

## **CURRICULUM VITAE**

David Levine, PT, PhD, DPT, MPH, FAPTA

### Education

Master of Public Health  
The University of Tennessee at Chattanooga  
2022

DPT  
Department of Physical Therapy  
University of Tennessee at Chattanooga  
2008

PhD  
University of Tennessee  
Exercise Science  
1994

Master of Science in Orthopedic Physical Therapy  
Boston University  
Physical Therapy  
1990

Bachelor of Science in Physical Therapy  
University of New England  
1986

### Licensures Information

Tennessee Licensure Number: PT002104

### Certifications

Basic Life Support Certification for Healthcare Providers  
American Red Cross  
2022

Board-Certified Orthopaedic Clinical Specialist, Emeritus  
American Board of Physical Therapy Specialties (#4684)  
2001, 2011 Emeritus Status Awarded in 2021

Dry Needling Certification  
Spinal Manipulation Institute  
2012

Level 1 Credentialed Clinical Instructor  
American Physical Therapy Association  
May 2005, 2021

Certified Canine Rehabilitation Practitioner  
University of Tennessee  
2002

### Employment and Positions Held

Part-time Physical Therapist  
Veterinary Care and Specialty Group  
Chattanooga, TN  
October 2020-present

Co-director Clinical Infectious Disease Control Unit (Microbiology)  
The University of Tennessee at Chattanooga  
Chattanooga, TN  
2017-present

Associate Member of the Allied Health Research Unit  
University of Central Lancashire  
Preston, England  
2015 - Present

Professor and Walter M. Cline Chair of Excellence  
Full Professor, Tenured  
University of Tennessee at Chattanooga  
Chattanooga, TN  
August 2007 - Present

Adjunct Professor (Small Animal Clinical Sciences)  
University of Tennessee College of Veterinary Medicine  
Knoxville, TN  
2001 - Present

Co-Director  
University of Tennessee Certificate Program in Canine Rehabilitation  
Knoxville, TN  
2001 - Present

Legal Consultant/Expert Witness  
Musculoskeletal Physical Therapy (Thermal and Electrical Burns)  
United States

1995 - Present

Physical Therapist  
UTC Student Health Services  
Chattanooga, TN  
2015 - 2018

Adjunct Professor, Department of Clinical Sciences  
North Carolina State University College of Veterinary Medicine  
Raleigh, NC  
2003 - 2018

Distinguished Visiting Professor  
University of Central Lancashire  
Preston, England  
September 2015

Contract Physical Therapist, Outpatient Orthopaedic Team  
Siskin Hospital for Physical Rehabilitation  
Chattanooga, TN  
2007 - 2012

Contract Physical Therapist, Outpatient Orthopaedics  
Employers Health Management Corporation  
Collegedale, TN  
1998 - 2008

Contract Physical Therapist  
Benchmark Physical Therapy  
Signal Mountain, TN  
2004 - 2007

Acting Department Head and Walter M. Cline Chair of Excellence and UC  
Foundation Professor of Physical Therapy  
Full Professor, Tenured  
The University of Tennessee at Chattanooga  
Chattanooga, TN  
August 2006 - August 2007

UC Foundation Professor  
Full Professor, Tenured  
The University of Tennessee at Chattanooga  
Chattanooga, TN  
August 2003 - July 2006

Contract Physical Therapist

Erlanger Medical Center  
Chattanooga, TN  
1998 - 2004

UC Foundation Associate Professor  
Associate Professor, Tenured  
The University of Tennessee at Chattanooga  
Chattanooga, TN  
1997 – 2003

UC Foundation Assistant Professor  
The University of Tennessee at Chattanooga  
Chattanooga, TN  
July 1995 - July 1997

Contract Physical Therapist, Outpatient Orthopaedic Team  
Siskin Hospital for Physical Rehabilitation  
Chattanooga, TN  
1995 - 2002

Contract Physical Therapist  
HealthSouth Spine Rehabilitation Center  
Chattanooga, TN  
September 1990 - 1997

Assistant Professor, Untenured  
The University of Tennessee at Chattanooga  
Chattanooga, TN  
1990 - 1997

UC Foundation Associate Professor  
Associate Professor  
The University of Tennessee at Chattanooga  
Chattanooga, TN  
July 1995 - July 1997

Lab Instructor/Teaching Assistant/Physical Therapist  
Boston University  
Boston, MA  
1989 - 1990

Staff Physical Therapist  
Charlton Memorial Hospital  
Fall River, MA  
1986 - 1990

Academic Coordinator of Clinical Education/Instructor  
Newbury College  
Brookline, MA  
1988 - 1989

Contract Physical Therapist  
Chest Physical Therapy Services  
Quincy, MA  
1988 - 1989

### Peer Reviewed Publications

Links to research publications

[PubMed](#)

[ORCID](#)

[ResearchGate](#)

[Google Scholar](#)

Tudini F, Levine D, Healy M, Jordon M, Chui K. Evaluating the effects of two different kinesiology taping techniques on shoulder pain and function in patients with hypermobile Ehlers-Danlos syndrome. *Front Pain Res (Lausanne)*. 2023;4:1089748. doi: 10.3389/fpain.2023.1089748. PMID: 36726531

Chen Y, Selby-Silverstein L, Greenberger H, Gobert D, Levine D, Kaplan S. Evidence-Based Practice Doctor of Physical Therapy Curricular Guideline Utilization: A Convergent Parallel Mixed Methods Study. *Journal of Physical Therapy Education*. 2022 October. doi: 10.1097/JTE.000000000000256.

Heath GW, Levine D. Physical Activity and Public Health among People with Disabilities: Research Gaps and Recommendations. *Int J Environ Res Public Health*. 2022 Aug 22;19(16). doi: 10.3390/ijerph191610436. PMID: 36012074

Levine D, Work B, McDonald S, Harty N, Mabe C, Powell A, Sanford G. Occupational Therapy Interventions for Clients with Ehlers-Danlos Syndrome (EDS) in the Presence of Postural Orthostatic Tachycardia Syndrome (POTS). *Occup Ther Health Care*. 2022 Jul;36(3):253-270. doi: 10.1080/07380577.2021.1975200. PMID: 34520307.

Ratsch BE, Levine D, Wakshlag JJ. Clinical Guide to Obesity and Nonherbal Nutraceuticals in Canine Orthopedic Conditions. *Vet Clin North Am Small Anim Pract*. 2022 Jul;52(4):939-958. doi: 10.1016/j.cvsm.2022.03.002. PMID: 35562213

Shaw K, Ursini T, Levine D, Richards J, Adair S. The effect of ground poles and elastic resistance bands on longissimus dorsi and rectus abdominus muscle

activity during equine walk and trot. *J Equine Vet Sci.* 2021; 107:103772. doi: 10.1016/j.jevs.2021.103772. PMID 34802619

Ursini T, Shaw K, Levine D, Richards J, Adair HS. Electromyography of the Multifidus Muscle in Horses Trotting During Therapeutic Exercises. *Front Vet Sci.* 2022;9:844776. doi: 10.3389/fvets.2022.844776. eCollection 2022. PMID: 35692292

Dycus DL, Levine D, Ratsch BE, Marcellin-Little DJ. Physical Rehabilitation for the Management of Canine Hip Dysplasia: 2021 Update. *Vet Clin North Am Small Anim Pract.* 2022 May;52(3):719-747. doi: 10.1016/j.cvsm.2022.01.012. Review. PubMed PMID: 35465906.

Marcellin-Little D, Levine D. Multifactorial rehabilitation planning in companion animals. *Adv Small Anim Care.* 2021; 2:110. doi.org/10.1016/j.yasa.2021.06.001.

Levine D, Marcellin-Little D. Cryotherapy in small animal rehabilitation. *Adv Small Anim Care.* 2021; 2:11-18. doi.org/10.1016/j.yasa.2021.07.002.

Drum M, McKay E, Levine D, Marcellin-Little D. The role of strengthening in the management of canine osteoarthritis: A review. *Adv Small Anim Care.* 2021; 2:31-38. doi.org/10.1016/j.yasa.2021.07.003.

Brunke M, Broadhurst M, Oliver K, Levine D. Manual therapy in small animal rehabilitation. *Adv Small Anim Care.* 2021; 2:19-30. doi.org/10.1016/j.yasa.2021.07.008.

Keilman R, Harding S, Rowin M, Reade E, Klingborg P, Levine D, Spratt H. Investigations of Staphylococcal contamination on environmental surfaces of a neonatal intensive care unit of a children's hospital. *Am J Infect Control.* 2021;49(11):1450-1453. doi: 10.1016/j.ajic.2021.05.007.

Levine D, Work B, McDonald S, Harty N, Mabee C, Powell A, Sanford G. Occupational therapy interventions for clients with Ehlers-Danlos Syndrome (EDS) in the presence of postural orthostatic tachycardia syndrome (POTS). *Occup Ther Health Care.* 2021; 1-18. doi:10.1080/07380577.2021.1975200.

Janas K, Millis D, Levine D, Keck M. Effects of cryotherapy on temperature change in caudal thigh muscles of dogs. *Vet Comp Orthop Traumatol.* 2021;34(4):241-247. doi: 10.1055/s-0041-1723786.

Levine D, Adair H, Marcellin-Little D, Jaffe M, Kaneps A. Editorial: Veterinary sports medicine and physical rehabilitation. *Front Vet Sci.* 2020;7:240. doi: 10.3389/fvets.2020.00240.

Levine D. Bacterial colonization of waiting rooms in a newly constructed children's outpatient clinic: Construction through 6 months after opening in waiting rooms. *Infect Control Hosp Epidemiol*. 2020; 41(S136-S137). doi:10.1017/ice.2020.651.

Szabo S, Levine D, Marcellin-Little D, Sidaway B, Hofmeister E, Urtuzuastegui E. Cryotherapy improves limb use but delays normothermia early after stifle joint surgery in dogs. *Front Vet Sci*. 2020; 7:381. doi:10.3389/fvets.2020.00381.

Levine D. Comparison of bacterial contamination in a children's outpatient clinic: General medicine versus pulmonary units. *Infect Control Hosp Epidemiol*. 2020; 41:177.

Colletti M, Levine D. Evaluation of a function-based multidisciplinary outpatient program to manage high-impact chronic pain. *Arch Phys Med Rehabil*. 2020;101(11): e23-24. doi:10.1016/j.apmr.2020.09.063.

Levine D, Tudini F, Healy M. Short term effects of kinesiology tape on shoulder pain and range of motion in individuals with Ehlers-Danlos Syndrome. *Arch Phys Med Rehabil*. 2020;102(4): e15-16. doi: 10.1016/j.apmr.2021.01.04.

Ben-Amotz R, Dycus D, Levine D, Arruda A, Fagan N, Marcellin-Little D. Stance and weight distribution after tibial plateau leveling osteotomy in forelimb and hind limb amputee dogs. *BMC Vet Res*. 2020;16(1):188. doi: 10.1186/s12917-020-02402-7.

Colletti M, Levine D, Heath G, Choo J, Jones T, Mackiewicz T. Breaking the pain cycle: A comprehensive multidisciplinary approach to chronic pain management. *Am J Occup Ther*. 2019; 73(4). doi:10.5014/ajot.2019.73S1-PO3030.

Acevedo B, Millis D, Levine D, Guevara J. Effect of therapeutic ultrasound on calcaneal tendon heating and extensibility in dogs. *Front Vet Sci*. 2019; 6:185. doi: 10.3389/fvets.2019.00185.

Adair H, Levine D. Effects of 1-MHz ultrasound on epaxial muscle temperature in horses. *Front Vet Sci*. 2019; 6:177. doi: 10.3389/fvets.2019.00177.

Levine D, Messer A, Cordova K, Quarfordt S, Cowart B, Darnell M, Honea J, Morey K, Naish K. The effect of compression socks on popliteal venous blood flow. *Arch Phys Med Rehabil*. 2019; 100(10):e128. doi: 10.1016/j.apmr.2019.08.385.

Levine D, Spratt H, Rowin M. Effectiveness of a cleaning protocol on environmental contamination in a pediatric intensive care unit. *Am J Infect Control*. 2019; 47(6):3 doi: 10.1016/j.ajic.2019.04.130.

Levine D, Meckelborg M. Rehabilitation after strangulation injury to distal left forelimb in guinea pig. *Acta Veterinaria Scandinavica*. 2019; 61(A31). doi: 10.1186/s13028-019-0439-3.

Levine D, Martin K. Rehabilitation of loss of lower extremity motor function in a guinea pig with pododermatitis. *Acta Veterinaria Scandinavica*. 2019; 61(A30). doi: 10.1186/s13028-019-0439-3.

McLean H, Millis D, Levine D. Surface electromyography of the vastus lateralis, biceps femoris, and gluteus medius muscles in normal dogs during treadmill exercise with elastic resistance bands. *Acta Veterinaria Scandinavica*. 2019; 61(A10). doi: 10.1186/s13028-019-0439-3.

Borsa P, Dale B, Levine D, Crow J. Muscular preconditioning using phototherapy improves the physical work capacity of the quadriceps when applied between repeated bouts of resistance exercise. *J Athl Enhanc*. 2019; 7(6). doi: 10.4172/2324-9080.1000310.

Epps M, Langsdon S, Pels T, Noyes V, Levine D, Thurston T, Spratt H, Brzezienski M. Pocket irrigation and technique during reconstructive surgery: An American society of plastic surgery survey of current practice. *Ann Plast Surg*. 2019; 82(6S Suppl 5): S427-S432. doi: 10.1097/SAP.0000000000001790.

Levine D, Millis D, McLean H. Surface electromyography of the vastus lateralis, biceps femoris, and gluteus medius in dogs during stance, walking, trotting, and selected therapeutic exercises. *Front Vet Sci*. 2019; 6:211. doi: 10.3389/fvets.2019.00211.

Levine D, Spratt H, McDonald S, Drake S, Duke K, Kluttz C, Noonan K. Survival time of Staphylococcus aureus on therapeutic ultrasound transducer heads. *Am J Infect Control*. 2019;47(9):1157-1159. doi: 10.1016/j.ajic.2019.02.019.

Noonan K, Spratt H, Levine D. Survival time of Staphylococcus aureus on therapeutic ultrasound heads and implications for rehabilitation. *Acta Veterinaria Scandinavica*. 2019; 61(1):A33. doi: 10.1186/s13028-019-0439-3.

Spratt H, Levine D, Bage J, Giles D, Collier A. Topical lotions utilized in outpatient rehabilitation clinics as a potential source of bacterial contamination. *Physiother Theory Pract*. 2019; 35(2):163-170. doi: 10.1080/09593985.2018.1441935.

Levine D, Cross C, Matthews J, McDonald S, Fell N. The effect of animal assisted therapy on participation in rehabilitation in a patient post-stroke. *Arch Phys Med Rehabil*. 2019; 100(10):e128. doi: 10.1016/j.apmr.2019.08.384.



Levine D, Walker J, Marcellin-Little D, Goulet R, Ru H. Detection of skin temperature differences using palpation by manual physical therapists and lay individuals. *J Man Manip Ther*. 2018; 26(2):97-101. doi: 10.1080/10669817.2018.1427908.

Levine D, Walker R. MRI of sagittal plane translation of cervical vertebrae with graded central posterior-anterior (CPA) mobilization. *Arch Phys Med Rehabil*. 2018; 98(10):e84. doi: /10.1016/j.apmr.2017.08.264.

Levine D, Kropp R. The effect of transcutaneous electrical nerve stimulation on plasma endorphins of B-endorphins in healthy subjects. *Arch Phys Med Rehabil*. 2018; 98(10):e11. doi: 10.1016/j.apmr.2017.08.376.

Budini K, Richards J, Cole T, Levine D, Trede R, George L, Selfe J. An exploration of the use of Inertial Measurement Units in the assessment of dynamic postural control of the knee and the effect of bracing and taping. *Physiother Pract Res*. 2018; 39(2):91-98). doi: 10.3233/PPR-180111.

McCarthy D, Millis D, Levine D, Weigel J. Variables affecting thigh girth measurement and observer reliability in dogs. *Front Vet Sci*. 2018; 5(203). doi: 10.3389/fvets.2018.00203.

Sawaya S, Combet D, Chanoit G, Thiébault J, Levine D, Marcellin-Little D. Assessment of impulse duration thresholds for electrical muscle stimulation (chronaxy) in dogs. *Am J Vet Res*. 2018; 69:1305-1309.

Dycus D, Levine D, Marcellin-Little D. Physical rehabilitation for the management of canine hip dysplasia. *Vet Clin North Am Small Anim*. 2017;47(4):823-850. doi:10.1016/j.cvsm.2017.02.006.

Kaplan S, Tilson J, Levine D, George S. Strategies for using the APTA section on research Doctor of Physical Therapy Education evidence-based practice curriculum guidelines. *J Phys Ther Educ*. 2016;30(2): 23-31.

Adair H, Levine D, Marcellin-Little D. Validity and repeatability of goniometry in normal horses. *Vet Comp Orthop Traumatol*. 2016; 29(4):314-319. doi: 10.1080/17439760.2016.1228004.

McDonald S, Levine D, Richards J, Aguilar L. Effectiveness of adaptive silverware on range of motion of the hand. *PeerJ*. 2016;4:e1667. doi:10.7717/peerj.1667.

Marcellin-Little D, Drum M, Levine D, McDonald S. Orthoses and exoprostheses for companion animals. *Vet Clin North Am Small Anim*. 2015; 45(1):167-183.

Drum M, Bockstahler B, Levine D, Marcellin-Little D. Feline rehabilitation. *Vet Clin North Am Small Anim.* 2015;45(1):185-201.

Marcellin-Little D, Levine D, Millis D. Veterinary rehabilitation and physical therapy. Preface. *Vet Clin North Am Small Anim.* 2015;45(1):i-ii.

Hanks J, Levine D, Bockstahler B. Physical agent modalities in physical therapy and rehabilitation of small animals. *Vet Clin North Am Small Anim.* 2015;45(1):29-44. doi: 10.1016/j.cvsm.2014.09.002.

Marcellin-Little D, Levine D. Principles and application of range of motion and stretching in companion animals. *Vet Clin North Am Small Anim.* 2014;16;45(1):57-72.

Spratt H, Levine D, Tillman L. Physical therapy clinic therapeutic ultrasound equipment as a source for bacterial contamination. *Physiother Theory Pract.* 2014;30(7):507-11.

Gulledge B, Marcellin-Little D, Levine D, Tillman L, Harrysson O, Osborne J, Baxter B. Comparison of two stretching methods and optimization of stretching protocol for the piriformis muscle. *Med Eng Phys.* 2014;36(2):212-8

Levine D, Marcellin-Little D, Millis D, Tragauer V, Osborne J. Effects of partial immersion in water on vertical ground reaction forces and weight distribution in dogs. *Am J Vet Res.* 2010;71(12):1413-6.

Hobbs S, Levine D, Richards J, Clayton H, Tate J, Walker R. Motion analysis and its use in equine practice and research. *Vet Med Int.* 2010; 97:55.

Richards J, Holler P, Bockstahler B, Dale B, Mueller M, Burston J, Selfe J, Levine D. A comparison of human and canine kinematics during level walking, stair ascent, and stair descent. *Vet Med Int.* 2010; 97: 92-100.

Marcellin-Little D, Levine D, Canapp S. The canine shoulder: Selected disorders and their management with physical therapy. *Clin Tech Small Anim Pract.* 2007; 22:171-182.

Levine D, Colston M, Whittle M, Pharo E, Marcellin-Little D. Changes in lumbar spinal motion when walking and running on level, uphill, and downhill surfaces. *J Athl Train.* 2007; 42(1):29-34.

Levine D, Colston M, Whittle M, Pharo E, Marcellin-Little D. Sagittal lumbar spine position during standing, walking, and running at various gradients. *J Athl Train.* 2007;42(1):29-34.

Adamson C, Kaufmann M, Levine D, Millis D, Marcellin-Little D. Assistive devices, orthotics, and prosthetics. *Vet Clin North Am Small Anim.* 2005;35(6):1441-1451.

Levine D, Millis D, Marcellin-Little D. Introduction to veterinary physical rehabilitation. *Vet Clin North Am Small Anim.* 2005;35(6):1247-1254.

Saunders D, Walker J, Levine D. Joint mobilization. *Vet Clin North Am Small Anim.* 2005; 35(6):1287-1316.

Steiss J, Levine D. Physical agent modalities. *Vet Clin North Am Small Anim.* 2005;35 (6):1317-1333.

Marcellin-Little D, Levine D, Taylor R. Rehabilitation and conditioning of sporting dogs. *Vet Clin North Am Small Anim.* 2005;35 (6):1427-1439.

Levine D, Prall E, Marcellin-Little D, Whittle M, Hanks J. Are the long-term effects of running related to the development of osteoarthritis? Part I: Animal studies. *Athletic Therapy Today.* 2003; 8:6-11.

Levine D, Prall E, Marcellin-Little D, Whittle M, Hanks J. Are the long-term effects of running related to the development of osteoarthritis? Part II: Human studies. *Athletic Therapy Today.* 2003; 8:12-18.

Jaegger G, Marcellin-Little D, Levine D. Reliability of goniometry in Labrador retrievers. *Am J Vet Res.* 2002; 63:979-986.

Boyle K, Marcellin-Little D, Levine D. An interdisciplinary elective course on rehabilitation for animals for entry-level Master of Physical Therapy and Doctor of Veterinary Medicine students and survey results. *J Vet Med Educ.* 2002; 29:183-185.

Boyle K, Marcellin-Little D, Levine D. Survey results of an interdisciplinary animal physical rehabilitation course for physical therapy and veterinary students. *J Vet Med Educ.* 2002;29(3):183-5. doi:10.3138/jvme.29.3.183.

Levine D, Millis D, Mynatt T. Effects of 3.3 MHz ultrasound on caudal thigh muscle temperature in dogs. *Vet Surg.* 2001; 30:170-174.

Whittle M, Levine D. Three-dimensional relationships between the movements of the pelvis and lumbar spine during normal gait. *Hum Mov Sci.* 1999; 18:681-692.

Whittle M, Levine D. Measurement of lumbar lordosis as a component of clinical gait analysis. *Gait Post.* 1997; 5:101-107.

Millis D, Levine D. The role of exercise and physical modalities in the treatment of osteoarthritis. *Vet Clin North Am Small Anim*. 1997; 27:913-930.

Levine D, Walker J, Tillman L. The effect of abdominal muscle strengthening on pelvic tilt and lumbar lordosis. *Physiother Theory Pract*. 1997; 13:217-226.

Levine D, Whittle M, Beach J, Ollard P. Test-retest reliability of the Chattecx Balance System in the patient with hemiplegia. *JRDD*. 1996; 33:36-44.

Levine D, Whittle M. The effects of pelvic movement on lumbar lordosis in the standing position. *JOSPT*. 1996; 24:130-135.

Levine D, Klein A, Morrissey M. Reliability of isokinetic closed kinematic chain performance of the hip and knee extensors. *IES*. 1991; 1:146-152.

#### Books and Book Chapters:

##### Books (as editor)

Millis D, Levine D, eds. *Canine Rehabilitation and Physical Therapy*, 3rd Ed. St. Louis, MO. WB Saunders, in preparation.

Levine D, Richards J, Whittle M, eds. *Whittle's Gait Analysis*, 6<sup>th</sup> ed. Edinburgh, Scotland. Churchill Livingstone Elsevier. 2022.

Montgomery T, Ward E, Levine D, eds. *Better You, Better Dog, Better Life: 30 Days to Happiness with Your Best Friend*. Chattanooga, TN. 47 Journals LLC. 2019.

Bockstahler B, Wittek K, Levine D, Maierl J, Millis D, eds. *Essential Facts of Physiotherapy, Rehabilitation, and Sports Medicine in Dogs and Cats*. Babenhausen, Germany. BE VET VERLAG publishing. 2019.

Millis D, Levine D, eds. *Canine Rehabilitation and Physical Therapy*, 2<sup>nd</sup> Ed. St. Louis, MO. WB Saunders. 2013.

Levine D, Richards J, Whittle M, eds. *Whittle's Gait Analysis*, 5<sup>th</sup> ed. Edinburgh, Scotland. Churchill Livingstone Elsevier. 2012.

Bockstahler B, Wittek K, Levine D, Maierl J, Millis D, eds. *Essential Facts of Physiotherapy in Dogs and Cats*. Babenhausen, Germany. BE Vet Verlag. 2004.

Millis D, Levine D, Taylor R, eds. *Canine Rehabilitation and Physical Therapy*. St. Louis, MO. WB Saunders. 2004.

##### Book Chapters

Healy M, Levine D. In *Transforming Ehlers-Danlos Syndrome: A Global Vision of the Disease* (ed Daens S). Chapter 17: Physical Therapy Management of Hypermobility Ehlers-Danlos Syndrome and Hypermobility Spectrum Disorders, 1st edition, Dilbeek, Belgium, 631-670, 2022.

Brunke M, Levine D, Dycus L, Marcellin-Little D, Denis J. Complications from cranial cruciate ligament surgery. In: Ben-Amotz R & Dycus D, eds. *Complications in Canine Cranial Cruciate Ligament Surgery*, 1<sup>st</sup> ed. Hoboken, NJ. John Wiley & Sons, Inc. 2021:247-259.

Levine D. Chapter 3- Fundamentals of human gait and gait analysis. In: Birch I, Nirenberg M, Obe W, Birch M, eds. *Forensic Gait Analysis Principles and Practice*. Boca Raton, FL. CRC Press. 2020: 39-58.

Bockstahler B, Wittek K, Levine D, Maierl J, Millis D.  
Chapter 7- Passive range of motion exercises and stretching  
Chapter 11- Joint mobilization in canines  
Chapter 13- Superficial thermal modalities  
Chapter 14- Therapeutic ultrasound  
Chapter 15- Electrical stimulation  
In: Bockstahler B, Wittek K, Levine D, Maierl J, Millis D, eds. *Essential Facts of Physiotherapy, Rehabilitation, and Sports Medicine in Dogs and Cats*. Babenhausen, Germany. VET publishing. 2019: 109-115, 191-199, 213-236.

Richards J, Levine D. Chapter 11-The biomechanics of orthotic measurement. In: Richards J, ed. *The Comprehensive Textbook of Clinical Biomechanics*, 2<sup>nd</sup> edition. Preston, UK. Elsevier. 2018: 241-281.

Levine D, Millis D. Physical therapy and rehabilitation. In: Ettinger S, Feldman E, Cote E, eds. *Textbook of Veterinary Internal Medicine*, 8<sup>th</sup> edition. St. Louis, MO. Elsevier. 2017: 2150-2157.

Reddy A, Bage J, Levine D. 24.3 Topic: Biomechanics of gait: The hip. *Orthopaedic Physical Therapy Home Study Course*. Orthopaedic Section, APTA, LaCrosse, WI, 2014.

Di Stasi SL, Hartigan EH, Selfe J, Richards J, Levine D. 24.3 Topic: Biomechanics of gait: The knee. In: *Orthopaedic Physical Therapy Home Study Course*. Orthopaedic Section, APTA, LaCrosse, WI. 2014.

Hanks J, Levine D. Chapter 19- Rheumatic conditions. In Kauffman T, Scott R, Barr J, Moran M, eds. *A Comprehensive Guide to Geriatric Rehabilitation*, 3<sup>rd</sup> ed. Philadelphia, PA. Churchill Livingstone. 2014: 134-140.

Millis D, Levine D, eds.  
Ch 1-History of canine physical rehabilitation

Ch2- Regulatory and practice issues for the veterinary and physical therapy professions  
Ch-3 Conceptual overview of physical therapy, veterinary medicine, and canine physical rehabilitation  
Ch 12- The physical rehabilitation evaluation  
Ch 13- Assessing and measuring outcomes  
Ch 17- Devices for ambulation assistance in companion animals  
Ch 18- Superficial thermal modalities  
Ch 19- Therapeutic ultrasound  
Ch 20- Electrical stimulation  
Ch 23- Other modalities in veterinary rehabilitation  
Ch 25- Range-of-motion and stretching exercises  
Ch 26- Joint mobilization  
Ch 28- Exercises for proprioception and balance  
Ch 29- Therapeutic exercises: Early limb use exercises  
Ch 30- Therapeutic exercises: Joint motion, strengthening, endurance, and speed exercises  
Ch 31- Aquatic therapy  
Ch 35- Physical rehabilitation for geriatric and arthritic patients  
Appendix 1- Protocol development and protocols.  
In: Millis D, Levine D, eds. *Canine Rehabilitation and Physical Therapy, 2<sup>nd</sup> ed.* St. Louis, MO. WB Saunders. 2013: 1-30, 211-242, 305- 358, 393-400, 431-463, 484-542, 628-651, 669-729.

Levine D, Richards J, eds.  
Chapter 1-Basic sciences  
Chapter 2- Normal gait  
Chapter 3- Pathological and other abnormal gaits  
Chapter 4- Methods of gait analysis  
Chapter 5- Application of gait analysis  
Chapter 7- Gait analysis in musculoskeletal conditions, prosthetics, and orthotics.  
In: Levine D, Richards J, Whittle M, eds. *Whittle's Introduction to Gait Analysis 5<sup>th</sup> ed.* Oxford, UK. Elsevier. 2012: 1-124, 151-157.

Levine D, Bockstahler B. Physical therapy and rehabilitation. In: Schmeltzer L, Norsworthy G, eds. *Nursing the Feline Patient.* Hoboken, NJ. Wiley-Blackwell. 2012:138-144.

Levine D, Bockstahler B: Physical therapy and rehabilitation. In: Norsworthy G, ed. *The Feline Patient, 4<sup>th</sup> ed.* Hoboken, NJ. Wiley-Blackwell. 2011: 687-690.

Hanks J, Levine D. Chapter 20- Pathokinesiological manifestations and therapeutic intervention: Musculoskeletal involvement; Rheumatic conditions. In: Kauffmann T, Barr J, Moran M. *Geriatric Rehabilitation Manual 2<sup>nd</sup> ed.* Philadelphia, PA. Churchill Livingstone. 2007: 87-93.

Bockstahler B, Levine D, Millis D, eds.

Chapter 1- Introduction to small animal physiotherapy  
Chapter 5- Physiotherapy- Therapeutic exercise  
Chapter 6- Indications, classification according to location- Feline physical rehabilitation; Rehabilitation of the geriatric patient  
*Essential Facts of Physiotherapy in Dogs and Cats*. Babenhausen, Germany. BE VetVerlag. 2004: 2-4, 56-64, 263-263-276.

Levine D. Orthopaedic Physical Therapy Home Study Course 10.1.1-10.1.6 (*Subject Matter Expert*). In: Basic Science for Animal Physical Therapists. Orthopaedic Section, APTA, Inc. Lawrence, KS. Allen Press. 2000.

Levine D. Posterior compartment syndrome  
Cervical spine and temporomandibular joint dysfunction  
Chronic iliotibial band friction syndrome.  
Case 4 - Soft tissue contracture  
Case 5 - Reflex sympathetic dystrophy  
In: Moran M, Brimer M, eds. *Clinical Cases in Physical Therapy*. Philadelphia, PA. Butterworth-Heinemann Publishers, An Imprint of Elsevier. 2004.

Levine D, Whittle M. Lower extremity: Gait analysis. In: *Orthopaedic Physical Therapy Home Study Course 91-1*. Berryville, VA. Forum Medicum, Inc. 1992.

#### Published Abstracts:

Grosjean D, Levine D, Wheeler A. Rehabilitation applied to vestibulo-cerebellar syndrome in presumed cerebellar hypoplasia: a case report. In press, Acta Veterinaria Scandinavia

Levine D, Millis D. Bacterial contamination of the environment of veterinary rehabilitation clinics. In press, Acta Veterinaria Scandinavia

Byrd S, Levine D. Rehabilitation of a pygmy Goat with hindlimb paralysis. In press, Acta Veterinaria Scandinavia

Levine D, Spratt H, Keates-Baleeiro J, Brunton L, Gaylord W. Bacterial contamination of floors in a Hematology/Oncology unit in a Children's Hospital American Journal of Infection Control, Vol. 50, Issue 7, July 2022

Spratt H, Levine D, Sinha A, See D. Surveillance of Staphylococci presence in and around neonate isolette beds in a neonatal intensive care unit of a Children's Hospital. American Journal of Infection Control, Vol. 50, Issue 7, July 2022

Levine D, Fell N. Predictors of Falls in Community Dwelling Ambulatory Stroke Survivors. Archives of physical medicine and rehabilitation. 2022 December; 103(12):e95. doi: <https://doi.org/10.1016/j.apmr.2022.08.680>.

Levine D, Poole C, Fell N. Sleep Evaluation and Interventions in Stroke Survivors: A Survey of Current Practice in Rehabilitation Professions David Levine D, Poole C, Fell N, Jeter K, Hostetler C. Archives of physical medicine and rehabilitation. 2022 December; 103(12):e95. doi: <https://doi.org/10.1016/j.apmr.2022.08.679>.

Levine D, McDonald S. Sleep Disturbance and Common Interventions Used for Sleep Management in Individuals with Hypermobility Ehlers-Danlos Syndrome. Archives of physical medicine and rehabilitation. 2022 December; 103(12):e95-96. doi: <https://doi.org/10.1016/j.apmr.2022.08.681>.

Fell N, Levine D, Heath G. The association between physical activity and health-related quality of life in stroke survivors. *J Neurol Phys Ther.* 2021;45(1):52-53.

Fell N, Levine D, Heath G. Stroke survivors' self-reported primary exercises/physical activities. *J Neurol Phys Ther.* 2021;45(1):54-66.

Fell N, Levine D, Hellerstedt A, Meystrik G, Wilson B. Stroke survivors' self-reported participation in meeting strengthening guidelines. *Arch Phys Med Rehabil.* 2021;102(10):e26.

Levine D, Poole C, Hostetler C, Jeter K, Kingrea C, Kukta K, Fell N. The association between sleep and health-related quality of life in stroke survivors. *Arch Phys Med Rehabil.* 2021;102(10):e28-e29. doi:<https://doi.org/10.1016/j.apmr.2021.07.541>.

Levine D, Cross C, Matthews J, McDonald S, Fell N. The effect of animal assisted therapy on participation in rehabilitation in a patient post-stroke. *Arch Phys Med Rehabil.* 2019;100(10):e128.

Meckelborg M, Levine D. Rehabilitation after strangulation injury to distal left forelimb in guinea pig. *Acta Vet Scand.* 2019; 61(1):6. doi:10.1186/s13028-019-0439-3.

Martin K, Levine D. Rehabilitation of loss of lower extremity motor function in a guinea pig with pododermatitis. *Acta Vet Scand.* 2019; 61(1): 6. doi:10.1186/s13028-019-0439-3.

McLean H, Millis D, Levine D. Surface electromyography of the vastus lateralis, biceps femoris, and gluteus medius muscles in normal dogs during treadmill exercise with elastic resistance bands. *Acta Vet Scand.* 2019; 61(1): 6. doi:10.1186/s13028-019-0439-3.

Noonan K, Spratt H, Levine D. Survival time of Staphylococcus aureus on therapeutic ultrasound heads and implications for rehabilitation. *Acta Vet Scand.* 2019; 61(1): 6. doi:10.1186/s13028-019-0439-3.



Levine D, Messer A, Cordova K, Quarfordt S, Cowart B, Darnell M, Honea J, Morey K, Naish K. The effect of compression socks on popliteal venous blood flow. *Arch Phys Med Rehabil.* 2019; 100(10): e128. doi: 10.1016/j.apmr.2019.08.385.

Levine D, McDonald S, Barnes H, Cornett A, Craig K, Langager S, Yeager L, Brit M, Turner E, Richards J. Impact of built-up spoons on reducing range of motion requirements in clients with rheumatoid arthritis. *Arch Phys Med Rehabil.* 2019; 100(10): e84. doi: 10.1016/j.apmr.2019.08.245.

Levine D, Harrison L, Beeler T, Dyer F, Hubbard M. Needs assessment for a novel instrument to assess prior level of function in older adults. *Arch Phys Med Rehabil.* 2018; 99(10): e40. doi: 10.1016/j.apmr.2018.07.139.

Levine D, Spratt H. Dry needling and the potential for bacterial contamination. *Arch Phys Med Rehabil.* 2018; 99(10): e29. doi: 10.1016/j.apmr.2018.07.100.

Levine D, Borsa P, Dale B. The effects of photobiomodulation on quadriceps muscle endurance. *Arch Phys Med Rehabil.* 2018; 99(10): e29. doi: 10.1016/j.apmr.2018.07.101.

Marcellin-Little D, Harrysson O, Crimi C, Levine D. Influence of three tibial osteotomy procedures on the proximodistal patellar position in the cranial cruciate ligament-deficient stifle (knee) in the dog. *Acta Vet Scand.* 2016; 58:A4, 97. doi: 10.1186/s13028-016-0259-7.

Levine D, Walker J, Swogger A, Gibson T, Marcellin-Little D. Magnetic resonance imaging of sagittal plane translation of the human cervical spine during graded dorsal/ventral mobilizations and possible implications for dogs. *Acta Vet Scand.* 2016; 58: A7, 98-99. doi: 10.1186/s13028-016-0259-7.

Levine D, Ryan J, Gilligan C, Haulcomb K, Norris L, Powers M, Pugh T, Purkey S. Creation of an open-access animal-assisted therapy exercise database using expert consensus with the Delphi Method: A pilot study. *Acta Vet Scand.* 2016; 58: A8, 99. doi: 10.1186/s13028-016-0259-7.

Holt A, Levine D, Marcellin-Little D. Systematic review of the pathophysiology and management of canine patella luxation. *Acta Vet Scand.* 2016; 58(A25): 110-111. doi: doi.org/10.1186/s13028-016-0259-7.

Williams B, Allen B, True H, Fell N, Levine D, and Sartipi M. A real-time, mobile Timed Up and Go system. IEEE Body Sensor Networks Conference, Cambridge, MA, June 2015. Abstract published in *Proc. Of IEEE Body Sensory Networks Conference*, June 2015.

Dale R, Levine D, Bowers K, Kelley E, Leemkuil M, Martin B. The effects of class 4 laser therapy on low-frequency fatigue of the quadriceps. *J Orthop Sports Phys Ther*. 2014;44:A152.

Levine D, Adair S, Marcellin-Little D, Liedle E, Borsch K, Davis C, Jackson M. Reliability and validity of goniometry of the carpus, tarsus, and fetlock joints in horses. *J Orthop Sports Phys Ther*. 2013;43:A5.

Walker J, Levine D, Swogger A, Gibson T. Magnetic resonance imaging of sagittal plane translation of the cervical spine during graded central posterior/anterior mobilizations. *J Orthop Sports Phys Ther*. 2012;42:A77.

Levine D, Marcellin-Little D, Dale, B, Walker J, Bradford E, Brown D, Shinpaugh L. Actual vs. displayed treadmill speeds during various speeds, inclines, and patient weight categories. *J Orthop Sports Phys Ther*. 2011;41(1):A87.

Levine D, Walker J, Goulet R. The ability to assess temperature differences by palpation: a comparison of experienced manual therapists and lay individuals. *J Orthop Sports Phys Ther*. 2010;40(1):A93.

Marcellin-Little D, Tillman L, Levine D, Baxter B, Andrews J, Wells H. Comparison of selected stretch positions of the piriformis muscle using computerized tomography and biomodeling: A pilot study. *J Orthop Sports Phys Ther*. 2009;39(1):A26-27.

Levine D, Ingram D, Walker R, Whittle M, Solly C, Squires T, Walsh R. The effects of the five ballet positions on posture of the lumbar spine, pelvis, and hip. *J Orthop Sports Phys Ther*. 2008;38(1):A54.

McDonald M, Wilkerson G, Colston M, Levine D. Relationship between calcaneal eversion and tibial internal rotation during single leg stance. *J Orthop Sports Phys Ther*. 2007;37(1):A36-A37.

Vannetta M, Millis D, 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. *J Orthop Sports Phys Ther*. 2006;36(1):A47.

Levine D, Whittle M, Frogg S, Stooksbury J, Goulet R. The effects of illumination on limb kinematics and cadence during running. *J Orthop Sports Phys Ther*. 2005;35(1):A29.

Levine D, Smith C, Whittle M, Dotson D, Lemmings K. Effects of wrist bracing on ground reaction forces during performance of a back handspring by adolescent gymnasts. *Pediatr Phys Ther*. 2005; 17:92.

Griffen M, Rolin M, Levine D, Whittle M. The effect of static magnetic fields on grip strength: A double blind study. *J Orthop Sports Phys Ther.* 2001; 31: A-25.

Boyle K, Levine D, Marcellin-Little D. An interdisciplinary elective course on rehabilitation for animals for entry-level Master of Physical Therapy and Doctor of Veterinary Medicine Students and survey results. *J Orthop Sports Phys Ther.* 2001;31: A-33.

Whittle M, Levine D, Pharo E. Sagittal plane motion of the pelvis and lumbar spine during level, uphill, and downhill walking and running. *Gait Posture.* 2000; 11:162.

Levine D, Pharo E, Whittle M. Three-dimensional analysis of lumbar lordosis during running on level, uphill, and downhill conditions. *J Orthop Sports Phys Ther.* 2000;30: A27-8.

Whittle M, Levine D, Burke M. Three-dimensional motion of the lumbar spine during normal gait. *Gait Posture.* 1998; 7:153.

Millis D, Levine D, Brumlow M, Weigel J. A preliminary study of early physical therapy following surgery for cranial cruciate ligament rupture in dogs. *Vet Surg.* 1997; 26:434.

Levine D, Millis L, Brumlow M. The effects of early physical rehabilitation in dogs following cranial cruciate ligament reconstruction surgery. *Phys Ther.* 1997;77: S93.

Levine D, Whittle M, Hood K. Static and dynamic relationships between pelvic tilt, lumbar lordosis and abdominal muscle performance. *Phys Ther.* 1996;76: S74.

Whittle M, Levine D. Changes in pelvic tilt and lumbar lordosis during gait. *Gait Posture.* 1996; 4:170.

Whittle M, Levine D. Sagittal plane motion of the lumbar spine during normal gait. *Gait Posture.* 1995; 3:2:82.

Ozbeck N, Levine D. Utilization of psychological services in the treatment of temporomandibular joint disorders. *Arch Phys Med Rehabil.* 1994; 75:1047.

Levine D, Walker J, Tillman L. The effect of abdominal muscle strengthening on pelvic tilt and lumbar lordosis. *Phys Ther.* 1994; 74:5; S140.

Levine D, Whittle M, Beach J, Ollard P. Test-retest reliability of the Chattecx Balance System in the patient with hemiplegia. *Phys Ther.* 1993; 73:6; S35.

Schafer A, Villani L, Levine D. The effects of ankle-foot orthosis on static and dynamic weight-bearing patterns and balance in the hemiplegic patient. *Arch Phys Med Rehabil*. 1992; 73:1011.

Levine D, Morrissey M, Klein A. Reliability of isokinetic concentric closed kinematic chain testing of the hip and knee extensors. *Phys Ther*. 1991; 71:148/84.

### Peer Reviewed Scientific and Professional Presentations

Three abstracts accepted for WCPT 2023

- Levine D, Cruz E. Mental and physical health measures in a large cohort of individuals who are regular caregivers of persons with Dementia
- Lasner A, Johnson K, Levine D. A review of musculoskeletal dance screen performance data in collegiate dancers: A ten-year retrospective study
- Levine D, Johnson K. Global comparison of prevalence and years lived with low back pain: 2019

Levine D, Tudini F, Healy M, Healy B. Effect of Kinesiology Taping on Shoulder Proprioception in Individuals with Hypermobile Ehlers-Danlos Syndrome, Combined Sections Meeting, San Diego, CA, 2023.

Levine D, Millis D. Bacterial Colonization of the Environment in Veterinary Rehabilitation Clinics. Combined Sections Meeting, San Diego, CA, 2023.

Healy M, Levine D, McDonald S. Sleep Disturbances and Interventions Used in Individuals with Hypermobile Ehlers-Danlos Syndrome. 2022 International Scientific Symposium on the Ehlers-Danlos Syndromes and Hypermobility Spectrum Disorders, Rome, Italy

Healy M, Levine D, Tudini F. Short Term Effects of Far Infrared Kinesiology Tape on Shoulder Pain and Function in Individuals with Hypermobile Ehlers-Danlos Syndrome. Combined Sections Meeting, San Antonio, TX, 2022.

Levine D, Ursini T, Shaw K, Richards J, Adair S. Electromyographic analysis of equine multifidus muscles during therapeutic exercises. Combined Sections Meeting, San Antonio, TX, 2022.

Tudini F, Levine D, Healy M. Effects of Kinesiology Taping on Shoulder Pain, Active Range of Motion, and Function in Individuals with Hypermobile Ehlers-Danlos Syndrome. Combined Sections Meeting, San Antonio, TX, 2022.

Levine D. Cryotherapy versus bandaging on outcome measures and return to normothermia after stifle surgery in dogs. Presented at the American Physical Therapy Association Combined Sections Meeting, February 2021.

Levine D, Spratt H. Therapeutic ultrasound as a potential vector for the transmission of Staphylococcus aureus. Presented at the American Physical Therapy Association Combined Sections Meeting, February 2021.

Levine D, Spratt H, Hanks J. Beyond universal precautions - Curricular content in infection control and prevention. Presented at the American Physical Therapy Association, Education Leadership Conference, October 2020.

Levine D, Spratt H, Epps M, Brzezienski M, Noyes V. An in vitro analysis of the relative efficacies of antibiotic solutions vs. antiseptics used for irrigation in breast augmentation surgery. Presented at the Annual meeting, Association of Southeastern Biologists, Myrtle Beach, SC, 2018.

Levine D, Spratt H, Giles D. Molecular monitoring of methicillin-resistant Staphylococcus aureus (MRSA) in a hospital setting: Correlative study of patient and environmental isolates. Presented at the Annual meeting, Association of Southeastern Biologists, Myrtle Beach, South Carolina, 2018.

Kercheville A, Michael M, Reed C, Palmer K, Sutton Z, Levine D, Payne S, Williams D. Reliability and validity of the running readiness scale. Presented at the Southeast Chapter of the American College of Sports Medicine (SEACSM) Annual Meeting, February 2018.

Keilman R, Spratt H, Rowin M, Levine D. Microbiologic colonization in neonatal and pediatric intensive care units. Presented at the Pediatric Academic Societies Meeting, 2017 May 6 - 9, in San Francisco, CA.

Levine D, Patel M, Dodson M, Helms R, Passmore R. The effects of photobiomodulation on muscle performance of the shoulder external rotators. Presented at the Combined Sections Meeting of the American Physical Therapy Association, San Antonio, TX 2017.

Ingram D, Fell N, Levine D, Crenshaw J, Griffith A, Bryson K. Attitudes, beliefs, knowledge and perceived barriers to evidence-based practice in physical therapists working in long-term care facilities. Presented at the American Physical Therapy Association CSM, Nashville, TN February 2016.

Levine D, Dale B, Borsa P. The effects of laser therapy on muscle performance of the shoulder external rotators. Presented at the 35th Annual Conference of the American Society for Laser Medicine and Surgery, 2016.

Levine D, Dale B, Borsa P. The effects of laser therapy on muscle performance of the shoulder external rotators. Proceedings of the Combined Sections Meeting of the American Physical Therapy Association, Anaheim, CA, February 2016.

Levine D, McDonald S. Comparison of hand range of motion during the use of normal and adaptive (built-up) silverware. Presented at the American Occupational Therapy Association Annual Conference and Exposition, Chicago, Ill, April 2016.

Levine D, De Taboada L, Frydrych W, Dale B. The effects of laser therapy on endurance of the rotator cuff muscles. Presented at the 35th Annual Conference of the American Society for Laser Medicine and Surgery, Orlando, FL, 2015.

Levine D, Adair S, Tilstra S, Tobias A. Effects of 1.0 MHz ultrasound on epaxial muscle temperature in horses. Presented at the Proceedings of the Eighth International Symposium on Veterinary Rehabilitation and Physical Therapy, Corvallis, OR, August 2014.

Aguilar L, Levine D, McDonald S. Three-dimensional motion analysis of the hand. Southern Regional Honors Council (SRHC) Conference, Savannah, Georgia March 2014.

Dale R, Levine D. Glenohumeral forces associated with the full and modified one-plane golf swings. Proceedings of the American Physical Therapy Association Meeting, Boston, MA, June 2010.

Tate J, Levine D, Bollig J, Mayo J. The effects of grade, gender, and running level on lower extremity kinematics. Southeastern Meeting of the American Society of Biomechanics, Birmingham, AL 2008.

Levine D, Englert C, Ingram D, Tillman L. Implementing an alternative model of clinical instruction in orthopedics for entry-level students. Proceedings of the Annual Conference and Exposition of the APTA, 2005.

Levine D, Johnston K, Price N, Schneider N, Millis D. The effect of transcutaneous electrical nerve stimulation (TENS) on dogs with osteoarthritis of the stifle. Proceedings of the 32nd Veterinary Orthopedic Society, Snowmass, CO, March 2005.

Levine D, Johnston K, Price M, Schneider N, Millis D. The effect of TENS on osteoarthritic pain in the stifle of dogs. Proceedings of the Second International Symposium on Rehabilitation and Physical Therapy in Veterinary Medicine, 2002.

Tragauer V, Levine D, Millis D. Percentage of normal weight bearing during partial immersion at various depths in dogs. Proceedings of the Second International Symposium on Rehabilitation and Physical Therapy in Veterinary Medicine, 2002.

Millis D, Levine D, Mynatt T, Weigel J. Changes in muscle mass following transection of the cranial cruciate ligament and immediate stifle stabilization. Proceedings of the 27th Annual Conference of the Veterinary Orthopedic Society, 2000.

Millis D, Levine D, Mynatt T, Changes in muscle mass following transection of the cranial cruciate ligament and immediate stifle stabilization. Proceedings of the First International Symposium on Rehabilitation and Physical Therapy in Veterinary Medicine, Corvallis, OR, 1999.

Millis D, Scroggs L, Levine D. Variables affecting thigh circumference measurements in dogs. Proceedings of the First International Symposium on Rehabilitation and Physical Therapy in Veterinary Medicine, Corvallis, OR, 1999.

Levine D, Millis D. Thermal effects of 3MHz ultrasound treatments in dogs. Proceedings of the First International Symposium on Rehabilitation and Physical Therapy in Veterinary Medicine, Corvallis, OR, 1999.

Whittle M, Levine D. Three-dimensional lumbar spinal motion in walking: A comparison between three studies. Proceedings of the Third North American Congress on Biomechanics (NACOB), Waterloo, Ontario 1998.

Levine D, Whittle M, Crosbie J. A comparison of two methods for measurement of three-dimensional motion of the lumbar spine during normal gait. Fifth International Symposium on the 3-D Analysis of Human Movement, Chattanooga, TN, 1998.

Walker J, Levine D, Whittle M. A study of lumbar lordosis and pelvic tilt during standing and gait. Proceedings of the 1995 World Confederation for Physical Therapy Congress, 1995.

Levine D, Whittle M. Reliability of the measurement of lumbar lordosis during clinical gait analysis using the Vicon system. Proceedings of the 1995 World Confederation for Physical Therapy Congress, 1995.

Whittle M, Levine D. Measurement of lumbar lordosis while performing clinical gait analysis. Proceedings of the Third International Symposium on 3-D Analysis of Human Movement, Stockholm, Sweden, 1994.

#### Funded/In Review Grant Activity

Danquah M, Levine D, Spratt H.  
\$2,700,000.00

Mitigation of COVID-19 and Future Pandemics: The River City Initiative  
One Chattanooga Relief and Recovery Plan

Submitted February 2022 (under Review)

Levine D.

\$5,000

The Effectiveness of Thrive Kinesiotape on Patients with Ehlers-Danlos Syndrome.

March 1, 2020-February 28, 2021

Thrive LLC

Levine D., Davis M, Spratt H.

\$7,000

The Conman Trial - Coagulase Negative Staphylococcal Infections: To Treat or Not to Treat.

February 2020 - January 2022

Biomedical Research Foundation

Levine D., Hogg J.

\$2,900

The Effectiveness of the Upright Posture Monitor on Sitting, Standing and Functional Posture.

February 2020 - January 2022

Upright Technologies

Levine D., Spratt H.

\$7,082

Clinical Investigation of GloTran Low Temp Plasma/H2O2 Disinfection Device in a Pulmonary Outpatient Clinic.

November 1, 2019 - October 31, 2020

YouFirst Services, Inc.

Levine D., Spratt H

\$10,000

Colonization and Succession of Bacteria in a Newly Opened Children's Outpatient Center

March 2019 - February 2020

The University of Tennessee College of Medicine

Hanks J, Levine D.

\$2,506

Environmental Contamination in a Long-Term Acute Care Facility and recommendations for disinfection protocols.

October 2018

Tennessee Physical Therapy Association

Levine D., Spratt H, Giles D.

\$30,000



Bacterial Colonization and Succession in a Newly Opened Children Hospital Center.

August 2018

Weldon Osbourne Foundation

Levine D., Spratt H, Giles D.

\$16,074

Does Ultraviolet Radiation (UV-C) Applied to the Soles of Shoes in Pediatric Intensive Care Units Decrease Bacterial Load and Healthcare Associated Infections?

July 2018

HealthySole DETECTO

Levine D.

\$2,978

Effectiveness of Sockwell Compression Socks: Vascular Effects

July 2017

Goodhew, LLC

Spratt H, Levine D., Brzezienski M, Epps M.

\$2,795

Triple Antibiotic Wash: Fact or Fetish? The Efficacy of Antibacterial Solution Wash During Placement of Breast Prosthesis in Bacterial Load Reduction.

March 2017.

The Plastic Surgery Foundation of Chattanooga.

Levine D.

\$1,206.21

Research Presentation at the American Physical Therapy Association.

December 2016

UTC Faculty Grant

Spratt H, Levine D.

\$6,698

Development of a Protocol to Disinfect GelShot Ultrasound Retaining Clips

July 2016

RichMar Corporation

Levine D., Spratt H.

\$12,215

Infectious Disease Agents in the Neonatal Intensive Care Unit: An Investigative Study

May 2016

UTC Office of partnerships and sponsored programs and The UTC Honors College

Levine D.

\$5,000

Animal Assisted Therapy in Individuals with Stroke

October 2015

Siskin Hospital and Private Donors

Levine D., Spratt H, Bage J, Smith E, Douglas S, Norris L, Boden S.

\$1,000

Topical Lotions and Cream Utilized in Outpatient Rehabilitation Clinics as a Potential Source of Bacterial Contamination

May 2015

Provost Student Research Award.

Levine D.

\$2,215

The Effect of Transcutaneous Electrical Nerve Stimulation on Neuropeptides and Hormones in Healthy Subjects

May 2015

UTC Faculty Research Grant

Levine D.

\$1,000

The Effects of Laser on Muscle Endurance

May 2015

LiteCure Inc.

Levine D., et al.

\$20,000

Research Center for Applied Biomolecular, Behavioral, and Health Studies

May 2014

University of Tennessee at Chattanooga Center of Excellence

Levine D., Spratt H, Harmon H, Rock B, Cooper Z.

\$765

Dry Needling as a Source of Bacterial Contamination

April 2014

Provost Student Research Award

Levine D., Barlow S, Ervin A, Dalton E, Westbrook J.

\$1,000

The Effect of Transcutaneous Electrical Nerve Stimulation on Plasma Beta-Endorphins in Healthy Subjects

April 2014

Provost Student Research Award

Levine D., Ingram D, Fell N, Cavarra C, Clements J, Thrasher E.

\$870

Attitudes, Beliefs, Knowledge and Perceived Barriers to Evidence-Based Practice  
in Physical Therapists Working in Long-Term Care Facilities

April 2014

Provost Student Research Award

Levine D., McDonald S, Aguilar L.

\$871.01

Motion Analysis of the Hand Using Adaptive Equipment

April 2014

Provost Student Research Award

Levine D., Dale B.

\$3,270

The Effects of Laser on Muscle Endurance

February 2013

LiteCure Inc.

Tilstra S, Levine D.

\$1,000

Effects of 1 MHz Ultrasound on Epaxial Muscle Temperature in Horses

April 2013

Provost Student Research Award

Sims L, Levine D.

\$1,000

The Immediate Effects of Retrowalking on Gait 6-weeks Following Total Knee  
Replacement

April 2012

Provost Student Research Award

Levine D.

\$10,066

Scholarships for Disadvantaged Students (SDS) Program

June 2011

Department of Health and Human Services, Public Health Service  
Health Resources and Services Administration

Davis C, Levine D.

\$1,000

Reliability and Validity of Goniometry in the Horse

April 2011

Provost Student Research Award

Boudrie RS, Levine D.

\$1,000

Bacterial Contaminants on Therapeutic Ultrasound Equipment  
April 2011  
Provost Student Research Award

Levine D.

\$3,007

Scholarships for Disadvantaged Students (SDS) Program

June 2010

Department of Health and Human Services, Public Health Service  
Health Resources and Services Administration

Dillon M, Levine D.

\$703.31

Presence of Microbes on Ultrasound Heads

April 2010

Provost Student Research Award

Reiff R, Levine D.

\$1,000

Subcutaneous and Capsular Bioavailability of Phonophoresis Driven Meloxicam

October 2009

Provost Student Research Award

Levine D.

\$4,870

Scholarships for Disadvantaged Students (SDS) Program

June 2009

Department of Health and Human Services, Public Health Service  
Health Resources and Services Administration

Levine D.

\$15,135

Scholarships for Disadvantaged Students (SDS) Program

June 2009

Department of Health and Human Services, Public Health Service  
Health Resources and Services Administration

Levine D., Mizer M, Morrison K, O'Neal G.

\$1000

Analysis of Piriformis Stretches Using Computerized Tomography

April 2008

Provost Student Research Award

Levine D.

\$12,562

Scholarships for Disadvantaged Students (SDS) Program

June 2008  
Department of Health and Human Services, Public Health Service  
Health Resources and Services Administration

Levine D., Haislip J, Ridgely T, Sharp A.  
\$364  
Palpation Ability of Physical Therapists  
April 2008  
Provost Student Research Award

Levine D.  
\$12,375  
Scholarships for Disadvantaged Students (SDS) Program  
June 2007  
Department of Health and Human Services, Public Health Service  
Health Resources and Services Administration

Levine D.  
\$25,000  
Title of Proposal: Upgrade of the H. Carey Hanlin Motion Analysis Laboratory  
2007  
UTC Student Technology Fee Funding Request

Levine D.  
\$5,000  
Physical Therapy Implications for the Metabolic Syndrome, Enhancing  
Rehabilitation Research in the South (ERRIS)  
September 2006  
National Center for Medical Rehabilitation (NCMRR)

Levine D.  
\$12,562  
Scholarships for Disadvantaged Students (SDS) Program  
Department of Health and Human Services, Public Health Service  
Health Resources and Services Administration, June 2006

Levine D.  
\$1322  
Faculty Development Grant  
February 2006  
University of Tennessee at Chattanooga

Levine D.  
\$6,474  
Scholarships for Disadvantaged Students (SDS) Program  
June 2005

Department of Health and Human Services, Public Health Service  
Health Resources and Services Administration

Levine D.

\$1358

Faculty Development Grant

March 2005

University of Tennessee at Chattanooga

Levine D.

\$4,685

Scholarships for Disadvantaged Students (SDS) Program

June 2004

Department of Health and Human Services, Public Health Service  
Health Resources and Services Administration

Levine D.

\$18,025

Scholarships for Disadvantaged Students (SDS) Program

June 2003

Department of Health and Human Services, Public Health Service  
Health Resources and Services Administration

Frogg S, Stooksbury J, Levine D., Whittle M.

\$1000

Lower Extremity Kinematic Analysis of Running under Various Conditions of  
Lighting

June 2003

Provost Student Research Award

Whittle M, Levine D.

\$700

Lower Extremity Kinematic Analysis of Running under Various Conditions of  
Lighting

October 2002

College of Health and Human Services - Research Expense Competition

Levine D.

\$444

Attendance at the World Confederation for Physical Therapy Meeting

October 2002

Lupton Faculty Professional Participation Fund

Levine D.

\$13,797

Scholarships for Disadvantaged Students (SDS) Program  
September 2002  
Department of Health and Human Services, Public Health Service  
Health Resources and Services Administration

Levine D.

\$300

Attendance at North American Laser Association Conference  
March 2002  
College of Health and Human Services Research Competition

Levine D.

\$40,787

Scholarships for Disadvantaged Students (SDS) Program  
September 2001  
Department of Health and Human Services, Public Health Service  
Health Resources and Services Administration

Levine D.

\$254

Validity and Reliability of Goniometry in Labrador Retrievers  
October 2000  
College of Health and Human Services Research Competition

Hahulski G, Marcellin-Little D, Levine D., Thrall D.

\$1,535

Validity and Reliability of Goniometry in Labrador Retrievers  
September 2000  
College of Veterinary Medicine, North Carolina State University

Levine D.

\$41,794

Scholarships for Disadvantaged Students (SDS) Program  
September 2000  
Department of Health and Human Services, Public Health Service  
Health Resources and Services Administration

Rolin M, Griffen M, Levine D., Whittle M.

\$818

Effects of Static Magnetic Fields on Grip Strength  
May 2000  
Provost Student Research Award

Levine D.

\$324

Enhancement of Instruction in Teaching Therapeutic Exercise in Physical and Occupational Therapy Programs  
February 2000  
Instructional Excellence Award

Levine D.

\$24,016

Scholarships for Disadvantaged Students (SDS) Program

September 1999

Department of Health and Human Services, Public Health Service, Health Resources and Services Administration

Levine D., Pharo B.

\$759

Changes in Lumbar Lordosis as a Result of Running Up or Down an Incline

May 1999

Provost Student Research Award

Levine D.

\$307

Effects of Superficial Cooling on Tissue Temperature in the Dog

April 1999

College of Health and Human Services Research Competition

Levine D.

\$63,648

Scholarships for Disadvantaged Students (SDS) Program

September 1998

Department of Health and Human Services, Public Health Service, Health Resources and Services Administration

Fell N, Levine D.

\$450

Neuromuscular Electrical Stimulation CD-ROM Site License

May 1998

CECA Research Grant, The University of Tennessee at Chattanooga

Levine D.

\$53,668

Scholarships for Disadvantaged Students (SDS) Program

September 1997

Department of Health and Human Services, Public Health Service, Health Resources and Services Administration

Levine D.

\$35,793



Scholarships for Disadvantaged Students (SDS) Program  
September 1996  
Department of Health and Human Services, Public Health Service, Health  
Resources and Services Administration

Levine D.

\$33,675

Scholarships for Disadvantaged Students (SDS) Program

September 1995

Department of Health and Human Services, Public Health Service, Health  
Resources and Services Administration

Millis D, Levine D., Brumlow M.

\$3250

The Effects of Early Rehabilitation of the Dog Following Cranial Cruciate  
Ligament Reconstruction Surgery

August 1995

Companion Animal Fund

Levine D., Brumlow, M.

\$1000

The Effects of Early Rehabilitation of the Canine Following Cranial Cruciate  
Ligament Reconstruction Surgery

May 1995

Provost Student Research Award

Levine D.

\$500

Rehabilitation of the Canine Following Anterior Cruciate Ligament Reconstruction  
September 1994

Faculty Development Grant

The University of Tennessee at Chattanooga

Levine D., Tucker L.

\$1000

A Comparative Study of the Effects of Two Types of Ankle-Foot-Orthosis on  
Hemiplegic Gait

May 1994

Provost Student Research Award

Levine D.

\$11,017

Dynamic Relationships between Lumbar Lordosis, Pelvic Tilt, and Abdominal  
Muscle Performance

July 1993

Doctoral Research Award

Foundation for Physical Therapy

Levine D., Gross T.

\$900

Comparison of the Metabolic Costs of Voluntary Isotonic Contraction Versus Electrically Induced Isotonic Contraction in the Quadriceps Femoris

March 1993

Provost Student Research Award

The University of Tennessee at Chattanooga

Levine D.

\$2,000

Enhancement of Physical Therapy Department Student Microcomputer Laboratory

March 1993

CECA Research Grant

The University of Tennessee at Chattanooga

Levine D.

\$1000

Faculty Development Grant

March 1992

The University of Tennessee at Chattanooga

Levine D., Martin T.

\$715

The Effects of Ankle-Foot Orthosis on Static and Dynamic Weight-bearing Patterns and Balance in the Hemiplegic Patient

May 1991

Provost Student Research Award

Levine D., Walker JR, Tillman, L.

\$1650

The Effect of Abdominal Muscle Performance on Pelvic Tilt and Lumbar Lordosis

December 1990

Faculty Research Grant

The University of Tennessee at Chattanooga

Levine D.

\$495

Manual Muscle Testing Video Library

November 1990

Instructional Excellence Award

Current/Active Research Activity:

Sleep Disorders in Individuals with Stroke

Authorship: Lead and interprofessional team collaborative

Nature: Discovery and integration

Funding: Internal grants

Sleep Disorders in Individuals with Ehlers-Danlos Syndrome

Authorship: Lead and interprofessional team collaborative

Nature: Discovery and integration

Funding: Internal and External grants

Physical Therapy Interventions for Ehlers-Danlos Syndrome

Authorship: Lead and interprofessional team collaborative

Nature: Discovery

Funding: Internal and External grants

Canine Rehabilitation

Authorship: Lead and interprofessional team collaborative

Nature: Discovery and integration

Funding: Internal and External grants

Equine Rehabilitation

Authorship: Lead and interprofessional team collaborative

Nature: Discovery and integration

Funding: Internal and External grants

Infectious Disease

Authorship: Lead and interprofessional team collaborative

Nature: Discovery

Funding: Internal and External grants

Evidence Based Practice

Authorship: Lead and interprofessional team collaborative

Nature: Discovery and integration

Funding: Internal and External grants

### Membership in Scientific/Professional Organizations

Association for Professionals in Infection Control and Epidemiology, Inc.

2018 - Present

American Council on Academic Physical Therapy

2019 - Present

American Congress of Rehabilitation Medicine  
2016 - Present

American Occupational Therapy Association  
2016 - Present

UTC Council of Scholars  
2007 - Present

Alpha Society (Alpha Scholastic Honor Society)  
2006 - Present

International Association of Veterinary Rehabilitation and Physical Therapy  
September 2003 - Present  
Treasurer

Academy of Clinical Electrophysiology and Wound Management, APTA  
1990 - Present

Orthopaedic Section-American Physical Therapy Association  
1990 - Present

American Physical Therapy Association  
1986 - Present

North American Association for Laser Therapy  
2002 - 2005

Veterinary Orthopedic Society  
1999 - 2005

Consultative and Advisory Positions Held:

Vice President American Physical Therapy Special Interest Group in Biophysical Agents, Part of the Academy of Clinical Electrophysiology and Wound Management  
Board of Directors  
2021-Present

Associate Editor  
Frontiers in Veterinary Sciences Veterinary Surgery and Anesthesiology Section  
2017-Present

Editorial Board PeerJ  
March 2015 – Present

Canine Arthritis Rehabilitation Exercise and Sports Medicine  
2014-2019

BioMed Central Veterinary Research  
Manuscript Reviewer  
2014- Present

Feetz  
Expert Consultant  
2014-2016

Journal of Small Animal Practice  
Manuscript Reviewer  
2012-Present

Editorial Board Scientifica  
2012- Present

Australian Veterinary Journal  
Manuscript Reviewer  
2011-Present

British Medical Journal  
Manuscript Reviewer  
2011-Present

The International Association for Veterinary Rehabilitation and Physical Therapy  
Board of Directors  
2008- Present

International Journal of Sports Medicine  
Manuscript Reviewer  
2008-Present

Veterinary Technician  
Manuscript Reviewer  
2006-Present

Journal of the American Veterinary Medical Association  
Manuscript Reviewer  
2006-Present

American Journal of Veterinary Research  
Manuscript Reviewer  
2004-Present

Physical Therapy  
Manuscript Reviewer  
2004-Present

Athletic Therapy Today  
Manuscript Reviewer  
2001-Present

Gait and Posture  
Manuscript Reviewer  
1998-Present

Journal of Orthopaedic and Sports Physical Therapy  
Manuscript Reviewer  
1999-Present

Orthopaedic Section, American Physical Therapy Association  
Media Spokesperson  
1996- Present

Physical Therapy Association  
Student Government Association (SGA) Advisor  
1995- Present

The 10th International Symposium on Rehabilitation and Physical Therapy in  
Veterinary Medicine  
Scientific Committee Chair  
2018

Section on Clinical Electrophysiology and Wound Management  
CSM Abstract Reviewer  
2017

Evidence Based Practice Special Interest Group, Research Section  
APTA Vice President  
2016 – 2019

European Region – World Confederation for Physical Therapy  
Scientific Reviewer  
2016

The 9th International Symposium on Rehabilitation and Physical Therapy in  
Veterinary Medicine  
Scientific Committee Chair  
2016

Expert Consultant - Richmar Corp  
2016- 2017

APTA Research Section Awards  
Committee Chair  
2015-2016

University of Central Lancashire  
External Reviewer for Promotion  
2014

The 8th International Symposium on Rehabilitation and Physical Therapy in  
Veterinary Medicine  
Scientific Committee Chair  
2014

APTA Research Section Awards  
Committee Member  
2013-2015

Animal Physical Therapist Special Interest Group  
Nominating Committee  
2008- 2014

The 7th International Symposium on Rehabilitation and Physical Therapy in  
Veterinary Medicine  
Scientific Committee Chair  
2012

Therapeutic Electrophysical Agents: Evidence Behind Practice, Belanger AY.  
Lippincott Williams and Wilkins Scientific Reviewer  
2012

Missouri State University  
External Reviewer for Promotion  
2012

Belmont University  
External Reviewer for Promotion  
2011

APTA Research Section, Evidence Based Practice Special Interest Group  
Co-Chair of Curricular Recommendations Committee  
2011-2014

Virginia Commonwealth University  
External Reviewer for Promotion  
2010

North Carolina State University  
External Reviewer for Promotion  
2010

Auburn University  
External Reviewer for Promotion  
2010

The 6th International Symposium on Rehabilitation and Physical Therapy in  
Veterinary Medicine  
Scientific Committee Chair  
2010

Orthopedic Section, American Physical Therapy Association  
External Research Grant Reviewer  
2007- 2009

Animal Physical Therapist Special Interest Group, APTA  
Research Committee  
2006- 2010

Chattanooga State Technical Community College Veterinary Technician Program  
Advisory Board  
Academic  
2005- 2009

The 5th International Symposium on Rehabilitation and Physical Therapy in  
Veterinary Medicine  
Scientific Committee Chair  
2008

The 4th International Symposium on Rehabilitation and Physical Therapy in  
Veterinary Medicine  
Program Committee Member and Advisor  
2006

Cooperative State Research, Education, and Extension Service Small Business  
Innovation Research Program Small and Mid-Size Farms  
Peer Reviewer, United States Department of Agriculture  
2005-2006

Integrating Physical Agents in Rehabilitation (2nd Edition)



Prentice Hall Scientific Reviewer  
2005

Multiple Accepted Submissions Related to Golf and Orthopedic Physical Therapy  
Contributor to the American Physical Therapy Association's "Hooked on  
Evidence" Database.  
2004- 2007

Chattanooga Group  
Electrotherapy Protocol Design Group  
2004

The 3rd International Symposium on Rehabilitation and Physical Therapy in  
Veterinary Medicine  
Program Committee and Scientific Review Committee Member  
2004

The 3rd International Symposium on Rehabilitation and Physical Therapy in  
Veterinary Medicine  
Moderator, Clinical Research Presentations  
2004

American Physical Therapy Association Combined Sections Meeting  
Moderator, Orthopaedic Section  
2004

Rehabilitation Long-Term Training Grant Program  
Peer reviewer pool, United States Department of Education  
2002-2005

Animal Physical Therapist Special Interest Group, American Physical Therapy  
Association  
Vice President  
1998- 2003

The 2nd International Symposium on Rehabilitation and Physical Therapy in  
Veterinary Medicine  
Program Co-Chairman  
2002

Physical Agent Modalities Task Force Co-Coordinator  
1999- 2000

Recreational Programs for Individuals with Disabilities  
Peer Reviewer, US Department of Education National Institute on Disability &  
Rehabilitation Research (NIDRR)

1999

Field Initiated Research program

Peer Reviewer

National Institute on Disability & Rehabilitation Research (NIDRR) grant competition

1998

National Athletic Trainers' Association Research and Education Foundation

Grant Reviewer

1998- 2000

Tennessee Chapter of the American Physical Therapy Association

Research Committee Member

1996-1998

Fifth International Symposium on the 3-D Analysis of Human Movement

July 1998

Lower East Tennessee Health Occupations Student Association (HOSA)

Competition

Judge

1997

Southeast American College of Sports Medicine

Clinical Liaison

1996

Spring meeting of the Tennessee Physical Therapy Association

Session Director

1996

Federation of State Boards of Physical Therapy

Item reviewer for the Physical Therapy National Examination

1993- 1996

Tennessee Chapter of the American Physical Therapy Association

Research Committee Chairperson

1990- 1996

Tennessee Chapter of the American Physical Therapy Association

Board of Directors

1990-1996

Chattanooga Corporation Development and Marketing of Physical Therapy Equipment

Key Group Communication Team  
1993- 1995

Platform Presentations on Head Trauma at the 1995 World Confederation for  
Physical Therapy Congress  
Vice-Chairperson  
June 26, 1995

American Physical Therapy Association  
Session chairman, Exercise in the Diabetic: Complications and Clinical Concerns  
1994

Lower East Tennessee Health Occupations Student Association (HOSA)  
Competition  
Judge  
1994

Sports, Arts, and Recreation of Chattanooga  
Advisory Council  
1993- 1994

Federation of State Boards of Physical Therapy  
Academy of Content Experts  
April 1991- September 1993

American Physical Therapy Association  
Session Chairman, Platform Presentations on Measurement  
1992

American Physical Therapy Association  
Session Chairman, Functional EMG Assessment of Low Back Dysfunction  
1992

Chattanooga Corporation  
Electrotherapy Focus Group  
1992

Lower East Tennessee Health Occupations Student Association (HOSA)  
Competition  
Judge  
1992

American Physical Therapy Association  
Session Chairman, Platform Presentations on Measurement  
1991

Massachusetts Chapter of the American Physical Therapy Association  
Executive Board of Directors  
1987-1989

Massachusetts Chapter of the American Physical Therapy Association  
Chairperson, Cape Cod District  
Delegate  
1987- 1989

Massachusetts Chapter of the American Physical Therapy Association  
Communications Chairperson, Cape Cod District  
1986- 1987

### Community Service

Committee Member  
Pediatric Infectious Disease Committee (Erlanger Health Care System)  
April 2021 - Present

Committee Member  
Downside Up, Inc  
August 2015 - Present

UTC Brock Scholars Selection Committee  
Academic  
2015- Present

UTC Honors College  
Advisory Board  
2015- Present

Member  
COVID-19 Contact Tracing  
May 2020 - August 2020

Committee Member  
TEDxBaylor  
September 2016 - December 2017

Committee Member  
Co-Chair TEDxChattanooga  
2015 - 2017

Medical Volunteer  
Volunteers in Medicine clinic  
2010 - 2015

Advisory Board Member  
Veterinary Technology program at Chattanooga State  
2004 - 2009

Medical Care  
Alvin Ailey Dance Institute  
2007 - 2008

Guest Speaker  
WUTC  
2007

Guest Speaker  
Chattanooga Association of Social Workers  
July 2006

Volunteer  
Community Outreach Partnership Center  
2001 - 2003

Volunteer  
Goodwill industries  
2001 - 2002

Volunteer  
Cornerstone society (Chattanooga historical foundation)  
1996 - 2000

Board Member  
Sports, Arts, and Recreation of Chattanooga  
1994 - 2000

In-Services  
UTC Wellness Program  
1993 - 1996

Fundraising Committee  
Sports, Arts, and Recreation of Chattanooga  
1994 - 1995

TV Advertisement  
Channel 3 News  
October 1994

Medical Volunteer  
Sports Medicine Foundation of Chattanooga  
1990 - 1993

Big Brother  
Big Brothers Association of Fall River  
1986 - 1990

Guest Speaker  
WSAR  
1987 - 1988

Medical Volunteer  
Boston Athletic Association  
1986 - 1988

#### Services to the University/College/School on Committees/Councils/Commissions

##### University:

2014 - Present  
Advisory Board, UTC Honors College

2021 - 2023  
Budget and Economic Status Committee  
Chair

April 4, 2021 - April 10, 2021  
Guerry Professor Committee

August 2019 - 2020  
Course Learning Evaluations Committee

2015 - 2018  
Faculty Rating Of Administration Committee

2013 - 2017  
UTC TED Club  
Student Organization Faculty Advisor

2013 - 2016  
TEDx Ad Hoc Committee

2014 - 2015  
Departmental Honors Committee

2012 - 2014  
Council of Scholars Nomination Committee

2012 - 2013  
Honors College Task Force  
Committee Member

2012 - 2013  
University of Tennessee at Chattanooga Budget and Economic Status

2012 - 2013  
University of Tennessee at Chattanooga Research Committee  
Committee Member

2010 - 2012  
Faculty rating of administration  
Committee Member

2007 - 2012  
Nominating Committee – Alpha Scholastic Honor Society  
Committee Member

2010 - 2011  
Departmental Honors committee  
Committee Member

2008 - 2010  
Library Committee  
Committee Member

2007 - 2010  
College of Medicine Chattanooga Campus Research Advisory Committee  
Committee Member

2002 - 2009  
Institutional Review Board  
Committee Member

2007 - 2008  
Athletic Training Advisory Committee  
Committee Member

2007 - 2008  
UTNAA Professorship Selection Committee  
Committee Member

2006 - 2007  
Departmental honors Committee  
Committee Chair

2004 - 2007  
Departmental honors Committee  
Committee Member

2005  
Ad Hoc Peer Institutions Committee  
Committee Member

2003 - 2005  
Petitions Committee  
Committee Chair

2002 - 2005  
Health and Performance Institute Board  
Committee Member

2002 - 2005  
Petitions Committee  
Committee Member

2002 - 2004  
University of Tennessee Chattanooga Workplace Wellness Program Advisory  
Team  
Committee Member

2003  
Washington Center Internships Selection Committee  
The Washington Center

2000 - 2003  
Departmental Honors Committee  
Committee Member

2002  
Lupton Institute Planning Committee  
Committee Member



1993 - 2002  
Residency Appeals Committee  
Committee Member

1999 - 2000  
SACS Committee Student Development Services  
Committee Member

1993 - 2000  
Men's and Women's Intercollegiate Cross-country, Indoor and Outdoor Track  
Teams  
Faculty Sponsor

1996 - 1998  
Wellness Committee

1995 - 1998  
Petitions Committee  
Committee Member

1997  
Role and Scope Athletics Committee  
Committee Member

1994 - 1997  
Athletics Board  
Committee Member

1994 - 1997  
Athletics Committee  
Committee Member

1995  
Faculty Council Ad Hoc Committee Student Disciplinary Action  
Committee Member

1993 - 1995  
Committee on Committees (elected)  
Committee Member

1993 - 1995  
Faculty Council (elected)  
Committee Member

1992 - 1995  
Facilities Use Committee  
Committee Member

1992 - 1994  
Departmental Honors Committee  
Committee Member

1988 - 1989  
Newbury College Division of Continuing Education Committee  
Committee Member

College:

August 2019 - Present  
Post-Tenure Review  
Committee Member

August 2019 - Present  
PTR Committee  
Committee Member

2021-2022  
Counseling Psychology Search  
Committee Chair

December 2018 - July 2019  
Anatomist Search Committee (CHEPS)  
Committee Chair

September 2018 - December 2018  
Department Head Search Committee  
Committee Chair

2006  
College of Health, Education and Professional Studies Search Committee  
Graduate School Liaison Position

2002  
College of Health and Human Services Faculty Awards Committee  
Committee Member

1998  
College of Health and Human Services Awards Committee  
Committee Chair

1997 - 1998

College of Health and Human Services General Education Committee  
Committee Member

1997

School of Nursing Selection Committee for H. Clay Evans Johnson Professorship  
of Nursing  
Committee Member

1996

College of Health and Human Services Search Committee, Occupational  
Therapy Program Coordinator  
Committee Member

1995

College of Health and Human Services 21st Century Capital Campaign  
Committee Chair

1994

College of Health and Human Services Goals Committee (Research  
Subcommittee)  
Committee Member

1993

College of Health and Human Services Awards Committee  
Committee Member

Department:

August 1, 2019 - Present  
Occupational Therapy PTR Chair  
Committee Chair

August 1, 2019 - Present  
Physical Therapy PTR Chair  
Committee Chair

August 2019 - Present  
Research & Scholarship  
Committee Chair

October 2018 - Present  
Faculty Search Committee Chair (Neurological position)  
Committee Chair

2018 - Present  
University of Tennessee Chattanooga Curricular Committee  
Committee Member

2008 - Present  
Accreditation Committee  
Co-Chair

2002 - Present  
Faculty Development Committee  
Committee Chair

2000 - Present  
Curriculum Committee  
Committee Member

November 2019 - 2020  
Search Committee (2 tenure track positions)  
Committee Chair

2018 - 2019  
Search Committee  
Committee Member

May 2019 - July 2019  
DCE Search Committee  
Committee Chair

August 2018 - July 2019  
Curriculum Committee  
Committee Chair

2013 - 2018  
Promotion, Tenure, and Retention Committee  
Committee Chair

August 2015 - August 2018  
Occupational Therapy RTR  
Committee Chair

August 2013 - August 2018  
Physical Therapy RTR  
Committee Chair

2013 - 2017  
Faculty and Student Scholarship  
Committee Member

2016  
Scholarship Committee  
Committee Member

2015  
Search Committee  
Committee Member

2012 - 2013  
Departmental Search Committee Chairperson-Department of Physical Therapy  
Committee Chair

2010 - 2013  
Alumni and Community Partners Committee  
Committee Chair

2006 - 2012  
Faculty and Student Scholarship  
Committee Chair

2005 - 2009  
Maintain Departmental Web Site and Departmental Scheduling and  
Corresponding Software (Macromedia Contribute and Mimosa)  
Facilities Responsibilities

2002 - 2004  
Curriculum Committee  
Committee Member

2001 - 2003  
Adjunct Faculty Committee  
Committee Chair

2002  
Department Head Search Committee  
Committee Chair

1995 - 1997  
Clinical Involvement Committee  
Committee Member

1995  
Search Committee  
Committee Chair

1995  
United Way  
Group Captain

1993 - 1994  
Curriculum Committee  
Committee Chair

1992 - 1994  
Curriculum Committee  
Committee Member

1991 - 1994  
Research Committee  
Committee Member

1999 - 2002  
College of Health and Human Services Faculty and Staff Development  
Committee

### Honors and Awards

Outstanding Research Award  
College of Health, Education and Professional Studies  
2020

University of Tennessee at Chattanooga  
Exceptional Merit EDO Rating  
2018- 2019

Catherine Worthingham Fellow  
American Physical Therapy Association  
2018

Fellow  
International Association of Veterinary Rehabilitation and Physical Therapy  
2016

Distinguished Service Award  
Orthopaedic Section, American Physical Therapy Association Animal  
Rehabilitation Special Interest Group  
2014

Elizabeth Dalton Award  
University of Tennessee at Chattanooga College of Health, Education, and  
Professional Studies  
2013

University of Tennessee at Chattanooga  
Exceptional Merit EDO Rating  
2012-2014

Platinum Award for Best Poster  
North Carolina State University Research Forum  
2012

University of Tennessee at Chattanooga  
Exceptional Merit EDO Rating  
2009-2010

University of Tennessee at Chattanooga  
Exceptional Merit EDO Rating  
2007-2008

Elected to UTC Council of Scholars  
University of Tennessee at Chattanooga  
2007

Elected to Alpha Scholastic Honor Society  
University of Tennessee at Chattanooga  
2006

College of Education and Applied Professional Studies- University of Tennessee  
Chattanooga

College of Education and Applied Professional Studies- University of Tennessee  
Chattanooga  
Outstanding Research Award  
2004-2005

University of Tennessee Chattanooga  
Exceptional Merit EDO Rating  
2004-2005

Distinguished Service Award  
Orthopaedic Section, American Physical Therapy Association  
2004

Award of Excellence  
Tennessee Occupational Therapy Association  
2003

University of Tennessee Canine Rehabilitation Certificate Program Best  
Programming Award  
Learning Resource Network (LERN)  
2003

College of Education and Applied Professional Studies- University of Tennessee  
Chattanooga  
Outstanding Research Award  
2002-2003

University of Tennessee Chattanooga  
Exceptional Merit EDO Rating  
2001-2003

College of Health and Human Services- University of Tennessee Chattanooga  
Outstanding Research Award  
2001

Research Sabbatical  
University of Tennessee Chattanooga  
2000

College of Health and Human Services- University of Tennessee Chattanooga  
Outstanding Research Award  
1997

Tennessee Physical Therapy Association  
Award for Service to the Research Committee  
April 1996

College of Health and Human Services- University of Tennessee Chattanooga  
Outstanding Research Award  
1996

University of Tennessee at Chattanooga  
Exceptional Merit EDO Rating  
1995-1997

UC Foundation Professorship  
Teaching Award  
July 1995



College of Health and Human Services- University of Tennessee at Chattanooga  
Outstanding Research Award  
1995

University of Tennessee at Chattanooga  
Exceptional Merit EDO Rating  
1993-1994

University of Tennessee at Chattanooga- College of Health and Human Services  
1992

University of Tennessee at Chattanooga  
Exceptional Merit EDO Rating  
1991-1992

Mary McMillan Scholarship Award  
American Physical Therapy Association  
1990

Dean's List  
University of New England  
Fall 1983-Spring 1986

Regents Scholarship  
New York State  
1982-1983

Continuing Education Attended (2017- Present):

CITI Online Training Program:

Biomedical Research Investigators, expiration 11/05/2023  
Biomedical Responsible Conduct of Research, expiration 02/18/2026  
Research with Older Adults, expiration 11/05/2022  
Research with Subjects with Physical Disabilities & Impairments, expiration  
11/05/2022  
Social and Behavioral Research Investigators, expiration 02/23/2023  
Conflict of Interest, expiration 04/14/2023  
Investigators and key Study Personnel 12/22/2022

APTA CSM 2023  
San Diego, CA  
February 2022

Attendance included: The Reality Regarding Biophysical Agents Use in Clinical  
Education and Physical Therapy Practice (2 hours), Thinking Beyond Dermatomes and  
Myotomes: Differential Diagnosis and Management of Patients With Lower Extremity  
Symptoms (2 hours), Where Does the EBP Rubber Meet the Clinical Road? Driving

Best Practice (2 hours), Precision Physical Therapy: How Lifelong Healthy Behaviors Modulate Biology, Determine Health, and Affect Populations (2 hours)

APTA CSM 2022  
San Antonio, TX  
February 2022

Attendance included: Competency-Based Education in Physical Therapy 101 (2hrs); Clinical Practice Guidelines in Education: Developing Expert Clinicians With Best Evidence (2hrs); Where the Rubber Meets the Road: Teaming Up to Implement Best Practice (2hrs); "Hippest Hound Around"-Rehabilitation and Management of Dogs with Hip Dysplasia (2hrs); When Patients "Fail" Exercise. Challenges in Prescribing Exercise for Hypermobile Ehlers-Danlos Syndrome and Dysautonomia (2hrs).

True Colors Workshop  
Fall 2021 Faculty Retreat

APTA CI Instructor course (4/16-17/2021)  
Walker Center for Teaching and Learning courses/conferences and Library and Studio group or individual instruction  
Sample of Group sessions: Proctorio (1 hr Fa2020); Kaltura (Fa2020), Instructional Excellence Spring Retreats (2017, 2018)  
Certificate of completion for Applying the Quality Matters Rubric. 20 hour course on design of online and blended courses, 2017

APTA-CSM 2021  
Virtual  
February 2021

Attendance Included (All 60-90 min sessions): Neuromuscular Electrical Stimulation: The Evidence is There but Why Aren't We Using It? Population Health Management and Precision Medicine in Orthopedic: Strange Bedfellow or Natural Companions? Dianne Cherry forum: Competency based Education: The Wave of the future? Teaching the Essentials of Social Determinants of Health; The Future of PT Education: Preparing Faculty for Online Delivery: Utilizing Tele-health for Continuity of Care in Pediatric Physical Therapy Amid the COVID-10 Pandemic; What you need to be a pro at PRO's (Patient Reported Outcomes).

ELC 2020  
Virtual Conference

Attendance included: Beyond Universal Precautions: Curricular Content in Infection Control (presenter, 1 hr); Beyond Universal Precautions - Curricular Content in Infection Control and Prevention (60 min), Innovative Course Design and Delivery in a Hybrid Model (60 min), Envisioning the Future of PT Education: Building Our Strategic Path Forward in the Second Century (60 min)

## APTA-CSM 2020

Denver, CO

Attendance included: (2 hr sessions): 2-hour sessions attending include: Adventures in the Evidence Pyramid: Incorporating Rigorous Qualitative Methodologies to Enhance Clinical Research, Part 1 (120 min), Adventures in the Evidence Pyramid: Incorporating Rigorous Qualitative Methodologies to Enhance Clinical Research, Part 2 (120 min), What's That Button Do? Optimizing Pain Control and Strength Gains with Biophysical Agents (120 min), Investing in the Academic Future of Physical Therapy Learners: The Resident Educator (120 min)

## American College of Rehabilitation Medicine 2020

Virtual

Attendance included: Chronic Pain Management: An Integrative, Complementary Perspective (3 hours), Enhancing Clinical Utility of Patient Reported Outcomes in Rehabilitation (90 min.), An Electrifying Introduction to the Use of Functional Electrical Stimulation in Neurorehabilitation: A Hands-on Approach (4 hours)

## Courses related to Pedagogy

- Nvivo – training on qualitative software, (2019)
- Certificate of completion for Applying the Quality Matters Rubric. 20-hour course on design of online and blended courses, (2018)
- Course Design for Student Learning and Success (2015)
- Beyond Brainstorming: Teaching Effective Design and Creativity Workshop (2015)
- Organizing and Online Course (2015)
- Myths and Truths of Online Learning (2015)

In addition to the courses/presentations listed above I teach several seminars routinely:

- State of Tennessee Certification course- Physical Agents Modalities for Occupational Therapists (Taught 44 times), 15 hour class
- State of Tennessee Certification course- Electrotherapeutic modalities for Occupational Therapists (Taught 43 times), 20 hour class

The following courses are part of the University of Tennessee Certificate Program in Canine Rehabilitation that I co-direct (<https://www.utvetce.com/canine-rehab-ccrp/>)

- Canine I (Taught 34 times, now online)
- Canine II VET (Taught 39 times)
- Canine II PT (Taught 39 times)
- Canine III VET (Taught 39 times)
- Canine IV (Taught 39 times)
- Canine VI/VII (Taught 39 times)

### Current Teaching Responsibilities in the Entry-Level DPT Program:

#### Term 1

PHYT 7114, Evidence in Practice (2 hours credit hours, 2 hours)

Course Coordinator and Primary Instructor

#### Term 2

PHYT 7123/ OCTH 7123, Physical Agents (2 credit hours, 3 contact hours)

Course Coordinator and Primary Instructor

#### Term 3

PHYT 7132/ OCTH 7132, Electrotherapeutic Modalities (2 credit hours, 3 contact hours)

Course Coordinator and Primary Instructor

#### Term 4

PHYT 7212, Critical Inquiry (3 credit hours, 3 contact hours)

Course Coordinator and Primary Instructor

#### Term 5

PHYT 7226, Research Investigation I (2 credit hours, 3 contact hours)

Course Coordinator and Primary Instructor

### Invited Guest Lecturer/Professor

- Midwestern University, Glendale, AZ
- Cambridge University, Cambridge, England
- University of California Davis, Davis, CA
- North Carolina State University, Raleigh, NC
- Auburn University, Auburn, Alabama
- Elon University, Elon, NC
- The University of Parma, Parma, Italy
- The Royal Veterinary College, London, UK
- The University of Tennessee College of Medicine (Chattanooga Unit)
- The University of Tennessee College of Veterinary Medicine, Knoxville, TN
- Nashville State Community College, Nashville, TN
- Vanderbilt University, Nashville, TN
- Oregon State University, Corvallis, OR
- Nihon University, Tokyo, Japan
- The University of Colorado Health Sciences Center, Denver, CO
- The Swedish Agricultural University, Uppsala, Sweden
- Roane State Community College, Oak Ridge, TN
- The University of Vienna, Vienna, Austria
- Barneveld College, Arnhem, Netherlands
- Kasetsart University, Bangkok, Thailand
- The University of Central Lancashire, Preston, UK
- The University of New England, Portland, Maine