



# Physical Therapy Program

SCHOOL OF MEDICINE

UNIVERSITY OF COLORADO  
**ANSCHUTZ MEDICAL CAMPUS**

**VA**



**U.S. Department of Veterans Affairs**  
Veterans Health Administration  
*Geriatric Research, Education, and Clinical Centers*

## **CURRICULUM VITAE** **JENNIFER STEVENS-LAPSLEY, PT, PhD, FAPTA**

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## DEMOGRAPHIC INFORMATION

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## EDUCATIONAL PROGRAMS & INSTITUTIONS

Physical Therapy Program, Department of PM&R, University of Colorado, Anschutz Medical Campus, Aurora, CO  
VA Eastern Colorado Health Care System, Geriatric Research, Education and Clinical Center, Denver, CO

## EDUCATION

2002-2005	University of Florida, Gainesville, FL	Post-Doctoral Fellow
1998-2002	University of Delaware, Newark, DE	PhD in Biomechanics
1996-1998	University of Delaware, Newark, DE	MS in Physical Therapy
1991-1995	University of Virginia, Charlottesville, VA	BA in Biology

## EMPLOYMENT

Aug 2024-present	<b>Interim, Vice Chair of Research</b> , Department of Physical Medicine and Rehabilitation, University of Colorado, Aurora Colorado
April 2024-present	<b>Associate Director of Research</b> , Geriatric Research Education and Clinical Center, VA Eastern Colorado Healthcare System, Aurora, CO
Jul 2021-April 2024	<b>Interim Associate Director of Research</b> , Geriatric Research Education and Clinical Center, VA Eastern Colorado Healthcare System, Aurora, CO
Jul 2021-Aug 2024	<b>Section Director, Research and Development</b> , Physical Therapy Program, University of Colorado, Anschutz Medical Campus, Aurora, CO
Oct 2016-present	<b>Director</b> , Rehabilitation Science PhD Program, Physical Therapy Program, University of Colorado Denver, Anschutz Medical Campus, Aurora, CO
Feb 2016-present	<b>Health Scientist</b> , Geriatric Research Education and Clinical Center, VA Eastern Colorado Healthcare System, Denver, CO
Jul 2015-present	<b>Professor with Tenure</b> , Physical Therapy Program, University of Colorado, Anschutz Medical Campus, Aurora, CO
Jan 2006-present	<b>Director</b> , RESTORE Laboratory, Department of Physical Medicine and Rehabilitation, University of Colorado, Anschutz Medical Campus, Aurora, CO
Jul 2010-June 2015	<b>Associate Professor</b> , Physical Therapy Program, University of Colorado, Anschutz Medical Campus, Aurora, CO
Jan 2006-Jun 2010	<b>Assistant Professor</b> , Physical Therapy Program, University of Colorado, Anschutz Medical Campus, Aurora, CO
Jan-Dec 2005	<b>Physical Therapist</b> , Oak Hammock Continuous Retirement Community, Gainesville, FL
Jan 2004-Dec 2005	<b>Associate Investigator</b> , Post-doctoral Fellow, Malcom Randall VA Medical Center, Brain Rehabilitation and Research Center, Gainesville, FL
Jun 2002-Dec 2003	<b>Post-Doctoral Fellow</b> , University of Florida, Gainesville, FL
Aug 2003-Jan 2005	<b>Per Diem Physical Therapist</b> , Select Medical, Outpatient Physical Therapy Clinic, Gainesville, FL
Sept 1998- Dec 2001	<b>Per Diem Physical Therapist</b> , University of Delaware Physical Therapy Clinic
Sept 1998-May 2002	<b>Research Assistant</b> in muscle physiology at the University of Delaware, Department of Physical Therapy
Jun-Aug 1994,1995	<b>Research Assistant</b> in plant genetics at Mountain Lake Biological Station
Jun-Aug 1991-1993	<b>Research Assistant</b> in Bacterial Genetics at the National Institutes of Health

Scholarly Agenda: Dr. Stevens-Lapsley leads a multi-faceted research program that advances innovative, evidence-based solutions for older adult rehabilitation. Her work integrates implementation science, predictive analytics, and tele-rehabilitation to optimize rehabilitation outcomes across diverse clinical settings and populations, using rigorous research methods to drive impactful improvements in care.

#### ADVISORY POSITIONS

2024-present	Institute for Musculoskeletal Advancement (iMSKA) Advisory Board
2023-present	Chair, Observational, safety and monitoring board (OSMB) for Multicenter Osteoarthritis Study (MOST)
2022- present	University of Delaware, Predoctoral Training in Physical Therapy and Rehabilitation Research External Advisory Committee (NIH T32 HD007490)
2019-present	American Physical Therapy Association's Scientific and Practice Affairs Advisory Committee
2020-present	University of Colorado Anschutz Medical Campus Multidisciplinary Center on Aging Executive Committee
2019-2023	Chair, Data Safety Monitoring Board for Chronic Low Back Pain in Older Adults: The Role of Co-Existing Hip Impairments
2017-2021	National Institutes of Health (NIH) NCMRR National Advisory Board on Medical Rehabilitation Member
2017-2019	American Physical Therapy Association Total Joint Arthroplasty Clinical Practice Guidelines
2017-2020	Observational, safety and monitoring board (OSMB) for Multicenter Osteoarthritis Study (MOST)
2010-2015	Data Safety Monitoring Board for The Diagnosis and Treatment of Critical Illness Polyneuropathy, R01 (Moss, PI)
2013-2017	Data Safety Monitoring Board for the Study of Hyperkyphosis, Exercise and Function, R01 (Katzman, PI)
Nov 2013	Invited Reviewer of PhD program in Rehabilitation Sciences at New York University Steinhardt School of Culture, Education, and Human Development
2013	American Academy of Orthopaedic Surgeons Appropriate Use Criteria for Treatment of Osteoarthritis of the Knee Writing Panel
2011-2013	Scientific Advisory Board for Promoting Healthy Cancer Survivorship in Rural Colorado Primary Health Care Practice, NIH R25-CA160013
2012-present	Delphi International Panel on Therapeutic Validity in Exercise Therapy
2011	Technical Expert Panel member for the Minnesota Evidence-based Practice Center's project on Physical Therapy for Knee Pain Secondary to Osteoarthritis; Sponsored by Agency for Health Research and Quality
2010-2013	Gait as a Vital Sign Task Force
2008-2009	Delphi Panel for Total Knee Arthroplasty Rehabilitation

#### HONORS, SPECIAL RECOGNITIONS & AWARDS

2026	Carole B. Lewis Lecture Award, Academy of Geriatrics, APTA; to be presented in February 2026.
2022	American Physical Therapy Association Jack Walker Award for a clinical research publication in Physical Therapy for: Falvey J, Bade MJ, Forster JE, <b>Stevens-Lapsley JE</b> . Poor Recovery of Activities-of-Daily-Living Function Is Associated with Higher Rates of Postsurgical Hospitalization after Total Joint Arthroplasty.
2022	Glen E. Gresham Visiting Professor in Rehabilitation Science, University of Buffalo.
2021	Irma Ruebling Distinguished Speaker: Building a Clinical Research Program: The view is different from the inside, St. Louis University.
2020	Catherine Worthingham Fellow, American Physical Therapy Association.
2020	Society of Critical Care Medicine Award Winner: Factors Associated with Home Health Rehabilitation Utilization Among Older ICU Survivors.
2020	University of Delaware Physical Therapy Alumni Award.
2020	Steven J. Rose Award for Excellence in Orthopedic Research: Falvey JR, Bade MJ, Forster JE, Burke RE, Jennings JM, Nuccio E, <b>Stevens-Lapsley JE</b> . Home-Health-Care Physical Therapy Improves

- 2019 Early Functional Recovery of Medicare Beneficiaries After Total Knee Arthroplasty.  
American Physical Therapy Association (APTA) Marian Williams Research Award.
- 2019 APTA Dorothy Briggs Memorial Scientific Inquiry Award: Falvey JR, Burke RE, Levy CR, Gustavson AM, Price L, Forster JE, **Stevens-Lapsley JE**. Impaired Physical Performance Predicts Hospitalization. Risk for Participants in the Program of All Inclusive Care for the Elderly. *Physical Therapy*.
- 2016 University of Colorado Excellence in Doctoral Mentoring Award.
- 2015 Outstanding Research Poster Award: Multi-Component Rehabilitation Following Total Hip Arthroplasty: A Randomized, Controlled Trial, Judd D, Winters J, Dennis D, Miner T, Dayton M, **Stevens-Lapsley JE**, American Physical Therapy Association Orthopedic Section.
- 2013 APTA Jack Walker Award for a clinical research publication in *Physical Therapy* for: **Stevens-Lapsley JE**, Balter JE, Wolfe P, Eckhoff DG, Kohrt WM. Early Neuromuscular Electrical Stimulation to Improve Quadriceps Muscle Strength after Total Knee Arthroplasty: A Randomized Controlled Trial. *Physical Therapy*. Feb 2012; 92(2):210-26.
- 2013 American Physical Therapy Association's, Geriatrics Section, Excellence in Research Award.
- 2011 American Physical Therapy Association's Margaret L. Moore Award for Outstanding New Faculty Member.
- 2009 Outstanding Research Mentor Award for the Clinical Science Program, University of Colorado, Anschutz Medical Campus.
- 2002 American Physical Therapy Association (APTA) Viva J. Erickson/Promotion of Doctoral Studies II Scholarship Recipient, September 2001-May 2002.
- 2001 Chattanooga Research Award for the best clinical research publication in *Physical Therapy* for. Stackhouse SK, Stevens JE, Lee SK, Pearce KM, Snyder-Mackler L, Binder-Macleod SA. Maximum voluntary activation in nonfatigued and fatigued muscle of young and elderly individuals.
- 2001 American Physical Therapy Association (APTA) Promotion of Doctoral Studies I Scholarship recipient, September 2000-May 2001
- 1995 Phi Beta Kappa, University of Virginia
- 1994 Barry M. Goldwater Scholarship Recipient, University of Virginia

#### MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS

- 2024-present Gerontological Society of America
- 2024-present American Geriatrics Society
- 2006-2015 Arthritis Foundation
- 2006-present Association of Rheumatology Health Professionals
- 2001-2017 American College of Sports Medicine
- 1997-present American Physical Therapy Association
- Academy of Research, APTA National:  
Nominating Committee, APTA National, 2008-2011  
Research Planning Retreat Committee: Regenerative Medicine Retreat, 2012  
Research Planning Retreat Committee: Pain, 2015  
Research Co-Chair, Colorado Chapter, 2008-2023

#### COMMUNITY SERVICE

- Aug 2013-2017 **Volunteer**, Inner City Health Center; served as physical therapist for low-income patients.
- 2003-2019 **Program Director**, Nicaragua Physical Therapy Outreach through Health Volunteers Overseas. Responsibilities include coordinating volunteers for overseas assignments to provide instruction to physical therapy professors and local clinicians in Managua, Nicaragua. Endorsed by APTA.
- Program Coordinator**, Nicaragua Outreach for University of Colorado Denver, University of Florida, and Southwestern Texas University Physical Therapy Programs.
- Coordinator/translator** for short instructional courses taught in Nicaragua as follows:
- University of Colorado Denver Nicaragua Courses
- Upper Extremity Exercise Progression: Taught by Lauren Hinrichs and Mark Manago, August 14-18<sup>th</sup>, 2016.
- Exercise Progression. Taught by Tami Struessel, August 15-23, 2015.
- Physiological Basis for Diabetes Management: Taught by Beth Anne Fisher and Jennifer Stevens-Lapsley, January 13-17, 2014.
- Low Back Pain and Movement: Taught by Denize Stelzner and Mark Manago, January

14-18, 2013.

Movement Analysis. Taught by Cory Christiansen and Betti Krapfl, January 14-22, 2012.

Clinical Decision Making and Practical Interventions in Pediatric Physical Therapy.

Taught by Lisa Dannemiller, Mary Jane Rapport, and Diane Brians, January 15-23, 2011.

Physical Therapy for the Hip and Knee: From Osteoarthritis to Replacement. Taught by Michael Bade and Tami Struessel, January 11-15, 2010.

Movement Impairment Syndromes: Examination and Evaluation Scheme. Taught by Denise Stelzner. January 12-16, 2009.

Spinal cord injury: evaluation and treatment. Taught by Betti Krapfl. Translating assistance by Jennifer Stevens. January 14-18, 2008.

#### University of Florida Courses

Core and More...The Development of Balanced Trunk Extension, Flexion and Core Stability in Children. Taught by Claudia Senesac and Shelly Trimble, February 22-26, 2010.

Effective Teaching Methods. Taught by Gloria Miller and Terri Chmielewski, February 25-29, 2009.

Management of diabetes. Taught by Mark Bishop and Eugene Fuego. March 3-7, 2008.

Treatment classification system for low back pain. Taught by Mark Bishop, translated by Jennifer Stevens. February 18-26, 2006.

Rehabilitation for subacromial impingement syndrome. Taught by Terri Chmielewski and Claudia Senesac, translated by Jennifer Stevens. February 26-March 7, 2005.

Proprioceptive neuromuscular facilitation. Taught by Gloria Miller, translated by Jennifer Stevens. February 29-March 7, 2004.

Recent advances in motor control. Taught by Gloria Miller, translated by Jennifer Stevens. February 22-March 1, 2003.

#### Southwestern Texas University Courses

Joint mobilization techniques/gait training principles. Co-taught with Suzy Dougherty. February 21-28, 2004.

Properties of muscle, tendon, bone, and implications for exercise prescription. Co-taught with Suzy Dougherty, March 2-9, 2003.

## **MAJOR COMMITTEE & SERVICE RESPONSIBILITIES**

### **PM&R/Physical Therapy Program**

2017-present	Rehabilitation Science PhD Program Director
2018-2023	PM&R Finance Committee
2014 -2015	Physical Therapy Program Associate Professor Search committee
2014-2016	Physical Therapy Program Assistant Professor Search committee
2014-present	Physical Therapy Program Advisory Committee
Feb 2014-present	PM&R Research Oversight Committee
2012-present	Rehabilitation Science PhD Program Advisory Committee member
2012	Women's Health Task Force
Aug 2010-2012	Scientific Inquiry Committee
Spring 2008-2013	Patient Care Seminar Committee
Jan 2008-Jun 2008	Exercise Science Thread Committee
2007	Physical Therapy Program Assistant Professor Search committee

### **University-wide**

2020-present	School of Medicine, Clinical Research Advisory Committee
2019-present	Dean's School of Medicine Advisory Committee
2019-present	Integrative Physiology T32 Executive Committee

Nov 2008-2014 Scientific and Advisory Review Committee (SARC)

## LICENSURE INFORMATION

Colorado Physical Therapist #9104

## EDITORIAL BOARDS & GRANT REVIEW PANELS

March 2023	<b>Grant Reviewer</b> , NIH Special Emphasis Panel ZAG1 ZIJ-R(M5)
September 2022	<b>Grant Reviewer</b> , American College of Rheumatology, Innovative Research Award Translational/ Clinical Peer Review
February 2022	<b>Grant Reviewer</b> , NIH Beeson Career Development Awards (ZAG1 ZIJ-6)
May 2021	<b>Grant Reviewer</b> , NIH Beeson Career Development Awards (ZAG1 ZIJ-6)
2018-2021	<b>Editorial Board Member</b> , Physical Therapy
Feb 2020	<b>Grant Reviewer</b> , VA RR&D Musculoskeletal Health & Function
May 2019	<b>Grant Reviewer</b> , NIH Pragmatic and Implementation Studies for the Management of Pain to reduce Opioid Prescribing (ZAT1 JM/PRISM)
Nov 2018	<b>Ad Hoc member</b> , NIH Health Disparities Special Emphasis Panel, ZRG1-HDM-C
Jun 2017	<b>Ad Hoc member</b> , NIH Grant Review Panel, Small Business: Musculoskeletal Rehabilitation Sciences Study Section, MOSS-V(15)
Mar 2017	<b>Grant Reviewer</b> , NIH Special emphasis panel, ZRG1 BDCN-W (04)
Apr 2016	<b>Grant Reviewer</b> , VA RR&D Small Projects in Rehabilitation Research (SPiRE)
Dec 2013, Oct 2015	<b>Ad Hoc Reviewer</b> , NIH Grant Review Panel, Neurological, Aging, and Musculoskeletal Epidemiology (NAME) Study Section
Dec 2015	<b>Ad Hoc Member</b> , NIH National Institute of Child Health and Human Development T32 training award applications
Feb 2014, 2015, 2017, 2018	School of Medicine, Early Career Scholars Program
Mar 2014	<b>Ad Hoc Reviewer</b> , NIH Grant Review Panel, Physiology and Pathobiology of Musculoskeletal, Oral, and Skin Systems, F10B
Jun 2014	<b>Grant Reviewer</b> , NIH Special Emphasis Panel, ZRG1 BBBP-T (59), Genomic Underpinnings of Response to Rehabilitation Interventions

## INVITED PRESENTATIONS

### Local

Oct 2024	The Role of Telerehab in Addressing Health Disparity in Rural Older Adults CU Anschutz Rocky Mountain Geriatrics Conference.
Dec 2023	Harmony of Healing: Unifying Professionals through Progressive Rehabilitation in Post-Acute Settings. UHealth, Virtual presentation.
Oct 2023	The Speed I Walk....How Does It Predict My Mortality? CU Anschutz Research & Aging Geriatrics Symposium, Aurora, CO.
Oct 2023	The Longevity Project: Maintaining Mobility and Athleticism at Any Age. Aspen, Colorado
May 2023	New Applications of High Intensity Rehab and Gait Speed into PALTC, CU Anschutz PALTC Long-Term Care Research Network Conference.
April 2023	New Applications of High Intensity Rehab and Gait Speed into PALTC, Colorado Medical Directors Association meeting.
Sept 2021	Residency, Fellowship, and PhD What Post Professional Training is Right for me? Colorado Chapter APTA Conference.
Jun 2021	Building a Clinical Research Program: The view is different from the inside, COIN, GRECC, MIRECC Works in Progress Meeting, Eastern Colorado VA Healthcare System
Apr 2021	Getting Older is Not for the Weak; An Evidence-Based Approach to Improving Mobility. Colorado American Medical Directors Association.
Nov 2020	Getting Older is Not for the Weak; An Evidence-Based Approach to Improving Mobility, Geriatric Grand Rounds, University of Colorado.
Jan 2020	Engineering solutions to optimize mobility in older adults: translation from cells to people. Modern Human Anatomy, University of Colorado
Dec 2019	Decision-Making in Arthroplasty Rehabilitation: Implementation of a Novel Structured Approach,

- Data Science to Patient Value (D2V) Seminar Series.
- Sept 2019 The next frontier in reducing avoidable hospital readmissions, APTA Colorado Chapter Webinar.
- Aug 2019 A Focus on Function: The next frontier in reducing avoidable hospital readmissions, Colorado Medical Directors Association Meeting.
- Jun 2019 Reducing avoidable hospital readmissions, VA Research Seminar Series.
- Oct 2018 A Focus on Function: The next frontier in reducing avoidable hospital readmissions. 16th Annual Rocky Mountain Geriatrics Conference, Broomfield, CO.
- Sept 2018 Engineering Solutions to Optimize Mobility in Older Adults: Translation from cells to people. Bioengineering Seminar Series, University of Colorado
- Sept 2018 The Sky's the Limit: Revolutionizing Geriatric Rehabilitation Practice and Outcomes, APTA Colorado Chapter Webinar.
- May 2018 The Sky's the Limit: Revolutionizing Geriatric Rehabilitation Practice and Outcomes, Rose Medical Center.
- Apr 2018 Transforming Rehabilitation in Post-Acute Care by Improving Function Faster. Infinity Rehabilitation Spring Symposium, Aurora, Colorado
- Nov 2017 A New Era for Rehabilitation after Total Joint Replacement. Modern Human Anatomy Program. University of Colorado.
- Oct 2017 A Focus on Function: Reducing avoidable hospital readmissions; Interdisciplinary Grand Rounds, UCHHealth.
- Oct 2017 Innovative approaches to adult movement and quality of life. Academy of Lifelong Learning, Denver Co.
- Sept 2017 The Sky's the Limit: Revolutionizing Geriatric Rehabilitation Practice and Outcomes; Physical Therapy Program 70<sup>th</sup> Anniversary Educational Sessions.
- Mar 2017 Optimizing Physical Function in Older Adult Veterans; VA Morning Report Session
- Oct 2016 The Value of Post-Professional Residency, Fellowship and PhD Training; webinar presented with Michael Bade, PT, PhD.
- Oct 2016 Big Data in Rehabilitation, ACCORDS Big Data Workshop.
- Oct 2016 Optimizing Physical Function in Older Adult Veterans; VA Joint Grand Rounds; MIRECC, COIN, GRECC.
- Apr 2016 Maximizing Veteran Physical Function after Hospitalization. Denver VA Research Day.
- May 2015 Shaping our Future by Integrating Outcome Measures into Clinical Practice: Gait Speed as an Example, Colorado Chapter Physical Therapy Association, Webinar.
- Dec 2014 "Move"ing towards stronger models of transitional care for older adults following hospitalization, Geriatrics Grand Rounds, University of Colorado Denver.
- Sept 2014 Shaping our Future by Integrating Outcome Measures into Clinical Practice: Gait Speed as an Example, Physical Therapy Program Alumni Reunion, University of Colorado.
- Sept 2014 Improving Walking Speed to Help Older Adults Outrun the Grim Reaper PM&R Grand Rounds, University of Colorado.
- May 2014 Keynote Speaker for Nurses Improving Care for Health Systems Elders Conference: Mobility in the Elderly- It's a Joint Effort, University of Colorado Hospital.
- Nov 2013 Strategies to Maximize Knee Range of Motion Outcomes after Knee Arthroplasty, Panorama Orthopaedics, Colorado.
- May 2013 Rehabilitation strategies to maximize performance in patients after total knee replacement, Department of Rheumatology, University of Colorado
- May 2013 Applying the Most Recent Evidence-Based Practices to Patients after Joint Arthroplasty, PM&R Grand Rounds, University of Colorado.
- Mar 2013 Strategies to Maximize Rehabilitation Outcomes after Knee Arthroplasty, Panorama Orthopaedics, Colorado.
- Feb 2013 Clinical Gait Analysis: Geriatrics Fellow Conference, University of Colorado; Lead Instructor: Cory Christiansen, PT, PhD.
- Sept 2012 Weight-bearing biofeedback training following total knee arthroplasty: a randomized controlled trial. 14<sup>th</sup> Annual Rehabilitation Medicine Forum, University of Colorado Hospital, Aurora, CO.
- Sept 2012 Walking Speed as the 6<sup>th</sup> vital sign. Geriatrics Grand Rounds, University of Colorado.
- Sept 2011 Mechanisms for Quadriceps Weakness after Total Knee Arthroplasty. Colorado State University, Department of Health and Exercise Science.
- Nov 2010 Management of patients after TKA in the acute care setting, UCH Nursing Continuing Education, University of Colorado Denver.
- Nov 2010 Refining Rehabilitation Strategies for Total Knee Arthroplasty: How to Advise Patients. Geriatrics

- Aug 2009 Grand Rounds, University of Colorado Denver.  
A nursing perspective for obtaining good outcomes after total knee arthroplasty. Denver chapter of Orthopaedic Nurses conference.
- Jun 2009 Improving Outcomes after Total Knee Arthroplasty. Denver Health Medical Center.
- Apr 2009 Muscle Weakness and Functional Limitations after Total Knee Arthroplasty. Arthritis Foundation, Denver, CO.
- Jan 2009 Update on Progressive Rehabilitation Strategies for Total Knee Arthroplasty. 10th Annual Rehabilitation Medicine Forum, University of Colorado Denver.
- Sept 2008 An update on rehabilitation strategies to address muscle weakness and functional limitations after total knee arthroplasty. Nutrition & Metabolism Seminar Series, University of Colorado Denver.
- Jan 2007 Neuromuscular electrical stimulation after total knee replacement. 9th Annual Rehabilitation Medicine Forum, University of Colorado Denver.
- Feb 2007 Rehabilitation guidelines for patients after total knee replacement. Physical Medicine and Rehabilitation Grand Rounds, University of Colorado Denver.
- Jan 2007 Muscle function after total knee replacement. 8th Annual Rehabilitation Medicine Forum, University of Colorado Denver
- Nov 2006 Physiologically based rehabilitation to optimize muscle function in patients after total knee replacement. Geriatrics Grand Rounds, University of Colorado Denver.
- Oct 2006 Physiologically based rehabilitation to optimize muscle function after limb disuse. Colloquium in Integrative Physiology, University of Colorado Boulder.
- Aug 2006 Understanding Adaptations in Skeletal Muscle After Limb Disuse to Optimize Rehabilitation. Physical Therapy Alumni Presentation, University of Colorado Denver.
- May 2006 Adaptations in skeletal muscle following limb disuse that explain muscle weakness. Physical Therapy Rehabilitation Seminar Series, University of Colorado Denver.
- Feb 2004 Understanding skeletal muscle plasticity to optimize rehabilitation. Sigma Xi. The Scientific Research Society, University of Florida.
- Oct 2002 Physiologically based rehabilitation after total knee arthroplasty. University of Florida Rehabilitation Research Seminar Series.

### **National/International**

- Sept 2024 The Value of Post-Professional Residency, Fellowship and PhD training, American Council of Academic Physical Therapists, Virtual presentation.
- June 2024 Mobility Matters: How to Optimize Physical Function to Maximize Longevity, Aarhus University, Denmark.
- March 2024 Stride Towards Longevity: Walking Speed as a Predictor of Mortality & the Essential Role of Physical Function in Older Adults, Associate Directors of Research, GRECC.
- Feb 2024 Harmony of Healing: Unifying Professionals through Progressive Rehabilitation in Post-Acute Settings and Beyond, VA Geriatrics and Extended Care.
- Jan 2024 Navigating Academia: Strategies for Junior Faculty Success & Research Excellence, Training in Grantsmanship for Rehabilitation Research (TIGRR), Charleston SC.
- Dec 2023 Elevating Physical Function: Progressive Rehabilitation for Medically Complex Older Adults, VA PT Supervisors, Virtual presentation.
- June 2023 Rehabilitation in medically complex populations: A US perspective. Amager and Hvidovre Hospital, Denmark.
- May 2023 Barriers and solutions to implementing progressive rehabilitation in challenging populations, Fragility Fracture Network meeting, Virtual
- Oct 2022 From Mechanisms to Implementation: How Scientific Discovery Drives Innovation in Patient Care. University of Buffalo.
- Sept 2022 Getting Older is Not for the Weak: An Evidence-Based Approach to Improving Mobility. Beth Israel Deaconess HealthCare Division of Gerontology Grand Rounds, Boston, MA
- May 2022 The value of a PhD, post-professional education & career in academia, California Physical Therapy Association (CPTA), Virtual.
- April 2022 Value of a PhD, post-professional education & career in PT academia, Historically Black Colleges and Universities, Virtual.
- April 2022 Clinical Practice Guidelines and the use of Clinical Decision Support Tools in TKA rehabilitation, Osteoarthritis Research Society International (OARSI), Berlin, Germany.
- Sept 2021 Home Physical Therapy for People with Dementia, Fragility Fracture Network Congress.



- Aug 2021 Recruiting PhD Students-Financial Rewards and Pitfalls, Research Intensive Programs in Physical Therapy, Virtual.
- July 2021 Getting Older is Not for the Weak; An Evidence-Based Approach to Improving Mobility. Interagency Committee on Disability Research (ICDR), Virtual.
- May 2021 An Evidence-Based Approach to Improving Mobility, VA Geri Scholars Program Toolkit Webinar, Virtual.
- April 2021 Multicomponent Telerehabilitation for Medically Complex Older Veterans, Center on Health Services Training and Research (CoHSTAR) and the Learning Health System Rehabilitation Research Network (LeaRRn) Conference: Shaping the Future of TeleRehabilitation through Research. Virtual.
- April 2021 Getting old is not for the weak. Minnesota Chapter Conference 2021. Virtual
- April 2021 Irma Ruebling Distinguished Speaker: Building a Clinical Research Program: The view is different from the inside, St. Louis University.
- Nov 2020 Successful Mentorship of Applicants Toward Scholarship and Research Fellowship Awards, Foundation for Physical Therapy. Virtual.
- Oct 2020 Pragmatic Research: How It Can Complement, Extend, and Challenge How You Do Science (and increase your impact), NIH NCMRR Conference: Rehabilitation Research 2020: Envisioning a Functional Future. Virtual.
- Apr 2020 American Health Care Association: Getting Old is Not for the Weak; an Evidence Based Approach for Improving Mobility. PDPM Academy Webinar.
- Dec 2019 Teaming with Participants to Improve the Validity and Rigor of Rehabilitation Research, NCMRR National Advisory Board on Medical Rehabilitation.
- Sept 2019 A Focus on Function: The next frontier in reducing avoidable hospital readmissions. VA SCAN ECHO Conference.
- July 2019 A Focus on Function: The next frontier in reducing avoidable hospital readmissions. VA GRECC CBOC Connection Case Conference.
- June 2019 Optimizing Rehabilitation to Maximize Mobility in Older Adults, Radboud University Medical Center, Utrecht, Netherlands.
- April 2019 Steven J. Rose Visiting Lecturer in Movement Science in the Program in Physical Therapy at Washington University, St. Louis.
- Apr 2019 Keynote Speaker, The Center for Biomechanical Engineering Research Symposium, University of Delaware.
- Apr 2019 A Focus on Function: The next frontier in reducing avoidable hospital readmissions. Post-Acute Care, Aurora, Colorado.
- Oct 2018 High Intensity Interventions for Value-Driven Functional Mobility, Aegis Webinar Series.
- Jun 2018 Innovative approaches to maximizing mobility and quality of life in older adults. Medical University of Vienna & Ludwig Boltzmann Custer Arthritis and Rehabilitation, Vienna, Austria.
- May 2018 Transforming Rehabilitation in Post-Acute Care by Improving Function Faster. Infinity Rehabilitation Spring Symposium, Portland, Oregon.
- Apr 2018 Clinical Informatics in Total Knee Replacement Rehabilitation: A New Model for Personalized Care, Agency for Healthcare Research and Quality, presented with Andrew Kittelson, DPT, PhD.
- Jan 2018 Optimizing Rehabilitation after Total Knee Replacement in a Changing Health Care Arena. Interdisciplinary Bone and Joint Seminar, University of Nebraska Medical Center, Omaha, NE.
- Oct 2017 The Value of Post-Professional Residency, Fellowship and PhD Training. APTA Student Conclave, Portland, Oregon
- Jul 2017 Optimizing Rehabilitation after Total Knee Replacement in a Changing Health Care Arena, Duke University.
- Jun 2017 A Health Services Research Agenda: Is Undertreatment of Patients a Problem in Bundling...or in Other Alternative Payment Models? CoHSTAR Conference, Boston.
- Oct 2016 Advances in TKA rehab and How They Relate to Bundled Payment; Part of Rehabilitation for Older Adults: Consensus and Controversies, Arcadia University, Philadelphia, PA.
- Sept 2016 Rehabilitation Strategies to Improve Function in Older Veterans, GRECC Directors Forum.
- Sept 2016 Recruitment and Retention. NIH NCMRR Clinical Trials Workshop; Co-hosted by the REACT Center, Bethesda, MD.
- Dec 2015 Optimizing Rehabilitation after Total Knee Replacement in a Changing Health Care Arena, University of Alabama Center for Exercise Medicine Distinguished Lecture Series, Birmingham, AL.
- Nov 2015 Improving muscle function with NMES after total knee arthroplasty. Spectrum Health, Grand

- Rapids, MI.
- May 2015 Current Perspectives in Arthroplasty: When conservative management fails. Annual Orthopaedic Section Meeting, American Physical Therapy Association, Scottsdale, AZ.
- Feb 2015 Clinical Trials: Challenges with recruitment, retention, and fidelity. American Physical Therapy Association, Combined Sections Meeting, Indianapolis, IN.
- Nov 2014 Mechanisms of muscle dysfunction with trauma; using knee arthroplasty as a model. Department of Medicine Research and Innovation Conference.
- Feb 2014 Walking Speed in Clinical Practice. APTA Combined Sections Meeting, Las Vegas.
- Jun 2013 How a Decade of Research has Helped Shape Clinical Practice following Joint Arthroplasty. TRIA Orthopaedic and Sports Medicine Conference Speaker, Minnesota.
- Jan 2013 Hot off the Press: Incorporating Evidence-based Practice into the Continuum of Care after Total Joint Replacement. APTA Combined Sections Meeting, San Diego.
- Oct 2012 Physiologically based rehabilitation strategies to optimize muscle function in patients after total knee replacement. Rehabilitation Research Seminars series. University of Florida
- Jan 2012 Walking Speed: A Vital Sign and Even More.... APTA Combined Sections Meeting, Chicago.
- Feb 2010 Assessing Walking Speed in Everyday Clinical Practice: A 'Vital Sign' for Function. APTA Combined Sections Meeting Presentation, San Diego.
- Oct 2009 Rehabilitation Strategies for Total Knee Arthroplasty: What Does the Future Hold? Arcadia University.
- Feb 2008 Total knee arthroplasty update: quadriceps weakness affects function: utilizing the research of NMES and progressive exercise to achieve optimal functional outcomes. American Physical Therapy Association Combined Sections Meeting. Nashville, TN.
- Feb 2008 Understanding morphological, neural, and metabolic contributions to muscle weakness after limb disuse. Marquette University.
- Feb 2007 Practicing physical therapy in developing countries and in war torn areas of the world. American Physical Therapy Association Combined Sections Meeting, Boston, MA.
- Feb 2006 Creating international physical therapy opportunities in developing countries for student education. American Physical Therapy Association Combined Sections Meeting, San Diego, CA.

## PEER REVIEWED SCIENTIFIC & PROFESSIONAL PRESENTATIONS

- Feb 2025 Tran MK, Garbin AJ, Goodhart B, Will R, Forster JE, Nordon-Craft A, **Stevens-Lapsley JE**, Mangione KK. Home Health High Intensity Rehabilitation Elements Influencing Older Adult Recovery of Physical Function after Hospitalization. Platform Presentation at American Physical Therapy Association Combined Sections Meeting: Boston, MA; February 2025.
- Oct 2024 Rauzi MR, Tran MK, Plew JT, Abbate LM, Christiansen CL, **Stevens-Lapsley JE**, Mealer ML, Nearing KA. Exploring Changes in Veterans' Social Health Following a Multicomponent Telerehabilitation Program: An Embedded Convergent Mixed Methods Study. Poster Presented at American Congress of Rehabilitation Medicine Annual Conference: Dallas, TX; October 31-November 3, 2024. \*Received Military & Veterans Affairs Networking Group Early Career Poster Award; American Congress of Rehabilitation Medicine (ACRM) Annual Conference.
- June 2024 Hoffman, R.M., Hinrichs-Kinney, L., Forster, J.E., Dayton, M.D., Dennis, D., Judd, D.L., Christiansen, C.L., **Stevens-Lapsley, J.E.** Improvements in Physical Capacity May Not Indicate Reductions in Real-World Sedentary Activity: A Longitudinal Post-Total Hip Arthroplasty Study. 7th International Conference on Ambulatory Monitoring of Physical Activity and Movement. Rennes, France. June 20th, 2024.
- March 2024 Orr N, Griffith M, **Stevens-Lapsley JE**. My Patient is Still Short of Breath in Therapy! What Should I Do? PALTC Conference, San Antonio, TX
- Feb 2024 Bade M, **Stevens-Lapsley JE**, Garbin A, Tucker C. The value of post-professional residency, fellowship, and PhD training. Educational session presented at: American Physical Therapy Association Combined Sections Meeting; Feb 2023; San Deigo, CA

- Feb 2024 Rauzi MR, Tran MK, Plew J, **Stevens-Lapsley JE**, Mealer ML, Nearing KA. Older Veterans' Experiences using Technology during a Multicomponent Telerehabilitation Program: An Embedded Qualitative Study. Presented at the Federal Physical Therapy Section of the American Physical Therapy Association at: American Physical Therapy Association's Combined Sections Meeting; Boston, MA, February 16, 2024.
- Feb 2024 Rauzi MR, Abbate LM, Christiansen CL, Forster JE, **Stevens-Lapsley JE**. Multicomponent Telerehabilitation Program for Older Veterans with Multimorbidity: A Randomized Controlled Feasibility Trial. Presented at the Marilyn Gossman Platform at: American Physical Therapy Association's Combined Sections Meeting; Boston, MA, February 16, 2024.
- Feb 2024 Bade M, Christiansen C, Cheuy V, Zeni J, Forster J, Christensen J, Capin J, Dayton M, Dennis D, Peters A, Biondi E, Churchill L, Connors M, **Stevens-Lapsley J**. Movement Pattern Biofeedback Training after Total Knee Arthroplasty: A Randomized Controlled Trial. Abstract accepted for platform presentation at APTA Combined Sections Meeting; Boston, MA, February 2024.
- Feb 2024 Churchill L, Graber J, Mealer M, Matlock DD, Thigpen C, Lutz A, Bade MJ, **Stevens-Lapsley JE**. Perceptions of Personalized Clinical Decision Support in Rehabilitation after Total Knee Arthroplasty: A Qualitative Study. Poster presentation: American Physical Therapy Association Combined Sections Meeting; Boston, MA, February 2024.
- Feb 2024 Graber J, Juarez-Colunga E, Jin X, Churchill L, Matlock DD, Kittelson A, Thigpen C, Bade M, **Stevens-Lapsley J**. Effectiveness of personalized clinical decision support in outpatient rehabilitation after total knee arthroplasty. Marilyn Gossman Platform Presentation: American Physical Therapy Association Combined Sections Meeting; Boston, MA, February 2024.
- Feb 2024 Tran MK, Garbin AJ, Graber J, Derlein D, Currier D, Altic R, Will R, Cumbler E, Forster J, Mangione KK, **Stevens-Lapsley J**. Improving Function of Older Adults with Hospital-Associated Deconditioning: Comparison to Real World Practice. Platform Presentation at American Physical Therapy Association Combined Sections Meeting; Boston, MA, February 2024.
- Feb 2024 Tran MK, Garbin AJ, Goodhart B, Grupenhoff E, Downey K, Gonzalez-Plazola J, Nordon-Craft A, Derlein D, Forster JE, Mangione KK, **Stevens-Lapsley J**. Frailty Relationship with Usual Gait Speed Following Hospitalization with Home Health Care. Platform Presentation at American Physical Therapy Association Combined Sections Meeting; Boston, MA, February 2024.
- Feb 2024 Christiansen CL, Kline PW, Anderson CB, Melanson EK, Sullivan WJ, Juarez-Colunga E, **Stevens-Lapsley JE**. Optimizing Physical Activity Outcomes after Total Knee Arthroplasty: A Randomized Controlled Trial [platform presentation]. Combined Sections Meeting of the American Physical Therapy Association; Boston, MA, February 2024. [accepted]
- Feb 2024 Hinrichs-Kinney L, Pisegna J, Beisheim-Ryan E, Pontiff P, Tran M, Derlein D, Sidelinker J, Diedrich D, **Stevens-Lapsley J**. Standardizing the Use of Outcome Measures in a Skilled Nursing Facility System: An Implementation Study. Poster session presented at: Combined Sections Meeting of the American Physical Therapy Association; Boston, MA, February 15-17, 2024.
- Feb 2024 Hinrichs-Kinney L, Pontiff M, Pisegna J, Derlein A, Altic R, Weeks C, Goodhart B, **Stevens-Lapsley J**. A Mixed-Method Implementation Study in Post-Acute Care: Use of the Implementation Research Logic Model. Combined Sections Meeting of the American Physical Therapy Association; Boston, MA, February 15-17, 2024.
- Feb 2024 Pontiff M, Hinrichs-Kinney L, Pisegna J, Beisheim-Ryan E, Derlein D, Case V, Satchidanand A, Altic R, **Stevens-Lapsley J**. Mixed-methods comparison of an instructor-led and learner-directed high-intensity rehabilitation program in skilled nursing facilities. Combined Sections Meeting of the American Physical Therapy Association; Boston, MA, February 15-17, 2024.
- Oct 2023 Gustavson A., Hinrichs-Kinney L., **Stevens-Lapsley J**. Understanding Determinants of Practice Change in Skilled Nursing Facility Rehabilitation: Adapting to and Sustaining Value with Post-

acute Reform. American Health Care Association (AHCA) and National Center for Assisted Living (NCAL) Convention; Denver, CO, October 1, 2023.

- Sept 2023 Rauzi MR, Abbate LM, Connors M, Forster JE, Christiansen CL, **Stevens-Lapsley JE**. A Multicomponent Telerehabilitation Program for Older Veterans with Multimorbidity: A Randomized Feasibility Study. Poster Presented at Veterans Affairs Research Day: Rocky Mountain Regional VA Medical Center; Aurora, CO, September 28, 2023.
- Jun 2023 Pontiff M, Pisegna J, Beisheim-Ryan E, Hinrichs L, Derlein D, Malone D, Holtrop J, Forester J, Diedrich D, **Stevens-Lapsley J**. Shifting Paradigms in Medically Complex Rehabilitation: An Effectiveness-Implementation Trial Protocol in Skilled Nursing Facilities. Poster session presented at: Colorado Pragmatic Research in Health Conference; Aurora, CO, June 5-6, 2023.
- Jun 2023 Hinrichs L, Pisegna J, Beisheim-Ryan E, Pontiff M, Derlein D, Holtrop J, Sidelinker J, Diedrich D, **Stevens-Lapsley J**. Are functional outcomes measuring patient change? A protocol for ensuring outcomes reliability in pragmatic trials. Poster session presented at: Colorado Pragmatic Research in Health Conference; Aurora, CO, June 5-6, 2023.
- May 2023 Johnson T, Garbin A, Allison C, Dahal C, Hill J, **Stevens-Lapsley J**, Jones B, Lum H. Implementing an automated gait speed measure in a geriatric clinic and the impact on clinic workflow. Abstract accepted for presentation at: American Geriatrics Society 2023 Annual Scientific Meeting; May 3-6, 2023, Long Beach, CA.
- Apr 2023 Pisegna J, Hinrichs L, Beisheim-Ryan E, Butera K, Derlein D, Magnusson D, **Stevens-Lapsley JE**. High-intensity rehabilitation training priorities of occupational therapy practitioners working with older veterans with medical complexity in rural post-acute care settings. Poster session presented at: University of Colorado sponsored Partnerships for Veteran & Military Health Conference; April 21-23, 2023; Aurora, CO.
- Apr 2023 Butera KA, Derlein D, Diedrich D, Braun V, Wang A, Frank J, **Stevens-Lapsley J**. Higher movement-evoked pain is associated with slower walking speed in older adults undergoing skilled nursing facility rehabilitation. Poster session presented at: 2023 United States Association for the Study of Pain (USASP) Annual Scientific Meeting; April 2023; Durham, NC.
- Mar 2023 Bade MJ, Cheuy V, Zeni J, Christiansen CL, **Stevens-Lapsley JE**. Effects of real-time biofeedback using instrumented insoles on recovery after total knee arthroplasty: a pilot study. Abstract presented at: OARSI 2023 World Congress on Osteoarthritis; March 17-20, 2023; Denver, CO.
- Mar 2023 Churchill L, Graber J, Mealer M, Bade MJ, **Stevens-Lapsley JE**. A qualitative study exploring patient perceptions of personalized prediction and monitoring in rehabilitation after total knee arthroplasty. Poster session presented at: OARSI 2023 World Congress on Osteoarthritis; March 17-20, 2023; Denver, CO.
- Feb 2023 Schindler-Ivens S, Lang Catherine, **Stevens-Lapsley JE**. From Research to Rehab: How Scientific Discovery Drives Innovation in Patient Care. Educational session presented at: American Physical Therapy Association Combined Sections Meeting; Feb 2023; San Deigo, CA.
- Feb 2023 Bade M, **Stevens-Lapsley JE**, Garbin A, Tucker C. The value of post-professional residency, fellowship, and PhD training. Educational session presented at: American Physical Therapy Association Combined Sections Meeting; Feb 2023; San Deigo, CA
- Feb 2023 Marshall A, Johnson R, Jennings J, Dennis D, **Stevens-Lapsley J**, Bade M. Immediate Inelastic Compression Garment for Swelling Management after Total Knee Arthroplasty: A Feasibility Study. Abstract presented at: American Physical Therapy Association's Combined Sections Meeting; February 23-25, 2023; San Diego, CA.

- Feb 2023 Marshall A, Koonce R, Hogan C, Jennings J, **Stevens-Lapsley J**, Bade M. Combined Neuromuscular Electrical Stimulation and Blood Flow Restriction after Total Knee Arthroplasty: A Feasibility Study. Abstract presented at: American Physical Therapy Association's Combined Sections Meeting; February 23-25, 2023; San Diego, CA.
- Feb 2023 Hinrichs LA, Beisheim-Ryan EH, Butera KA, Derlein DL, Malone DJ, Nearing KA, **Stevens-Lapsley JE**. Blending learning and implementation science to create, evaluate, and optimize continuing education in rehabilitation. Presented at: American Physical Therapy Association's Combined Sections Meeting; February 23-25, 2023; San Diego, CA.
- Feb 2023 Beisheim-Ryan EH, Hinrichs LA, Butera KA, Derlein DL, Malone DJ, **Stevens-Lapsley JE**. Clinician-reported feasibility, acceptability, and adoption of high-intensity rehabilitation in skilled nursing facilities. Presented at: American Physical Therapy Association's Combined Sections Meeting; February 23-25, 2023; San Diego, CA.
- Nov 2022 Harper AE, Shih M, **Stevens-Lapsley J**, Bleakley S, Miller C, Skidmore E. Assessing Organizational and Provider Context and Readiness for Strategy Training Implementation: Methods and Preliminary Results. Poster session presented at: American Congress of Rehabilitation Medicine 99<sup>th</sup> Annual Conference; November 2022; Chicago, IL.
- Oct 2022 Schram M, Donna Diedrich, Wang A, **Stevens-Lapsley J**. Data-Driven Approaches to Improving Value of Rehabilitation for Short- and Long-Term Residents; High Intensity Rehabilitation. Presented at: NASL and AHCA Conference; October 2022; Nashville, TN.
- Sept 2022 Swink, L.A., Mealer, M.L., Miller, M.J., Anderson, C.B., Cook, P.F., **Stevens-Lapsley, J.E**, Christiansen, C.L. Therapist perspectives on adoption of a telehealth self-management walking program for individuals with lower limb amputation. Poster session presented at: VA Research Days; September 2022; Aurora, CO.
- Aug 2022 Dayton MR, Cheuy VA, Hogan C, Graber J, Anair BM, Voigt TB, **Stevens-Lapsley J**, Toth MJ. NMES Preserves Skeletal Muscle Strength Early after Total Knee Arthroplasty: Effects on Skeletal Muscle Fiber Size. Poster session presented at: 2022 Annual Western Orthopaedic Association Meeting; August 2022; Waialae, HI.
- Jul 2022 Bade MJ, Cheuy V, Zeni J, Christiansen CL, **Stevens-Lapsley JE**. Effects of real-time biofeedback using instrumented insoles on recovery after total knee arthroplasty: a pilot study. Poster session presented at: Academy of PT Research Retreat on Rehabilitation Technology; July 2022; Beverly, MA.
- May 2022 Graber J, Thigpen C, Van Sciver-Richardson K, Lutz A, Maldonado A, Bade M, **Stevens-Lapsley J**. Preliminary feasibility and effectiveness of a new clinical decision support tool in knee arthroplasty rehabilitation. Poster session presented at: Colorado Pragmatic Research in Health Conference; May 2022; Virtual.
- May 2022 Rauzi MR, Mealer ML, Nearing KA, Magnan EK, Abbate LM, **Stevens-Lapsley JE**. Qualitative Results from a Program Evaluation of a Multicomponent Telehealth Program for Medically Complex Older Veterans. Video Poster Presented at UConn Center for mHealth and Social Media Meeting; Virtual; May 19-20, 2022.
- Apr 2022 Butera KA, Derlein D, Diedrich D, Braun V, Wang A, Frank J, **Stevens-Lapsley JE**. Identifying multifactorial older adult patient subgroups and associations with post-hospitalization rehabilitation outcomes. Poster session presented at: Translational Science Meeting; April 2022; Chicago, IL.
- Apr 2022 Swink LA, Mealer ML, Miller MJ, Anderson CB, Cook PF, **Stevens-Lapsley JE**, Christiansen CL. Telehealth walking self-management for individuals with lower limb amputation: A qualitative study of barriers and facilitators to adoption. Poster session presented at: American Occupational Therapy Association National Conference; April 2022; San Antonio, TX.

- Apr 2022 Rauzi MR, Richardson VL, Wright SJ, Abbate LM, **Stevens-Lapsley JE**. A Multicomponent Telehealth Program for Older Veterans: Outcomes from A Feasibility and Quality Improvement Project. Podium Presentation at Partnerships for Veteran and Military Health: Aurora, CO; April 21-24, 2022.
- Feb 2022 Butera KA, Gustavson AM, Forster JE, Malone D, **Stevens-Lapsley JE**. Predictors of change in older adults' physical function following a skilled nursing facility rehabilitation stay. Platform presented at: American Physical Therapy Association Combined Sections Meeting; February 2022; San Antonio, TX.
- Feb 2022 Bade M, **Stevens-Lapsley JE**, Tucker C. The value of post-professional residency, fellowship, and PhD training. Educational session presented at: American Physical Therapy Association Combined Sections Meeting; February 2022; San Antonio, TX.
- Feb 2022 **Stevens-Lapsley J**, Malone D, Gustavson A, Bjorhus T, Ochoa S. Challenge Accepted! Who, Why and How to Apply High-Intensity Exercise to Post-Acute Rehabilitation. Educational session presented at: American Physical Therapy Association Combined Sections Meeting; February 2022; San Antonio, TX.
- Feb 2022 Carmichael J, Flynn S, Struessel T, Bini S, Bade M, and **Stevens-Lapsley J**. App-Based Home Exercise after Total Knee Arthroplasty: A Randomized Pilot Study. Poster session presented at: American Physical Therapy Association Combined Sections Meeting; February 2022; San Antonio, TX.
- Feb 2022 Christensen J, Fimmano G, Wilbur C, Ingersoll B, Aumeier J, Christiansen C, **Stevens-Lapsley J**. Trunk Movement Compensation Is Associated with Physical Performance Measures and Fatigue Deficits in Hip Osteoarthritis. Poster session presented at: American Physical Therapy Association Combined Sections Meeting; February 2022; San Antonio, TX.
- Feb 2022 Graber J, Juarez-Colunga E, Jin X, Kim C, Bade M, **Stevens-Lapsley J**, Kittelson A. Comparing Methodologies for Predicting Functional Recovery after Total Knee Arthroplasty. Poster session presented at: American Physical Therapy Association Combined Sections Meeting; February 2022; San Antonio, TX.
- Feb 2022 Hinrichs L, Capin J, Judd D, Forster J, Samelson M, McCandless M, Peters A, Christiansen C, and **Stevens-Lapsley J**. Daily Step Count Is Not Associated with Gait Symmetry in Individuals with End-Stage Hip Osteoarthritis. Poster session presented at: American Physical Therapy Association Combined Sections Meeting; February 2022; San Antonio, TX.
- Feb 2022 Olivos ME, Rauzi MR, Currier D, Abbate LM, Lum HD, **Stevens-Lapsley JE**. Telehealth for Medically Complex Older Adults: Safety Planning and Procedures for Physical Therapy Treatment. Platform presented at: American Physical Therapy Association Combined Sections Meeting; February 2022; San Antonio, TX
- Feb 2022 Rauzi MR, Olivos ME, Vetter BM, Wooldridge HB, Wright SJ, Lum HD, Abbate LM, **Stevens-Lapsley JE**. A Multicomponent Telehealth Program for Veterans: A Feasibility and Quality Improvement Project. Platform presented at: American Physical Therapy Association Combined Sections Meeting; February 2022; San Antonio, TX.
- Feb 2022 Smith A, O'Dell D, Albin S, Berliner J, Dungan D, Elliott J, Carballido-Gamio J, **Stevens-Lapsley J**, and Weber K. White Matter Tract Damage Following Spinal Cord Injury: Predictors of Future Motor and Sensory Function. Poster session presented at: American Physical Therapy Association Combined Sections Meeting; February 2022; San Antonio, TX.
- Feb 2022 Tran MK, Rauzi MR, Christensen JC, Monroe KM, Doré PM, **Stevens-Lapsley JE**, Binder EF. Early Fidelity Results for a Multi-site Randomized Controlled Trial in Women after Hip Fracture. Poster session presented at: American Physical Therapy Association Combined Sections Meeting; February 2022; San Antonio, TX.

- Nov 2021 Binder EF, Bartley J, **Stevens-Lapsley JE**, Bhasin S, Magaziner J. Step-HI Study: A Multimodal Intervention of Exercise and Testosterone Therapy: Design and Real World Challenges. The Gerontological Society of America 2021 Annual Scientific Meeting Online; November 2021; Virtual.
- Aug 2021 Davis-Wilson H, Hoffman R, Cheuy V, Judd D, **Stevens-Lapsley J**, Christiansen C. Kinematics and Spatiotemporal Gait Characteristics During the Six-Minute Walk in Participants with Hip Osteoarthritis. Poster session presented at: Rocky Mountain American Society of Biomechanics Meeting; August 2021; Virtual.
- Aug 2021 Hoffman RM, Davis-Wilson H, Hinrichs L, Judd D, **Stevens-Lapsley J**, Christiansen C. Turning Spatiotemporal Metrics and Strategies with End-stage Hip Osteoarthritis. Poster session presented at: Rocky Mountain American Society of Biomechanics Meeting; August 2021; Virtual.
- Apr 2021 Davis-Wilson H, Hoffman R, Cheuy V, Judd D, **Stevens-Lapsley J**, Christiansen C. Kinematics and Spatiotemporal Gait Characteristics During the Six-Minute Walk in Participants with Hip Osteoarthritis. Platform presented at: Rocky Mountain American Society of Biomechanics Meeting; April 2021; Virtual.
- Apr 2021 Hoffman RM, Davis-Wilson H, Hinrichs L, Judd D, **Stevens-Lapsley J**, Christiansen C. Turning Spatiotemporal Metrics and Strategies with End-stage Hip Osteoarthritis. Platform presented at: Rocky Mountain American Society of Biomechanics Meeting; April 2021; Virtual.
- June 2021 Rauzi MR, St Martin A, Tran MK, Christensen JC, Monroe KM, Dore PM, **Stevens-Lapsley JE**, Binder EF. Remote Exercise Intervention Fidelity For A Multi-site Randomized Controlled Trial In Women After Hip Fracture. Presented at: ACSM Annual Meeting and World Congress; June 1-5, 2021; Virtual.
- May 2021 Graber J, Bade M, Thigpen C, Van-Sciver Richardson K, **Stevens-Lapsley J**. Evaluating the need for a new clinical decision support tool in knee arthroplasty rehabilitation. Poster presented at: Colorado Pragmatic Research in Health Conference; May 2021; Aurora, CO.
- Apr 2021 Gustavson AM, **Stevens-Lapsley JE**, Seidler K, Ochoa S, and Bjorhus T. Getting old is not for the weak. Educational session presented at: American Physical Therapy Association Combined Section Meetings 2021 and Minnesota Chapter Conference 2021. Virtual
- Apr 2021 Rauzi MR, Capin JJ, Nordon-Craft A, Hare K, Jolley S, Flynn S, MaWhinney S, Morrow M, Erlandson KM, **Stevens-Lapsley JE**. The App-Facilitated Tele-Rehabilitation (AFTER) Program for COVID-19 Survivors: Protocol for a Randomized Feasibility Trial. Poster session presented: LeaRRN and CoHSTAR. Shaping the Future of TeleRehabilitation through Research: Virtual Conference; April 20 & 23, 2021; Virtual.
- Apr 2021 Vempati SM, Hare K, Peterson S, Jolley S, La B, Zangara T, McGregor D, Frasca K, Pisney L, Eaton M, Castillo-Mancilla J, **Stevens-Lapsley J**, MaWhinney S, Erlandson KM. Residual Fatigue and Cough, and Elevated 10-time Sit-to-Stand Test Present in Patients Discharged After Hospitalization with COVID-19. Presented at: CU Department of Medicine Research Day; April 19, 2021; Virtual.
- Apr 2021 Davis-Wilson H, Hoffman R, Cheuy V, Judd D, **Stevens-Lapsley J**, Christiansen C. Kinematics and Spatiotemporal Gait Characteristics During the Six Minute Walk in Participants with Hip Osteoarthritis. Rocky Mountain American Society of Biomechanics. Podium Presentation; April 2021; Virtual.
- Feb 2021 Christensen J, Wojnar K, Kline PW, **Stevens-Lapsley JE**, Christiansen CL, Quammen D. Validity of inertial measurement units in assessing trunk motion in Veterans with total hip arthroplasty. Poster session presented at: Combined Sections Meeting of the American Physical Therapy Association; February 2021; Virtual.

- Feb 2021 Hoffman R, Davis-Wilson H, Hinrichs L, Judd D, **Stevens-Lapsley J**, Christiansen C. Turning Spatiotemporal Metrics and Strategies with End-stage Hip Osteoarthritis. Podium presentation presented at: Rocky Mountain American Society of Biomechanics; February 2021; Virtual.
- Feb 2021 Capin JJ, Minick K, **Stevens-Lapsley J**, Van der Wees PJ, Woodfield D, Snow G, Dibblee P, Brennan GP, Hunter SJ. Reduced Variation Following a Care Guideline Implementation; Analysis of 11,120 Patients after Total Knee Arthroplasty. Platform presented at: American Physical Therapy Association Combined Sections Meeting; February 2021; Virtual.
- Feb 2021 Hunter SJ, Minick K, Snow G, Capin JJ, **Stevens-Lapsley J**, Woodfield D, Van der Wees PJ, Dibblee P, Brennan GP. Improved Outcomes Following a Care Guideline Implementation; Analysis of 11,120 Patients after Total Knee Arthroplasty. Platform presented at: American Physical Therapy Association Combined Sections Meeting; February 2021; Virtual.
- Feb 2021 Stutzbach J, Jones J, Recicar J, Taber A, Burke B, Will R, **Stevens-Lapsley JE**. Competing Priorities and Differential Expectations: A Qualitative Metasynthesis on Mobility for Hospitalized Older Adults. Presented at: American Physical Therapy Association Combined Sections Meeting; February 2021; Virtual.
- Feb 2021 LeDoux CV, Magnusson DM, **Stevens-Lapsley JE**. Is total joint arthroplasty associated with long-term physical activity change in older adults? Presented at: American Physical Therapy Association Combined Sections Meeting; February 2021; Virtual.
- Feb 2021 Leutzinger TJ, Christensen J, Christiansen C., Knarr BA, **Stevens-Lapsley J**. Subject Strength and Knee Alignment to Investigate Knee Joint Contact Forces Post Total Knee Arthroplasty. Presented at: American Physical Therapy Association Combined Sections Meeting; February 2021; Virtual.
- Feb 2021 Graber J, Kittelson A, Bade M, Juarez-Colunga E, Waugh D, Thigpen C, **Stevens-Lapsley JE**. Development of a reference chart for monitoring quadriceps strength recovery after knee arthroplasty. Poster session presented at: American Physical Therapy Association Combined Sections Meeting; February 2021; Virtual.
- Feb 2021 Rauzi MR, Seidler KJ, Hare K, Butera K, **Stevens-Lapsley JE**. Stakeholder Engagement to Inform a Telehealth Program Bridging Rehabilitation and Community Exercise for Veterans. Poster session presented at: American Physical Therapy Association Combined Sections Meeting; February 2021; Virtual.
- Feb 2021 Bade M, **Stevens-Lapsley JE**, Tucker C. The value of post-professional residency, fellowship, and PhD training. Educational session presented at: American Physical Therapy Association Combined Sections Meeting; February 2021; Virtual.
- Feb 2021 **Stevens-Lapsley JE**, Gustavson A, Greaves D, Seidler K, Malone D, Ochoa S, Bjorhus T, Getting Older is NOT for the Weak: Geriatric Rehabilitation for the 21st Century. Educational session presented at: American Physical Therapy Association Combined Sections Meeting; February 2021; Virtual.
- Feb 2021 **Stevens-Lapsley JE**, Zeni J, Bade M, Jennings J. Updates in Knee Arthroplasty: Innovations in Rehabilitation and Surgery. Educational session presented at: American Physical Therapy Association Combined Sections Meeting; February 2021; Virtual.
- Oct 2020 Bean J, Brach J, Szanton S, **Stevens-Lapsley J**. Bridging the Gap Between Innovative Research and Clinical Care: New Models of Preventative Rehabilitative Care for Older Adults. Presented at: Virtual American Congress of Rehabilitation Medicine Annual Conference; October 2020; Virtual.
- Aug 2020 Stutzbach J, Nearing K, Gustavson, A, Derlein D, Hare K, **Stevens-Lapsley JE**. High-intensity rehabilitation plus mobility: An interprofessional approach to getting veterans moving in skilled nursing facilities. Presented at: Colorado Pragmatic Research in Health Virtual Conference;



August 2020; Aurora, CO.

- Aug 2020 Graber J, Kittelson A, Bade M, Waugh D, Thigpen C, Davenport J, Mayberry M, **Stevens-Lapsley JE**. Translation from concept to clinic: a novel tool for patient-centered care in knee arthroplasty rehabilitation. Presented at: Colorado Pragmatic Research in Health Virtual Conference; August 2020; Aurora, CO.
- Feb 2020 Hunter SJ, Kosakowski H, Jette DU, **Stevens-Lapsley JE**, Tompkins J, Logerstedt DS. Implementing APTA's Clinical Practice Guideline: Physical Therapist Management of Patients Undergoing Total Knee Arthroplasty (TKA). Educational session presented at: American Physical Therapy Association Combined Sections Meeting; February 2020, Denver, CO.
- Feb 2020 Gustavson A, Malone D, Moriarty D, Shelton S, Ruse R, **Stevens-Lapsley JE**. Pragmatic trial implementing high-intensity rehabilitation in skilled nursing facilities. Platform presented at: American Physical Therapy Association Combined Sections Meeting; February 2020; Denver, CO.
- Feb 2020 Bade M, **Stevens-Lapsley JE**, Tucker C. The value of post-professional residency, fellowship, and PhD training. Educational session presented at: American Physical Therapy Association Combined Sections Meeting; February 2020; Denver CO.
- Feb 2020 Christiansen CL, Miller MJ, Kline PW, Sullivan WJ, Blatchford PJ, Fields TT, **Stevens-Lapsley JE**. Biobehavioral intervention targeting physical activity behavior change for older veterans after dysvascular amputation. Presented at: American Physical Therapy Association Combined Sections Meeting; February 2020; Denver, CO.
- Feb 2020 Aljehani M, Bade M, **Stevens-Lapsley JE**, Christensen J, Zeni J. Knee adduction moment is not associated with contralateral osteoarthritis progression after knee arthroplasty. Presented at: American Physical Therapy Association Combined Sections Meeting; February 2020; Denver, CO.
- Feb 2020 Cheuy V, Currier D, Jansen M, Stutzbach J, Baker J, Gustavson A, **Stevens-Lapsley JE**. Physical activity and sedentary behaviors among older adults receiving home health care. Platform presented at: American Physical Therapy Association Combined Sections Meeting; February 2020; Denver CO.
- Feb 2020 Christensen J, Silverman A, Foreman B, Anderson A, Bachus K, **Stevens-Lapsley JE**. Quadriceps muscle forces and strength during downhill walking following total knee arthroplasty. Presented at: American Physical Therapy Association Combined Sections Meeting; February 2020; Denver, CO.
- Feb 2020 LeDoux CV, Stutzbach JA, Tirado HR, Jansen ML, Magnusson DM, **Stevens-Lapsley JE**. Perceived barriers to physical activity in sedentary patients with total knee arthroplasty. Platform presented at: American Physical Therapy Association Combined Sections Meeting, Health Policy & Administration Section; February 2020; Denver, CO.
- Feb 2020 **Stevens-Lapsley JE**, Nordon-Craft AJ, Cumbler E, Derlein D. How interprofessional collaborative practice and care transition management maximize patient care. Platform presented at: American Physical Therapy Association Combined Sections Meeting; February 2020; Denver, CO.
- Feb 2020 Stutzbach J, Gustavson, A, Derlein D, Ruse R, Shelton S, Blankenship J, **Stevens-Lapsley JE**. Skilled nursing facility residents demonstrate sedentary behavior and low physical activity during and after discharge. Presented at: American Physical Therapy Association Combined Sections Meeting; February 2020; Denver, CO.
- Feb 2020 Carmichael JP, Foran JRH, Garnett A, Levy D, Bade MJ, **Stevens-Lapsley JE**. Multimodal swelling management after total knee arthroplasty: A pilot study with cohort comparison. Platform presented at: American Physical Therapy Association Combined Sections Meeting Geriatrics Section; February 2020; Denver, Colorado.

- Feb 2020 Thomsen PB, Christensen JC, Gritton CB, Christiansen CL, **Stevens-Lapsley JE**. Assessing Quadriceps Strength and Movement Quality During a Step-Down Task after Total Knee Arthroplasty. Poster session presented at: American Physical Therapy Association Combined Sections Meeting; February 2020; Denver, CO.
- Nov 2019 Carmichael JP, **Stevens-Lapsley JE**, Bade MJ. Multimodal edema management after total knee arthroplasty: A pilot study with retrospective historical cohort comparison. Presented at: American College of Rheumatology / Association of Rheumatology Professionals Annual Meeting; November 2019; Atlanta, GA.
- Oct 2019 Derlein D, Stutzbach J, Burrows K, Will R, Mitchell M, Smith D, Williams D, Clemens T, **Stevens-Lapsley J**. Patients with hospital-associated deconditioning demonstrate high fear of falling, low gait speed reserve, and profound physical function deficits. Presented at: American Physical Therapy Association Rocky Mountain Annual Conference & Physical Therapy Exposition; October 2019; Denver, CO.
- Oct 2019 Falvey JR, Murphy TE, Gill TM, **Stevens-Lapsley JE**, Ferrante LE. Factors Associated with Home Health Rehabilitation Use for Older ICU Survivors. Presented at: Johns Hopkins Annual Critical Care Rehabilitation Conference; 2019 Oct 11; Baltimore, MD.
- Oct 2019 Stutzbach J, Gustavson A, Derlein D, Ruse R, Shelton S, Roat B, **Stevens-Lapsley J**. Skilled nursing facility residents demonstrate sedentary behavior during a SNF stay and minimal increase in activity after discharge. Presented at: American Physical Therapy Association Rocky Mountain Annual Conference & Physical Therapy Exposition; October 2019; Denver, CO.
- Sept 2019 Derlein D, Stutzbach J, Burrows K, Will R, Mitchell M, Smith D, Williams D, Clemens T, **Stevens-Lapsley J**. Patients with hospital-associated deconditioning demonstrate high fear of falling, low gait speed reserve, and profound physical function deficits. Presented at: Colorado VA Research Day; September 2019; Aurora, CO.
- Sept 2019 Stutzbach J, Gustavson A, Derlein D, Ruse R, Shelton S, Roat B, **Stevens-Lapsley J**. Skilled nursing facility residents demonstrate sedentary behavior during a SNF stay and minimal increase in activity after discharge. Presented at: Colorado VA Research Days; September 2019; Aurora, CO.
- Sept 2019 Gustavson A, Malone D, Moriarty D, Shelton S, Ruse R, **Stevens-Lapsley J**. Pragmatic trial implementing high-intensity rehabilitation in skilled nursing facility service veterans. Presented at: Geriatric Extended Care Leads Conference; September 2019; Atlanta, GA.
- Apr 2019 Stutzbach J, Falvey J, Burrows K, Derlein D, Will R, Nordon-Craft A, Golden S, Currier D, **Stevens-Lapsley JE**. Hospital associated deconditioning among older adults receiving home health care. Presented at: NIA U13 Post-Acute Care Conference; April 2019; Aurora, CO.
- Apr 2019 LeDoux CV, Falvey JR, Lindrooth RC, Seidler KJ, **Stevens-Lapsley JE**. Physical therapy improves functional performance in Medicare patients with a primary diagnosis of dementia. Presented at: NIA U13 Post-Acute Care Research Conference; April 2019; Denver, CO.
- Apr 2019 Falvey JR, Ferrante LE, Gill TM, **Stevens-Lapsley JE**. Home-based rehabilitation improves functional recovery after hospitalization for critical illness. Presented at: NIA U13 Post-Acute Care Research Conference; April 2019; Denver, CO.
- Mar 2019 Frazier B, Christensen JC, Zeni JA, **Stevens-Lapsley JE**, Knarr, BA. Simulation of joint contact forces in total knee arthroplasty patients using opensim. Presented at: Proceedings of the 11th Annual Research and Creative Activity Fair; March 2019; Omaha, NE.
- Mar 2019 Gustavson AM, LeDoux C, **Stevens-Lapsley JE**. Transforming rehabilitation approaches to improve function & prolong community independence in a Program of All Inclusive Care for the Elderly (PACE). Platform presented at: American Medical Director's Association Conference;

March 2019; Atlanta, GA.

- Mar 2019 Jennings J, Loyd B, Dennis D, **Stevens-Lapsley J**. The use of closed suction drain does not influence strength or function in primary TKA: A prospective randomized trial. Presented at: American Academy of Orthopaedic Surgeons Annual Meeting; March 2019; Las Vegas, NV.
- Feb 2019 LeDoux CV, Falvey JR, Seidler KJ, Lindrooth RC, **Stevens-Lapsley JE**. Rehabilitation Therapy Improves Functional Performance in Medicare Patients with a Primary Diagnosis of Dementia. Presented at: American Physical Therapy Association Combined Sections Meeting; February 2019; Washington, D.C.
- Jan 2019 **Stevens-Lapsley J**, Winstein CJ, Thoma L, Alappattu M. Wonder women: Supporting the success and growth of women in science. Educational session presented at: American Physical Therapy Association Combined Sections Meeting; January 2019; Washington, D.C.
- Jan 2019 LeDoux C, Falvey J, Forster J, Seidler K, **Stevens-Lapsley J**. Physical therapy improves functional performance in Medicare patients with a primary diagnosis of dementia. Platform presented at: American Physical Therapy Association Combined Sections Meeting; January 2019; Washington, D.C.
- Jan 2019 Gustavson AM, Moriarty D, Shelton S, Bajwa A, Ruse R, Malone D, **Stevens-Lapsley J**. Implementation of High-Intensity Rehabilitation in Skilled Nursing Facilities: Preliminary Results. Platform presented at: American Physical Therapy Association Combined Sections Meeting; January 2019; Washington, D.C.
- Jan 2019 Foran J, **Stevens-Lapsley J**, Bade M. Multimodal conservative management of stiffness after total knee arthroplasty: A pilot study with retrospective historical cohort comparison. Presented at: American Physical Therapy Association Combined Sections Meeting; January 2019; Washington, D.C.
- Jan 2019 Cheuy V, Loyd B, Thigpen C, Waugh D, Kittelson A, **Stevens-Lapsley J**. Comparison of performance based versus self-reported functional measures early after total knee arthroplasty. Presented at: American Physical Therapy Association Combined Sections Meeting; January 2019; Washington, D.C.
- Jan 2019 Bade M, **Stevens-Lapsley J**, Tucker C. The value of post-professional residency, fellowship, and PhD training. Educational session presented at: American Physical Therapy Association Combined Sections Meeting; January 2019; Washington, D.C.
- Jan 2019 Bade M, **Stevens-Lapsley J**, Kittelson A, Jennings J. Innovations in knee arthroplasty: state of the art in surgery and rehabilitation. Educational session presented at: American Physical Therapy Association Combined Sections Meeting; January 2019; Washington, D.C.
- Nov 2018 Falvey J, Jones C, Hess E, Nuccio E, Baron A, **Stevens-Lapsley J**. Risk prediction for unplanned readmissions from home health using machine learning. Presented at: The Gerontological Society of America Annual Scientific Meeting; November 2018; Boston, MA.
- Oct 2018 Falvey J, Currier D, Burrows K, Derlein D, Tovsen A, Gustavson A, Ruse R, Shelton S, **Stevens-Lapsley J**. Hospital associated deconditioning among older adults receiving home health care. Presented at: American Physical Therapy Association Colorado Chapter Fall Conference; October 2018; Vail, CO.
- Oct 2018 Falvey J, Currier D, Burrows K, Derlein D, Mitchell M, Northcutt N, Rao H, Tovsen A, Haugen S, Smith D, **Stevens-Lapsley J**. Hospital Associated Deconditioning Among Older Adults Receiving Home Health Care. Poster session presented at: VA Research Days; October 2018; Aurora, CO.
- Apr 2018 Flynn SM, Oviedo VY, Hoffmann WN, **Stevens-Lapsley J**, Roberts JP, Bini S. Reliability, Validity and usability of a digital education and self-assessment app for adults with knee osteoarthritis.

Presented at: International Gerontechnology Conference; April 2018; St. Petersburg, FL.

- Mar 2018 Gustavson AM, Malone D, Boxer RS, Saboorizadeh M, Ruse R, **Stevens-Lapsley JE**. Interpreting the impact of physical function in skilled nursing facility residents. Presented at: American Medical Director's Association Conference; March 2018; Grapevine, TX.
- Feb 2018 Loyd, BJ, Gerron, K, Ruse, R, Iannitto, JL, Pineda, M, Hogan, C, Dayton, M, **Stevens-Lapsley, JE**. An innovative approach to measuring the trajectory of lower extremity swelling following total knee arthroplasty. Presented at: American Physical Therapy Association Combined Sections Meeting; February 2018; New Orleans, LA.
- Feb 2018 Gustavson A, Baym C, Maurer D, Stolpher S, Ruse R, Malone D, **Stevens-Lapsley JE**. Using data to characterize a skilled nursing facility population: preliminary results to inform clinical decision-making tools. Presented at: American Physical Therapy Association Combined Sections Meeting; February 2018; New Orleans, LA.
- Feb 2018 Falvey, JR, Papazian, L, Burkhardt, B, Gustavson (Kosir), AM, **Stevens-Lapsley, JE**. Short physical performance battery scores predict hospitalization risk in older adults receiving long term services and supports. Platform presented at: American Physical Therapy Association Combined Sections Meeting; February 2018; New Orleans, LA.
- Feb 2018 Falvey, JR, Burke, RE, Nuccio, E, Forster, JE, **Stevens-Lapsley, JE**. Predictors of hospital readmission from home health care following total knee arthroplasty. Platform presented at: American Physical Therapy Association Combined Sections Meeting; February 2018; New Orleans, LA.
- Feb 2018 Christensen JC, Kittelson AJ, Loyd BJ, Forster J, Struessel T, DelGiorno J, Thigpen C, **Stevens-Lapsley JE**. Characteristics of a young, low functioning phenotype in total knee arthroplasty rehabilitation. Presented at: Proceedings of the American Physical Therapy Association Combined Sections Meeting; February 2018; New Orleans, LA.
- Feb 2018 Cheuy, VA, Loyd, BJ, Hafner, WB, Iannitto, JL, Kittelson, AJ, Waugh, D, **Stevens-Lapsley, JE**. Influence of diabetes on the recovery trajectories of patients' physical function deficits after total knee arthroplasty. Presented at: American Physical Therapy Association Combined Sections Meeting; February 2018; New Orleans, LA.
- Nov 2017 Christensen JC, Kittelson AJ, Lloyd BJ, Forster JE, **Stevens-Lapsley JE**. Identifying vulnerable patient populations based on age and physical function on clinical outcomes following total knee arthroplasty. Presented at: Proceedings for the American College of Rheumatology Annual Meeting; November 2017; San Diego, CA.
- Nov 2017 Miller MJ, Magnusson DM, Lev G, Fields TT, Cook PF, **Stevens-Lapsley J.E.**, Christiansen C.L. Relationships among perceived functional capacity, self-efficacy, and disability after dysvascular amputation. Presented at: National Institute on Aging Directors Regional Meeting; November 2017; Aurora, CO.
- Oct 2017 Janet Freburger, Amit Kumar, **Jennifer Stevens-Lapsley**, Linda Resnik. Using Health Services Research to Define the Value of Rehabilitation: Case Examples and Future Directions. Presented at: Progress in Rehabilitation Research, Translational to Clinical Practice, American Congress of Rehabilitation Medicine Annual Conference; 2017 Oct 23-28; Atlanta, GA.
- Jun 2017 Falvey, JR, Nuccio, E, Bade, M, Burke, RE, **Stevens-Lapsley, JE**. Utilization of rehabilitation services is associated with better functional outcomes and reduced readmissions for medicare home health users following total knee arthroplasty. Presented at: AcademyHealth Annual Research Meeting; June 2017; New Orleans, LA.
- Jun 2017 Falvey, JR, Nuccio, E, Bade, M, Burke, RE, Struessel, T, **Stevens-Lapsley, JE**. Recovery of physical function and hospital readmissions in medicare fee for service beneficiaries after total

knee arthroplasty: The continued importance of rehabilitation. Presented at: Center on Health Services Research and Training Summer Institute; June 2017; Boston, MA.

- Apr 2017 Iannitto JL, Loyd BJ, Johnson R, Eschen C, Levy D, Jennings J, **Stevens-Lapsley JE**. Assessment of commonly used measures of lower extremity swelling following total knee arthroplasty. Abstract presented at: Annual Meeting at Experimental Biology; April 2017; Chicago, IL.
- Feb 2017 Gustavson AM, Falvey JR, King D, Smith R, Maurer D, Baym C, Malone D, **Stevens-Lapsley JE**. A quality improvement initiative to improve function for patients in a skilled nursing facility. Presented at: American Physical Therapy Association Combined Sections Meeting; February 2017; San Antonio, TX.
- Feb 2017 Loyd BJ, Hafner W, Himawan M, Kittelson AJ, Waugh D, DelGiorno J, Burnikel B, **Stevens-Lapsley J**. Performance verses self-reported outcomes after total knee arthroplasty in a large prospective cohort of patients seen as part of routine clinical practice. Presented at: American Physical Therapy Association Combined Sections Meeting; February 2017; San Antonio, TX.
- Nov 2016 Loyd BJ, Hafner W, Kittelson AJ, Waugh D, DelGiorno J, **Stevens-Lapsley J**. Using a large prospective cohort of patients to examine differences in performance and self-reported outcomes following Total Knee Replacement. Presented at: American College of Rheumatology Annual Meeting; November 2016; Washington D.C.
- Jul 2016 **Stevens-Lapsley JE**, Kittelson AK, Laufer Y, Gabyzon M, Spector P, Maffiuletti NA. An algorithm for NMES therapy after knee surgery: A Novel structured approach. Presented at: International Society of Electrophysiology and Kinesiology; November 2016; Chicago, IL.
- Jun 2016 Falvey, JR, Price, L, Muller, M, Papazian, L, Gustavson, AM, and **Stevens-Lapsley, JE**. Prognostic value of physical performance in the program of all inclusive care for the elderly. Platform presented at: The Center on Health Services Research and Training Summer Institute; June 2016; Boston, MA.
- Apr 2016 Hayes B, Kittelson A, Loyd B, **Stevens-Lapsley JE**. Assessing radiographic knee osteoarthritis: An online training tutorial for the Kellgren-Lawrence Grading Scale. Experimental Biology; April 2016; San Diego, CA.
- Mar 2016 Dennis D, Bade M, Foran J, Kim R, Miner T, Dayton M, Struessel T, **Stevens-Lapsley JE**. High-intensity versus low-intensity rehabilitation after total knee arthroplasty: A randomized controlled trial. Presented at: American Academy of Orthopedic Surgeons Annual Meeting; March 2016; Orlando, FL.
- Mar 2016 Hasson D, Kittelson AJ, Hogan C, Somoza F, Dayton M, **Stevens-Lapsley JE**. Inflammation and the discrepancy between radiography and pain in patients with knee osteoarthritis. Presented at: American Academy of Orthopedic Surgeons Annual Meeting; March 2016; Orlando, FL.
- Mar 2016 Miner TM, Paxton RJ, Kim RH, Yang C, Downing T, Forster J, Dennis DA, **Stevens-Lapsley JE**. Pre-operative quadriceps activation deficits are related to activation deficits after total knee arthroplasty. Presented at: American Academy of Orthopedic Surgeons Annual Meeting; March 2016; Orlando, FL.
- Mar 2016 Myers CA, Shelburne KB, Laz PJ, Judd DL, Christiansen CL, **Stevens-Lapsley JE**, Rullkoetter PJ. The impact of hip implant positioning on muscle and joint loading during a dynamic step down. Presented at: Orthopaedic Research Society Annual Meeting; March 2016; Orlando, FL.
- Feb 2016 Stolper S, Reeder B, Christiansen C, **Stevens-Lapsley JE**. Exploring patient rehabilitation experience after lower limb amputation: A qualitative analysis. Presented at: American Physical Therapy Association Combined Sections Meeting; February 2016; Anaheim, CA.

- Feb 2016 Murray A, Paxton R, Larson M, Schultz M, Christiansen C, **Stevens-Lapsley JE**. Characterization of physical activity levels following dysvascular transtibial amputation. Presented at: American Physical Therapy Association Combined Sections Meeting; February 2016; Anaheim, CA.
- Feb 2016 Murray A, Gaffney B, Davidson B, Christiansen C, **Stevens-Lapsley JE**. Stair climb performance and movement compensations in patients with diabetes and transtibial amputation. Presented at: American Physical Therapy Association Combined Sections Meeting; February 2016; Anaheim, CA.
- Feb 2016 Loyd BJ, Kittelson A, Waugh D, DelGiorno J, Burnikel B, Hoogeboom T, **Stevens-Lapsley JE**. Examination of selection bias in arthroplasty research using clinically collected data. Presented at: American Physical Therapy Association Combined Sections Meeting; February 2016; Anaheim, CA.
- Feb 2016 Loyd BJ, Bade MJ, Paxton RJ, Stackhouse S, Dayton MR, Eckhoff D, **Stevens-Lapsley JE**. Poor quadriceps activation 72 hours after total knee replacement is related to poor functional performance at 1 month. Presented at: American Physical Therapy Association Combined Sections Meeting; February 2016; Anaheim, CA.
- Feb 2016 Kosir A, Falvey JR, King D, Smith R, Maurer D, **Stevens-Lapsley JE**. Capacity for functional improvement in a medically-complex skilled nursing facility population: Preliminary results. Presented at: American Physical Therapy Association Combined Sections Meeting; February 2016; Anaheim, CA.
- Feb 2016 Kittelson A, Loyd BJ, DelGiorno J, Waugh DA, Forster JE, van Buuren S, van Meeteren NLU, **Stevens-Lapsley JE**. Development of reference charts for functional recovery following total knee arthroplasty: A strategy for improved monitoring of postoperative rehabilitation. Presented at: American Physical Therapy Association Combined Sections Meeting; February 2016; Anaheim, CA.
- Feb 2016 Judd DL, Loyd BJ, Jennings J, Baym CL, Dennis D, Struessel T, Wolfe P, **Stevens-Lapsley JE**. The relation of hip abductor strength to functional performance before and after TKA. Presented at: American Physical Therapy Association Combined Sections Meeting; February 2016; Anaheim, CA.
- Feb 2016 Huang C, Paxton RJ, Downing T, Miner T, Kim R, Papazian L, Forster J, **Stevens-Lapsley JE**. Pre-operative quadriceps activation deficits are related to activation deficits after total knee arthroplasty. Presented at: American Physical Therapy Association Combined Sections Meeting; February 2016; Anaheim, CA.
- Feb 2016 Falvey JR, Kosir A, Papazian L, Cobo B, Shaver J, Krigbaum LA, **Stevens-Lapsley JE**. Physical performance in the PACE population: Preliminary results from the Innovage Prevention of Functional Decline and Falls quality improvement project. Presented at: American Physical Therapy Association Combined Sections Meeting; February 2016; Anaheim, CA.
- Feb 2016 Bade M, **Stevens-Lapsley JE**. High-intensity versus low-intensity rehabilitation after total knee arthroplasty: A randomized controlled trial. Presented at: American Physical Therapy Association Combined Sections Meeting; February 2016; Anaheim, CA.
- Nov 2015 Reeder B, Richard A, Falvey JR, Paxton R, **Stevens-Lapsley J**. Adapting a mobility monitoring protocol for sensor studies with functionally vulnerable older adults. Presented at: American Medical Informatics Association Annual Symposium; November 2015; San Francisco, CA.
- Oct 2015 Loyd BJ, Fields TT, Stephenson RO, **Stevens-Lapsley JE**, Christiansen CL. Modifiable gait parameters associated with functional mobility in lower limb amputees. Presented at: AAPM&R Annual Assembly; October 2015; Boston, MA.
- Sept 2015 Foran J, Dennis D, Bade M, Kim R, Miner T, Dayton M, Struessel T, **Stevens-Lapsley JE**. High-

intensity versus low-intensity rehabilitation after total knee arthroplasty: A randomized controlled trial. Presented at: The International Society for Technology in Arthroplasty Annual Congress; September 2015; Vienna, Austria.

- Sept 2015 Foran J, Kittelson AJ, Dayton MR, Hogan CA, Schmiede S; **Stevens-Lapsley JE**. Identification of pain phenotypes in knee OA: Data from the osteoarthritis initiative. Presented at: The International Society for Technology in Arthroplasty Annual Congress; September 2015; Vienna, Austria.
- Aug 2015 Myers CA, Laz PJ, Shelburne KB, Judd DL, Christiansen CL, **Stevens-Lapsley JE**, Davidson BS. Simulated hip abductor strengthening reduces peak joint contact forces during stair descent in patients with total hip arthroplasty. Presented at: 39th Annual Meeting of the American Society of Biomechanics; August 2015; Columbus, OH.
- Jun 2015 Simons CJ, Christiansen CL, **Stevens-Lapsley JE**, Shelburne KB, Davidson BS. A support vector machine based on vertical ground reaction force to supplement observational gait evaluation. Presented at: Bioengineering and Biotransport Conference Snowbird Resort; June 2015; Salt Lake City, UT.
- Jun 2015 Gaffney BM, Johnston WM, Christiansen CL, **Stevens-Lapsley JE**, Shelburne KB, Davidson BS. Movement analysis based on the separation of angular momentum: Gait progression and segment rotation in patients with TKA. Presented at: Bioengineering and Biotransport Conference Snowbird Resort; June 2015; Salt Lake City, UT.
- May 2015 Gaffney BM, Johnston WM, Bade MJ, **Stevens-Lapsley JE**, Christiansen CL, Davidson BS. Whole-body angular momentum differences after unilateral TKA. Presented at: American College of Sports Medicine Annual Meeting; May 2015; San Diego, CA.
- Apr 2015 Simons CJ, Christiansen CL, **Stevens-Lapsley JE**, Shelburne KB, Davidson BS. A support vector machine to supplement observational gait evaluations. Presented at: Rocky Mountain Regional American Society of Biomechanics Meeting; April 2015; Estes Park, CO.
- Apr 2015 Kosir, A, Falvey, JR, **Stevens-Lapsley, JE**. High-intensity physical therapy improves functional outcomes in older adults following acute hospitalization. Presented at: International Conference for Frailty and Sarcopenia Research; April 2015; Boston, MA.
- Mar 2015 Dennis DA, Judd DL, Winters JD, Jennings J, Miner TM, Dayton MR, **Stevens-Lapsley JE**. Multi-component rehabilitation following total hip arthroplasty: A randomized controlled trial. Presented at: Orthopedic Research Society; March 2015; Las Vegas, AZ.
- Mar 2015 Gaffney BM, Harris MD, **Stevens-Lapsley JE**, Christiansen CL, Shelburne KB. Multi-joint effects of TKA during high-demand tasks. Presented at: Annual Meeting of the Gait and Clinical Movement Analysis Society; March 2015; Portland, OR.
- Feb 2015 Struessel T, Miller K, Wolfe P, **Stevens-Lapsley JE**. Choice between severity modifiers in functional limitation reporting/g code categorization: Does the functional measure matter? Presented at: American Physical Therapy Association Combined Sections Meeting; February 2015; Indianapolis, IN.
- Feb 2015 Struessel T, Miller K, Bade M, Paxton R, **Stevens-Lapsley JE**. Comparing two methods of quantifying home exercise program adherence for a clinical trial. Presented at: American Physical Therapy Association Combined Sections Meeting; February 2015; Indianapolis, IN.
- Feb 2015 **Stevens-Lapsley JE**, Mangione K, Field-Fote E.C., Sinacore D.R. Clinical trials: Challenges with recruitment, retention, and fidelity. Presented at: American Physical Therapy Association Combined Sections Meeting; February 2015; Indianapolis, IN.
- Feb 2015 Loyd B, Nolte M, Kittelson A, Figiel G, Falvey J, Cumbler E, Mangione K, **Stevens-Lapsley JE**. Progressive multi-component home based physical therapy intervention following acute

hospitalization: A small randomized control trial. Presented at: American Physical Therapy Association Combined Sections Meeting; February 2015; Indianapolis, IN.

- Feb 2015 Loyd B, Kittelson A, Dennis D, Kim R, Miner T, **Stevens-Lapsley JE**. Intraoperative tourniquet use negatively impacts quadriceps strength following TKA: A randomized controlled trial. Presented at: American Physical Therapy Association Combined Sections Meeting; February 2015; Indianapolis, IN.
- Feb 2015 Kittelson A, Schmiede S, **Stevens-Lapsley JE**. Identification of pain phenotypes in knee osteoarthritis using latent class analysis: Data from the osteoarthritis initiative. Presented at: American Physical Therapy Association Combined Sections Meeting; February 2015; Indianapolis, IN.
- Feb 2015 Judd D, Winters J, Dennis D, Miner T, Dayton M, **Stevens-Lapsley JE**. Multi-component rehabilitation following total hip arthroplasty: A randomized controlled trial. Presented at: American Physical Therapy Association Combined Sections Meeting; February 2015; Indianapolis, IN.
- Nov 2014 Christiansen CL, Akuthota V, Sherk K, **Stevens-Lapsley JE**. Early physical function for patients with type 2 diabetes following transtibial amputation. Presented at: Annual Assembly for Physical Medicine and Rehabilitation; November 2014; San Diego, CA.
- Jul 2014 Winters JD, **Stevens-Lapsley JE**, Rainville K, Christiansen CL. Quadriceps function remains asymmetrical 3-Months after total knee arthroplasty. Presented at: World Congress of Biomechanics; July 2014; Boston, MA.
- Jul 2014 Gaffney BM, Davidson BS, Harris MD, **Stevens-Lapsley JE**, Christiansen CL, Shelburne KB. Quadriceps force and movement strategies during high-demand activities after unilateral total knee arthroplasty. Presented at: World Congress of Biomechanics; July 2014; Boston, MA.
- May 2014 Eckhoff DG, Bade MJ, Struessel TS, **Stevens-Lapsley JE**. The impact of hip abduction strength on functional performance in individuals with knee osteoarthritis. Presented at: The Association of Bone and Joint Surgeons; May 2014; New York, NY.
- May 2014 Paxton RJ, Glick SD, **Stevens-Lapsley JE**, Melanson EL, Christiansen CL. Lack of physical activity level alteration post-total knee arthroplasty. Presented at: American College of Sports Medicine; May 2014; Orlando, FL.
- May 2014 Kittelson AJ, Huang C, Loyd B, **Stevens-Lapsley JE**. Relationship between chemical inflammatory mediators and experimental measures of pain processing in patients with knee osteoarthritis. Presented at: American Pain Society Annual Meeting; May 2014; Tampa, FL.
- Apr 2014 Gaffney BM, Davidson BS, Harris MD, **Stevens-Lapsley JE**, Christiansen CL, Shelbourne KB. Unique movement strategies during high-demand activities after unilateral TKA. Presented at: Rocky Mountain Regional American Society of Biomechanics Meeting; April 2014; Estes Park, CO.
- Apr 2014 Winters JD, **Stevens-Lapsley JE**, Rainville K, Christiansen CL. Quadriceps function remains asymmetrical 3 months after total knee arthroplasty. Presented at: Rocky Mountain Regional American Society of Biomechanics Meeting; April 2014; Estes Park, CO.
- Mar 2014 Gaffney BM, Davidson BS, Harris MD, **Stevens-Lapsley JE**, Christiansen CL, Shelbourne KB. Limb asymmetry during high-level functional tasks after unilateral total knee arthroplasty. Presented at: Orthopaedic Research Society Annual Meeting; March 2014; New Orleans, LA.
- Feb 2014 Kittelson A, Rainville K, Winters J, **Stevens-Lapsley JE**. Does body perception differ between patients with painful knee osteoarthritis and pain-free older adults? Presented at: American Physical Therapy Association Combined Sections Meeting; February 2014; Las Vegas, NV.



- Feb 2014 Judd D, Schlottman C, Dayton M, **Stevens-Lapsley JE**. Comparison of self-reported function using the HOOS and performance-based function after Total Hip Arthroplasty. Presented at: American Physical Therapy Association Combined Sections Meeting; February 2014; Las Vegas, NV.
- Feb 2014 Christiansen C, Bade M, Dayton M, Hogan C, **Stevens-Lapsley JE**. Effects of weight-bearing biofeedback training on gait mechanics following total knee arthroplasty. Presented at: American Physical Therapy Association Combined Sections Meeting; February 2014; Las Vegas, NV.
- Feb 2014 Bade M, Struessel T, Eckhoff D, **Stevens-Lapsley JE**. The contribution of hip abduction strength to functional performance in persons with knee osteoarthritis. Presented at: American Physical Therapy Association Combined Sections Meeting; February 2014; Las Vegas, NV.
- Oct 2013 Dennis DA, Judd DL, Dayton MR, **Stevens-Lapsley JE**. Comparison of strength and functional outcomes during the first 6 months after THA and TKA. Presented at: The Hip Society Meeting; October 2013; Rochester, MN.
- Aug 2013 Winters JD, Christiansen CL, **Stevens-Lapsley JE**. Rate of torque development deficits following total knee arthroplasty. Poster session presented at: American Society of Biomechanics; August 2013; Omaha, NE.
- May-Jun 2013 Thomas AC, Kittelson A, Kluger BM, **Stevens-Lapsley JE**. Corticospinal and intracortical excitability do not differ between patients with knee osteoarthritis and healthy adults. Presented at: American College of Sports Medicine Annual Meeting; May/June 2013; Indianapolis, IN.
- May-Jun 2013 Kittelson A, Struessel T, **Stevens-Lapsley JE**. Validity of hand-held dynamometry for measuring lower extremity muscle strength in patients undergoing total knee arthroplasty for osteoarthritis. Presented at: American College of Sports Medicine Annual Meeting; May/June 2013; Indianapolis, IN.
- May-Jun 2013 Judd D, Sherk V, Roberts E, Kohrt W, **Stevens-Lapsley JE**. Using Peripheral Quantitative Computed Tomography (pQCT) to estimate soft-tissue characteristics in patients with knee osteoarthritis. Presented at: American College of Sports Medicine Annual Meeting; May/June 2013; Indianapolis, IN.
- May-Jun 2013 Christiansen CL, Bade MJ, Stuart PS, **Stevens-Lapsley JE**, Davidson BS. Weight-bearing biofeedback improves symmetry during bilateral stance after total knee arthroplasty. Presented at: American College of Sports Medicine Annual Meeting; May/June 2013; Indianapolis, IN.
- May-Jun 2013 Bade MJ, Winters JD, **Stevens-Lapsley JE**. Recovery of eccentric knee extensor strength after total knee arthroplasty. Presented at: American College of Sports Medicine Annual Meeting; May/June 2013; Indianapolis, IN.
- Apr 2013 Robinson TN, Wu DS, Sauaia A, Dunn CL, **Stevens-Lapsley JE**, Moss M, Stiegmann GV, Gajdos C, Cleveland JC, Inouye SK. Slower walking speed forecasts increased postoperative morbidity and one-year mortality across surgical specialties. Presented at: The American Surgical Association 133rd Annual Meeting; April 2013; Indianapolis, IN.
- Feb 2013 Hoogeboom TJ, van Meeteren N, Kim R, **Stevens-Lapsley JE**. No proof for a correlation between clinical thresholds in knee range of motion and functioning in patients with endstage knee osteoarthritis. Presented at: Dutch Orthopaedic Conference; February 2013.
- Jan 2013 Shelburne K, Fitzpatrick C, Davidson B, Laz P, Christiansen C, **Stevens-Lapsley JE**, Rullkoetter P. A lower extremity model for muscle-driven simulation of activity using explicit finite element modeling. Presented at: Orthopaedic Research Society Annual Meeting; January 2013; San Antonio, TX.
- Jan 2013 Judd D, Thomas A, Wolfe P, Dennis D, Kim R, Dayton M, **Stevens-Lapsley JE**. Time course of

muscle strength and functional recovery during the first year following THA. Presented at: American Physical Therapy Association Combined Sections Meeting; January 2013; San Diego, CA.

- Jan 2013 Judd D, Struessel T, Eckhoff D, Dayton M, **Stevens-Lapsley J**. Strength and functional outcomes after THA and TKA: A performance based, longitudinal study. Presented at: American Physical Therapy Association Combined Sections Meeting; January 2013; San Diego, CA.
- Jan 2013 Hoogeboom T, Oosting E, **Stevens-Lapsley J**, Vriezেকolk J, Veenhof C, Siemonsma P, de Bie R, van den Ende C, van Meeteren N. Therapeutic validity and effectiveness of preoperative exercise on functional recovery after total hip or knee replacement: A Delphi study, systematic review and meta-analysis. Presented at: American Physical Therapy Association Combined Sections Meeting; January 2013; San Diego, CA.
- Jan 2013 Chmielewski, TL, Miller, GT, **Stevens-Lapsley J**, Nohe, LE, Burton, SN, Dalmolin, JD, Englebrecth, LA, Kettles, ME, Leary, MP, Taylor, LC. International Physical Therapy Service Learning: Building a model for future service learning and educational trips abroad. Presented at: American Physical Therapy Association Combined Sections Meeting; January 2013; San Diego, CA.
- Jan 2013 Bade M, Reynolds M, Davidson B, **Stevens-Lapsley J**, Christiansen Cory. Weight-bearing biofeedback training following total knee arthroplasty: a randomized controlled trial. Presented at: American Physical Therapy Association Combined Sections Meeting; January 2013; San Diego, CA.
- Jan 2013 Bade M, Kittelson A, Kohrt W, Kittelson J, **Stevens-Lapsley JE**. Relationship between preoperative, acute and long-term outcomes after total knee arthroplasty. Presented at: American Physical Therapy Association Combined Sections Meeting; January 2013; San Diego, CA.
- Sept 2012 Dennis D, Judd D, Thomas A, Wolfe P, Kim R, Dayton MR, **Stevens-Lapsley J**. Functional performance recovery after THA. Presented at: The Hip Society Meeting; September 2012; Rochester, MN.
- Nov 2012 Dayton MR, Judd D, Thomas A, Dennis D, Kim R, **Stevens-Lapsley J**. Physiologic and functional recovery following total hip arthroplasty versus healthy controls: Outcomes through one year. Presented at: American Association of Hip and Knee Surgeons; November 2012; Dallas, TX.
- May 2012 Davidson BS, Judd DL, Thomas AC, **Stevens-Lapsley JE**. Eccentric muscle activation patterns during a five-time-sit-to-stand movement. Presented at: American College of Sports Medicine Annual Meeting; May 2012; San Francisco, CA.
- Feb 2012 **Stevens-Lapsley JE**, Balter JE, Pamela W, Eckhoff DG, Kohrt WM. Early neuromuscular electrical stimulation improved quadriceps performance after total knee arthroplasty: A randomized controlled trial. Presented at: American Physical Therapy Association Combined Sections Meeting; February 2012; Chicago, IL.
- Feb 2012 Kittelson A, **Stevens-Lapsley JE**. Examination of changes in walking speed after total knee replacement. Presented at: American Physical Therapy Association Combined Sections Meeting; February 2012; Chicago, IL.
- Feb 2012 Judd DL, Davidson BS, Thomas AC, **Stevens-Lapsley JE**. Lower extremity muscle activity during gait before and after unilateral total knee arthroplasty. Presented at: American Physical Therapy Association Combined Sections Meeting; February 2012; Chicago, IL.
- Feb 2012 Eckhoff DG, Balter JE, Pamela W, Kohrt WM, **Stevens-Lapsley JE**. Neuromuscular electrical stimulation improved function after knee arthroplasty: Randomized controlled trial. Presented at: American Academy of Orthopaedic Surgeons Annual Meeting; February 2012; San Francisco, CA.

- Feb 2012 Dayton MR, Bade MJ, Shulman BC, Kohrt WM, **Stevens-Lapsley JE**. Minimally invasive total knee arthroplasty: Impacts on knee strength and functional performance. Presented at: American Academy of Orthopaedic Surgeons Annual Meeting; February 2012; San Francisco, CA.
- Feb 2012 Christiansen CL, Judd DL, Thomas AC, Rogers E, **Stevens-Lapsley JE**. Use of accelerometers to quantify movement symmetry during stair walking for people with knee osteoarthritis. Presented at: American Physical Therapy Association Combined Sections Meeting; February 2012; Chicago, IL.
- Feb 2012 Christiansen CL, Bade MJ, Luce MA, **Stevens-Lapsley JE**. Factors predicting weight-bearing asymmetry 1 month after unilateral total knee arthroplasty. Presented at: American Physical Therapy Association Combined Sections Meeting; February 2012; Chicago, IL.
- Feb 2012 Bade MJ, Dayton MR, Shulman BC, Kohrt WM, **Stevens-Lapsley JE**. Minimally invasive total knee arthroplasty improves early knee strength but not functional performance: A randomized controlled trial. Presented at: American Physical Therapy Association Combined Sections Meeting; February 2012; Chicago, IL.
- Nov 2011 Dayton MR, Bade MJ, Shulman BC, Kohrt WM, **Stevens-Lapsley JE**. Minimally invasive total knee arthroplasty: Impacts on knee strength and functional performance. Presented at: American Association of Hip and Knee Surgeons; November 2011; Dallas, TX.
- Jul 2011 Muratore T, **Stevens-Lapsley JE**, Bade MJ, Armour GA, Dayton MR. Minimally invasive total knee arthroplasty: Does technique affect implant positioning? Presented at: Western Orthopaedic Society Meeting; July 2011; Honolulu, HI.
- Jul 2011 Dayton MR, Schenkman M, **Stevens-Lapsley JE**. Patient Perception vs. Performance in Total Knee Arthroplasty: Comparison of patient reported outcome scores to objective measures of performance. Presented at: Western Orthopaedic Society Meeting; July 2011; Honolulu, HI.
- Jun 2011 **Stevens-Lapsley JE**, Hoke E, Kvale J, Schenkman M. Muscle strength and activation in early and mid-stage Parkinson Disease. Presented at: American College of Sports Medicine Conference; June 2011; Denver, CO.
- Jun 2011 Judd DL, Thomas AC, Davidson BS, Eckhoff DG, Mizner RL, **Stevens-Lapsley JE**. Lower extremity muscle activity in end-stage knee osteoarthritis during a five-time-sit-to-stand task. Presented at: American College of Sports Medicine Conference; June 2011; Denver, CO.
- Jun 2011 Dinkins EM, **Stevens-Lapsley JE**. Management of symptoms of restless legs syndrome with traction straight leg raise: a pilot study. Presented at: American College of Sports Medicine Conference; June 2011; Denver, CO.
- Feb 2011 **Stevens-Lapsley JE**, Hedgecock JB, Hide JL, Kluger B. Intracortical and corticospinal excitability of the quadriceps using transcranial magnetic stimulation in older and younger healthy adults. Presented at: American Physical Therapy Association Combined Sections Meeting; February 2011; San Diego, CA.
- Feb 2011 Kramer LR, Balter JE, Jirikowic J, Boucek D, Taylor M, **Stevens-Lapsley JE**. Functional performance and muscle strength phenotypes in men and women with Danon disease. Presented at: American Physical Therapy Association Combined Sections Meeting; February 2011; San Diego, CA.
- Feb 2011 Judd DL, Balter JE, Eckhoff DG, **Stevens-Lapsley JE**. Relative strength loss of muscle groups in muscle groups in the lower extremity following total knee arthroplasty. Presented at: American Physical Therapy Association Combined Sections Meeting; February 2011; San Diego, CA.
- Feb 2011 Bade MJ, Christiansen CL, **Stevens-Lapsley JE**. The relationship between weight bearing asymmetry, quadriceps strength, and stair climbing time after total knee arthroplasty. Presented at: American Physical Therapy Association Combined Sections Meeting; February 2011; San Diego, CA.

CA.

- Nov 2010 Bade MJ, Struessel T, **Stevens-Lapsley JE**. Early progressive rehabilitation following total knee arthroplasty improves outcomes. Presented at: American College of Rheumatology Meeting; November 2010; Atlanta, GA.
- Sept 2010 Christiansen CL, Bade MJ, **Stevens-Lapsley JE**. Rehabilitation implications related to weight-bearing asymmetry after total knee arthroplasty. Presented at: 13th Annual Rehabilitation Education Forum at the University of Colorado Hospital; September 2010; Denver, CO.
- Aug 2010 Christiansen CL, Robertson TC, **Stevens-Lapsley JE**. Weight-bearing asymmetry and clinical measures of impairment and function before and after total knee arthroplasty. Presented at: Annual Meeting of the American Society of Biomechanics; August 2010; Providence, RI.
- Jul 2010 Duncan PW, Fritz S, Wing K, Lusardi M, Chui K, Purser J, Hilligas E, Cable C, Bidelspach D, **Stevens-Lapsley J** (Task Force on the 6<sup>th</sup> Vital Sign). Walking speed: A vital sign of function and health. Presented at: Exercise and Physical Activity in Aging Conference; July 2010; Indianapolis, IN.
- Feb 2010 Jeevanjee M, Dayton MR, **Stevens-Lapsley JE**. Patient perceptions of functional recovery using the KOOS vs. objective measures of physical performance after total knee arthroplasty. Presented at: American Physical Therapy Association Combined Sections Meeting; February 2010; San Diego, CA.
- Feb 2010 Christiansen CL, **Stevens-Lapsley JE**. Changes in limb loading asymmetry and knee function before and after total knee arthroplasty. Presented at: American Physical Therapy Association Combined Sections Meeting; February 2010; San Diego, CA.
- Feb 2010 Bade MJ, Wolfe P, Zeni JA, **Stevens-Lapsley JE**, Snyder-Mackler L. Determination of optimal timing for total knee arthroplasty using preoperative clinical measures. Presented at: American Physical Therapy Association Combined Sections Meeting; February 2010; San Diego, CA.
- Feb 2010 Bade MJ, Struessel T, Kohrt WM, **Stevens-Lapsley JE**. Quadriceps strength and stair climbing time after total knee arthroplasty. Presented at: American Physical Therapy Association Combined Sections Meeting; February 2010; San Diego, CA.
- Oct 2009 **Stevens-Lapsley JE**, Balter JE, Eckhoff DG, Kohrt WM. Early neuromuscular electrical stimulation improves functional performance after total knee arthroplasty. Presented at: American College of Rheumatology; October 2009; Philadelphia, PA.
- Aug 2009 Bade MJ, Kohrt WM, **Stevens-Lapsley JE**. Total knee arthroplasty outcomes compared to age-matched healthy adults pre-operatively and 6 months post-operatively. Presented at: Mechanisms Underlying Disordered Movement: Impairments with Force Generation Meeting, American Physical Therapy Association Retreat; August 2009; Asilomar, CA.
- Aug 2009 Christiansen CL, **Stevens-Lapsley JE**. The relationship between limb loading asymmetry and knee function prior to total knee arthroplasty. Presented at: Annual Meeting of the American Society of Biomechanics; August 2009; State College, PA.
- May 2009 Eckhoff DG, Kohrt WM, **Stevens JE**. Quadriceps and hamstring function before and after TKA. Presented at: 61st Annual Meeting of The Association of Bone and Joint Surgeons; May 2009; Maui, HI.
- May 2009 Bade MJ, Balter JE, Kramer LR, Kohrt WM, **Stevens-Lapsley JE**. Relationship between limb unloading and quadriceps strength loss after total knee arthroplasty. Presented at: American College of Sports Medicine meeting; May 2009; Seattle, WA.
- May 2009 **Stevens-Lapsley JE**, Balter JE, Eckhoff DG, Kohrt WM. Dose-response relationship for

neuromuscular electrical stimulation to the quadriceps after total knee arthroplasty. Presented at: American College of Sports Medicine meeting; May 2009; Seattle, WA.

- Feb 2009      Struessel T, Balter JE, **Stevens JE**. Impact of delayed total knee arthroplasty surgery on post-operative quadriceps muscle strength and functional performance: A case report. Presented at: American Physical Therapy Association Combined Sections Meeting; February 2009; Las Vegas, NV.
- Feb 2009      Kvale, J, Wolfe P, Wu S, Balter JE, Eckhoff DG, Kohrt KM, **Stevens JE**. Pre-operative and inpatient measures predict physical function three months after total knee arthroplasty. Presented at: American Physical Therapy Association Combined Sections Meeting; February 2009; Las Vegas, NV.
- Feb 2009      **Stevens JE**, Jackie JE, Eckhoff DG, Kohrt WM. Impact of early neuromuscular electrical stimulation on functional performance after total knee arthroplasty. Presented at: American Physical Therapy Association Combined Sections Meeting; February 2009; Las Vegas, NV.
- Mar 2008      Petterson SC, Mizner RL, **Stevens JE**, et al. Enhanced quadriceps strength after knee arthroplasty: randomized trial of neuromuscular stimulation. Presented at: Annual Meeting of the American Academy of Orthopaedic Surgeons; March 2008; San Francisco, CA.
- Feb 2008      **Stevens JE**, Eckhoff DG, Carpenter KJ, Kohrt WM. Quadriceps and hamstrings muscle performance after total knee arthroplasty. Presented at: American Physical Therapy Association Combined Sections Meeting; February 2008; Nashville, TN.
- Jun 2007      Liu M, **Stevens JE**, Walter GA, et al. The effect of treadmill training on IGF-1 levels in rat skeletal muscle and lumbar spinal cord following spinal cord injury. Presented at: American College of Sports Medicine meeting; June 2007; New Orleans, LA.
- Jun 2007      Ye Fan, **Stevens JE**, Liu M, et al. Changes in IGF-1 protein content in mouse skeletal muscle during reambulation following cast immobilization. Presented at: American College of Sports Medicine meeting; June 2007; New Orleans, LA.
- Jun 2007      Carpenter KJ, Mintken PE, Kohrt WM, Eckhoff DG, **Stevens JE**. Early neuromuscular electrical stimulation for quadriceps muscle strengthening following total knee arthroplasty: a case study. Presented at: American Physical Therapy Association Annual Conference; June 2007; Denver, CO.
- Jun 2007      **Stevens JE**, Petterson SC, Mizner RL, Snyder-Mackler L. Relationship between Body Mass Index and functional performance measures after total knee arthroplasty. Presented at: American Physical Therapy Association Annual Conference; June 2007; Denver, CO.
- Feb 2007      Shah PK, Gregory CM, **Stevens JE**, et al. Proton spectroscopic assessment of soleus muscle in persons with incomplete spinal cord injury. Presented at: American Physical Therapy Association Combined Sections Meeting; February 2007; Boston, MA.
- Feb 2007      Jayaraman A, Gregory CM, **Stevens JE**, Liu M, Walter GA, Vandenborne K. Skeletal muscle adaptations following SCI and locomotor training: Human vs. animal model. Presented at: American Physical Therapy Association Combined Sections Meeting; February 2007; Boston, MA.
- Jun 2006      Shah PK, **Stevens JE**, Gregory CM, et al. Skeletal muscle morphology after incomplete spinal cord injury. Presented at: American College of Sports Medicine Meeting; June 2006; Denver, CO.
- Jun 2006      Liu M, **Stevens JE**, Walter GA, et al. The effect of treadmill training on IGF-I expression in skeletal muscle following spinal cord injury. Presented at: American College of Sports Medicine Meeting; June 2006; Denver, CO.
- Jun 2006      **Stevens JE**, Borst SE, Li Y, et al. Insulin-like Growth Factor-1 gene transfer augments muscle

IGF protein content despite cast immobilization. Presented at: American College of Sports Medicine Meeting; June 2006; Denver, CO.

- Apr 2006     **Stevens JE**, Liu M, Bose P, et al. Changes in soleus muscle function, morphology, and IGF-I expression with one week of locomotor training in spinal cord injured rats. Presented at: Society for Muscle Biology Conference, Frontiers in Myogenesis; April 2006; Georgia.
- Feb 2006     Pathare NC, **Stevens JE**, Shah PK, et al. Adaptations in human plantar flexors during rehabilitation following immobilization. Presented at: American Physical Therapy Association Combined Sections Meeting; February 2006; San Diego, CA.
- Feb 2006     **Stevens JE**, Liu M, Bose P, et al. Changes in soleus muscle force and fatigue after SCI with treadmill locomotor training in rats. Presented at: American Physical Therapy Association Combined Sections Meeting; February 2006; San Diego, CA.
- Jun 2005     Jayaraman A, Gregory CM, **Stevens JE**, et al. Changes in skeletal muscle function after treadmill training in persons with incomplete spinal cord injury. Presented at: American College of Sports Medicine Meeting; June 2005; Nashville, TN.
- Jun 2005     Shah PK, **Stevens JE**, Jayaraman A, et al. Effect of locomotor training on skeletal muscle size in individuals with incomplete spinal cord injury. Presented at: American College of Sports Medicine Meeting; June 2005; Nashville, TN.
- Jun 2005     Pathare NC, **Stevens JE**, Walter GA, et al. Disuse versus reloading Induced change in energy rich phosphate content in human skeletal muscle. Presented at: American College of Sports Medicine Meeting; June 2005; Nashville, TN.
- Jun 2005     **Stevens JE**, Yarasheski KE, Yi L, Sweeney LH, Vandeborne K. Insulin-like Growth Factor-1 gene transfer augments muscle protein synthesis rate and size in adult mice. Presented at: American College of Sports Medicine Meeting; June 2005; Nashville, TN.
- May 2005     Pathare NC, Lui M, **Stevens JE**, Vandeborne K, Walter GA. <sup>31</sup>P magnetic resonance spectroscopy of mouse skeletal muscle following hindlimb cast immobilization. Presented at: International Society of Magnetic Resonance Imaging (ISMRM) Meeting; May 2005; Toronto, Canada.
- Feb 2005     Jayaraman A, Gregory CM, **Stevens JE**, et al. Changes in skeletal muscle function after treadmill training in persons with incomplete spinal cord injury. Presented at: American Physical Therapy Association Combined Sections Meeting; February 2005; New Orleans, LA.
- Feb 2005     Shah PK, **Stevens JE**, Pathare NC, Jayaraman A, Behrman AL, Vandeborne K. Measure of soleus muscle damage in patients with incomplete spinal cord injury following locomotor training. Presented at: American Physical Therapy Association Combined Sections Meeting; February 2005; New Orleans, LA.
- Feb 2005     Pathare NC, **Stevens JE**, Shah P, et al. Contribution of muscle size and activation deficits to loss in muscle strength in human plantar flexors after immobilization. Presented at: American Physical Therapy Association Combined Sections Meeting; February 2005; New Orleans, LA.
- Jun 2004     **Stevens JE**, Pathare NC, Scarborough MT, Gibbs CP, Tillman SM, Vandeborne K. Muscle contractile area and phosphate metabolite contributions to torque. Presented at: American College of Sports Medicine Meeting; June 2004; Indianapolis, IN.
- Jun 2004     Pathare NC, **Stevens JE**, Walter GA, et al. Muscle contractile area and phosphate metabolite contributions to torque. Presented at: American College of Sports Medicine Meeting; June 2004; Indianapolis, IN.
- Jun 2004     White LJ, Castellano V, McCoy SC, Gutierrez G, **Stevens JE**, et al. Resistance training improves

strength and function in multiple sclerosis. Presented at: American College of Sports Medicine Meeting; June 2004; Indianapolis, IN.

- Feb 2004 **Stevens JE**, Walter GA, Okereke E, et al. Changes in phosphocreatine kinetics in patients after immobilization following an ankle fracture. Gossman Seminar presented at: American Physical Therapy Association Combined Sections Meeting; February 2004; Nashville, TN.
- Feb 2004 Pathare NC, **Stevens JE**, Yang Z, et al. Role of phosphate metabolites in declining muscle force with limb disuse. Presented at: American Physical Therapy Association Combined Sections Meeting; February 2004; Nashville, TN.
- Jun 2004 Mizner RL, Petterson SC, **Stevens JE**, Vandenborne K, Snyder-Mackler L. Morphological and neural contributions to early changes in quadriceps strength after total knee arthroplasty. Presented at: Orthopaedic Research Society Meeting; June 2004.
- Nov 2003 Snyder-Mackler L, **Stevens JE**, Mizner RL. Studio randomizzato sulla elettrostimolazione dopo artroprotesi di ginocchi. Presented at: The 7° Corso Internazionale Ortopedia, Biomeccanica, Riabilitazione Sportiva; November 2003; Assisi, Italy.
- Jun 2003 White LJ, **Stevens JE**, Gutierrez G, McCoy S, Vandenborne K, Chow J. Quadriceps strength and central activation in multiple sclerosis. Presented at: American College of Sports Medicine Meeting; June 2003; San Francisco, CA.
- Feb 2003 **Stevens JE**, Mizner RL, Snyder-Mackler L. Neuromuscular electrical stimulation for quadriceps muscle strengthening after bilateral total knee arthroplasty: A case series. Presented at: American Physical Therapy Association Combined Sections Meeting; February 2003; Tampa, FL.
- Feb 2003 Mizner RL, **Stevens JE**, Snyder-Mackler L. Preoperative quadriceps strength predicts functional outcome after total knee arthroplasty. Presented at: American Physical Therapy Association Combined Sections Meeting; February 2003; Tampa, FL.
- Feb 2003 Frimel TN, Gibbs JD, Walter GA, Okereke E, Esterhai JL, Kelley ME, **Stevens JE**, Vandenborne K. Quantitative changes in muscle cross sectional area after ankle fracture during immobilization and rehabilitation using magnetic resonance imaging. Presented at: American Physical Therapy Association Combined Sections Meeting; February 2003; Tampa, FL.
- Mar 2003 Mizner RL, **Stevens JE**, Snyder-Mackler L. Quadriceps strength and volitional activation before and after total knee arthroplasty for osteoarthritis. Presented at: Orthopaedic Research Society Meeting; March 2003.
- Jun 2002 **Stevens JE**, Mizner RL, Snyder-Mackler L. Neuromuscular electrical stimulation for quadriceps strengthening after total knee arthroplasty. Presented at: American College of Sports Medicine Meeting; June 2002; St Louis, MO.
- Jun 2002 Mizner RL, **Stevens JE**, Snyder-Mackler L. The etiology of persistent quadriceps weakness after TKA. Presented at: American College of Sports Medicine Meeting; June 2002; St Louis, MO.
- Feb 2002 **Stevens JE**, Mizner RL, Snyder-Mackler L. Characteristics of patients after TKA upon entry to outpatient rehabilitation. Presented at: American Physical Therapy Association Combined Sections Meeting; February 2002; Boston, MA.
- Dec 2001 **Stevens JE**, Mizner RL, Hingston S, Nardone M, Snyder-Mackler L. Quadriceps weakness and inhibition before and after total knee arthroplasty. Presented at: NIH Training Workshop, National Center for Medical Rehabilitation Research; December 2001; Bethesda, MD.
- Nov 2001 **Stevens JE**, Snyder-Mackler L. Quadriceps inhibition and weakness after total knee arthroplasty. Presented at: Association of Rheumatology Health Professionals; November 2001; San Francisco, CA.

- Feb 2001      Stackhouse SK, Johnson CD, **Stevens JE**, Snyder-Mackler L, Binder-Macleod S. Predictability of maximum voluntary quadriceps force from submaximal contractions in the elderly. Presented at: American Physical Therapy Association Combined Sections Meeting; February 2001; San Antonio, TX.
- Feb 2000      **Stevens JE**, Lewek M, Snyder-Mackler L. NMES for muscle strengthening in a patient following total knee arthroplasty in an elderly patient. Presented at: American Physical Therapy Association Combined Sections Meeting; February 2000; New Orleans, LA.
- Feb 1999      **Stevens JE**, Binder-Macleod SA, Snyder-Mackler L. Characterization of the human quadriceps muscle in active elders. Presented at: American Physical Therapy Association Combined Sections Meeting; February 1999; Boston, MA.

## **DEVELOPMENT & PRESENTATION OF CONTINUING EDUCATION WORKSHOPS**

- Getting Older is NOT for the Weak: Geriatric Rehabilitation for the 21st Century, University of Colorado Marquette Challenge, Sept 2019.
- Geriatric Scholars Program: Conference on Physical Function and the Quality Improvement course, Rocky Mountain Regional VAMC, May 2019.
- Rehabilitation Strategies after Total Knee Arthroplasty for a Changing Healthcare Landscape, Colorado APTA Spring Conference, May 2017.
- Physical Function Conference (targeting rehabilitation professionals), Boston VA, May 2017.
- Optimizing Rehab After Total Joint Replacement in a Changing Healthcare Landscape. Marquette Challenge Continuing Education Course, Sept 2016.
- The Changing Role of NMES. In conjunction with the 2014 Cleveland Clinic Sports Health Symposium, Nov 2014.
- Employing NMES for improved muscle strength following joint arthroplasty. Sponsored by St. Cloud Orthopaedics, St. Cloud, MN, Oct 2014.
- Elevating exercise progression; are you optimizing patient outcomes? UCD, co-taught with Cory Christiansen and David James, May 2014.
- Utilizing NMES for improved muscle strength following TKA surgery. Armstrong Atlantic State University, March 2014.
- Strategies for Successful Treatment of Total Knee Arthroplasty. Berkana Rehabilitation Institute, Ft. Collins, Colorado, March 2012.
- Total Knee Replacement Rehabilitation Guidelines for Inpatient and Outpatient Practice; APTA/Colorado Chapter's 39th Annual Spring Convention, April 2009.
- Total Knee Replacement Workshop: Surgical and Rehabilitation Management in Outpatient Setting; Eastern Washington University, Spokane, WA, April 3-4<sup>th</sup>, 2009.

## **TEACHING RECORD**

### **Teaching Responsibilities in the Entry-Level Program:**

#### Fall semester

- DPTR 6612 Patient Care Seminar II (2007-2013)
- DPTR 7751 Health Promotion (course liaison) (2007-2014)

#### Spring semester

- DPTR 7613 Patient Care Seminar III (2006-2015)
- DPTR 7112 Applied Exercise Science (2016-present)

#### Summer semester

- DPTR 7112 Applied Exercise Science (2006-2015)
- DPTR 7604 Scientific Inquiry IV (2006-2015)
- DPTR 5111 Exercise Science (course liaison) (2006-2014)

## **GRANT SUPPORT**



### **Currently Funded Grant Awards and Research Activity**

**Stevens-Lapsley (PI).** Implementation of Neuromuscular Electrical Stimulation after Total Knee Arthroplasty. NIH R01AG084683. 8/15/2024-7/31/2029 (\$5,075,957). The goal of this implementation hybrid type I study is to evaluate the effectiveness of neuromuscular electrical stimulation after total knee arthroplasty in real-world settings.

**Stevens-Lapsley (PI).** Multicomponent Telerehabilitation to Engage Veterans in Effective Self-Management of Complex Health Conditions. VA RR&D RX005012. 4/1/2024-3/30/2028 (\$1,200,000). The goal of this study is to assess the effectiveness of a multicomponent telerehabilitation program on medically complex Veterans.

Field-Fote (PI), **Stevens-Lapsley (Co-PI).** Training in Grantsmanship for Rehabilitation Research. NIH R25 HD074546; 2/9/2023-2/8/2028 (\$166,781). This research education program engages early-stage investigators in one-on-one expert mentorship in grantsmanship, grants management, career development, and development of peer-review skills for rehabilitation research.

Bade (PI), **Stevens-Lapsley (Co-I).** Swelling management after Total Knee Arthroplasty. NIH R21 AR082101; 8/2/2023-6/30/2026 (\$581,469). The goal of this project is to determine if the utilization of an inelastic adjustable compression garment (INCOM) reduces postoperative swelling more than elastic TED hose (CONTROL).

**Stevens-Lapsley (PI).** Improving Rehabilitation for Veterans After Total Knee Arthroplasty Using Individualized Recovery Trajectories. VA RR&D I01RX003770; 4/1/2022-3/31/2026 (\$1,198,128). This study will examine the impact of a new clinical decision support tool for rehabilitation after total knee arthroplasty.

**Stevens-Lapsley (PI).** Advancing Rehabilitation Paradigms for Older Adults in Skilled Nursing Facilities. NIH R01 AG072693; 7/1/2021-6/30/2026. (\$2,488,060). The goal of this work is to implement and evaluate a high intensity resistance rehabilitation paradigm in skilled nursing facilities using a cluster randomized trial.

Binder E (PI), **Stevens-Lapsley JE (Co-I).** Combining Testosterone and Exercise to Improve Function Post Hip Fracture. NIH R01 AG051647; 10/1/2017-4/30/2025 (\$4,142,501). This clinical trial will evaluate whether adding an anabolic hormone stimulus to exercise results in improved functional outcomes after hip fracture in older women when compared with exercise alone.

**Stevens-Lapsley JE (Co-I).** Optimizing resilience for rural VA rehabilitation clinicians. PROJFY-008928; 10/1/2024-9/30/2025; (\$103,910). This project aims to provide rehabilitation clinicians serving rural Veterans with critical self-care skills surrounding psychological resilience to address work-related stress and burnout.

**Stevens-Lapsley JE (PI).** VA Geriatric Scholars Rehabilitation Training Program; 10/1/2024-9/30/2025 (\$82,984). The goal of this program is to develop a practicum experience for rehabilitation professionals to integrate skills for implementing high intensity rehabilitation interventions for Veterans.

**Stevens-Lapsley JE (PI).** Improving physical rehabilitation for rural Veterans with complex care needs. VA Office of Rural Health, Veterans Rural Health Resource Center; PROJFY-009727; 10/1/2023-9/30/2024 (\$118,870). The goal of this project is to increase clinician access to education and training in evidence-based, high intensity physical rehabilitation to improve the quality of care provided to rural Veterans at risk for functional decline.

Hillary Lum (PI), **Stevens-Lapsley (Co-I).** Gait Speed Screening Initiative: To Identify Older Adults with Lower Functional Status at Risk of Falls. Clinical Effectiveness and Patient Safety (CEPS) Grant Program at UCH; 8/1/2022-7/31/2023 (\$21,500). This initiative will implement gait speed measurements as a 6<sup>th</sup> vital sign at UCH Seniors Clinics to refer patients to appropriate exercise and rehabilitation interventions to prevent adverse events (falls, ER visits, hospitalizations).

**Stevens-Lapsley (PI).** Engaging Medically Complex Veterans in Tele-Rehabilitation Using a Biobehavioral Approach: A Pilot Study of Feasibility and Acceptability VA RR&D I21RX003730. 7/1/2021-6/30/2023 (\$228,501). The goal of this study is to assess the effectiveness of a multicomponent telerehabilitation using a two-group randomized crossover design.

**Stevens-Lapsley (PI).** Movement Pattern Biofeedback Training after Total Knee Arthroplasty.

NIH R01 AG056585; 9/15/2017-5/30/2025 (\$3,004,535). The major goal of this study is to determine if the addition of a novel movement pattern training program to contemporary progressive rehabilitation improves functional movement pattern quality more than contemporary progressive rehabilitation alone after unilateral TKA.

### **Completed Grant & Funded Activity**

**Stevens-Lapsley JE** (Co-PI). Optimizing resilience for rural VA rehabilitation clinicians. PROJFY-009728; 10/1/2023-9/30/2024; (\$103,690). This project aims to provide rehabilitation clinicians serving rural Veterans with critical self-care skills surrounding psychological resilience to address work-related stress and burnout.

**Stevens-Lapsley JE** (PI). VA Geriatric Scholars Rehabilitation Training Program; 10/1/2023-9/30/2024 (\$88,701). The goal of this program is to develop a practicum experience for rehabilitation professionals to integrate skills for implementing high intensity rehabilitation interventions for Veterans.

Christiansen C (PI), **Stevens-Lapsley JE** (Co-I). Optimizing Physical Activity Outcomes for Veterans after Total Knee Arthroplasty VA Merit Award RR&D I01RX002417; 11/1/2018-10/30/2023 (\$1,077,824). The goal of this clinical trial is to determine the efficacy of physical activity behavior-change telerehabilitation on improving physical activity after total knee arthroplasty.

**Stevens-Lapsley JE** (PI). Optimizing resilience for rural VA rehabilitation clinicians. PROJFY-008928; 10/1/2022-9/30/2023; (\$105,486). This project aims to provide rehabilitation clinicians serving rural Veterans with critical self-care skills surrounding psychological resilience to address work-related stress and burnout.

**Stevens-Lapsley JE** (PI). Improving physical rehabilitation for rural Veterans with complex care needs. VA Office of Rural Health, Veterans Rural Health Resource Center; PROJFY-008801; 10/1/2022-9/30/2023 (\$122,861). The goal of this project is to increase clinician access to education and training in evidence-based, high intensity physical rehabilitation to improve the quality of care provided to rural Veterans at risk for functional decline.

**Stevens-Lapsley JE** (PI). VA Geriatric Scholars Rehabilitation Training Program; 10/1/2022-9/30/2023 (\$132,283). The goal of this program is to develop a practicum experience for rehabilitation professionals to integrate skills for implementing high intensity rehabilitation interventions for Veterans.

**Stevens-Lapsley** (PI). Novel Strategies for Personalized Clinical Decisions in Knee Arthroplasty. AHRQ R01 HS025692; 9/1/2018-6/30/2023 (\$1,922,505). The goal of this study is to develop and implement a clinical decision tool for shared decision making to facilitate personalized approaches to care for patients after total knee arthroplasty.

**Stevens-Lapsley JE** (PI). Progressing Home Health Rehabilitation Paradigms for Older Adults. NIH R01 NR016209; 7/1/2016-5/31/2023 (\$2,946,919). The major goal of this study is to determine if an interdisciplinary approach to home health rehabilitation including nutritional supplementation, improves physical function and reduces re-hospitalizations more than usual care.

Flynn S (PI); **Stevens-Lapsley** (Co-I). The Oaks: A Mobile Exercise and Education Program for People with Osteoarthritis of the Knee. NIH R44 AG055341; 2/1/2018-1/31/2022 (\$725,915). The goal is to develop and test a minimum viable product of The Oaks, a perioperative, digital, education, assessment and guided exercise software application for adults with osteoarthritis of the knee awaiting total knee replacement surgery.

**Stevens-Lapsley JE** (PI). VA Geriatric Scholars Rehabilitation Training Program; 10/1/2021-9/30/2022 (\$120,140). The goal of this program is to develop a practicum experience for rehabilitation professionals to integrate skills for implementing high intensity rehabilitation interventions for Veterans.

**Stevens-Lapsley JE** (PI). Improving physical rehabilitation for rural Veterans with complex care needs. VA Office of Rural Health, Veterans Rural Health Resource Center; PROJFY-008292; 10/1/2021-9/30/2022 (\$225,962). The goal of this project is to increase clinician access to education and training in evidence-based, high intensity physical rehabilitation to improve the quality of care provided to rural Veterans at risk for functional decline.

**Stevens-Lapsley JE** (PI). Advancing Rehabilitation after Total Hip Arthroplasty. VA RR&D I01 RX002251; 10/1/2016-10/31/2021 (\$1,099,636). The goal of this investigation is to evaluate the effectiveness of a multi-modal

core stabilization program for movement pattern retraining on functional outcomes after THA.

**Stevens-Lapsley JE** (PI), Abbate L, Lum H, Nearing K. Tele-rehabilitation for Medically Complex Veterans During the COVID-19 Pandemic: Program Evaluation; 10/15/2020-9/30/2021 (\$157,901). The goal of this clinical demonstration project is to evaluate the benefits of tele-rehabilitation in medically complex Veterans.

**Stevens-Lapsley JE** (PI). Physical function trajectories after COVID (VA Mission Act - GRECC Innovation Grant); 10/1/2020-9/30/2021 (\$112,010). The goal of this work was to evaluate functional trajectories for Veterans with COVID to identify predictors of poor trajectories.

**Stevens-Lapsley JE** (PI). Improving physical rehabilitation for rural Veterans with complex care needs. VA Office of Rural Health, Veterans Rural Health Resource Center; OMAT 16006; 10/1/2020-9/30/2021 (\$168,153). The goal of this project is to increase clinician access to education and training in evidence-based, high intensity physical rehabilitation to improve the quality of care provided to rural Veterans at risk for functional decline.

**Stevens-Lapsley JE** (PI). VA Geriatric Scholars Rehabilitation Training Program; 10/1/2020-09/30/2021 (\$106,924). The goal of this program is to train rehabilitation clinicians on how to implement high intensity rehabilitation interventions for Veterans.

**Stevens-Lapsley JE** (PI). Improving Function in Older Veterans with Hospital-associated Deconditioning. VA Merit Award RR&D I01 RX001978; 4/1/2016-09/30/2021 (\$1,000,099). The major goal of this project is to evaluate whether high intensity, front-loading of home health rehabilitation following hospitalization can improve community mobility, quality of life, and reduce caregiver burden in older Veterans.

Erlandson K (PI); **Stevens-Lapsley** (PI). Predictors of Recovery and the App-facilitated Tele-rehabilitation (AFTER) Program for COVID Survivors. NIH R01 AG054366; 9/15/2020-5/31/2021 (\$523,492). The goal of this study is to evaluate predictors of functional recovery after COVID and test the feasibility of a tele-rehabilitation program to improve physical function.

Toth M (PI); **Stevens-Lapsley** (Co-I). Skeletal muscle atrophy and dysfunction following total knee arthroplasty. NIH R01 AG050305; 12/1/2016-5/31/2021 (\$422,667). The goal of this investigation is to define the effect of total knee replacement on skeletal muscle size and contractile and mitochondrial function and the modulating effect of neuromuscular electrical stimulation.

**Stevens-Lapsley JE** (PI). VA Geriatric Scholars Rehabilitation Training Program; 10/1/2019-9/30/2020 (\$83,517). The goal of this program is to develop a practicum experience for rehabilitation professionals to integrate skills for implementing high intensity rehabilitation interventions for Veterans.

**Stevens-Lapsley JE** (PI). VA Geriatric Scholars Rehabilitation Training Program; 10/1/2018-9/30/2019 (\$128,354). The goal of this program is to develop an educational platform to disseminate information regarding how to implement high intensity rehabilitation interventions for Veterans.

**Stevens-Lapsley JE** (PI). Shifting Rehabilitation Paradigms in Skilled Nursing Facilities. VA RR&D I21 RX002193; 10/1/2016-9/30/2018 (\$198,912). The major goal of this project is to evaluate whether an interdisciplinary rehabilitation program that integrates principles of physiologic tissue overload in skilled nursing facilities is more effective than the standard of care.

Christiansen C (PI), **Stevens-Lapsley JE** (Co-I). Physical Activity Behavior Change for Older Veterans after Dysvascular Amputation. VA RR&D I21 RX002054; 4/1/2016-9/30/2018 (\$200,000). The major goal of this project is to determine the feasibility of using a physical-activity behavior-change intervention targeting improved physical activity and reduced disability in Veterans 1-5 years following dysvascular lower-limb amputation.

**Stevens-Lapsley** (PI) Developing Individualized Estimates of Patient Prognosis Following Knee Replacement. AHRQ R03 HS024316; 4/1/2016-3/31/2018 (\$100,000). The major goal of this study is to develop individualized patient prognoses for total knee arthroplasty using novel statistical methodologies to better inform clinical intervention targets.

**Stevens-Lapsley (PI)** The Impact of Physical Therapy on Improving Function and Reducing Hospitalizations in Medicare Home Health Populations. Center on Health Services Training and Research (CoHSTAR); 2/15/2016-2/14/2017 (\$25,000). The major goal of this investigation is to evaluate the relationship between physical therapy service delivery characteristics and either restoration of physical function or hospital admissions in home health settings using a Medicare claims database.

Overholser L (Co-I), Garrington T (Co-I), Hodgson C (Co-I), **Stevens-Lapsley (Advisory Board Member)** Promoting Healthy Cancer Survivorship in Rural Colorado Primary Health Care. NIH R25 CA160013; Sep 2012-Jun 2017 (\$1,466,839). The purpose of this project is to teach primary care physicians about the special medical needs of cancer survivors and to empower them to appropriately treat cancer survivors.

**Stevens-Lapsley JE (PI)**. Progressive Rehabilitation for Total Knee Arthroplasty. NIH R01 HD065900; 8/15/2011-5/31/2017 (\$2,469,362). The major goal of this project is to evaluate the effectiveness of a more intensive rehabilitation program compared to traditional rehabilitation after total knee arthroplasty.

**Stevens-Lapsley (PI)** Movement Pattern Training Following Total Knee Arthroplasty. NIH R56 AG048943; 9/15/2015-5/17/2017 (\$382,625). The goal of this project is to determine if the addition of a novel movement pattern training program to contemporary rehabilitation after total knee arthroplasty improves movement pattern quality and functional outcomes compared to contemporary rehabilitation alone.

Falvey J (PI), **Stevens-Lapsley JE (mentor)**. Enhancing Physical Therapy Participation in Models of Transitional Care. APTA Health Policy Administration Section grant; 7/1/2015-6/30/2016 (\$15,000). The major goal is to determine how physical therapists are engaged in models of transitional care aimed at reducing hospital readmissions. Mixed methods qualitative and survey study.

**Stevens-Lapsley JE, (PI)**. Determination of pain phenotypes in older adults with knee osteoarthritis. NIH R21-AG044710; Aug 2013-Oct 2016 (\$425,740). The major goals of this project are to establish the strength of the relationship between potential explanatory variables and pain severity in a population of older adults with knee OA and determine whether these clinically measurable variables are representative of distinct pain phenotypes within knee OA.

**Stevens-Lapsley JE (site PI; Hoffman PI)**. Alterations in gene expression following a neuromuscular electrical stimulation intervention post total knee arthroplasty. NIH R24HD050846; Oct 2014-May 2015 (\$15,000). The overall goal is to elucidate alterations in gene expression 2 weeks after TKA to better explain quadriceps muscle atrophy present during rehabilitation as well as the mechanism responsible for improved maintenance of strength and functional performance with NMES.

**Stevens-Lapsley JE (PI)**, Kohrt (Mentor); Schenkman M (Mentoring Team) Early NMES to improve quadriceps muscle function after total knee arthroplasty. NIH K23-AG029978. Sept 2008-Aug 2014; (\$716,144). The major goal of this project is to provide career development training in geriatric clinical research through investigation of the effectiveness of NMES in older adults after TKA.

Judd D (PI), **Stevens-Lapsley (Co-I)**. Multicomponent Rehabilitation after Total Hip Arthroplasty. Orthopaedic Section of the American Physical Therapy Association. Jun 2012-May 2014; (\$15,000). The purpose of this study is to investigate the effects of a comprehensive, multi-component (CMC) rehabilitation program after THA on muscle strength, neuromuscular control and functional performance.

Christiansen CL (PI), **Stevens-Lapsley JE (Co-I)**, Akuthota V (Co-I), Sherk K (Co-I). Early physical function during rehabilitation following dysvascular transtibial amputation. The Foundation for Physical Medicine & Rehabilitation. Nov 2012-Oct 2013; (\$30,000). The goals of this project are to: 1) examine common physical function measures and 2) characterize the standard of care rehabilitation for patients with diabetes following dysvascular transtibial amputation.

**Stevens-Lapsley JE (PI)**. Improving Activity, Participation and Function after Acute Hospitalization in Older Adults. American Physical Therapy Association's Home Health Section Research Grant. Nov 2012-Oct 2013; (\$10,000). The purpose of this study is to determine if a progressive multi-component intervention, initiated upon discharge from an acute care hospital, improves gait speed at the end of one 60-day episode of care, more than documented usual care physical therapy.

**Stevens-Lapsley JE** (Co-I), Christiansen C (Co-I). Limb Loading Asymmetry with Total Knee Arthroplasty. Bob Doctor Memorial Research Award. Jan 2009-Jun 2012; (\$8,000). The major goals of this pilot study are to 1) examine the presence of lower limb loading asymmetry during and 2) examine the relationship between limb loading asymmetry and both functional mobility and muscle strength.

Schenkman M (PI), Carollo JJ, Christiansen CL, Davidson BS, Maluf KS, Solomonow M, **Stevens-Lapsley J** (Co-I). Interdisciplinary Movement Science Laboratory. Sep 2008-Aug 2012. Academic Enrichment Fund New Strategic Research Initiative, School of Medicine. University of Colorado Denver.

**Stevens-Lapsley JE** (PI). Quadriceps muscle function after minimally invasive total knee arthroplasty. Arthritis Foundation New Investigator Award. Jul 2008-Oct 2012; (\$100,000). The goal of this study is to determine if minimally invasive TKA improves quadriceps muscle force production, activation, and muscle mass compared to traditional TKA.

**Stevens-Lapsley JE** (PI). Functional outcomes following minimally invasive total knee arthroplasty. NIH R03-AR054538. Mar 2008-Mar 2012; (\$150,000). The major goals of this project determine whether minimally invasive total knee arthroplasty improves functional outcomes when compared with traditional TKA.

**Stevens-Lapsley JE** (PI). Optimizing lower extremity muscle function after total knee arthroplasty. American College of Rheumatology New Investigator Award. Jul 2007-Oct 2010; (\$100,000). The goal of this study is to investigate quadriceps force and reflex inhibition after TKA and explore rehabilitation strategies to minimize these deficits after TKA.

**Stevens-Lapsley JE** (PI). NMES after Total Knee Arthroplasty to Improve Muscle Function. Empi Electrotherapy Research Program. Mar 2009-Feb 2010; (\$50,000). The major goal of this project is to expand upon preliminary results using neuromuscular electrical stimulation acutely after total knee arthroplasty.

**Stevens JE** (PI). NMES after total knee arthroplasty to counter quadriceps muscle activation deficits. Foundation for Physical Therapy Pittsburgh-Marquette Challenge Grant. Mar 2007-Jun 2008; (\$40,000). The aim of this pilot study was to test the safety, feasibility, and optimal parameters for use of NMES immediately after TKA for improving quadriceps muscle strength.

**Stevens J** (PI). Early NMES for quadriceps muscle activation deficits following total knee replacement. GCRC Pilot and Feasibility Grant. Jan 2006-Mar 2007; (\$18,000). The aim of this pilot study is to test the safety and feasibility of using NMES use acutely after TKA to maintain quadriceps muscle strength.

**Stevens J** (PI), Vandeborne K (Mentor) Anderson D (Mentor). Skeletal muscle plasticity after spinal cord injury in human and rodent models. VA-B3461H Post-doctoral fellowship. Jan 2004-Dec 2005; (\$112,000). The overall goal of this work was to examine changes in muscle morphology and function after spinal cord injury in response to rehabilitation training paradigms using human and rodent spinal cord injury models.

**Summary Table of Funding**

<b>Title</b>	<b>Agency</b>	<b>Type</b>	<b>Number</b>	<b>Role</b>	<b>Period</b>	<b>Total Costs</b>
Implementation of Neuromuscular Electrical Stimulation after Total Knee Arthroplasty	NIH	R01	R01AG084683	PI	2024-2029	\$5,075,957
Multicomponent Telerehabilitation to Engage Veterans in Effective Self-Management of Complex Health Conditions	VA RR&D	Merit	I01 RX005012	PI	2024-2028	\$1,200,000
Training in Grantsmanship for Rehabilitation Research.	NIH	R25	HD074546	Co-PI	2023-2028	\$166,781
Swelling management after Total Knee Arthroplasty	NIH	R21	AR082101	Co-PI	2023-2026	\$581,469
Improving Rehabilitation for Veterans After Total Knee Arthroplasty Using Individualized Recovery Trajectories.	VA RR&D	Merit	I01RX003770	PI	2022-2026	\$1,198,128
Advancing Rehabilitation Paradigms for Older Adults in Skilled Nursing Facilities.	NIH	R01	R01 AG072693	PI	2021-2026	\$2,488,060
VA Geriatric Scholars Rehabilitation Training Program	VA ORH	Geri Scholars		PI	2024-2025	\$82,984
Optimizing resilience for rural VA rehabilitation clinicians	VA ORH		PROJFY-010237	PI	2024-2025	\$103,910
Improving physical rehabilitation for rural Veterans with complex care needs. VA Office of Rural Health, Veterans Rural Health Resource Center.	VA ORH		PROJFY-009727	PI	2023-2024	\$118,870
Optimizing resilience for rural VA rehabilitation clinicians	VA ORH		PROJFY-009728	PI	2023-2024	\$103,690
VA Geriatric Scholars Rehabilitation Training Program	VA ORH	Geri Scholars		PI	2023-2024	\$88,701
Optimizing resilience for rural VA rehabilitation clinicians	VA ORH		PROJFY-008928	PI	2022-2023	\$105,486
Improving physical rehabilitation for rural Veterans with complex care needs. VA Office of Rural Health, Veterans Rural Health Resource Center.	VA ORH		PROJFY-008801	PI	2022-2023	\$122,861

Gait Speed Screening Initiative: To Identify Older Adults with Lower Functional Status at Risk of Falls.	CEPS	Grant Program		Co-PI	2022-2023	\$21,500
VA Geriatric Scholars Rehabilitation Training Program	VA ORH	Geri Scholars		PI	2022-2023	\$132,283
VA Geriatric Scholars Rehabilitation Training Program	VA ORH	Geri Scholars		PI	2021-2022	\$120,140
Improving physical rehabilitation for rural Veterans with complex care needs. VA Office of Rural Health, Veterans Rural Health Resource Center.	VA ORH		PROJFY-008292	PI	2021-2022	\$225,968
Engaging Medically Complex Veterans in Tele-Rehabilitation Using a Biobehavioral Approach: A Pilot Study of Feasibility and Acceptability.	VA RR&D	SPIRE	I21 RX003730	PI	2021-2023	\$228,501
Improving physical rehabilitation for rural Veterans with complex care needs. VA Office of Rural Health, Veterans Rural Health Resource Center.	VA ORH		OMAT 16006	PI	2020-2021	\$168,153
Tele-rehabilitation for Medically Complex Veterans During the COVID-19 Pandemic: Program Evaluation.	VA Office of Connected Care			PI	2020-2021	\$157,901
VA Geriatric Scholars Rehabilitation Training Program.	VA ORH	Geri Scholars		PI	2020-2021	\$106,924
Physical function trajectories after COVID	VA GRECC			PI	2020-2021	\$112,010
VA Geriatric Scholars Rehabilitation Training Program	VA ORH	Geri Scholars		PI	2019-2020	\$83,517
Predictors of Recovery and the App-Facilitated Tele-Rehabilitation (AFTER) Program for COVID Survivors.	NIH	R01	R01 AG054366	PI	2019-2020	\$523,492
Optimizing Physical Activity Outcomes for Veterans after Total Knee Arthroplasty.	VA RR&D	Merit	I01 RX002417	Co-PI	2018-2023	\$1,077,824
Novel Strategies for Personalized Clinical Decisions in Knee Arthroplasty.	AHRQ	R01	R01 HS025692	PI	2018-2024	\$1,922,505

The Oaks: A Mobile Exercise and Education Program for People with Osteoarthritis of the Knee.	NIH	R44	R44 AG055341	Co-PI	2018-2022	\$725,915
VA Geriatric Scholars Rehabilitation Training Program.	VA ORH			PI	2018-2019	\$128,354
Combining Testosterone and Exercise to Improve Function Post Hip Fracture.	NIH	R01	R01 AG051647	Co-PI	2017-2025	\$4,142,501
Movement Pattern Biofeedback Training after Total Knee Arthroplasty.	NIH	R01	R01 AG056585	PI	2017-2025	\$3,004,535
Progressing Home Health Rehabilitation Paradigms for Older Adults.	NIH	R01	R01- NR016209	PI	2016-2023	\$2,946,919
Improving Function in Older Veterans with Hospital-associated Deconditioning.	VA RR&D	Merit	I01 RX001978	PI	2016-2022	\$1,000,099
Advancing Rehabilitation after Total Hip Arthroplasty.	VA RR&D	Merit	I01 RX002251	PI	2016-2021	\$1,099,636
Skeletal muscle atrophy and dysfunction following total knee arthroplasty.	NIH	R01	R01 AG050305	Co-PI	2016-2021	\$422,667
Shifting Rehabilitation Paradigms in Skilled Nursing Facilities.	VA RR&D	SPiRE	I21 RX002193	PI	2016-2018	\$198,912
Physical Activity Behavior Change for Older Veterans after Dysvascular Amputation.	VA RR&D	SPiRE	I21 RX002054	Co-PI	2016-2018	\$200,000
Developing Individualized Estimates of Patient Prognosis Following Knee Replacement.	AHRQ	R03	R03 HS024316	PI	2016-2018	\$100,000
The Impact of Physical Therapy on Improving Function and Reducing Hospitalizations in Medicare Home Health Populations.	CoHST AR			PI	2016-2017	\$25,000
Movement Pattern Training Following Total Knee Arthroplasty	NIH	R56	R56 AG048943	PI	2015-2017	\$382,625
Enhancing Physical Therapy Participation in Models of Transitional Care. APTA Health Policy Administration Section grant.	APTA			Co-PI	2015-2016	\$15,000



Alterations in gene expression following a neuromuscular electrical stimulation intervention post total knee arthroplasty.	NIH	R24	R24HD05084 6	Site PI	2014-2015	\$15,000
Determination of pain phenotypes in older adults with knee osteoarthritis.	NIH	R21	R21- AG044710	PI	2013-2016	\$425,740
Promoting Healthy Cancer Survivorship in Rural Colorado Primary Health Care.	NIH	R25	R25- CA160013	Advisory Bd	2012-2017	\$1,466,839
Multicomponent Rehabilitation after Total Hip Arthroplasty.	APTA			Co-PI	2012-2014	\$15,000
Improving Activity, Participation and Function after Acute Hospitalization in Older Adults.	APTA			PI	2012-2013	\$10,000
Early physical function during rehabilitation following dysvascular transtibial amputation.	Foundat ion for PM&R			Co-PI	2012-2013	\$30,000
Progressive Rehabilitation for Total Knee Arthroplasty.	NIH	R01	NIH R01- HD065900	PI	2011-2017	\$2,469,362
Limb Loading Asymmetry with Total Knee Arthroplasty.	Bob Doctor			Co-PI	2009-2012	\$8,000
NMES after Total Knee Arthroplasty to Improve Muscle Function.	NMES			PI	2009-1010	\$50,000
Quadriceps muscle function after minimally invasive total knee arthroplasty.	Arthritis Foundat ion			PI	2008-2012	\$100,000
Functional outcomes following minimally invasive total knee arthroplasty.	NIH	R03	R03- AR054538	PI	2008-2012	\$231,000
Early NMES to improve quadriceps muscle function after total knee arthroplasty.	NIH	K23	K23- AG029978	PI	2008-2014	\$716,144
NMES after total knee arthroplasty to counter quadriceps muscle activation deficits	DJO			PI	2007-2008	\$40,000
Optimizing lower extremity muscle function after total knee arthroplasty.	ACR			PI	2007-2010	\$100,000
Early NMES for quadriceps muscle activation deficits following	CTRC			PI	2006-2007	\$18,000

total knee replacement.

Skeletal muscle plasticity after spinal cord injury in human and rodent models.	VA	VA B3461H	PI	2004-2005	\$112,000
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**Total Award Amounts:**

PI	Co-I, Site PI, Advisory Bd	TOTAL
\$27,524,457	\$8,992,406	\$36,516,863

**Mentored Awards**

Melissa Tran, PT, DPT, PhD, Stevens-Lapsley (Primary Mentor). Foundation for Physical Therapy Promotion of Doctoral Studies Level I. Pre-doctoral Training Grant (\$7,500), 2024.

Audrey Keleman, OT, PhD, Stevens-Lapsley JE (Primary Mentor); Veterans Affairs (VA) Advanced Geriatrics Fellowship. 8/1/2022-7/31/2024; Two-year advanced research fellowship designed to support the postdoctoral training of the fellow and an associated research project that is relevant to veterans.

Rauzi MR (Trainee); **Stevens-Lapsley JE** (Primary Mentor); Cory Christiansen (Secondary Mentor). Telehealth for Medically Complex Older Veterans. Foundation for Physical Therapy Research: Promotion of Doctoral Studies (PODS) II Scholarship. 9/1/2022-8/31/2023 (\$15,000). The purpose of this award is to support future researchers and fund physical therapy research.

Mattie Pontiff, PT, DPT, OCS, PhD, **Stevens-Lapsley JE** (Primary Mentor); Veterans Affairs (VA) Advanced Geriatrics Fellowship. 8/1/2022-7/31/2024; Two-year advanced research fellowship designed to support the postdoctoral training of the fellow and an associated research project that is relevant to veterans.

Janell Pisegna, OT, PhD **Stevens-Lapsley JE** (Primary Mentor); Veterans Affairs (VA) Advanced Geriatrics Fellowship. 7/1/2022-6/30/2024; Two-year advanced research fellowship designed to support the postdoctoral training of the fellow and an associated research project that is relevant to veterans.

Lauren Hinrichs, PT, DPT, OCS, **Stevens-Lapsley JE** (Primary Mentor); Veterans Affairs (VA) Advanced Geriatrics Fellowship. 7/1/2022-6/30/2024; Two-year advanced research fellowship designed to support the postdoctoral training of the fellow and an associated research project that is relevant to veterans.

Wherry, Sarah J., **Stevens-Lapsley** (Mentor). VA RR&D Career Development Award 2 (CDA2) IK2RX003820; 4/1/2022-3/31/2027 (\$949,720). Anabolic Versus Catabolic Skeletal Effects of Endurance or Resistance Exercise in Older Veterans.

Butera KA, **Stevens-Lapsley JE** (Primary/Research Mentor); Frank J (Translational Mentor). TL1 Post-Doctoral Training Award (Team Oriented Training across the Translational Sciences Spectrum). NIH/NCATS Colorado CTSA Grant Number TL1 TR002533; 07/01/21 – 06/30/22. Identifying multifactorial older adult patient subgroups and their impact on post- hospitalization rehabilitation outcomes.

Rauzi MR, **Stevens-Lapsley JE** (Primary Mentor); Abbate LM (Secondary Mentor). Comprehensive Telerehabilitation for Medically Complex Veterans. NIH Integrative Physiology of Aging Training Grant T32AG000279; 7/1/21-6/30/22. The goal of this award is to support pre-doctoral training in aging studies.

Graber J. **Stevens-Lapsley JE** (Primary Mentor); Veterans Affairs (VA) Advanced Geriatrics Fellowship. 8/1/2021-6/30/2023; Two-year advanced research fellowship designed to support the postdoctoral training of the fellow and an associated research project that is relevant to veterans.

Garbin, Alex. **Stevens-Lapsley JE** (Primary Mentor); Veterans Affairs (VA) Advanced Geriatrics Fellowship. 7/1/2021-6/30/2023; Two-year advanced research fellowship designed to support the postdoctoral training of the

fellow and an associated research project that is relevant to veterans.

Graber J, **Stevens-Lapsley JE** (Primary Mentor). Academy of Geriatric Physical Therapy Adopt-A-Doc Award (\$2,000), 2021.

Beisheim-Ryan, Emma. **Stevens-Lapsley JE** (Primary Mentor); Veterans Affairs (VA) Advanced Geriatrics Fellowship. 8/1/2021-7/31/2023; Two-year advanced research fellowship designed to support the postdoctoral training of the fellow and an associated research project that is relevant to veterans.

Hinrichs L, **Stevens-Lapsley JE**. (Primary Mentor) ACR Rheumatology Research Foundation Graduate Student Preceptorship (\$3000 to student; \$1,000 to preceptor). Sept 2020-Oct 2021. The goal of this award is to introduce graduate students to rheumatology-related health care by partially supporting full-time research. This project seeks to understand the relationship between physical activity and movement patterns in patients with total hip arthroplasty.

Seidler, K.J., **Stevens-Lapsley JE**. (Primary Mentor) Veterans Affairs (VA) Advanced Geriatrics Fellowship 8/15/2020-7/15/2021; One-year advanced research fellowship designed to support the postdoctoral training of the fellow and an associated research project that is relevant to veterans.

Graber J, **Stevens-Lapsley JE**. (Primary Mentor) ACR Rheumatology Research Foundation Graduate Student Preceptorship (\$3000 to student; \$1,000 to preceptor). Jun-Dec 2020. The goal of this award is to introduce graduate students to rheumatology-related health care by partially supporting full-time research. This project seeks to develop algorithms capable of predicting quadriceps strength recovery for patients with total knee arthroplasty.

Capin, Jacob, **Stevens-Lapsley JE** (Primary Mentor); NIH Ruth L. Kirschstein National Research Service Award Fellowship F32 AG066274; \$122,080. 5/31/2020-9/30/2021. Contralateral Knee Osteoarthritis Among Older Adults after Primary Total Knee Arthroplasty. NRSA postdoctoral training fellowship, National Institute on Aging (NIA).

Capin, Jacob, **Stevens-Lapsley JE**. (Primary Mentor) Veterans Affairs (VA) Advanced Geriatrics Fellowship. 9/1/2019-5/30/2020; Two-year advanced research fellowship designed to support the postdoctoral training of the fellow and an associated research project that is relevant to veterans.

LeDoux, Cherie, **Stevens-Lapsley** (Primary Mentor). Foundation for Physical Therapy Promotion of Doctoral Studies Level I. Pre-doctoral Training Grant (\$7,500), 2019.

Stutzbach, Julie, **Stevens-Lapsley** (Primary Mentor). Foundation for Physical Therapy Promotion of Doctoral Studies Level I. Pre-doctoral Training Grant (\$7,500), 2019.

Capin, Jacob, **Stevens-Lapsley JE**. (Primary Mentor); Academy of Orthopaedic Physical Therapy (AOPT) Career Development Award (\$50,000). 9/1/2019-8/31/2021. Supports post-professional research training for PhD-trained physical therapists to pursue orthopedic research.

Stutzbach, Julie, **Stevens-Lapsley JE**. (Primary Mentor); Schwartz RS (PI). T32 pre-doctoral training award; Center Aging Training Grant T32-AG000279; 06/01/2019 – 06/01/2021. High-Velocity, Functional Training for High-Risk, High-Needs Older Adults. This award provides salary support for training focused on high-velocity rehabilitation for PACE participants. Grant awarded to trainees based on a competitive application process.

Carmichael JP, **Stevens-Lapsley JE**. (Primary Mentor) ACR Rheumatology Research Foundation Medical and Graduate Student Preceptorship (\$3000 to student; \$1000 to preceptor). Jan 2019-Aug 2019. The goal of this award is to introduce students to rheumatology-related health care by supporting a full-time research experience in the broad area of rheumatic disease. This project seeks to quantify the effects of self-administered, in-home edema management treatments in patients after TKA surgery, and determine whether multimodal edema management can improve quadriceps activation and functional performance at 1 month.

LeDoux, CV, **Stevens-Lapsley JE**. (Primary Mentor). NIH-National Institute of Aging Diversity Supplement to R01AG056585 (\$148,682), 2018-2020. Social and Behavioral Factors of Physical Activity in Older Adults with

End Stage Knee Osteoarthritis.

LeDoux CV, **Stevens-Lapsley JE**. (Primary Mentor) ACR Rheumatology Research Foundation Graduate Student Preceptorship (\$3000 to student; \$1,000 to preceptor). October 2018-December 2018. The goal of this award is to introduce graduate students to rheumatology-related health care by partially supporting full-time research. This mixed methods project seeks to identify the environmental, socio-cultural, and behavioral determinants of physical activity in older adults with end-stage knee osteoarthritis to improve care pathways and increase intervention effectiveness.

Falvey, Jason. **Stevens-Lapsley JE** (Primary Mentor). Foundation for Physical Therapy Promotion of Doctoral Studies Level I. Pre-doctoral Training Grant (\$7,500), 2018.

Gustavson, Allison. **Stevens-Lapsley JE** (Primary Mentor). Foundation for Physical Therapy Promotion of Doctoral Studies Level I. Pre-doctoral Training Grant (\$15,000), 2018.

Gustavson, Allison, **Stevens-Lapsley JE** (Primary Mentor). Academy of Geriatric Physical Therapy Adopt-A-Doc Award (\$2,000), 2018.

Falvey, Jason. **Stevens-Lapsley JE** (Primary Mentor) NIH F31-AG056069 Impact of impaired physical function on emergency room utilization, hospitalization, and nursing home admission in community-based long-term care settings. Amount Awarded: \$31,066/year. Award Period: 12/1/17-10/30/18.

Stutzbach, Julie. **Stevens-Lapsley JE** (Primary Mentor). Foundation for Physical Therapy Florence Kendall Doctoral Scholarship, 2017.

Gustavson, Allison. **Stevens-Lapsley JE** (Primary Mentor). Foundation for Physical Therapy Promotion of Doctoral Studies Level II. Pre-doctoral Training Grant (\$15,000). 2017.

Falvey, Jason. **Stevens-Lapsley JE** (Primary Mentor). Foundation for Physical Therapy Promotion of Doctoral Studies Level II. Pre-doctoral Training Grant (\$15,000). 2017.

Christensen, Jesse, **Stevens-Lapsley JE**. (Primary Mentor) ACR REF/Abbott Health Professional Graduate Student Research Preceptorship (\$3000 to student; \$1,000 to preceptor). Dec 2016-April 2017. The goal of this award is to introduce students to rheumatology-related health care by partially supporting full-time research. This project seeks to identify the baseline characteristics of patients who are both relatively young and poor functioning after TKA surgery and determine whether this group differs from those with a more typical recovery response postoperatively.

Falvey, Jason. **Stevens-Lapsley JE** (Primary Mentor). Burke, RE (Co-Mentor); Schwartz RS (PI). T32 pre-doctoral training award; Center Aging Training Grant T32-AG000279; August 2016-August 2017. The prognostic value of physical performance measures in the prediction of older adults at risk for adverse outcomes in community-based long term care settings. This award provides salary support for Jason Falvey's PhD training focused on improving the identification of community-based long term care beneficiaries at risk for falls, emergency room visits, and hospitalization. Grant awarded to trainees based on a competitive application process.

Gustavson, Allison. **Stevens-Lapsley JE** (Primary Mentor). Boxer R. (Co-Mentor); Schwartz RS (PI). T32 pre-doctoral training award; Center Aging Training Grant T32-AG000279; July 2016-July 2018. Advancing Rehabilitation Strategies for Older Adults Post-Hospitalization. This award provides salary support for Allison Gustavson's PhD training focused on advancing rehabilitation strategies to maximize outcomes for older adults following hospitalization. Grant awarded to trainees based on a competitive application process.

Falvey, Jason (PI). **Stevens-Lapsley JE** (Co-I and Mentor). Research Grant Recipient, Home Health Section of the American Physical Therapy Association. March 2016-March 2017. The impact of physical therapy on reducing re-hospitalizations and improving function in Medicare home health beneficiaries. (\$10,000).

Gustavson, Allison. **Stevens-Lapsley JE** (Primary Mentor). Foundation for Physical Therapy Promotion of Doctoral Studies Level I. Pre-doctoral Training Grant (\$7,500). 2016.

Gustavson, Allison. **Stevens-Lapsley JE** (Primary Mentor). Academy of Geriatric Physical Therapy Fellowship for Geriatric Research (\$1,000), 2016.

Falvey, Jason. **Stevens-Lapsley JE** (Primary Mentor). Foundation for Physical Therapy Promotion of Doctoral Studies Level I. Pre-doctoral Training Grant (\$7,500). 2016.

Loyd, Brian, **Stevens-Lapsley JE** (Primary Mentor). Academy of Geriatric Physical Therapy Adopt-A-Doc Award (\$2,000), 2016.

Falvey, Jason (PI). **Stevens-Lapsley JE** (Co-I and Mentor). Research Grant Recipient, Health Policy and Administration Section of the American Physical Therapy Association. Optimizing the role of physical therapists in models of transitional care (\$15,000), May 2015-May 2016.

Falvey, Jason. **Stevens-Lapsley JE** (Primary Mentor). ACR REF/Abbott Health Professional Graduate Student Research Preceptorship (\$3,500 to student; \$2,500 to preceptor). May 2015-August 2015. The goal of this award is to introduce students to rheumatology-related health care by partially supporting full-time research. This study will evaluate how radiographic alignment changes impact quadriceps strength loss after total knee arthroplasty.

Gustavson, Allison. **Stevens-Lapsley JE**. (Primary Mentor) ACR REF/Abbott Health Professional Graduate Student Research Preceptorship (\$3,500 to student; \$1,000 to preceptor, \$1,000 for research costs). March 2015-January 2016. The goal of this award is to introduce students to rheumatology-related health care by partially supporting full-time research. This study will evaluate how the development of individualized predictions of recovery following TKA can be used to improve care at an individual level.

Loyd, Brian. **Stevens-Lapsley JE** (Primary Mentor). ACR REF/Abbott Health Professional Graduate Student Research Preceptorship (\$3,500 to student; \$2,500 to preceptor). January 2015-April 2016. The goal of this award is to introduce students to rheumatology-related health care by partially supporting full-time research. This study will develop estimates individual prognosis following Total Knee Arthroplasty.

Kittelson, Andrew. **Stevens-Lapsley JE** (Primary Mentor). Foundation for Physical Therapy Promotion of Doctoral Studies Level II. Pre-doctoral Training Grant (\$15,000), 2015.

Kittelson, Andrew. **Stevens-Lapsley JE** (Primary Mentor). Foundation for Physical Therapy Promotion of Doctoral Studies Level II. Pre-doctoral Training Grant (\$15,000), 2015-2016.

Gustavson, Allison. **Stevens-Lapsley JE** (Primary Mentor). Foundation for Physical Therapy Promotion of Doctoral Studies Level I. Pre-doctoral Training Grant (\$7,500), 2015-2016.

Falvey, Jason. **Stevens-Lapsley JE** (Primary Mentor). Foundation for Physical Therapy Promotion of Doctoral Studies Level I. Pre-doctoral Training Grant (\$7,500), 2015-2016.

Falvey, Jason. **Stevens-Lapsley JE** (Primary Mentor). Foundation for Physical Therapy Florence P. Kendall Doctoral Scholarship. (\$5,000). 2015.

Falvey, Jason. **Stevens-Lapsley JE** (Primary Mentor). Academy of Geriatric Physical Therapy. Fellowship for Geriatric Research (\$1,000), 2015.

Gustavson, Allison. **Stevens-Lapsley JE** (Primary Mentor). Foundation for Physical Therapy Florence P. Kendall Scholarship (\$5,000), 2015.

Kittelson, Andrew, **Stevens-Lapsley JE** (Primary Mentor). Adopt-A-Doc Award from the American Physical Therapy Association Academy of Geriatric Physical Therapy (\$2,000), 2015.

Loyd, Brian. **Stevens-Lapsley JE** (Primary Mentor). Christiansen C (Co-Mentor); Schwartz RS (PI). T32 pre-doctoral training award; Center Aging Training Grant T32-AG000279; Sept 2013-August 2015. Improving prognosis for older adults undergoing TKA surgery. This award provides salary support for Brian Loyd's PhD training focused on improving the precision of prognosis after TKA. Grant awarded to trainees based on a

competitive application process.

Kittelson, Andrew. **Stevens-Lapsley JE** (Primary Mentor). Foundation for Physical Therapy Promotion of Doctoral Studies Level II. Pre-doctoral Training Grant (\$15,000), 2014.

Kittelson, Andrew, **Stevens-Lapsley JE** (Primary Mentor). Adopt-A-Doc Award from the American Physical Therapy Association Academy of Geriatric Physical Therapy (\$2,000), 2014.

Loyd, Brian. **Stevens-Lapsley JE** (Primary Mentor). Foundation for Physical Therapy Florence Kendall Doctoral Scholarship (\$5,000), 2014.

Paxton, Roger, **Stevens-Lapsley JE**. (Primary Mentor); Christiansen C (Co-Mentor); Schwartz RS (PI). T32 pre-doctoral training award; Center Aging Training Grant T32-AG000279; Sept 2013-August 2015. Collaborative-care Intervention to Promote Physical Activity after Total Knee Arthroplasty. This award provides salary support for Roger Paxton's Post-doc training focused on physical activity interventions in older adult populations. Grant awarded to trainees based on a competitive application process.

Kittelson, Andrew. **Stevens-Lapsley JE** (Primary Mentor). Foundation for Physical Therapy Promotion of Doctoral Studies Level I. Pre-doctoral Training Grant (\$7,500), 2013.

Judd, Dana, **Stevens-Lapsley JE** (Primary Mentor). Adopt-A-Doc Award from the American Physical Therapy Association Geriatrics Section; 2012, 2013.

Judd, Dana. **Stevens-Lapsley JE**. (Primary Mentor); Schenkman (Co-Mentor); Schwartz RS (PI). T32 pre-doctoral training award; Center Aging Training Grant T32-AG000279; July 2012-April 2013. Multicomponent Rehabilitation after Total Hip Arthroplasty. This award provides salary support for Dana Judd's s PhD training focused on rehabilitation outcomes after total hip arthroplasty. Grant awarded to trainees based on a competitive application process.

Kittelson, Andrew. **Stevens-Lapsley JE**. (Primary Mentor); Maluf K (Co-Mentor); Schwartz RS (PI). T32 pre-doctoral training award; Center Aging Training Grant T32-AG000279; May 2012-April 2013. Determination of pain phenotypes in older adults with knee osteoarthritis. This award provides salary support for Andrew Kittelson's PhD training focused on identifying subgroups of patients with knee OA. Grant awarded to trainees based on a competitive application process.

Kittelson, Andrew **Stevens-Lapsley JE**. (Primary Mentor) ACR REF/Abbott Health Professional Graduate Student Research Preceptorship (\$3,500 to student; \$2,500 to preceptor). May 2012-April 2012. The goal of this award is to introduce students to rheumatology-related health care by partially supporting full-time research. This study will evaluate how novel measures of central nervous system function may help to explain the pain experience in older adults with knee osteoarthritis.

Kittelson, Andrew. **Stevens-Lapsley JE** (Primary Mentor). Foundation for Physical Therapy Promotion of Doctoral Studies Level I. Pre-doctoral Training Grant (\$7,500), 2012.

Bade, Michael. **Stevens-Lapsley JE** (Primary Mentor). Foundation for Physical Therapy Promotion of Doctoral Studies Level II. Pre-doctoral Training Grant (\$15,000), 2012.

Thomas, Abbey. **Stevens-Lapsley JE**. (Primary Mentor); Schwartz RS (PI). T32 pre-doctoral training award; Center Aging Training Grant T32-AG000279; May 2011-April 2012. Muscle Strength and Function Before and After Joint Replacement Surgery. This award provides salary support for Abbey Thomas for work focused on mechanisms for quadriceps muscle activation deficits after total knee arthroplasty. Grant awarded to trainees based on a competitive application process.

Christiansen CL (PI), **Stevens-Lapsley JE** (Primary Mentor). Improving Function after Total Knee Arthroplasty with Weight-Bearing Biofeedback. Foundation for Physical Therapy Research Grant 1/11-12/12 (\$40,000). The major goals of this pilot study are to: 1) determine effects of the weight-bearing biofeedback intervention on WB asymmetry during sit-stand transitions and walking, 2) determine effects of the weight-bearing biofeedback intervention on functional activity performance, and 3) determine safety of the weight-bearing biofeedback

intervention.

Bade, Michael, **Stevens-Lapsley JE**. (Primary Mentor); Schwartz RS (PI). T32 pre-doctoral training award; Center Aging Training Grant T32-AG000279; May 2010-April 2012. Improving Strength and Function after Total Knee Arthroplasty. This award provides salary support for Michael Bade's PhD training focused on rehabilitation outcomes after total knee arthroplasty. Grant awarded to trainees based on a competitive application process.

Judd, Dana, **Stevens-Lapsley JE**. (Primary Mentor) ACR REF/Abbott Health Professional Graduate Student Research Preceptorship (\$3,500 to student; \$2,500 to preceptor). May 2010-April 2011. The goal of this award is to introduce students to rheumatology-related health care by partially supporting full-time research. This study will evaluate whether adults with total hip arthroplasty have post-operative deficits in strength of the surgical lower extremity, postural control, and functional performance compared to healthy, age-matched counterparts.

Bade, Michael. **Stevens-Lapsley JE** (Primary Mentor). Adopt-A-Doc Award from the American Physical Therapy Association Geriatrics Section; 2010-2011.

Bade, Michael. **Stevens-Lapsley JE** (Mentor). Foundation for Physical Therapy Promotion of Doctoral Studies Level I. Pre-doctoral Training Grant (\$Primary 7,500), 2010.

Bade, Michael, **Stevens-Lapsley JE**. (Primary Mentor) ACR REF/Abbott Health Professional Graduate Student Research Preceptorship (\$3,500 to student; \$2,500 to preceptor). May 2009-April 2010. The goal of this award is to introduce students to rheumatology-related health care by partially supporting full-time research. This project is specifically focused on assessing the initial efficacy of a progressive rehabilitation program compared to a standard rehabilitation program after TKA.

Bade, Michael. **Stevens-Lapsley JE** (Primary Mentor). Foundation for Physical Therapy Florence Kendall Doctoral Scholarship, 2008.

## PEER REVIEWED PUBLICATIONS

1. Hoffman, R.M., Hinrichs-Kinney, L., Forster, J.E., Dayton, M.D., Dennis, D., Judd, D.L., Christiansen, C.L., **Stevens-Lapsley, J.E.** Special Topics Issue: Improvements in Physical Capacity After Total Hip Arthroplasty May Not Indicate Reductions in Real-World Sedentary Activity. Accepted for publication in the Journal of Geriatric Physical Therapy. Apr 2025.
2. Opel DJ, Gerstein MT, Carle AC, Fournier AK, Hargraves I, Lafata JE, Lipstein EA, Mallinson T, Moise N, Neuman HB, Nix M, Papadimitriou C, Scherer L, Sepucha K, Simpson M, Schwartz A, **Stevens-Lapsley JE**, Dickert NW. Saving Shared Decision-Making. J Gen Intern Med. 2025 Feb 14. doi: 10.1007/s11606-025-09410-z. Epub ahead of print. PMID: 39953310.
3. Bade MJ, Christiansen CL, Zeni JA, Dayton MR, Forster JE, Cheuy VA, Christensen JC, Hogan C, Koonce R, Dennis D, Peters A, **Stevens-Lapsley JE**. Movement Pattern Biofeedback Training after Total Knee Arthroplasty: A Randomized Controlled Trial. Arthritis Care Res (Hoboken). 2025 Feb 10. Epub ahead of print.
4. Tran MK, Rauzi MR, Monroe KM, Dore PM, Magaziner J, Binder EF, **Stevens-Lapsley J**. Fidelity Results for a Multi-site Randomized Controlled Trial in Women after Hip Fracture. 2025 Feb 4. Poster accepted to be presented at the 2025 Annual Scientific Meeting of the American Geriatrics Society: Chicago, IL; May 2025.
5. Kline PW, Hanlon SL, Richardson VL, Hoffman RM, Melanson EL, Juarez-Colunga E, **Stevens-Lapsley JE**, Christiansen CL. Functional Capacity at Rehabilitation Discharge Predicts Physical Activity Characteristics 24 Weeks Later for People With Total Knee Arthroplasty: A Secondary Analysis of a Randomized Controlled Trial. Arch Phys Med Rehabil. 2025 Jan 16:S0003-9993(25)00442-3. doi: 10.1016/j.apmr.2025.01.416. Epub ahead of print. PMID: 39826881.
6. Rauzi MR, Abbate LM, Churchill L, Garbin AJ, Forster JE, Christiansen CL, **Stevens-Lapsley JE**. Multicomponent telerehabilitation program for veterans with multimorbidity: A randomized controlled feasibility study. PM R. 2025 Jan 8. doi: 10.1002/pmrj.13299. Epub ahead of print. PMID: 39777862.

7. Bade MJ, Christiansen CL, Zeni JA Jr, Dayton MR, Forster JE, Cheuy V, Christensen JC, Hogan C, Koonce R, Dennis D, Peters A, **Stevens-Lapsley JE**. Movement pattern biofeedback training after total knee arthroplasty: a randomized controlled trial. *Arthritis Care Res (Hoboken)*. 2024 Dec 22. [Epub ahead of print] PubMed PMID: 39711097.
8. Garbin AJ, Tran MK, Graber J, Derlein D, Currier D, Altic R, Will R, Cumbler E, Forster JE, Mangione KK, **Stevens-Lapsley JE**. Improving Function in Older Adults With Hospital-Associated Deconditioning: Lessons Learned Comparing a Randomized Controlled Trial to Real World Practice. *Physical Therapy*, Volume 104, Issue 12, December 2024, pzae173. PubMed PMID: 39704301.
9. Garbin AJ, Falvey JR, Cumbler E, Derlein D, Currier D, Nordon-Craft A, Will R, Olivos M, Forster JE, Mangione KK, **Stevens-Lapsley JE**. Progressive Multicomponent Intervention for Older Adults in Home Health Settings Following Hospitalization: Randomized Clinical Trial. *Physical Therapy*, Volume 104, Issue 12, December 2024. PubMed PMID: 39704300.
10. Davis-Wilson H, Hoffman R, Cheuy V, Christensen J, Forster JE, Judd DL, **Stevens-Lapsley J**, Christiansen CL. Gait compensations, pain, and functional performance during the six-minute walk test in individuals with unilateral hip osteoarthritis. *Clin Biomech (Bristol)*. 2024 Dec;120:106366. PubMed PMID: 39490051
11. Christiansen CL, Kline PW, Anderson CB, Melanson EL, Sullivan WJ, Richardson VL, Juarez-Colunga E, **Stevens-Lapsley JE**. Optimizing Total Knee Arthroplasty Rehabilitation with Telehealth Physical Activity Behavior Change Intervention: A Randomized Clinical Trial, *Physical Therapy*, Volume 104, Issue 10, October 2024, pzae088, <https://doi.org/10.1093/ptj/pzae088>. PMID: 39001713.
12. Garbin AJ, DeVone F, Bayer TA, **Stevens-Lapsley J**, Abul Y, Singh M, Leeder C, Halladay C, McConeghy KW, Gravenstein S, Rudolph JL. Changes in Physical Function and Physical Therapy Use in Older Veterans Not Infected by CoVID-19 Residing in Community Living Centers during the CoVID-19 Pandemic. *J Am Med Dir Assoc*. 2024 Sep;25(9):105120. PubMed PMID: 38945171.
13. Hinrichs-Kinney LA, Pisegna J, Pontiff ME, Beisheim-Ryan EH, Altic R, Coats H, **Stevens-Lapsley JE**. A Mixed-Method Evaluation to Understand Clinician Perceptions of a Program to Implement High-Intensity Resistance Rehabilitation into Skilled Nursing Facilities. *Arch Phys Med Rehabil*. 2024 Sep 26:S0003-9993(24)01257-7. doi: 10.1016/j.apmr.2024.09.006. PMID: 39341442.
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15. Hinrichs-Kinney LA, Gustavson AM, Pontiff M, **Stevens-Lapsley JE**. Is Clinical Research as Helpful to Clinicians as it Could Be? Turolla a, Guccione AA, Tedeschi R, Pillastrini P. *Phys Ther*. 2023;103(8):pzad060. <https://doi.org/10.1093/ptj/pzad060>. *Phys Ther*. 2024 Jul 2; 104(7). PMID: 38590262.
16. Stutzbach JA, Hare KS, Gustavson AM, Derlein DL, Kellogg AL, **Stevens-Lapsley JE**. A Novel Behavioral Intervention to Enhance Physical Activity for Older Veterans in a Skilled Nursing Facility. *J Aging Phys Act*. 2024 Jun 11:1-12. doi: 10.1123/japa.2022-0412. PMID: 38862110.
17. Tran M, Garbin A, Burke RE, Cumbler E, Forster J, **Stevens-Lapsley J**, Mangione K. Impact of Frailty on Gait Speed Improvements in Home Health after Hospital Discharge: Secondary Analysis of Two Randomized Controlled Trials. *J Frailty Aging*. 2024 June. <https://doi.org/10.14283/jfa.2024.52>. PMID: 39082770.
18. Rauzi M, Tran M, Plew J, Christiansen C, Mealer M, Nearing K, **Stevens-Lapsley JE**. Older veteran experiences of using technology during a multicomponent telerehabilitation program: A convergent mixed methods study. *Cogent Gerontology*. 2024 May 22;3(1). doi:10.1080/28324897.2024.2340549. PMID: 39035459.
19. Churchill L, John Bade M, Koonce RC, **Stevens-Lapsley JE**, Bandholm T. The past and future of peri-



operative interventions to reduce arthrogenic quadriceps muscle inhibition after total knee arthroplasty: A narrative review. *Osteoarthritis Cartilage*. 2024 Mar; 6(1):100429. PubMed PMID: 38304413.

20. Judd DL, Cheuy V, Peters A, Graber J, Hinrichs-Kinney L, Forster JE, Christiansen CL, **Stevens-Lapsley JE**. Incorporating Functional Strength Integration Techniques during Total Hip Arthroplasty Rehabilitation: A Randomized Controlled Trial. *Phys Ther*. 2024 Mar 1; 104(3). PMID: 38102757.
21. Swink LA, Mealer ML, Miller MJ, Anderson CB, Cook PF, **Stevens-Lapsley JE**, Christiansen CL. Telehealth Walking Self-Management for Individuals with Amputation: A Qualitative Study of Therapist Perspectives on Adoption. *Phys Ther*. 2024 Feb 1; 104(2). PMID: 37944092.
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23. Rauzi MR\*, Olivos ME\*, Currier DL, Abbate LM, Lum HD, **Stevens-Lapsley JE**. Emergency Management During Telehealth: Planning and Procedures for Patient Safety in the Virtual Landscape. *Top Ger Rehabil* 39(4):p 266-279, October/December 2023. doi: 10.1097/TGR.0000000000000410.
24. **Stevens-Lapsley J**, Hicks GE, Zimney K, Slaven EJ, Manal TJ, Jeffries LM. Research Agenda for Physical Therapy From the American Physical Therapy Association. *Phys Ther*. 2023 Oct 3;103(10):pzad126. doi: 10.1093/ptj/pzad126. PMID: 37712887; PMCID: PMC10549784.
25. Rauzi MR, Abbate LM, Lum HD, Cook PF, **Stevens-Lapsley JE**. Multicomponent telerehabilitation programme for older veterans with multimorbidity: a programme evaluation. *BMJ Mil Health*. 2023 Sep 14:e002535. doi: 10.1136/military-2023-002535. PMID: 37709508.
26. Rauzi MR, Mealer ML, Abbate LM, **Stevens-Lapsley JE**, Nearing KA. Older Veterans' Experiences of a Multicomponent Telehealth Program: Qualitative Program Evaluation Study. *JMIR Form Res*. 2023 Sep 8;7:e46081. doi: 10.2196/46081. PubMed PMID: 37682595.
27. Beisheim-Ryan EH, Butera KA, Hinrichs LA, Derlein DL, Malone DJ, Holtrop JS, Forster JE, Diedrich D, Gustavson AM, **Stevens-Lapsley JE**. Advancing Rehabilitation Paradigms for Older Adults in Skilled Nursing Facilities: An Effectiveness-Implementation Hybrid Type 1 Clinical Trial Protocol. *Phys Ther*. 2023 Sep 1;103(9):pzad053. doi: 10.1093/ptj/pzad053. PMID: 37255325; PMCID: PMC10506848.
28. **Stevens-Lapsley JE**, Derlein D, Churchill L, Falvey JR, Nordon-Craft A, Sullivan WJ, Forster JE, Stutzbach JA, Butera KA, Burke RE, Mangione KK. High-intensity home health physical therapy among older adult Veterans: A randomized controlled trial. *J Am Geriatr Soc*. 2023 Sep;71(9):2855-2864. doi: 10.1111/jgs.18413. PMID: 37224397; PMCID: PMC10684313.
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30. Ha DM, Nunnery MA, Klocko RP, Haverhals LM, Bekelman DB, New ML, Randhawa SK, **Stevens-Lapsley JE**, Studts JL, Prochazka AV, Keith RL. Lung cancer survivors' views on telerehabilitation following curative intent therapy: a formative qualitative study. *BMJ Open*. 2023 Jun 23;13(6):e073251. doi: 10.1136/bmjopen-2023-073251. PMID: 37355268; PMCID: PMC10314696.
31. Maffioletti NA, Dirks ML, **Stevens-Lapsley J**, McNeil CJ. Electrical stimulation for investigating and improving neuromuscular function in vivo: Historical perspective and major advances. *J Biomech*. 2023 May;152:111582. doi: 10.1016/j.jbiomech.2023.111582. PMID: 37088030.
32. Garbin AJ, **Stevens-Lapsley JE**, Gritz RM, Tucker CA, Bade MJ. Long-Term Career Earnings in Academia Might Offset the Opportunity Cost of Full-Time PhD and Postdoctoral Education for Physical Therapists Who Hold a Doctor of Physical Therapy Degree. *Phys Ther*. 2023 Apr 4;103(4):pzad015. doi: 10.1093/ptj/pzad015. PMID: 37128811; PMCID: PMC10152085.

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## NON-PEER REVIEWED PUBLICATIONS

1. Bade MJ, Karla B, **Stevens-Lapsley JE**, Manal TJ. Monograph for the APTA: Joint Replacement: Advances in Surgical Management and Rehabilitation, 2010.
2. **Stevens JE**. Older exercise participants. In: Snyder-Mackler L. and Kolt G, eds. *Physical Therapies in Sport and Exercise*, 2nd Ed. Churchill Livingstone; 2007:484-498.

## MENTORSHIP

### Mentoring

Rehabilitation Science PhD, primary Mentor (UCD)

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Jason Falvey (2014-2018)  
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Lauren Hinrichs (2019-2023)  
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Jeremy Graber (2019-2023)  
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Frannie Westlake (2023-present)

Clinical Science PhD, primary mentor (UCD)

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Nicholas Burrows (2014)	MS	University of South Wales, Sydney Australia
Thomas Linding Jakobsen (2014)	PhD	Copenhagen, Denmark (Advisor: Thomas Bandholm)
Andrew Kittelson (2016)	PhD	Rehabilitation Science Doctoral Program, U. Colorado
Dana Judd (2014)	PhD	Clinical Science, University of Colorado
Michael Bade (2012)	PhD	Clinical Science, University of Colorado
Josh Winters (2012)	PhD	Biomechanics and Movement Science, U. Delaware (Advisor: Katherine Rudolph)
Brach J. Poston (2006)	PhD	Integrative Physiology, UC Boulder (Advisor: Roger Enoka, PhD)
Sharon Criss (2006)	tDPT	Physical Therapy Program, University of N. Carolina at Chapel Hill
Jane Deloach (2006)	tDPT	Physical Therapy Program, University of N. Carolina at Chapel Hill

Co-mentor to Adam Marmon (PhD candidate) on T32 Aging Training Grant with Roger Enoka, PhD

**Research mentor to DPT students in RESTORE team at UCD**

Jessica Heilman (2006-2007)	Alyssa Freitas (2018-2020)
Kristin Carpenter (2006-2008)* ‡	Alexis Wood (2018-2019)
Sheng Wu (2006-2009)*	Johnna Iannitto (2018-2019) ‡
John Kvale (2007-2009)*	Samantha Lewis (2018-2020)
Mahera Jeevanjee (2007-2009)*	Melissa Darnell (2018-2020)
Laurie Kramer (2007-2010)* ‡	Aimee St. Martin (2018-2020)
Tasia Robertson (2008-2011)*	Eli Edwards (2018-2020)
Allison Agee (2008-2011)	Daniel Levy (2018-2020)
Katherine Kulp (2008-2011)	Millie Liniado (2018-2020)
Laura Borgstede (2009-2011)*	Katelynn Downey (2019-2021)
Ashley Whalen (2009-2011)	Haley Tirado (2019-2020)
Emily Hoke (2009-2012)* ‡	Helen Ortiz (2019-2020)
Erin Evers (2010-2012)	Jill Rogers (2019-2020)
Mitchell Luce (2010-2013)*	Joshua Scurles (2019-2021)
Stacey Sellner (2010-2013)	Meghan Lovely (2019-2021)
Emily Roberts (2010-2013)*	Erin Seaton (2019-2020)
Kristin Thomas (2010-2013)	Peter Thomsen (2018-2021)
Erica Hylton (2011-2012)	Karl Wojnar (2018-2020)
Kelsey Miller (2011-2014)*	Michelle Driessnack (2019-2020)
Christy Schlottman (2011-2013)*	Melissa Tran (2020-2023)
Liza Maciorowski (2013-2014)	Christine Samuelsen (2020-2022)
Melissa Nolte (2012-2015)*	Ellie Grupenhoff (2020-2022)
Katie Carbenier (2012-2015)	Emily Groshen (2020-2022)
Kat Rainville (2012-2015)*	Javiar Gonzalez-Plazola (2020-2022)
Stephanie Glick (2012-2015)*	Barbara Goodhart (2020-2022)
Cynthia Huang (2013-2016)* ‡	Jessica Juan (2020-2022)
Rose Brooks (2013-2016)	David Wise (2020-2022)
Deanna Maurer (2014-2017)* ‡	Marissa Holliday (2020-2021)
Walter Hafner (2014-2017)* ‡	Adriana Maldonado (2021-2023)
Johanna Schanbacher (2014-2016)	Sebastian Brothers (2021-2022)
Samantha Stolper (2014-2017)* ‡	Cassandra Constine (2021-2023)
Carol Baym (2015-2017)* ‡	Laura Durkee (2021-2023)
Michael Himawan (2015-2017)* ‡	Dylan, Hudson (2021-2023)
Michelle Pineda (2015-2017)	Christina Kennedy (2021-2023)
Brian Burkhardt (2015-2017)	Ashrita Satchidanand (2021-2023)
Jason Platt (2016-2018)	Arianna Odom (2022-2024)
Stacey Haugen (2016-2018)*	Aaron Gann (2022)
Kourtney Betts (2016-2018)	Hannah Mader (2022-2024)
Alexa Tovsen (2016-2018)*	Cassidy Weeks (2022-present)
Jenna Baker (2017-2019)	Jamie McMullen (2022-2024)
Mikayla Jansen (2017-2019)*	Carmen Houck (2022-2024)
Regan Celik (2017-2019)	Maximilliano Martinez (2023-present)
Thomas Clemens (2017-2019)	Kaitlyn Mauder (2023-present)
Jordan Lenkin (2017-2018)	Jacqueline Mosley (2023-present)

Daniel White (2023-present)  
Makayla Callender (2023-2024)  
Kahle Mercer (2024-present)

Callum Bolger (2024-present)  
Fiona Story (2024-present)

\* *Presented work at national conference*  
¥ *Co-author on manuscript*

**Mentor to CU Denver Internship Students, Masters of Human Anatomy Students, Mentored Scholarship Activity Capstones**

Michelle Vien (Fall 2013 & Spring 2014)  
Min Ma (Spring 2014)  
Anh Nguyen (Spring 2014)  
Willow McEvoy (Fall 2014)  
Nazlee Zardoshtian (Fall 2014)  
Megan Lord (Fall 2014)  
Bethany Hayes (2015-2016)-Best Capstone Poster Presentation 2016  
Lucine Papazian (2012-2017)  
Riley Ruse (Summer 2016-present)  
Johna Iannitto (2016-2017)  
Dan Levy (2017-present)  
Peter Thomsen (2018-present)  
Jill Rogers (2019)  
Meghan Lovely (2019-present)  
Karl Wojnar (2018-2020)  
Erin Seaton (2019-2020)  
Eliza Biondi (2020-2021)  
Ryan Wendall (2021-present)  
Marie-France Izere (2021-present)

Participated in **Engineering Design Project** fall 2012-spring 2013 (ENGR 3313) to build a quadriceps/hamstrings strength testing device with engineering students.