



Physical Therapy Program

SCHOOL OF MEDICINE

UNIVERSITY OF COLORADO
ANSCHUTZ MEDICAL CAMPUS

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

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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

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

Scholarly Agenda: Focused on identifying, integrating, and advancing innovative evidence-based medicine and technology-enabled solutions for older adults through highly effective and efficient research methods and partnerships. Her investigations use a multifaceted approach to evaluate intervention strategies designed to enhance the effectiveness of rehabilitation in older adult patient populations with an emphasis on joint arthroplasty

and medically complex populations.

ADVISORY POSITIONS

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-present	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-present	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

2022	American Physical Therapy Association Jack Walker Award for a clinical research publication in Physical Therapy for: Falvey J, Bade MJ, Forster JE, Stevens-Lapsley JE . 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, Stevens-Lapsley JE . Home-Health-Care Physical Therapy Improves Early Functional Recovery of Medicare Beneficiaries After Total Knee Arthroplasty.
2019	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

- 2006-present Arthritis Foundation
- 2006-present Association of Rheumatology Health Professionals
- 2001-2017 American College of Sports Medicine
- 1997-present American Physical Therapy Association
Section on 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-present

COMMUNITY SERVICE

- Aug 2013-2017 **Volunteer**, Inner City Health Center; served as physical therapist for low-income patients.
- 2003-present **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 14-18th, 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-present	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

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)
2011, 2012	Postdoctoral Research Day Judge

LICENSURE INFORMATION

Colorado Physical Therapist #9104

EDITORIAL BOARDS & GRANT REVIEW PANELS

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

INVITED PRESENTATIONS

Local

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, UCHealth.

- 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 70th 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. 14th Annual Rehabilitation Medicine Forum, University of Colorado Hospital, Aurora, CO.
- Sept 2012 Walking Speed as the 6th 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 Grand Rounds, University of Colorado Denver.
- Aug 2009 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

- October 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.
- Jul 2019 A Focus on Function: The next frontier in reducing avoidable hospital readmissions. VA GRECC CBOC Connection Case Conference.
- Jun 2019 Optimizing Rehabilitation to Maximize Mobility in Older Adults, Radboud University Medical Center, Utrecht, Netherlands.
- Apr 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

- 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; June 5-6, 2023; Aurora, CO.
- 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 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 99th 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.
- 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.
- 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**, Vriezekolk 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, Englebrecht, 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.
- 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 6th 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. ³¹P 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 3-4th, 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

Field-Fote (PI), **Stevens-Lapsley** (Co-I). Training in Grantsmanship for Rehabilitation Research. NIH R25 HD074546; 2/9/2023-2/8/2028 (\$166,781). This year-long 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.

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 6th vital sign at UCH Seniors Clinics to refer patients to appropriate exercise and rehabilitation interventions to prevent adverse events (falls, ER visits, hospitalizations).

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.

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.

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.

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 (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.

Binder E (PI), **Stevens-Lapsley JE** (Co-I). Combining Testosterone and Exercise to Improve Function Post Hip Fracture. NIH R01 AG051647; 10/1/2017-9/30/2023 (\$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 (PI). Movement Pattern Biofeedback Training after Total Knee Arthroplasty. NIH R01 AG056585; 9/15/2017-5/30/2023 (\$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.

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.

Completed Grant & Funded Activity

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). Improving physical rehabilitation for rural Veterans with complex care needs. VA Office of Rural Health, Veterans Rural Health Resource Center; 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.

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.

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.

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.

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). 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). 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.

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.

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.

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 (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). 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.

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.

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.

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.

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 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-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.

Stevens-Lapsley JE (PI), Kohrt (Mentor); Schenkman M (Mentoring Team) Early NMES to improve quadriceps muscle function after total knee arthroplasty. NIH K23-AG029978. Sep 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.

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 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), Vandenborne 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

Title	Agency	Type	Number	Role	Period	Total Costs
Training in Grantsmanship for Rehabilitation Research. This year-long research education program engages early-stage investigators in one-on-one expert mentorship in grantsmanship, grants management, career	NIH	R25	HD074546	Co-I	2023-2028	\$166,781

development, and development of peer-review skills for rehabilitation research.

Gait Speed Screening Initiative: To Identify Older Adults with Lower Functional Status at Risk of Falls.	CEPS	Grant Program		Co-I	2022-2023	\$21,500
Anabolic Versus Catabolic Skeletal Effects of Endurance or Resistance Exercise in Older Veterans.	VA RR&D	CDA2	IK2RX003820	Mentor	2022-2027	\$949,720
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
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			PI	2020-2021	\$168,153
Tele-rehabilitation for Medically Complex Veterans During the COVID-19 Pandemic: Program Evaluation.	VA ORH; OCC			PI	2020-2021	\$157,901
VA Geriatric Scholars Rehabilitation Training Program	VA ORH	Geri Scholars		PI	2020-2021	\$83,517
VA Geriatric Scholars Rehabilitation Training Program.	VA ORH			PI	2020-2021	\$106,924
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-I	2018-2023	\$1,077,824
Novel Strategies for Personalized	AHRQ	R01	R01	PI	2018-2023	\$1,922,505

Clinical Decisions in Knee Arthroplasty.			HS025692			
The Oaks: A Mobile Exercise and Education Program for People with Osteoarthritis of the Knee.	NIH	R44	R44 AG055341	Co-I	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-I	2017-2023	\$4,142,501
Movement Pattern Biofeedback Training after Total Knee Arthroplasty.	NIH	R01	R01 AG056585	PI	2017-2023	\$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	2016-2021	\$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-I	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-I	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	APTA			Co-I	2015-2016	\$15,000

grant.						
Alterations in gene expression following a neuromuscular electrical stimulation intervention post total knee arthroplasty.	NIH	R24	R24HD050846	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-I	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.				Co-I	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-I	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 Foundation			PI	2008-2012	\$100,000
Functional outcomes following minimally invasive total knee arthroplasty.	NIH	R03	R03-AR054538	PI	2008-2012	\$150,000
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	Internal			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 total knee replacement.	CTRC		PI	2006-2007	\$18,000	
Skeletal muscle plasticity after spinal cord injury in human and rodent models.	VA		VA B3461H	PI	2004-2005	\$112,000

Total Award Amounts:

PI	Advisory Bd, Co-I, Mentor, Site PI	TOTAL
\$19,954,507	\$9,256,747	\$29,211,254

Mentored Awards

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.

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. 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.
2. Churchill L, Morrow M, Capin JJ, Jolley SE, Hare K, MaWhinney S, **Stevens-Lapsley JE**, Erlandson KM. Using Wearable Technology to Quantify Physical Activity Recovery: Secondary Report From the AFTER (App-Facilitated Tele-Rehabilitation) Program for COVID-19 Survivors Randomized Study. *JMIR Rehabil Assist Technol.* 2023 Mar 20;10:e43436. doi: 10.2196/43436. PMID: 36939818.
3. Rauzi MR, Ridgeway KJ, Wilson MP, Jolley SE, Nordon-Craft A, **Stevens-Lapsley JE**, et al. Rehabilitation therapy allocation and changes in physical function among patients hospitalized due to COVID-19: A retrospective cohort analysis. *Physical Therapy.* 2023 Mar;103(3). doi: 10.1093/ptj/pzad007. PMID: 37172130; PMCID: PMC10071586.
4. Capin JJ, Minick K, **Stevens-Lapsley JE**, Snow G, Woodfield D, Dibblee P, Brennan G, Hunter SJ. Variation in outcomes and number of visits following care guideline implementation: Part 2 of an Analysis of 12,355 patients after total knee arthroplasty. *J Orthop Sports Phys Ther.* 2022 Dec 12:1-26. doi: 10.2519/jospt.2022.11370. Epub ahead of print. PMID: 36503269.
5. Graber J, Kittelson A, Juarez-Colunga E, Jin X, Bade M, **Stevens-Lapsley J**. Comparing "people-like-me" and linear mixed model predictions of functional recovery following knee arthroplasty. *J Am Med Inform Assoc.* 2022 Oct 7. doi: 10.1093/jamia/ocac123. PMID: 35903035.
6. Toth MJ, Savage PD, Voigt TB, Anair BM, Bunn JY, Smith IB, Tourville TW, Blankstein M, **Stevens-Lapsley JE**, Nelms NJ. Effects of total knee arthroplasty on skeletal muscle structure and function at the cellular, organellar and molecular levels. *J Appl Physiol (1985).* 2022 Sep 1. doi: 10.1152/jappphysiol.00323.2022. PMID: 35900327.
7. Gustavson AM, Falvey JR, LeDoux CV, **Stevens-Lapsley JE**. Stakeholder and Data-Driven Fall Screen in a Program of All-Inclusive Care for the Elderly: Quality Improvement Initiative. *J Geriatr Phys Ther.* 2022 Jul-Sep. doi: 10.1519/JPT.0000000000000307. PMID: 33782362.
8. Stutzbach JA, Gustavson AM, Derlein DL, Forster JE, Boxer RS, **Stevens-Lapsley JE**. Older adults in skilled nursing facilities demonstrate low physical activity during and after discharge. *Disabil Rehabil.* 2022 Jul:1-6. doi: 10.1080/09638288.2021.1892838. PMID: 33836134.

9. Swink LA, Mealer ML, Miller MJ, Anderson CB, Cook PF, **Stevens-Lapsley JE**, et al. Therapist perspectives on adoption of a telehealth self-management walking program for individuals with lower limb amputation. *The American Journal of Occupational Therapy*. 2022 Jul;76(Supplement_1). doi:10.5014/ajot.2022.76S1-PO201.
10. Capin JJ, Jolley SE, Morrow M, Connors M, Hare K, MaWhinney S, Nordon-Craft A, Rauzi M, Flynn S, **Stevens-Lapsley JE**, Erlandson KM. Safety, feasibility and initial efficacy of an app-facilitated telerehabilitation (AFTER) programme for COVID-19 survivors: a pilot randomised study. *BMJ Open*. 2022 Jul 26;12(7):e061285. doi: 10.1136/bmjopen-2022-061285. PMID: 35882451; PMCID: PMC9329728.
11. Cheuy VA, Dayton MR, Hogan CA, Graber J, Anair BM, Voigt TB, Nelms NJ, **Stevens-Lapsley JE**, Toth MJ. Neuromuscular Electrical Stimulation Preserves Muscle Strength Early after Total Knee Arthroplasty: Effects on Muscle Fiber Size. *J Orthop Res*. 2022 Jul 20. doi: 10.1002/jor.25418. PMID: 35856287.
12. Carmichael J, Flynn S, Struessel T, Bini S, Bade M, **Stevens-Lapsley J**. Assessment of a downloadable application with Avatar guidance for pt-prescribed home exercise after total Knee Arthroplasty: A 30-day usability and feasibility study. *Advances in Aging Research*. 2022 Jul 14;11(04):98–115. doi: 10.4236/aar.2022.114008.
13. Kittelson A, Carmichael J, **Stevens-Lapsley JE**, Bade M. Psychometric properties of the 4-meter walk test after total knee arthroplasty. *Disabil Rehabil*. 2022 Jun:1-7. doi: 10.1080/09638288.2020.1852446. PMID: 33280460.
14. Capin JJ, Bade MJ, Jennings JM, Snyder-Mackler L, **Stevens-Lapsley JE**. Total Knee Arthroplasty Assessments Should Include Strength and Performance-Based Functional Tests to Complement Range-of-Motion and Patient-Reported Outcome Measures, *Physical Therapy*, Volume 102, Issue 6, 2022 Jun; doi.org/10.1093/ptj/pzac033.
15. Huebschmann AG, Glasgow RE, Leavitt IM, Chapman K, Rice JD, Lockhart S, **Stevens-Lapsley JE**, Reusch JEB, Dunn AL, Regensteiner JG. Integrating a physical activity coaching intervention into diabetes care: a mixed-methods evaluation of a pilot pragmatic trial. *Transl Behav Med*. 2022 May 25;ibac014. doi: 10.1093/tbm/ibac014. PMID: 35312788.
16. Carmichael J, Dennis D, Jennings J, **Stevens-Lapsley J**, Bade M. Feasibility and initial efficacy of a multimodal swelling intervention after total knee arthroplasty: A prospective pilot study with historical controls. *Knee*. 2022 Mar;35:25-33. doi: 10.1016/j.knee.2022.01.008. Epub 2022 Feb 17. PMID: 35183923.
17. Gustavson AM, LeDoux CV, Himawan M, **Stevens-Lapsley JE**, Nearing KA. Implementation of a rehabilitation model in a Program of All-Inclusive Care for the Elderly (PACE): Preliminary data. *J Am Geriatr Soc*. 2022 Mar;70(3):880-890. doi: 10.1111/jgs.17674. Epub 2022 Feb 4. PMID: 35119693.
18. Capin JJ, Wilson MP, Hare K, Vempati S, Little CE, McGregor D, Castillo-Mancilla J, **Stevens-Lapsley JE**, Jolley SE, Erlandson KM. Prospective telehealth analysis of functional performance, frailty, quality of life, and mental health after COVID-19 hospitalization. *BMC Geriatr*. 2022 Mar 26;22(1):251. doi: 10.1186/s12877-022-02854-6. PMID: 35337276; PMCID: PMC8956362.
19. Graber J, Lockhart S, Matlock DD, **Stevens-Lapsley J**, Kittelson AJ. "This is not negotiable. You need to do this...": A directed content analysis of decision making in rehabilitation after knee arthroplasty. *J Eval Clin Pract*. 2022 Feb. doi: 10.1111/jep.13591. PMID: 34121294.
20. Jolley S, Nordon-Craft A, Wilson MP, Ridgeway K, Rauzi MR, Capin J, Heery LM, **Stevens-Lapsley J**, Erlandson KM. Disparities in the allocation of inpatient physical and occupational therapy services for patients with COVID-19. *J Hosp Med*. 2022 Feb;17(2):88-95. doi: 10.1002/jhm.12785. Epub 2022 Feb 11. PMID: 35446466; PMCID: PMC9088325.
21. Gustavson AM and LeDoux CV,* Himawan M, **Stevens-Lapsley JE**, Nearing KA. Implementation of a Rehabilitation Model in a Program of All-Inclusive Care for the Elderly (PACE): Preliminary Data. Accepted for publication. 2022 Jan; *Journal of American Geriatrics Society*. *Contributed equally as co-first authors

22. Ha DM, Prochazka AV, Bekelman DB, **Stevens-Lapsley JE**, Studts JL, Keith RL. Modifiable factors associated with health-related quality of life among lung cancer survivors following curative intent therapy. *Lung Cancer*. 2022 Jan;163:42-50. doi: 10.1016/j.lungcan.2021.11.012. PMID: 34896804.
23. Smith AC, O'Dell DR, Albin SR, Berliner JC, Dungan D, Robinson E, Elliott JM, Carballido-Gamio J, **Stevens-Lapsley J**, Weber KA 2nd. Lateral corticospinal tract and dorsal column damage: predictive relationships with motor and sensory scores at discharge from acute rehabilitation after spinal cord injury. *Arch Phys Med Rehabil*. 2022 Jan:S0003-9993(21)01345-9. doi: 10.1016/j.apmr.2021.07.792. PMID: 34371017.
24. LeDoux CV, Lindrooth RC, **Stevens-Lapsley JE**. The Impact of Total Joint Arthroplasty on Long-Term Physical Activity: A Secondary Analysis of the Health and Retirement Study. *Phys Ther*. 2022 Jan 1:pzab231. doi: 10.1093/ptj/pzab231. PMID: 34636910.
25. Kittelson AJ, Loyd BJ, Graber J, Himawan MA, Waugh D, Davenport J, Hoogeboom TJ, **Stevens-Lapsley J**. Examination of exclusion criteria in total knee arthroplasty rehabilitation trials: influence on the application of evidence in day-to-day practice. *J Eval Clin Pract*. 2021 Dec;27(6):1335-1342. doi: 10.1111/jep.13564. PMID: 33763961; PMCID: PMC8627122.
26. Graber J, Juarez-Colunga E, Thigpen C, Waugh D, Bade M, **Stevens-Lapsley J**, Kittelson A. Development of reference charts for monitoring quadriceps strength with handheld dynamometry after total knee arthroplasty. *Disabil Rehabil*. 2021 Nov 9:1-8. doi: 10.1080/09638288.2021.1995054. PMID: 34751608; PMCID: PMC9306324.
27. Falvey J, Bade MJ, Forster JE, **Stevens-Lapsley JE**. Poor Recovery of Activities-of-Daily-Living Function Is Associated with Higher Rates of Postsurgical Hospitalization after Total Joint Arthroplasty. *Phys Ther*. 2021 Nov 1:pzab189. doi: 10.1093/ptj/pzab189. PMID: 34339513.
28. Hoogeboom TJ, Kousemaker MC, van Meeteren NL, Howe T, Bo K, Tugwell P, Ferreira M, de Bie RA, van den Ende CH, **Stevens-Lapsley JE**. i-CONTENT tool for assessing therapeutic quality of exercise programs employed in randomised clinical trials. *Br J Sports Med*. 2021 Oct:bjsports-2019-101630. doi: 10.1136/bjsports-2019-101630. PMID: 33144350.
29. Kittelson AJ, Christensen JC, Loyd BJ, Burrows KL, Iannitto J, **Stevens-Lapsley JE**. Reliability, responsiveness, and validity of handheld dynamometry for assessing quadriceps strength in total knee arthroplasty. *Disabil Rehabil*. 2021 Oct;1-8. doi: 10.1080/09638288.2020.1730454. PubMed PMID: 32142620; PubMed Central PMCID: PMC7483560.
30. Kim C, Colborn KL, van Buuren S, Loar T, **Stevens-Lapsley JE**, Kittelson AJ. Neighbors-based prediction of physical function after total knee arthroplasty. *Sci Rep*. 2021 Aug 18;11(1):16719. doi: 10.1038/s41598-021-94838-6. PMID: 34408167; PMCID: PMC8373960.
31. Christensen JC, Quammen DL, Rigby JH, Christiansen CL, **Stevens-Lapsley JE**. Trunk movement compensation identified by inertial measurement units is associated with deficits in physical performance, muscle strength and functional capacity in people with hip osteoarthritis. *Clin Biomech (Bristol, Avon)*. 2021 Aug;88:105436. doi: 10.1016/j.clinbiomech.2021.105436. PMID: 34364100.
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NON-PEER REVIEWED PUBLICATIONS

1. Rauzi MR, Mealer ML, Nearing KA, Magnan EK, Abbate LM, **Stevens-Lapsley JE**. Experiences of older veterans who participated in a multicomponent telehealth program: Qualitative Program Evaluation. *I*proceedings. 2022 Jul6;8(1).
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3. **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.

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Jason Platt (2016-2018)
Stacey Haugen (2016-2018)*
Kourtney Betts (2016-2018)
Alexa Tovsen (2016-2018)*
Jenna Baker (2017-2019)
Mikayla Jansen (2017-2019)*
Regan Celik (2017-2019)
Thomas Clemens (2017-2019)
Jordan Lenkin (2017-2018)
Alyssa Freitas (2018-2020)
Alexis Wood (2018-2019)
Johnna Iannitto (2018-2019) ‡
Samantha Lewis (2018-2020)
Melissa Darnell (2018-2020)
Aimee St. Martin (2018-2020)
Eli Edwards (2018-2020)
Daniel Levy (2018-2020)
Millie Liniado (2018-2020)
Katelynn Downey (2019-2021)
Haley Tirado (2019-2020)
Helen Ortiz (2019-2020)
Jill Rogers (2019-2020)
Joshua Scurles (2019-2021)
Meghan Lovely (2019-2021)

Erin Seaton (2019-2020)
Peter Thomsen (2018-2021)
Karl Wojnar (2018-2020)
Michelle Driessnack (2019-2020)
Melissa Tran (2020-present)
Christine Samuelsen (2020-present)
Ellie Grupenhoff (2020-present)
Emily Groshen (2020-present)
Javiar Gonzalez-Plazola (2020-present)
Barbara Goodhart (2020-present)
Jessica Juan (2020-present)
David Wise (2020-present)
Marissa Holliday (2020-2021)
Adriana Maldonado (2021-present)
Sebastian Brothers (2021-present)
Cassandra Constine (2021-present)
Laura Durkee (2021-present)
Dylan, Hudson (2021-present)
Christina Kennedy (2021-present)
Ashrita Satchidanand (2021-present)
Arianna Odom (2022-present)
Aaron Gann (2022)
Hannah Mader (2022-present)
Cassidy Weeks (2022-present)
Jamie McMullen (2022-present)

* Presented work at national conference

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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.