culturale Italiana Veterinari per Animali de Compagnia (SCIVAC - Italian Small Animal Veterinary Association) and SIFIRVET- Italian Society of Veterinary Physiatrics and Rehabilitation. Cremona, Italy. October 22, 2017.

Orthotics and Prosthetics in Veterinary Medicine. SCIVAC/SIFIRVET. Cremona, Italy. October 22, 2017.

To Brace or Not to Brace. SCIVAC/SIFIRVET. Cremona, Italy. October 22, 2017.

Biomechanics of Bracing. SCIVAC/SIFIRVET. Cremona, Italy. October 22, 2017.

Soft Splints/Supports and Assistive Devices. SCIVAC/SIFIRVET. Cremona, Italy. October 22, 2017.

Veterinary Orthotics and Prosthetics – Case Examples. SCIVAC/SIFIRVET. Cremona, Italy. October 22, 2017.

Basics of Bracing Laboratory (3 hours). SCIVAC (Italian Small Animal Veterinary Association) and SIFIRVET (Italian Society of Veterinary Physiatrics and Rehabilitation). Cremona, Italy. October 21, 2017.

Muscle Activation in Cruciate Disease. International Association of Veterinary Rehabilitation and Physical Therapy. Uppsala, Sweden, August 9, 2016.

Rehabilitation of Soft Tissue Injuries. International Association of Veterinary Rehabilitation and Physical Therapy. Uppsala, Sweden, August 9, 2016.

Rehabilitation of Stifle Dysfunction. International Association of Veterinary Rehabilitation and Physical Therapy. Uppsala, Sweden, August 9, 2016.

Physiotherapeutic Assessment and Treatment of the Stifle. International Association of Veterinary Rehabilitation and Physical Therapy. Uppsala, Sweden, August 8, 2016.

Biomechanics of Canine Movement: Structure vs. Function. Colorado Veterinary Medical Association. Loveland, CO, September 19, 2014.

Biomechanics of Bracing. Understanding the biomechanical principals associated with various orthotics used in canine rehabilitation. Kansas City, MO, August 19, 2014

Biomechanics of Bracing. 4th Annual Symposium on Therapeutic Advances in Animal Rehabilitation (STAAR). Florham Park, New Jersey. June 28-30, 2013.

Biomechanics of Bracing. 3<sup>rd</sup> Annual Symposium on Therapeutic Advances in Animal Rehabilitation (STAAR). Florham Park, New Jersey. May 18-20, 2012.

Conservative Management of the Canine Spine. Societa Culturale Italiana Veterinari per Animali de Compagnia (SCIVAC - Italian Small Animal Veterinary Association). Cremona, Italy. Nov 14-15, 2009.

Principles of Orthopedic Physical Therapy. Societa Culturale Italiana Veterinari per Animali de Compagnia (SCIVAC - Italian Small Animal Veterinary Association). Cremona, Italy. Nov 14-15, 2009.

Manual Therapy. Societa Culturale Italiana Veterinari per Animali de Compagnia (SCIVAC - Italian Small Animal Veterinary Association). Cremona, Italy. Nov 14-15, 2009.

Adrian CP. Rehabilitation Oncology. Societa Culturale Italiana Veterinari per Animali de Compagnia (SCIVAC - Italian Small Animal Veterinary Association). Cremona, Italy. Nov 14-15, 2009.

Treatment of the Neurologic Patient. Societa Culturale Italiana Veterinari per Animali de Compagnia (SCIVAC - Italian Small Animal Veterinary Association). Cremona, Italy. Nov 14-15, 2009.

Maximizing Performance of the Canine Athlete. Societa Culturale Italiana Veterinari per Animali de Compagnia (SCIVAC - Italian Small Animal Veterinary Association). Cremona, Italy. Nov 14-15, 2009.

Core Concepts. Societa Culturale Italiana Veterinari per Animali de Compagnia (SCIVAC - Italian Small Animal Veterinary Association). Cremona, Italy. Nov 14-15, 2009.

Orthotic and Prosthetics in Veterinary Medicine. Societa Culturale Italiana Veterinari per Animali de Compagnia (SCIVAC - Italian Small Animal Veterinary Association). Cremona, Italy. Nov 14-15, 2009.

Core Concepts. Denver Pet Partners, Delta Society. Denver, CO. October 2009.

Rehabilitation in the Cancer Patient: A Comparative Approach. College of Veterinary Medicine Comparative Oncology Program meeting. University of Minnesota. August 12, 2008.

Core Dysfunction and Stabilization: Core Concepts and Trends in Iliopsoas Strains. 14<sup>th</sup> Annual Veterinary Sports Medicine Symposium, Auburn University College of Veterinary Medicine. Auburn, AL. January 25-27, 2008.

Rehabilitation for Core Muscle Dysfunction. American College of Veterinary Surgeons. Chicago, IL. October 20, 2007.

Small Animal Rehabilitation Therapy Pre-Conference Laboratory Course. American College of Veterinary Surgeons. Chicago, IL. October 17, 2007.

Simposio de Fisioterapia Veterinaria Associacao Nacional de Fisioterapia Veterinaria (ANFIVET) Sao Paulo, Brazil. June 9-10, 2007.

Physical Therapy in Veterinary Rehabilitation. Denver Pet Partners, Delta Society. Denver, CO. May 5, 2007.

Who Let the Dogs Out? Therapeutic Exercise With Physioballs, Physiorolls, and Wobble Boards. Combined Sections Meeting of the American Physical Therapy Association. Boston, MA. February 14-18, 2007.

Maximizing Performance of the Canine Athlete. American College of Veterinary Surgeons, Veterinary Technician Program. Washington, DC. October 7, 2006.

Use of Orthotics and Prosthetics in Veterinary Medicine. American College of Veterinary Surgeons, Veterinary Technician Program. Washington, DC. October 7, 2006.

Principles of Physical Therapy. International Sled Dog Veterinary Medical Association. Grand Junction, CO. September 23, 2006.

Orthotics, Prosthetics and Kinematics of Weight Loss. Colorado Veterinary Medical Association. Keystone, CO. September 13, 2006.

Physical Medicine and Rehabilitation in the Veterinary Clinical Setting. Ferno Veterinary Systems. Denver, CO. March 11-12, 2006.

Physical Therapy in Veterinary Rehabilitation. Denver Pet Partners, Delta Society. Denver, CO. April 2, 2005.

Orthotic and Prosthetic Considerations in the Canine Patient: Two Case Reports (Abstract). Veterinary Orthopedic Society. Snowmass, CO. March 5-12, 2005.

Framework for Soundness: Structure, Biomechanics, Movement and Gait Analysis. Buckhorn Valley Kennel Club, Canine Winter Symposium. Fort Collins, CO. January 21-23, 2005.

Physical Therapy, Pre-conference Laboratory. American College of Veterinary Surgeons. Denver, Colorado. October 6, 2004.

Physical Therapy and Veterinary Medicine. Yamazaki College of Animal Health Technology. Tokyo, Japan. October 2004.

Framework for Soundness: Structure, Biomechanics, Movement and Gait Analysis. Buckhorn Valley Kennel Club, Canine Winter Symposium. Fort Collins, CO. January 23-25, 2004.

Canine I – Introduction to Canine Rehabilitation. Northeast Seminars. Seattle, WA. September 27-28, 2003.

Canine Lameness and Rehabilitation Laboratory. American Veterinary Medical Association. Denver, CO. July 20, 2003.

Preliminary Functional Outcomes of Extracorporeal Shockwave Therapy on Ten Dogs with Various Orthopedic Conditions (poster presentation). Veterinary Orthopedic Society. Steamboat, CO. February 22 – March 1, 2003.

Canine I – Introduction to Canine Rehabilitation. Northeast Seminars. Denver, CO. March 8-9, 2003.

Canine I – Introduction to Canine Rehabilitation. Northeast Seminars. Newport Beach, CA. February 1-2, 2003.

Canine I – Introduction to Canine Rehabilitation. Northeast Seminars. Sacramento, CA. January 18-19, 2003.

Introduction to Veterinary Physical Rehabilitation, with Case Studies. Colorado State University 64<sup>th</sup> Annual Conference for Veterinarians. Fort Collins, CO. January 11-13, 2003.

Canine Physical Therapy I – Introduction to Canine Rehabilitation. Northeast Seminars. Tallahassee, FL. November 16-17, 2002.

Canine V – Canine Sports Medicine Injury and Rehabilitation. Northeast Seminars. Denver, CO. October 26-27, 2002.

Rehabilitation of the Stifle Joint Following CCL Surgery and Stabilization. American College of Veterinary Surgery. San Diego, CA. October 17, 2002.

Radiographic Findings in the Use of a Brace to Stabilize One Stifle in a Golden Retriever with Bilateral Cranial Cruciate Ligament: A Case Study (poster presentation). 2<sup>nd</sup> International Symposium on Veterinary Rehabilitation and Physical Therapy. Knoxville, TN. August 12, 2002.

TPLO Surgery and Rehabilitation (roundtable breakfast). 2<sup>nd</sup> International Symposium on Veterinary Rehabilitation and Physical Therapy. Knoxville, TN. August 14, 2002.

Preliminary Functional Outcomes of ESWT on 10 dogs with Various Orthopedic Conditions. 2<sup>nd</sup> International Symposium on Veterinary Rehabilitation and Physical Therapy. Knoxville, TN. August 14, 2002.

How I Rehabilitate CCL Surgery. 2<sup>nd</sup> International Symposium on Veterinary Rehabilitation and Physical Therapy. Knoxville, TN. August 14, 2002.

Stifle Surgery and Rehabilitation. 2<sup>nd</sup> International Symposium on Veterinary Rehabilitation and Physical Therapy. Knoxville, TN. August 12, 2002.

Canine Sports Medicine and Rehabilitation. Alameda East Veterinary Hospital, Veterinary Technician Continuing Education Seminar. Aurora, CO. June 25, 2002.

Aquatic Therapy in Veterinary Medicine. Ferno Veterinary Systems. Cincinnati, OH. March 19, 2002.

Canine I – Introduction to Canine Rehabilitation. Northeast Seminars. Moscow, ID. March 2-3, 2002.

Animal Rehabilitation for the Veterinary Technician. Southwest Veterinary Symposium. Fort Worth, TX. February 10, 2002.

Assembling the Rehabilitation Team. North American Veterinary Conference. Orlando, FL. January 15, 2002.

Outcome Assessment. North American Veterinary Conference. Orlando, FL. January 15, 2002.

Therapeutic Exercise. North American Veterinary Conference. Orlando, FL. January 15, 2002.

What Physical Therapy Can Do For Veterinary Medicine. 1<sup>st</sup> Argentine Conference of Animal Well-Being. Buenos Aires, Argentina. November 7-8, 2001.

Rehabilitation of the Orthopedic Patient. American College of Veterinary Surgeons. Chicago, IL. October 13, 2001.

Animal Physical Therapy – An Emerging Field. Annual Conference and Exposition of the APTA. Anaheim, CA. June 21, 2001.

Canine Physical Therapy I – Introduction to Canine Rehabilitation (pre-conference course). Northeast Seminars. Annual Conference and Exposition of the APTA. Anaheim, CA. June 18-19, 2001.

Physical Therapy in Veterinary Patients. American College of Veterinary Internal Medicine. Denver, CO. May 22, 2001.

Post-Operative Rehabilitation. American College of Veterinary Surgeons. Crystal City, MD. September 21-24, 2000.

Animal Physical Rehabilitation. Colorado Association Certified Veterinary Technicians. Snowmass, CO. September 9, 2000.

Canine Lameness and Physical Therapy (lecture and laboratory). Central Veterinary Conference. Kansas City, MO. August 26-29, 2000.