

CURRICULUM VITAE

Name: Dorian K. Rose

Address: Department of Physical Therapy
College of Public Health and Health Professions
University of Florida
P.O. Box 100154
Gainesville, FL 32610-0154

North Florida/South Georgia VHS
Brain Rehabilitation and Research Center, 151A
1601 S.W. Archer Road
Gainesville, FL 32608

Email: dkrose@php.ufl.edu; Dorian.Rose@va.gov;

Phone: 352-273-8307; 352-376-1611, Ext. 105238

Education

2004 University of Southern California
Los Angeles, California
Ph.D., Biokinesiology

1993 University of North Carolina at Chapel Hill
Chapel Hill, North Carolina
M.S., Human Movement Science

1987-90 University of Pittsburgh
Pittsburgh, Pennsylvania
(Graduate Coursework)

1985 Daemen College
Buffalo, New York
B.S., Physical Therapy

Licensure: Physical Therapist; State of Florida

Certifications: Neurodevelopmental Treatment Association

Employment and Positions Held

2007- Research Associate Professor
Department of Physical Therapy
College of Public Health and Health Professions
Clinical Rehabilitation Scientist, Brooks-UF/PHP Collaboration
University of Florida
Gainesville, Florida

- 2010- Research Health Scientist
Brain Rehabilitation and Research Center
North Florida/South Georgia Veterans Health System
Gainesville, Florida
- 2005-2007 Research Assistant Professor
Department of Aging and Geriatric Research
College of Medicine
University of Florida
Gainesville, Florida
- 2005 Research Health Scientist
Rehabilitation Outcomes Research Center
North Florida/South Georgia Veterans Health System
Gainesville, Florida
- 2000-2004 Graduate Research Assistant, NIH-NICHD Grant, "Extremity Constraint
Induced Therapy Evaluation"
University of Southern California
Los Angeles, California
- 1999- 2000 Graduate Research Assistant, NIH-NICHD Grant, "Recovery and
Rehabilitation of Arm Use After Stroke,"
University of Southern California
Los Angeles, California
- 1997-98 Graduate Research Assistant, Motor Control Development Laboratory,
University of Southern California
Los Angeles, California
- 1994 -97 Operations Manager
Functional Assessment Laboratory
UCLA Medical Center
Los Angeles, California
- 1992-94 Senior Research Physical Therapist, "Do Changes in Strength Improve
Balance and Function in Elderly Women and Men?"
VA Rehab R&D Grant, E661-RA
Veteran's Administration Medical Center
Durham, North Carolina
- 1990-92 Graduate Research Assistant, "The Effects of Isokinetic Exercise on
Motor Control in Spastic Hemiplegia"
Foundation for Physical Therapy Grant
University of North Carolina-Chapel Hill
Chapel Hill, North Carolina
- 1991-92 Research Physical Therapist, "Dizziness in a Rural Primary Care
Population,"
National Institute on Aging Grant

University of North Carolina-Chapel Hill
Chapel Hill, North Carolina

Additional Teaching Positions

- 2017 Medbridge (Instructor)
Predicting Recovery and Setting Appropriate Upper Extremity Goals Post-Stroke
Upper Extremity Intervention Strategies Along the Post-Stroke Continuum
Therapeutic Exercise Post-Stroke: Guided by Principles of Neuroplasticity
- 2016 Allied Health Media (Instructor)
Update on the Upper Extremity: Beyond Constraint Induced Therapy
Stroke Webinar Series
- 2012 Universidad Nacional Autonoma Nicaragua
Using Objective Measurement to Improve Outcomes in Stroke Rehabilitation
Managua, Nicaragua
- 2012 Utica College
Post-Professional DPT Program
Update in Neurological Physical Therapy
Sarasota, FL
- 2011 University of Florida/Shands Rehabilitation Neurologic Residency
Stroke Assessment Toolbox
Locomotor Experience Applied Post-Stroke (LEAPS): What Does the Outcome of the LEAPS RCT Mean to the Physical Therapist?
Gainesville, FL
- 2009 HealthCare Professions Seminars (Instructor)
Moving Stroke Rehabilitation Forward – Bringing Advances in Neuroscience into Clinical Practice
Tampa, FL
- 2008 - 2011 University of North Florida (Guest Lecturer)
Department of Athletic Training and Physical Therapy
Management of the Hemiplegic Upper Extremity Post-Stroke
- 2006 - University Florida (Research Assistant Professor)
College of Public Health and Health Professions
Department of Physical Therapy
PHT 6716 Neurological Rehabilitation
- 2005 University Florida (Courtesy Clinical Lecturer)
College of Public Health and Health Professions
Department of Physical Therapy
PHT 6319C Neurological Rehabilitation; Stroke Unit
- 2005 University of Florida (Lecturer)

School of Medicine
 Department of Neurology
 Resident Lecture Series
Upper Extremity Rehabilitation Post-Stroke

- 2003-2005 Dogwood Institute (Instructor)
Motor Learning and the Neurologic Patient
 St. Louis, MO; Columbus, OH; Macon, GA, Fresno, CA
- 1997-2003 University of Southern California (Teaching Assistant)
 Department of Biokinesiology and Physical Therapy
 PT 618L Seminar in Advanced Neurologic Rehabilitation
 PT 627 Management of the Pediatric Patient
 PT 581 Clinical Management of the Neurologically Involved Patient
 PT 514L Human Gross Anatomy
 PT 646L Observational Gait Analysis
- 1995-2003 Mt. St. Mary's College (Instructor)
 Program in Physical Therapy
 PT 223 Management of the Neurological Patient
 PT 240B Advanced Patient Management: Neurologic
- 1995-96 Loma Linda University (Lab Assistant)
 Department of Physical Therapy
 PNF Approach to Therapeutic Exercise
- 1995-97 Chapman University (Guest Lecturer)
 Division of Physical Therapy
 Treadmill Training with Body Weight Support: Potential for Intervention in the Neurologic Population
- 1993-94 Duke University (Assistant Instructor)
 Program in Physical Therapy
 PT 320 Evaluation and Therapeutic Procedures I
 PT 322 Evaluation and Therapeutic Procedures III

University of Florida Graduate Committee Activities

<u>Student</u>	<u>Role</u>	<u>Major</u>	<u>Complete Date</u>
Kanika Bansal	Committee Chair	Rehab Science	Dec. 2021 (expected)
Kelly Hawkins	Committee Member	Rehab Science	May 2021 (expected)
S. Chatterjee	Committee Member	Rehab Science	August 2017
Julie Watson	Committee Member	Public Health	December 2015

Clinical

- 2017- Faculty Supervisor
 University of Florida Equal Access Clinic
- 2014 Consultant
 Lakeland Regional Health

Lakeland, Florida

- 2009 Consultant to the Brooks Stroke Wellness Program
Brooks Rehabilitation Center
Jacksonville, Florida
- 1994 -2004 Physical Therapist
Neurological Rehabilitation and Research Unit
UCLA Medical Center
Los Angeles, California
- 1991-92 Physical Therapist
University of North Carolina Faculty Practice
University of North Carolina Hospital
Chapel Hill, North Carolina
- 1991-92 Physical Therapist (prn)
North Carolina Memorial Hospital
Chapel Hill, North Carolina
- 1991 Physical Therapist
Balance/Dizziness Clinic for Older Adults
University of North Carolina-Chapel Hill
Chapel Hill, North Carolina
- 1985-90 Physical Therapist
Harmarville Rehabilitation Center
Pittsburgh, Pennsylvania

Peer Reviewed Publications

Manuscripts

Clark DJ, Skinner JW, Lysne PE, Sumonthee C, Wu SS, **Rose DK**, Cohen RA, Woods AJ. Combining frontal tDCS with walking rehabilitation to enhance mobility and cognition: a pilot clinical trial. Neuromodulation: Technology at the Neural Interface. Submitted; in review.

Wen PS, Mackey J, **Rose DK**, Waid-Ebbs J. Mobile Application for measuring Community Participation in Veterans with Blast-Related Mild Traumatic Brain Injury . Edorium Journal of Disability and Rehabilitation. Submitted; in review.

Bansal K, Clark DJ, Fox EJ, **Rose DK**. Does falls-efficacy influence the relationship between forward and backward walking speed post-stroke? Physical Therapy. Submitted; in review.

Chatterjee SA, Seidler RD, Skinner JW, Lysne PE, Sumonthee C, Wu SS, , Cohen RA, **Rose DK** Woods AJ. Clark DJ. Obstacle negotiation in older adults: prefrontal activation interpreted through conceptual models of brain aging. Journal of Gerontology: Medical Sciences. Submitted; in review.

Howland DR, Trimble SA, Fox EJ, Tester NJ, Spiess MR, Senesac CR, Kleim JA , Spierre LZ, **Rose DK**, Johns JS , Ugiliweneza B, Reier PJ, Behrman AL. Unexpected Walking Recovery in Children with Chronic Spinal Cord Injury during Activity-Based Locomotor Training. Frontiers in Pediatrics. Submitted; in review.

DeMark L, Spigel P, Osborne J, Fox EJ, **Rose DK**. Clinical Application of Backward Walking Training to Improve Balance and Walking Function in Acute Stroke: A Case Series. Topics in Stroke Rehabilitation. 2019. 26(7): 497-502.
<https://doi.org/10.1080/10749357.2019.1641011>

Chatterjee SA, Fox EJ, Daly JJ, **Rose DK**, Wu S, Christou, EA, Hawkins KA, Otzel D, Butera K, Skinner J, Clark DJ. Interpreting prefrontal recruitment during walking after stroke: influence of individual differences in mobility and cognitive function. Frontiers in Human Neuroscience. 2019. June 18; 13:194. <https://doi.org/10.3389/fnhum.2019.00194>

Chatterjee SA, **Rose DK**, Porges EC, Otzel DM, and Clark DJ. A perspective on objective measurement of the perceived challenge of walking. Frontiers in Human Neuroscience. 2019. May 14; 13:161. <https://doi.org/10.3389/fnhum.2019.00161>.

Hawkins KA, Balasubramanian CK, Vistamehr A, Conroy C, **Rose DK**, Clark DJ, Fox EJ. Assessment of backward walking unmasks mobility impairments in post-stroke community ambulators. Topics in Stroke Rehabilitation. 2019. 26(5): 382-388.
<https://doi.org/10.1080/10749357.2019.1609182>

Chatterjee SA, Daly JJ, Porges EC, Fox EJ, **Rose DK**, McGuirk TE, Otzel DM, Butera KA, and Clark DJ. Mobility function and recovery after stroke: preliminary insights from sympathetic nervous system activity. Journal of Neurologic Physical Therapy, 2018. 42(4):224-232.

Hawkins KA, Fox EJ, Daly JJ, **Rose DK**, Christou EA, McGuirk TE, Otzel DM, Butera KA, Chatterjee SA, Clark DJ. Prefrontal Over-activation during Walking in People with Mobility Deficits: Interpretation and Functional Implications. 2018. Human Movement Science. 59:46-55.

Rose DK, DeMark L, Fox EJ, Clark DJ, Wludyka, P. A Backward Walking Training Program to Improve Balance and Mobility in Acute Stroke: A Pilot Randomized Controlled Trial. Journal of Neurologic Physical Therapy. 2018. 42(1):12-21.

Rose DK, Nadeau S, Wu SS, Tilson JK, Dobkin BH, Pei, Q, Duncan PW. Locomotor Training and Strength and Balance Exercises for Walking Recovery Post-Stroke: Response to Number of Training Sessions. Physical Therapy. 2017. 97(11):1066-1074.

Hershberg JA, **Rose DK**, Tilson JK, Brusch BM, Correa AC, Gallichio J, McLeod MA, Moore CA, Wu SS, Duncan PW, Behrman AL for the LEAPS Investigative Team. Interface of clinical decision-making with study protocols for knowledge translation of a walking recovery trial. Journal of Neurologic Physical Therapy. 2017. 41(1):59-67.

Fox EJ, Foster HE, DeMark L, Spigel PM, **Rose DK**. The effects of backward walking training on balance and mobility in a person with chronic incomplete spinal cord injury: A case report. Physiotherapy Theory and Practice. 2016.Oct;32(7):536-45.

Chumbler NR, Li X, Quigley P, Morey MC, **Rose DK**, Griffiths P, Sanford J, Hoenig H. A randomized controlled trial on Stroke telerehabilitation: The effects on falls self-efficacy and satisfaction with care. Journal of Telemedicine and Telecare. 2015. 21(3): 139-143.

Nadeau S, **Rose DK**, Dobkin BH, Wu SS, Schofield R, Dai Y, Duncan PW. Likelihood of Myocardial Infarction during Stroke Rehabilitation Preceded by Cardiovascular Screening and an Exercise Tolerance Test: The LEAPS Experience. International Journal of Stroke. 2014. 9(8):1097-1104.

Clark DJ, **Rose DK**, Ring SA, Porges EC. Utilization of central nervous system resources for preparation and performance of complex walking tasks in older adults. Front. Aging Neurosci. 2014. 6:217.

Rose DK, Patten C, McGuirk T, Lu X, Triggs WJ. Does Inhibitory Repetitive Transcranial Magnetic Stimulation Augment Functional Task Practice to Improve Arm Recovery in Chronic Stroke? Stroke Treatment and Research. 2014;2014:305236.

Rose DK. Being Deliberate in Post-Acute Stroke: Strategies to Redeem the Time. Topics in Stroke Rehabilitation. 2014.21(4):281-289.

Dobkin BH, Nadeau S, Wu SS, **Rose DK**, Bowden MA, Studenski S, Lu X, Duncan PW. Prediction of responders to the interventions of the Locomotor Experience Applied Post-Stroke Clinical Trial. Journal of Rehabilitation and Development. 2014. 51(1):39-50.

Rose DK, Winstein CJ. Temporal Assimilation is More Robust than Spatial Assimilation: An Investigation of Interlimb Coordination after Stroke. Journal of Motor Behavior 2013; 45(4):313-324.

Rose DK, Schafer J, Conroy C. Extending the Continuum of Care Post-Stroke: Creating a Partnership to Provide a Community-Based Wellness Program. Journal of Neurologic Physical Therapy. 2013.37(2):78-84.

Sullivan J, Pinto-Zipp G, Crowner B, Kluding P, Nichols D, **Rose DK**, Yoshida R. Outcome Measures for Individuals with Stroke: Recommendations from the Neurology Section Task Force. Physical Therapy. 2013 Oct;93(10):1383-96.

Rose DK, Behrman AL, Nadeau S, Martin AD, Schofield R, Tilson JK, Wu SS, Cen S, Lu X, Azen S, Duncan PW. Does Exercise Tolerance Testing at 60 days Post-Stroke Predict Rehabilitation Performance? Arch Phys Med Rehabil. 2013 Jul;94(7):1223-9.

Nadeau S, Wu SS, Dobkin BA, **Rose DK**, Tilson JK, Azen S, Duncan PW. Effects of task-specific and impairment-based training compared to usual care on functional walking ability after inpatient stroke rehabilitation: LEAPS trial. Neurorehabilitation Neural Repair. 2013 May;27(4):370-80.

Rose DK. Invited Discussant for podcast on: Nijland RH, van Wegen EE, Harmerling-van der Wel BC, Kwakkel G. Accuracy of Physical Therapists' Early Predictions Upper-Limb Function in Hospital Stroke Units: the EPOS Study. Physical Therapy. 2013. 93:460-469.

Behrman AL, Bowden MG, **Rose DK**. Clinical trials in neurorehabilitation. In Goode D and Barnes M eds. Handbook of Clinical Neurology, Vol. 110: 61-66. Elsevier; 2013.

Chumbler NR, Quigley P, Li X, Morey MC, **Rose DK**, Sanford J, Griffiths P, Hoenig H. Effects of Telerehabilitation of Physical Function and Disability for Stroke Patients: A Randomized, Controlled Trial. Stroke. 2012 Aug;43(8):2168-74.

Tilson JK, Wu SS, Cen SY, Feng Q, **Rose DK**, Behrman AL, Azen S, Duncan PW, for the LEAPS Investigative Team. Characterizing and Identifying Risk for Falls in the LEAPS Study: A Randomized Clinical Trial of Interventions to Improve Walking Post-Stroke. Stroke, 43:446-52, 2012.

Duncan PW, Sullivan KJ, Behrman AL, Azen SP, Wu SS, Nadeau SE, Dobkin BH, **Rose DK**, Tilson JK, Cen SY, and Hayden SK, for the LEAPS Investigative Team. Body-Weight-Supported Treadmill Rehabilitation after Stroke. New England Journal of Medicine, 364(21):2026-2036, 2011.

Sullivan KJ, Tilson JK, Cen SY, **Rose DK**, Hershberg J, Correa A, Gallichio J, McLeod M, Moore C, Wu SS, Duncan PW. Fugl-Meyer Assessment of Post-Stroke Sensorimotor Function: Standardized Training Procedure for Clinical Practice and Clinical Trials. Stroke. 42: 427-32, 2011.

Rose DK, Paris T, Crews E, Wu S, Aqui S, Behrman AL, Duncan PW. Feasibility and Effectiveness of Circuit Training in Acute Stroke Rehabilitation. Neurorehabilitation and Neural Repair 25: 140-148, 2011.

Chumbler NR, **Rose DK**, Griffiths P, Quigley P, McGee-Hernandez N, Carlson, KA, Vandenberg P, Morey MC, Sanford, J, Hoenig H. Study protocol: home-based telehealth stroke care: a randomized trial for veteran. Trials, 11:74, 2010.

Chumbler NR, Quigley P, Sanford J, Griffiths P, **Rose DK**, Morey MC, Ely EW, Hoenig H. "Implementing tele-rehabilitation for Stroke rehabilitation with community dwelling veterans: Lessons Learned." International Journal of Telerehabilitation 2(1): 15-22, 2010.

Tilson JK, Sullivan KJ, Cen SY, **Rose DK**, Koradia C, Azen SP, Duncan PW. Meaningful gait speed improvement during the first 60 days post-stroke: minimal clinically important difference. Physical Therapy 90(2):196-208, 2010.

Duncan PW, Sullivan KJ, Behrman AL, Azen SP, Wu SS, Nadeau SE, Dobkin BH, **Rose DK**, Tilson JK. Protocol for the Locomotor Experience Applied Post-stroke (LEAPS) trial: a randomized controlled trial. BMC Neurology, Nov 8; 7:39, 2007.

Wolf SL, Thompson PA, Morris DM, **Rose DK**, Winstein CJ, Taub E, Giuliani C. The EXCITE Trial: Attributes of the Wolf Motor Function Test in Patients with Sub-acute Stroke. Neurorehabilitation and Neural Repair 19: 194-205, 2005.

Rose DK, Winstein CJ. The coordination of bimanual symmetrical rapid aiming movements following stroke. Clinical Rehabilitation 19 (4): 452-462, 2005.

Rose DK, Winstein CJ. Bimanual training after Stroke: Are Two Hands better than One? Topics in Stroke Rehabilitation 11(4): 20-30, 2004.

Winstein CJ, **Rose DK**, Tan SM, Lewthwaite R, Chui HC, Azen SP. A Randomized Controlled Comparison of Upper Extremity Rehabilitation Strategies In Acute Stroke: Immediate And Longer-Term Outcomes. Archives of Physical Medicine and Rehabilitation, 85: 620-8, 2004.

Hassid E, **Rose DK**, Commisarow J, Guttry M, Dobkin BH. Improved Gait Symmetry in Hemiparetic Stroke Patients Induced During Body Weight-Supported Treadmill Stepping. Journal of Neurologic Rehabilitation, 11: 21-6, 1997.

Hughes MA, Duncan PW, **Rose DK**, Chandler JM, Studenski SA. The Relationship of Postural Sway to Sensorimotor Function, Functional Performance, and Disability in the Elderly. Archives of Physical Medicine and Rehabilitation, 77: 567-572, 1996.

Light KE, **Rose DK**, Purser JL. The Functional Reach Test for Balance: Strategies of Elderly Subjects With and Without Disequilibrium. Physical and Occupational Therapy in Geriatrics, 14: 39-52, 1996.

Light KE, Purser JL, **Rose DK**. The Functional Reach Test for Balance: Criterion-Related Validity of Clinical Observations. Issues on Aging, 28 (2): 5-9, 1995.

Behrman AL, Bowden MG, **Rose DK**. Clinical trials in neurorehabilitation. In Goode D and Barnes M eds. Handbook of Clinical Neurology, Vol. 110: 61-66. Elsevier; 2013.

Proceedings

Chumbler NR, Li X, Quigley P, Morey MC, **Rose DK**, Griffiths P, Sanford J, Hoenig H. 2014. A home-based telerehabilitation randomized trial for stroke care: Effects on falls self-efficacy and satisfaction with care. Proceedings of the IEEE Int Conf Collaboration Technology & Systems; 436-440. [978-1-4799-5158-1].

Rose DK, Harkema SH, Dobkin BA. A Comparison of Body Weight Supported Treadmill Walking and Over ground Walking in Patients After Stroke. Neurology Report, 20 (2), p. 56-60, 1996.

Rose DK, Harkema SH, Hurley S, Yap, R Dobkin BA Electromyographic Responses to Loading of the Lower Limbs in Patients with Stroke. Neurology Report, 20 (2), p. 66-70, 1996.

Rose DK, Giuliani CA, Light KE. The Immediate Effects of Isokinetic Exercise on Selected Temporal Distance Characteristics of Self-Selected and Fast Hemiplegic Gait. Proceedings of the Neurology Section Forum on Physical Therapy Issues Related to CVA, p. 37-44, 1992.

Giuliani CA, **Rose DK**, Light KE. The Effects of an Isokinetic Exercise Program on the Performance of Sit-to-Stand in Patients with Hemiparesis. Proceedings of the Neurology Section Forum on Physical Therapy Issues Related to CVA, p. 49-56, 1992.

Peer Reviewed Scientific and Invited Presentations

Rose DK. Backward Walking Training to Improve Gait Speed and Balance Confidence Following Stroke. Exercise and Rehabilitation Sciences Seminar Series. Marquette

University, Milwaukee, WI. November 14, 2019.

Rose DK, Winstein CJ, Byl N, Fisher BE, Hershberg JH, Sanchez N, Tilson J, McKenzie A. Cutting Edge Evidence: Everything a Practicing Clinician Needs to Know to Improve Outcomes after Stroke. CPTA and PT Fund Research Symposium, Long Beach, CA. April 27-28, 2019.

Rose DK, Bowden M, Phadke C, Balasubramanian C. From System Impairments to Participation Barriers: Gait Rehabilitation across the Spectrum. 95th Annual American Congress of Rehabilitation Medicine Annual Conference, Dallas, TX, September 30, 2018.

Rose DK, Horak F, Gordon J. 2018 Eugene Michels Forum. Current Wave of Technology: Should we Ride it or Should We Start Paddling? Combined Sections Meeting, APTA, February 24, 2018, New Orleans, LA.

Bland MD, **Rose DK**, Zipp G, Byl N, Capo-Lugo C, Anderson H, Sulwer M, Yoshida R. EDGE-ucation 2.0: Moving Forward the Value of Physical Therapy. 2017 Education Leadership Conference, Columbus, OH, October 15, 2017

Demark L, **Rose DK**. A Novel Strategy to Improve Gait and Increase Fall-Related Efficacy Post-Stroke. 2016 Brooks Annual Research Day, November 3, 2016, Jacksonville, FL.

Howarth J, Bauer A, Carey-Love S, Lenzo M, Taylor, A, Trang B, Fox E, Vistamehr A, Conroy C, **Rose DK**. Improved motor recovery, gait speed, and gait parameters following backwards walking training in an individual post-stroke. 2016 Brooks Annual Research Day, November 3, 2016, Jacksonville, FL.

Clark DJ, Fox EJ, **Rose DK**, Christou EA, Nadeau SE, Ring SA and Daly JJ. fNIRS neuroimaging during walking reveals high demand for executive locomotor control after stroke. Veterans Affairs Research Day, Gainesville Florida, May 15, 2015.

Ring SA, Fox EJ, **Rose DK**, Christou EA, Nadeau SE, Daly JJ and Clark DJ. fNIRS neuroimaging during walking reveals high demand for executive locomotor control after stroke. Society for Neuroscience, North Central Florida Chapter Conference, Gainesville Florida, March 20, 2015.

Rose DK, McGuire K, Patten C, Triggs WT. Non-Invasive Brain Stimulation to Enhance Arm Recovery Post-Stroke. 2014 Brooks Annual Research Day, October 22, 2014, Jacksonville, FL.

Rose DK, Rajaravivarma R, Rawlings S, Clark D. Developing the use of skin conductance as an objective physiological indicator of locomotor recovery after stroke. 2014 Brooks Annual Research Day, October 22, 2014, Jacksonville, FL.

Rose DK, DeMark L. Conducting Acute Rehabilitation Research: Feasibility of a Backward Walking Intervention Trial Post Stroke. 2013 Brooks Annual Research Day, October 23, 2013, Jacksonville, FL.

Rose DK, Patten C, Bergschneider F. Use of Ipsilesional Excitatory rTMS and

Functional Task Practice to Enhance Arm Recovery Post-Stroke: Preliminary Results. 2013 Brooks Annual Research Day, October 23, 2013, Jacksonville, FL.

Rose DK, DeMark L. A Backward Walking Training Program to Improve Balance and Reduce Falls in Acute Stroke: A Feasibility Study. 2013 Brooks Annual Research Day, October 23, 2013, Jacksonville, FL.

Rose DK. Being Deliberate in Post-Acute Stroke: The Importance of Repetition, Intensity and Progression for Functional Improvement. Instruction in Techniques to Rehabilitate, Evaluate, and Assess in Stroke, American Society of Neurorehabilitation. The Ohio State University Wexner Medical Center, June 22, 2013, Columbus, OH.

Rose DK, Patten C. Inhibitory rTMS: Can it Augment Functional Task Practice to Improve Arm Recovery Post-Stroke? 2012 Brooks Annual Research Day, October 24, 2012, Jacksonville, FL.

Rose DK. Exploring Adjuvant Therapies to Enhance Arm Recovery Post-Stroke. K12 Rehabilitation Research Career Development Program Annual Meeting. Galveston, TX, August 14, 2012.

Rose DK, Duncan PW, Behrman AL, Tilson JK, Hershberg J, Moore C, Richards CL, Shumway-Cook A, Hornby TG, Field-Fote E, Janis, S. The LEAPS Trial revisited: A Forum to discuss the design and results in the context of today's Research, Current Evidence and Clinical Practice in Post-Stroke Rehabilitation. Combined Sections Meeting of the American Physical Therapy Association, Chicago, IL, Feb. 11, 2012.

Rose DK. The Impact of Cardiopulmonary Status on Mobilization in Stroke Rehabilitation. Stroke Rehabilitation: Clinical Trials and Research Update. New York-Presbyterian Hospital/Weill Cornell Medical College, Nov. 4, 2011, New York, NY.

Rose DK. Brain Calisthenics - Creating an Environment for Change. Stroke Care Across the Continuum 2011 for American Heart Association and West Coast Acute Stroke Council. St. Petersburg College, Oct. 28, 2011, St. Petersburg, FL.

Rose DK, Patten C. Exploring Adjuvant Therapies to Enhance Arm Recovery Post-Stroke. 2011 Brooks Annual Research Day, October 19, 2011, Jacksonville, FL.

Shafer J, **Rose DK, Paris T.** Expansion of the Brooks Stroke Wellness Program: Collaborating to Return Area Stroke Survivors to Health. 2011 Brooks Annual Research Day, October 19, 2011, Jacksonville, FL.

Rose DK. Exercise Tolerance Test Performance in Subacute Stroke across Severity Levels. Canadian Stroke Congress, Ottawa, Ontario. Oct. 4, 2011.

Rose DK. Combining Neural and Behavioral Therapies to Advance Stroke Recovery. K12 Rehabilitation Research Career Development Program Annual Meeting. Gainesville, FL, May 18, 2011.

Rose DK, Duncan PW, Behrman AL, Sullivan KJ, Tilson JK. Locomotor Experience Applied Post-Stroke (LEAPS): What Does the Outcome of the LEAPS RCT Mean to the Physical Therapist? Combined Sections Meeting of the American Physical Therapy

Association, New Orleans, LA, Feb. 12, 2011.

Rose DK, Sullivan JE, Pinto-Zipp G, Nichols D, Crouner B, Kluding P, Yoshida R. StrokEDGE: Report and Recommendations from the Neurology Section Task Force on Outcome Measurement for Individuals with Stroke. Combined Sections Meeting of the American Physical Therapy Association, New Orleans, LA, Feb. 10, 2011.

Mueller M, Vandenborne, K. Funded Research and Early Career Development Opportunities (K12) for Faculty Members. Poster Presentation: **Rose DK**, Patten C. Combining Neural and Behavioral Therapies to Advance Stroke Recovery. Combined Sections Meeting of the American Physical Therapy Association, New Orleans, LA, Feb. 10, 2011.

Rose DK, Patten CA, Naik S. Transcranial Magnetic Stimulation: A Window into the Post-Stroke Brain. 2010 Brooks Annual Research Day, October 20, 2010.

Schafer J, **Rose DK**, Paris T. Returning to Health Post-Stroke: Opportunities at the Brooks Stroke Wellness Program. 2010 Brooks Annual Research Day, October 20, 2010.

Rose DK. Combining Neural and Behavioral Therapies to Advance Stroke Recovery. K12 Rehabilitation Research Career Development Program Annual Meeting. Galveston, TX, May 17, 2010.

Rose DK. Training the Brain: Moving Stroke Rehabilitation Forward. Florida State Association of Rehabilitation Nurses, Orlando, FL, May 8, 2009.

Rose DK. Effective Stroke Rehabilitation: Are we being the Coaches our Patients Need? Florida Physical Therapy Association Spring Conference, Orlando, FL, March 21, 2009.

Rose DK. New Approaches to Rehabilitation. Stroke Belt Consortium, American Heart Association, Orlando, FL, December 16, 2008.

Rose DK. Update in Stroke Rehabilitation – Promoting an Environment for our Patients to Learn. Neural Perspectives '08: Changing the Face of Stroke, Oklahoma City, OK, September 19, 2008.

Rose DK, Sullivan KA. Stroke Concentrated Education Series. Task-Specific Strategies for Upper Limb and Walking Recovery. American Physical Therapy Association Annual Meeting, San Antonio, TX June 14, 2008.

Rose DK. Moving Stroke Rehabilitation Forward – Creating an Environment for our Patients to Learn. Pennsylvania Association of Rehabilitation Facilities, Harrisburg, PA, May 21, 2008.

Rose DK. Stroke Rehabilitation – Moving Forward with Advances in Clinical Neuroscience Physical Therapy Association of Washington Spring Conference, Seattle, WA, April 26, 2008.

Rose DK, Tilson JK, Gallichio J, Moore CA, Correa A, Hershberg J, McLeod M. Utilization of Standardized Outcome Measures Post-Stroke: Lessons learned from the

LEAPS Clinical Trial. Combined Sections Meeting of the American Physical Therapy Association, Nashville, TN, Feb. 8, 2008.

Rose DK. Interventions and Strategies to Promote Neuroplasticity in Individuals with Neurologic Disorders. Utah Chapter APTA Annual Conference, Park City, UT, November 9-10, 2007.

Rose DK. Clinical Approach to Enhance Neural Recovery. Utah Stroke Symposium, Salt Lake City, UT, March 24, 2006.

Rose DK. One Hand or Two? :Designing Interventions for Successful Outcomes Post-Stroke. Combined Sections Meeting, American Physical Therapy Association, San Diego, CA, Feb. 3, 2006

Rose DK. Stroke Rehabilitation - Practice and Progress: Not Standing Still. Arizona Physical Therapy Association Neuro Update, Phoenix, AZ, January 28, 2006.

Whitall J, Winstein CJ, **Rose DK**, McCombe-Waller S, Harris-Love M. Does Focused Bilateral Arm Training Enhance Recovery Of Upper Limb Hemiparesis? Theory And Evidence. American Physical Therapy Association Annual Meeting, Chicago, IL, June 30, 2004.

Rose DK. Advances in Neurologic Therapy (What we know; Where we are going). Center for Sports Medicine and Rehabilitation, Northfield Hospital, Northfield, MN, Oct. 24-25, 2003.

Winstein CJ, Richards C, **Rose DK**, Barreca S, Saladin L. Translating Research into Clinical Practice for Patients Post-Stroke: Where are We? Combined Sections Meeting of the American Physical Therapy Association. Tampa, FL, Feb. 11-12, 2003.

Rose DK. Upper Extremity Functional Rehabilitation Following Stroke. Rehabilitation Nursing Potpourri XII: Clinical Update on Stroke, Los Angeles/Orange County Chapter of the Association of Rehabilitation Nurses. Los Angeles, CA, Feb. 8, 2003.

Rose DK. Strategies to Improve Upper Extremity Function Following Stroke. Twenty-third Annual Neurorehabilitation Conference on Traumatic Brain Injury and Stroke. Healthsouth Braintree Rehabilitation Hospital. Cambridge, MA, Nov. 17, 2002.

Rose DK. Exercise Guidelines following Stroke. California Association of Physical Educators in Disability Annual Meeting, San Diego, CA, October 16, 2001.

Abstracts presented at Professional Meetings

Rose DK, DeMark L, Conroy C, Fox EJ, Clark DJ. A New Rehabilitation Strategy to Improve Gait Speed and Balance Self-Efficacy Following Stroke. International Stroke Conference, Los Angeles, CA, February 19, 2020.

Bansal K, Patel J, Vistamehr A, Conroy C, Fox EJ, Clark DJ, **Rose DK**. The Effect of Forward Versus Backward Locomotor Training on Forward Propulsion during Forward Walking Post-Stroke. Combined Sections Meeting, APTA. Denver, CO, February 13, 2020.

DeMark L, Bayliss J, Conroy C, Freeborn P, Fox EJ, **Rose DK**. Measuring Backward Walking Speed: Reliability and Validity of the 3-Meter Backward Walk Test Post-Stroke. Combined Sections Meeting, APTA. Denver, CO, February 14, 2020.

Chatterjee S, Skinner J, Lysne P, Sumonthee C, Wu S, Cohen R, **Rose DK**, Woods A, and Clark D. Prefrontal Recruitment during Obstacle Walking Is Predicted By Older Age and Executive Function. Combined Sections Meeting of the American Physical Therapy Association. Denver CO, February 13, 2020.

Sood P, Chatterjee S, Skinner J, Lysne P, Sumonthee C, Wu S, Cohen R, **Rose DK**, Woods A, and Clark D. Prefrontal over-Recruitment during Walking Is Associated with Impaired Tactile Somatosensation in Older Adults. Combined Sections Meeting of the American Physical Therapy Association. Denver CO, February 15, 2020.

Clark D, Seidler R, Woods A, **Rose DK**, and Fox E. Precision Rehabilitation to Enhance Neural Control of Complex Walking. Combined Sections Meeting of the American Physical Therapy Association. Denver CO, February 15, 2020.

Bansal K, Monaldi M, Colon S, **Rose DK**. The Importance of Location: An Improved Description of Post-Stroke Community Ambulation. Canadian Stroke Congress, Ottawa, ON, October 3, 2019.

Musalo MM, Kraus AR, Olasoji EB, **Rose DK**, Youn TS, Nagaraja, N. The Concept of Interdisciplinary Stroke Clinic with Physical Therapy: A Single Institution Experience. International Stroke Conference/American Heart Association, Honolulu, HI, February 7, 2019.

Bansal K, Freeborn P, DeMark L, Conroy C, Fox EJ, Clark DJ, **Rose DK**. Is Faster Really Better? Implications of Fastest Comfortable Speed on Gait Asymmetry Post-Stroke. Combined Sections Meeting, APTA. Washington D.C., January 23, 2019.

Brunetti G, DeMark L, Bayliss J, Blunt K, Fulcher, C, Fox EJ, Clark DJ, **Rose DK**. Backward Walking Training for Individuals with Chronic Stroke, Combined Sections Meeting, APTA. Washington D.C., January 23, 2019.

Rose DK, DeMark L, Vistamehr A, Conroy C, Freeborn P, Fox EJ, Clark DJ. Backward Walking Training Improves Forward Gait Speed and Balance Confidence Post-Stroke. Combined Sections Meeting, APTA. Washington D.C., January 24, 2019.

Rose DK, Vistamehr A, Conroy C, Fox EJ, DeMark L, Clark DJ. Gains in Falls Self-Efficacy and Gait Speed Post-Stroke: Benefits of a Backward Walking Training Program. 95th Annual American Congress for Rehabilitation Medicine Conference, Dallas, TX, October 1, 2018.

Rose DK, DeMark L, Patten C, Vistamehr A, Fox EJ Conroy C, Howarth J, Clark DJ. Backward Walking Training to Improve, Dynamic Balance Confidence and Forward Walking Speed Post-Stroke: A Case Series Report. UF Health Shands Hospital 4th Annual Stroke Conference, April 4, 2018, Gainesville, FL.

Rose DK, DeMark L, Patten C, Vistamehr A, Fox EJ Conroy C, Howarth J, Clark DJ.

Backward Walking Training to Target Forward Walking Speed, Dynamic Balance Confidence Post-Stroke: A Case Series Report. Combined Sections Meeting, APTA. New Orleans, LA, February 24, 2018.

Conroy C, Vistamehr A, DeMark L, **Rose DK**, Fox EJ. Lower limb kinematics following gait rehabilitation: knee hyperextension associated with gains in hip extension in adults post-stroke. Combined Sections Meeting, APTA, New Orleans, LA. February 24, 2018.

Chatterjee SA, Albert C, Fox EJ, Daly J, **Rose DK**, Christou E, Hawkins KA, Otzel DM, Butera KA, Clark DJ. Increased prefrontal cortical activity during typical walking is associated with greater dual-task costs after stroke. Combined Sections Meeting, APTA, New Orleans, LA. February 24, 2018.

DeMark L, Conroy C, Vistamehr A, Fox EJ, **Rose DK**. Initial Construct Validity of the 3-Meter Backward Walk Test in Individuals with Chronic Stroke. Combined Sections Meeting, APTA, New Orleans, LA. February 24, 2018.

Hawkins KA, Vistamehr A, Balasubramanian CK, Conroy C, **Rose DK**, Clark DJ, Fox EJ. Post-stroke community ambulators demonstrate deficits in backward walking. Combined Sections Meeting, APTA, New Orleans, LA. February 24, 2018.

Rose DK, Vistamehr A, Conroy C, Howarth J, Fox EJ, DeMark L, Clark DJ. Backward Walking Training to Improve Balance Confidence and Forward Gait Speed Post-Stroke: Case Series. 94th Annual American Congress for Rehabilitation Medicine Conference, Atlanta, GA, October 26, 2017.

Hawkins KA, Fox EJ, Daly JJ, **Rose DK**, Christou EA, Nadeau SE, Otzel DM, Butera KA, Chatterjee SA, Rajaravivarma R, Ring SA, Emery H, Clark DJ. Quantifying the executive demand of walking with fNIRS neuroimaging. World Congress, International Society of Posture and Gait Research. Ft. Lauderdale, FL. June 2017.

Rose DK, Patten C, Triggs WJ. Can Excitatory rTMS Augment Task Practice to Improve Arm Movement Following Stroke? Veterans Affairs Research Day, Gainesville Florida, May 19, 2017.

Smith K, Hawkins K, **Rose DK**, Clark DJ and Fox E. Two Gait Interventions Improve Post-Stroke Walking Impairments. University of Florida, College of Public Health and Health Professions Research Day, April 12, 2017, Gainesville, FL.

Rose DK, Howarth JL, Patten C, George SZ. Backward Walking Training to Improve Walking Speed and Balance Confidence in an Individual with Chronic Stroke: A Case Report. UF Health Shands Hospital 4th Annual Stroke Conference, March 25, 2017, Gainesville, FL.

Albert C, Fox EJ, Daly JJ, **Rose DK**, Christou E, Hawkins KA, Otzel D, Butera K, Chatterjee, Clark DJ. Prefrontal Cortical Activation During Walking Predicts Dual-Task Costs. Presented at Celebration of Research, University of Florida College of Medicine, February 28, 2017, Gainesville, FL.

Rose DK, Howarth JL, Patten C, George SZ. Backward Walking Training to Improve Walking Speed and Balance Confidence in an Individual with Chronic Stroke: A Case

Report. APTA Combined Sections Meeting, February 17, 2017, San Antonio, TX.

Chatterjee S, **Rose DK**, Porges E, Fox EF, Daly JJ, Christou E, Otzel D, Butera K, Clark DJ. Quantifying the perceived challenge of walking after stroke by measuring sympathetic activation: a pilot study. APTA Combined Sections Meeting, February 17, 2017, San Antonio, TX.

Hawkins K, Fox E, Daly J, **Rose DK**, Christou E, Otzel D, Butera K, Chatterjee S, and Clark DJ. Thinking about walking: functional neuroimaging demonstrates increased demand for executive control of walking in adults with mobility deficits. APTA Combined Sections Meeting, February 17, 2017, San Antonio, TX.

Hawkins KA, Fox EJ, Daly JJ, **Rose DK**, Christou EA, Otzel DM, Butera KA, Chatterjee SA, and Clark DJ. Executive control of walking in adults with mobility deficits quantified by fNIRS neuroimaging. Society for Neuroscience, November 16, 2016, San Diego, CA.

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Howarth J, Bauer A, Carey-Love S, Lenzo M, Taylor, A, Trang B, Fox E, Vistamehr A, Conroy C, **Rose DK**. Improved motor recovery, gait speed, and gait parameters following backwards walking training in an individual post chronic stroke. 93rd Annual American Congress of Rehabilitation Medicine, November 3, 2016, Chicago, IL.

Chatterjee SA, Daly JJ, **Rose DK**, Porges EC, Fox EJ, Christou EA, Otzel DM, Butera KA and Clark DJ. Sympathetic nervous system activity as a physiological assessment of the perceived challenge of walking after stroke. 7th Annual Spotlight on Aging Research, University of Florida, Gainesville FL, September 20 2016.

Hawkins K, Fox EJ, Daly JJ, **Rose DK**, Christou EA, Nadeau S, Otzel D, Butera K, Chatterjee S, and Clark DJ. Functional neuroimaging during walking quantifies demand for executive locomotor control. 7th Annual Spotlight on Aging Research, University of Florida, Gainesville FL, September 20 2016.

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Rose DK, Patten C, Triggs WJ. Does Excitatory rTMS Augment Functional Task Practice to Improve Arm Recovery Post-Stroke?. Presented at IV STEP Conference of the American Physical Therapy Association. July 17, 2016, Columbus, OH.

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Rose DK, Patten C. How Well Does Inhibitory rTMS Augment Functional Task Practice to Improve Arm Recovery Post-Stroke? Published online at:
http://journals.lww.com/jnpt/Documents/NeurologyPlatformAbstracts_CSM_2013.pdf.
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Rose DK, Behrman AL, Lu X, Sullivan KJ, Tilson JK, Martin AD, Schofield RS, Wu S, Duncan PW. Informing Locomotor Training Prescription Post-Stroke. Published online at:
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Combined Sections Meeting of the American Physical Therapy Association, Chicago, IL, Feb. 11, 2012.

Rose DK, Behrman AL, Cen Y, Sullivan KJ, Tilson JK Martin AD, Schofield RS, Wu S, Duncan PW. Exercise Tolerance Test Performance in Subacute Stroke across Severity Levels. Canadian Stroke Congress, Ottawa, Ontario. Oct. 4, 2011.

Behrman AL Sullivan KJ Wu S Nadeau S, Dobkin B, Azen SP, **Rose DK**, Tilson JK Cen Y, Duncan PW. Functional Walking Ability 2 to 6 months after Stroke: Effects of Task-Specific and Impairment-Based Rehabilitation Programs Compared to Usual Care. Canadian Stroke Congress, Ottawa, Ontario. Oct. 4, 2011.

Rose DK, Paris, T, Duncan PW, Wu SS, Behrman AL, Crews E. Functional Improvement in Post-Acute Stroke: The Importance of Task-Specific Repetition and Progression. Published online at:
<http://journals.lww.com/jnpt/Documents/Neuro%20Platforms%20CSM%202010.pdf>.
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Rose DK, Paris, T, Duncan PW, Wu SS, Behrman AL, Crews E. Functional Improvement in Post-Acute Stroke: The Importance of Repetition and Progression American Congress of Rehabilitation Medicine/American Society of Neurorehabilitation, Oct. 9, 2009 Denver, CO.

Rose DK, Paris, T, Duncan PW, Wu SS, Behrman AL, Crews E. Promoting Functional Improvement in Post-Acute Stroke: The Importance of Repetition and Progression Stroke. 40 (4). p. 148, 2009.

Rose DK, Behrman AL, Cen Y, Sullivan KJ, Tilson JK Martin AD, Schofield RS, Wu S, Nadeau S, Dobkin B, Duncan PW. Response to Exercise Tolerance Testing in Subacute Stroke across Severity Levels. Journal of Neurologic Physical Therapy. 32 (4). p. 211, 2008. Presented at CSM 2009, February 7, 2009, Las Vegas, NV.

Tilson JK, Sullivan KJ, Cen Y, **Rose DK**, Behrman AB, Wu SS, Azen SA. Determination of the Minimal Clinically Important Difference in the Lower Extremity Fugl-Meyer Motor Score in the First 60 Days Post-Stroke. Journal of Neurologic Physical Therapy. 32 (4). p. 210, 2008.

Rose DK, Duncan PW Cen Y Behrman AL, Sullivan KJ, Tilson JK, Wu S. Contributors to Self-Assessment of Quality of Life Post-Stroke. American Congress of Rehabilitation Medicine/American Society of Neurorehabilitation, Oct. 16, 2008 Toronto, Ontario.

Rose DK, Behrman AL, Cen Y, Sullivan KJ, Tilson JK Martin AD, Schofield RS, Wu S, Nadeau S, Dobkin D, Duncan PW. Response to Exercise Tolerance Testing in Subacute Stroke across Severity Levels. 6th World Stroke Congress. September. 25, 2008 Vienna, Austria.

Rose DK, Behrman AL, Cen Y, Sullivan KJ, Tilson JK Martin AD, Schofield RS, Wu S, Nadeau S, Dobkin D, Duncan PW. Response to Exercise Tolerance Testing in Subacute Stroke across Severity Levels. Stroke. 39 (2). p. 92, 2008.

Tilson JK, Sullivan KJ, Cen Y, **Rose DK**, Behrman AB, Wu SS, Azen SA. Determination of the Minimal Clinically Important Difference in the Lower Extremity Fugl-Meyer Motor Score in the First 60 Days Post-Stroke. Stroke. 39 (2), 2008.

Tilson J, **Rose DK**, Xu L, Sullivan KJ. Inter-rater reliability of the Fugl-Meyer Assessment Tool in a Phase III, Multisite, Randomized Clinical Trial, World Confederation of Physical Therapy, June 2007, Vancouver, BC.

Rose DK, Winstein CJ. Bimanual Aiming Facilitates Paretic Limb Behavior Following Stroke. Journal of Neurological Physical Therapy, 28 (4), p.171, 2004.

Winstein CJ, Mathews SA, Dong Y, Fisher BE, **Rose DK**. The Prognostic Value of Lesion Characteristics for Post-Stroke Upper Extremity Rehabilitation in the Acute Setting: a post-hoc analysis. Journal of Neurological Physical Therapy, 28 (4), p.175, 2004.

Rose DK, Winstein CJ. Bimanual Coordination of an Asymmetric Aiming Task in Humans with Stroke Related Brain Damage. Journal of Sport and Exercise Psychology, 26, p.S158, 2004.

Rose DK, Winstein CJ. The Nature of Bimanual Spatial Coupling Following Stroke. Journal of Sport and Exercise Psychology, 25, p.S112, 2003.

Rose DK, Winstein CJ. Bimanual Temporal and Spatial Coupling Following Stroke. www.jnpt.org, APTA Neurology Section Abstracts, 27 (4) 2003.

Rose DK, Winstein CJ. Interlimb Temporal Synchrony Following Stroke. Neurology Report, 26 (4), p.187, 2002.

Rose DK, Winstein CJ. Temporal Control of Bimanual Reaching Following Unilateral Brain Damage. Society for Neuroscience Abstracts, Vol. 28, Program No.666.3, 2002.

Rose DK, Winstein CJ. Are Two Limbs Better than One? Control of Bimanual Movement Following Stroke. Journal of Sport and Exercise Psychology, 24, p. S106, 2002.

Rose DK, Winstein CJ. A Randomized Comparison of Upper Extremity Intervention Strategies: Results at Six and Nine Months Post-Stroke. Proceedings of the International Stroke Symposium, April, 2002.

Rose DK, Winstein CJ, Gordon J. Bimanual Temporal Control Following Unilateral Brain Damage. Society for Neuroscience Abstracts, Vol. 27, Program No. 832.13, 2001.

Rose DK, Winstein CJ, Tan SM, Azen SP, Chui HC. Comparison of Upper Extremity Intervention Strategies at Six and Nine Months Post-Stroke. Neurology Report, 25 (4), p. 130, 2001.

Rose DK, Winstein CJ, Gordon J. Bimanual Motor Control Following Stroke. Neurology Report, 25(4), p. S231, 2001.

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Rose DK, Ganley KG, Bradley NS. Transformations in Embryonic Motility in Chick: E9 to E15. Program Abstracts, 24 (1) Society for Neuroscience 28th Annual Meeting. p. 1153, 1998.

Rose DK, Dobkin BH, Harkema SJ, Edgerton VE. Lumbosacral Motorpool Output of the Human Spinal Cord in Patients with Spinal Cord Injury, Cerebral Vascular Accident and Non-Injury. Program Abstracts American Academy of Neurology Annual Scientific Meeting, 1995.

Rose DK, Harkema SJ, Dobkin BA. A Comparison of Body Weight Supported Treadmill Walking and Over ground Walking in Patients After Stroke. Neurology Report, 19 (4), p. 12, 1995.

Rose DK, Harkema SJ, Hurley S, Yap, R Dobkin BA Electromyographic Responses to Loading of the Lower Limbs in Patients with Stroke. Program Abstracts, 21 (1) Society for Neuroscience 25th Annual Meeting, p. 416, 1995 and Neurology Report, 19 (4), p. 24, 1995.

Rose DK, Duncan PW, Hughes MA, Chandler JM, Samsa G, Studenski SA. Postural Sway and its Relationship to Physical Impairment and Function. The Gerontologist. 33, 1993.

Rose DK, Giuliani CG. A Comparison of Overground Walking and Treadmill Walking in Patients with Cerebral Vascular Lesion. Neurology Report, 17(4), p. 23, 1993.

Giuliani CG, Light KE, **Rose DK**. The Effect of an Isokinetic Exercise Program on Gait Patterns in Patients with Hemiparesis. Neurology Report, 17(4), p. 23, 1993.

Rose DK, Giuliani CA. Immediate Effects of Treadmill Exercise in Patients with Traumatic Brain Injury. Neurology Report, 16(4), p. 22, 1992.

Light KE, **Rose DK**, Cedar J. Use of the Functional Reach Test in a Balance and Dizziness Clinic for Older Adults. Neurology Report, 16(4), p.26, 1992.

Rose DK, Giuliani CA, Light KE. The Immediate Effects of Isokinetic Exercise on Selected Temporal Distance Characteristics of Self-Selected and Fast Hemiplegic Gait. Neurology Report, 15(4), p.18, 1991.

Light KE, **Rose DK**. Pursuit Rotor Tracking in Patients with Disequilibrium. Neurology Report, 15, p.10, 1991.

Rose DK, Norton BJ, Sahrman SA. Erector Spinae Participation during Shoulder Flexion in Three Positions. Physical Therapy, 66(5), p. 760, 1986.

Rose DK, Norton BJ, Sahrman SA. Patterns of Stabilization in Erector Spinae Muscles

During Shoulder Flexion. Physical Therapy, 66(5), p. 760, 1986.

Non-Peer Reviewed Publications

Getting Active – Staying Active. Stroke Connection. Published by the American Heart Association/American Stroke Association. September-October 2008. Pgs. 14-18.

Calm Before the Storm? Today in PT. Published on line February 15, 2010.
<http://news.todayinot.com/article/20100215/TODAYINPT0103/100212012&SearchID=73471375250787>

Non-Peer Reviewed Presentations

Rose DK, Patten C, George SZ. *Backwards Walking Training to Improve Gait and Increase Fall-Related Efficacy Post-Stroke*. American Heart Association First Coast Associates Meeting, July 27, 2015, Jacksonville, FL.

Rose DK, DeMark L. *A Novel Strategy to Improve Gait and Increase Fall-Related Efficacy Post-Stroke*. American Heart Association North Central Florida Board of Directors Meeting, September 3, 2015, Jacksonville, FL.

Making Strides toward Recovery of Walking after Stroke. Malcom Randall VA BRRC SyNaPse Meeting. March 13, 2013. Gainesville, FL.

Functional Improvement in Post-Acute Stroke: The Importance of Task-Specific Practice, Repetition and Progression. Shands Rehabilitation Hospital, August 22, 2012. Gainesville, FL.

New Avenues in Assessing and Treating the Brain following Stroke: Investigations with Transcranial Magnetic Stimulation. Oak Hammock at The University of Florida. May 18, 2012. Gainesville, FL.

The LEAPS Trial Revisited: A Closer Look at the Interventions. Shands Rehabilitation Hospital, November 16, 2011. Gainesville, FL.

Funded/Current Grant Activity

<u>Agency</u>	<u>Grant #</u>	<u>PI</u>	<u>Dates</u>
FL DOH	20K08	Rose	5/1/20-4/30/25

Augmenting a Post-Stroke Wellness Program with Respiratory Muscle Training: A Randomized Controlled Trial.

The primary aim of this proposal is to exam the effect of respiratory muscle training in conjunction with a stroke wellness program in restoring both physical and respiratory function in individuals with chronic stroke.

Role: Principal Investigator

VA BRRC	0220BRRC-05	Rose	2/18/20-9/30/20
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Backward Walking Training Post-Stroke: How Much and for Whom – A Pilot Feasibility Study

The primary aim of this proposal is to examine dosage effects of BWTraining for maximizing gains in forward walking speed, backward walking speed, and dynamic balance.

Role: Principal Investigator

VA BRRC 0419BRRC-04 Rose 4/01/19-3/31/20
Accurate Quantification of Real-World Post-Stroke Ambulation: Validation and Feasibility
The purpose of this study is to validate an activity monitor and GPS package in the differentiation of indoor versus outdoor steps in patients post-stroke and to test the feasibility of community use.
Role: Principal Investigator

VA RR&D B3336-P Rose 11/01/19-10/31/21
Quantifying Post-Stroke Community Participation: Filling the Gap between Ability and Reality
The purpose of this study is to test the validity and feasibility of a Activity Monitor/GPS package to track the amount and location of community walking in individuals post-stroke

VA RR&D E3115R Clark 5/01/2019 - 4/30/2023
Cerebral networks of locomotor learning and retention in older adults
The purpose of this study is to use non-invasive brain stimulation to augment locomotor learning and to investigate brain networks that are responsible for locomotor learning in mobility-compromised older adult Veterans.
Role: Co-Investigator

VA RR&D N2004-R Rose 7/01/2016 - 6/30/2020
A Novel Strategy to Decrease Fall Incidence Post-Stroke
The purpose of this study is to test a novel gait training strategy, backward walking, to improve gait speed, improve balance and decrease fall incidence post-stroke.

VA RR&D B9252-C Bauer 7/2019 – 6/2024
Brain Rehabilitation Research Center of Excellence
This “center of excellence” grant funds the research and administrative infrastructure of the Brain Rehabilitation Research Center.
Role: Co-Investigator and Locomotor Initiative Co-Leader

Funded/Completed Grant Activity

<u>Agency</u>	<u>Grant #</u>	<u>PI</u>	<u>Dates</u>
NIH	R21AG053736	Clark	6/01/2017 - 3/31/2020

Combining tDCS and neurorehabilitation to treat age-related deficits of mobility and cognition
The purpose of this study is to demonstrate preliminary efficacy and feasibility of a novel therapeutic intervention that is designed to enhance mobility and cognition via neuroplasticity of prefrontal cerebral circuits in older adults with mobility deficits and cognitive/executive dysfunction.
Role: Co-Investigator

VA RR&D N2051-P Rose 4/01/2016 - 1/31/2019
Biofeedback to Increase Propulsion during Walking after Stroke

The purpose of this study is to test the hypothesis that biofeedback as an adjuvant to therapists' verbal feedback will improve propulsion and enhance walking function post-stroke.

VA RR&D B1149R Clark 6/01/2014-9/30/2019
Rehabilitation of Corticospinal Control of Walking after Stroke: The ABCs of Walking
Role: Co-Investigator

AHA 15MCPRP25670037 Rose 7/01/2015 - 6/30/2018
A Novel Strategy to Improve Gait and Falls Self-Efficacy Post-Stroke
The purpose of this study is to compare the efficacy of two rehabilitation approaches on gait speed: a novel, experimental intervention that uses backward walking as the primary training modality and a standard of care comparison intervention of forward walking.

Honda Corp. Keglemeyer 8/12/17-1/31/18
National Descriptive Study of the Home Health Physical Therapy Environment
Role: Site Investigator

VA RR&D B6862W Rose 2/1/10-9/30/15
Combining Neural and Behavioral Therapies to Enhance Stroke Recovery
Role: Principal Investigator

VA BRRC 0214BRRC-13 Rose 3/1/14-9/30/15
Developing the use of skin conductance as an objective physiological indicator of locomotor recovery after stroke
Role: Co-Principal Investigator

Brooks Rehabilitation Rose 12/1/12-2/28/14
A Backward Walking Training Program to Improve Balance and Reduce Falls in Acute Stroke: A Feasibility Study

JEK FL Biomed Rsrch Prgm 09KN-13 Rose 9/16/09-12/31/12
Use of Repetitive Transcranial Magnetic Stimulation as an Adjuvant to Enhance Post-Stroke Recovery
Role: Principal Investigator

NIH/NCMRR K12-HD055929 Ottenbacher 6/1/09 –12/31/12
Rehabilitation Research Career Development Program
Role: Scholar

NIH R21 AG031974 Mannini 9/15/09-8/31/11
Task Specific Exercise for the Clinically Disabled
Role: Consultant

NIH/NINDS 1 R01 NS050505-01 Duncan 9/25/05-6/30/11
Locomotor Experience Applied Post-Stroke
Role: Clinical Research Coordinator

VA RR&D B4492R Chumbler 1/1/07-10/30/10
Home-Based Tele-Health Stroke Care: A Randomized Trial for Veterans
Role: Co-Investigator

Research

2010-2011	APTA Neurology Section Stroke Outcomes Task Force
2009-2010	APTA's Hooked on Evidence, Stroke Scenario Panel
2009-2011	American Heart Association/International Stroke Conference Abstract Reviewer
2009	Moderator for e-posters: Basic and Translational Neuroscience of Stroke Recovery and Multidisciplinary Clinical Rehabilitation, AHA
2009	Moderator for oral abstracts: Multidisciplinary Clinical Rehabilitation, American Heart Association
2007	Poster Tour Guide, American Physical Therapy Association Annual Meeting
2005-2009	Program Committee Chair, Neurology Section, APTA
2005-2009	Board of Directors, Neurology Section, APTA
2005-2007	III Step Dissemination Task Force, Neurology Section, APTA
2002	manuscript reviewer for <u>Physiotherapy in Practice</u>
2002	Poster Tour Guide, Neurology Section, Combined Sections Meeting, American Physical Therapy Association
2001	manuscript reviewer for <u>Neuropsychologia</u>
1997-2000	Nominating Committee, Neurology Section, APTA
1993 – 2005	Program Committee, Neurology Section, APTA

Service to the University/College/Department

University Level

2017-present	Commencement Reader
2015-2017	Commencement Marshall
2015	Graduate Student Research Day: Poster Judge
2010-2013	Commencement Marshall

College Level

2016-	Scientific Projects Committee, Malcom Randall VAMC
2016, 2019	T32 NIH Neuromuscular Plasticity Symposium: Poster Judge
2015	Think Tank on Cultural Diversity
2012-2015	T32 NIH Neuromuscular Plasticity Symposium: Abstract Reviewer
2011-2014	College of Public Health and Health Professions Research Day: Abstract Reviewer

Department Level

2019-2020	LifeSpan Case Development Committee, Chair
2018	Teaching/Scholar Faculty Search Committee
2016-2017	Brooks-PHHP Collaboration Director Search Committee
2017-2018	Neuronoons Committee, T32 NIH Training Grant
2016-	Equal Access Clinic, Faculty Supervisor
2015-2017	Doctor of Physical Therapy Admission Committee
2014-2015	Faculty Development Task Force
2011-2013	Academic Progression Committee
2008-2016	Scholarship Committee
2008	Professional Development and Leadership Task Force

2008 Marketing Task Force

Honors and Awards

- 2020 American Physical Therapy Association Lucy Blair Service Award
Honors members who have made exceptional contributions to the Association through district, chapter, committee, section, task force or national activities.
- 2019 Golden Synapse Award
For the manuscript: **Rose DK**, DeMark L, Fox EJ, Clark DJ, Wludyka, P. *A Backward Walking Training Program to Improve Balance and Mobility in Acute Stroke: A Pilot Randomized Controlled Trial.* Journal of Neurologic Physical Therapy. 2018. 42(1):12-21. The award recognizes the most outstanding article published in JNPT each year and is based on the article's conceptualization, execution, presentation and contribution to physical therapy practice.
- 2018 2018 Dean's Citation Paper Award
For outstanding publication: **Rose DK**, Nadeau S, Wu SS, Tilson JK, Dobkin BH, Pei, Q, Duncan PW. *Locomotor Training and Strength and Balance Exercises for Walking Recovery Post-Stroke: Response to Number of Training Sessions.* Physical Therapy. 2017. 97(11):1066-1074.
- 2016 Poster Award finalist. American Congress of Rehabilitation Medicine (for the presentation: **Rose DK**, Patten C, Taylor A, Triggs WJ. *Priming the Ipsilesional Motor Cortex with Excitatory rTMS to Augment Functional Task Practice Post-Stroke*)
- 2013 2012 Stroke Progress and Innovation Award
(for the manuscript: Tilson JK, Wu SS, Cen SY, Feng Q, **Rose DK**, Behrman AL, Azen S, Duncan PW, for the LEAPS Investigative Team. *Characterizing and Identifying Risk for Falls in the LEAPS Study: A Randomized Clinical Trial of Interventions to Improve Walking Poststroke Stroke*, 43:446-52,2011.)
- 2011 Dorothy Briggs Memorial Scientific Inquiry Award
(for the manuscript: Tilson JK, Sullivan KJ, Cen SY, **Rose DK**, Koradia C, Azen SP, Duncan PW. *Meaningful gait speed improvement during the first 60 days post-stroke: minimal clinically important difference.* Physical Therapy 90(2):196-208, 2010.)
- 2010 J. Brooks Brown Annual Research Award, Brooks Rehabilitation Center
- 2010 APTA Neurology Section: Service to the Section Award
- 2009 Early Career Poster Award. American Congress of Rehabilitation Medicine/American Society of Neurorehabilitation (for the presentation: **Rose DK**, Paris, T, Duncan PW, Wu SS, Behrman AL, Crews E. *Functional Improvement in Post-Acute Stroke: The Importance of Repetition and Progression.*)

- 2004 Golden Cane Award
(To honor and acknowledge graduates from the PhD program who have demonstrated the potential to be the leaders of the future in Biokinesiology and Physical Therapy)
Department of Biokinesiology and Physical Therapy
University of Southern California
- 2003-2004 Jacquelin Perry Scholar Award (\$1,000)
Department of Biokinesiology and Physical Therapy
University of Southern California
- 2002-2003 Promotion of Doctoral Studies II (\$15,000)
Mary Lou Barnes Scholarship, Neurology Section
Foundation for Physical Therapy
- 2000-2001 Promotion of Doctoral Studies I (\$7,500)
Foundation for Physical Therapy
- 2000 Post-professional Student Research Award (\$1,000)
Neurology Section, APTA
- 1999-2000 Promotion of Doctoral Studies I (\$7,500)
Foundation for Physical Therapy
- 1993 Mary McMillian Post-professional Scholarship Award (\$1,000)
American Physical Therapy Association
- 1992 Mary Clyde Singleton Award
(For excellence in the coalescence of the art and science of physical therapy)
University of North Carolina-Chapel Hill
- 1985 Student Professionalism Award
Daemen College