
Elaine Trudelle-Jackson, Ph.D.

Professor

Physical Therapy

College of Health Sciences

ejackson@twu.edu

Work Experience

Teaching

Courses Taught

Courses from the Teaching Schedule: Advanced Instrumentation in Physical Therapy, Advanced Practicum in Physical Therapy, Applied Ortho Management, Applied PT Eval, Applied Statistical Methods for the Health Care Professional, Basic Physical Therapy Skills, Clinical Experience II, Clinical Management of the Musculoskeletal System, Critical Inquiry in Physical Therapy I, Critical Inquiry in Physical Therapy II, Critical Inquiry in Physical Therapy II, Critical Inquiry in Physical Therapy III, Eval & Assess in PT, Examination, Evaluation, and Outcomes, Examination, Evaluation, and Outcomes, Exercise Testing and Prescription in Physical Therapy, Extremity Manual Therapy, Field Research in Physical Therapy, Illness Prevention & Health Promotion, Internship II, Internship III, Introduction to Grantsmanship in Physical Therapy, Medical Kinesiology, Medicine and Surgery, Orthopedic Evaluation & Treatment of Geriatric Client, Orthopedic Evaluation & Treatment of the Geriatric Client, Pathophysiology of Ther Ex, Pharm Nutr PT, Practicum in Physical Therapy, Professional Paper, Research for Clinical Scientists in Physical Therapy, Research in Physical Therapy, Special Topics, Special Topics, Statistical Methods I for the Health Professional, Supervised Teaching in Physical Therapy, Ther Act - Ortho

Teaching Activities

- 2018 - Effect of Two Different Types of AFOs on Gait Outcomes in Patients with Subacute Stroke.
- 2018 - Changes in Gait Speed, Gastrocnemius Strength, and Center of Pressure for Individuals Living with Parkinson's Disease.
- 2017 - The Effect of Home Based High Velocity Training on Muscle Strength and Power, Functional Performance and Physical Activity Behavior in Persons with TKR.
- 2017 - Measuring Head Control After Utilization of the Headpod™ in Children with Poor Head Control.
- 2015 - The Effect of Visual Environmental Distraction on Gait Performance in Children.
- 2014 - Comparison of an Eccentric Exercise Intervention to a Concentric Exercise Interventions in Adults with Subacromial Impingement Syndrome.
- 2014 - Effect of Lumbopelvic Manipulation on Hip and Knee Neuromuscular Activity, Pain Intensity, and Functional Ability in People with Patellofemoral Pain Syndrome.
- 2013 - Effectiveness of spinal stabilization exercises for low back pain in adolescents with idiopathic scoliosis.
- 2013 - Effect of ultrasound imaging biofeedback on stress urinary incontinence in women.
- 2012 - Multi-segment Coordination Within the Foot in Healthy Children and Patients Previously Treated for Congenital Clubfoot During Walking, Toe Raises and Single Limb Hopping.
- 2012 - Gender Differences in Gait During Stair Descent Transitions in Healthy Older Adults.
- 2011 - Association Between Lumbar Extremes of Motion and Musculoskeletal Injury of the Low Back and Hip in Adult Women.
- 2011 - Effect of Aerobic Exercise on Cognition and Sedentary Behavior in Persons with Parkinson's Disease.
- 2010 - Effects of a 10-Week Exercise Intervention on Thoracic Kyphosis, Pulmonary Function, Endurance, and Quality of Life

in Women With Osteoporosis.

2009 - The effects of ankle bracing on the kinematics and kinetics of the knee during jump landing.

2008 - Effects of Electrical Stimulation and Exercise on Urinary Incontinence.

2008 - Effectiveness of cervical spine manipulation versus vibratory inhibition on patients with cervical spine pain.

2008 - Effectiveness of surface electromyographic biofeedback-triggered neuromuscular electrical stimulation on knee rehabilitation.

2006 - Exercise Effect on Strength, Balance, and Function in Women With Low Bone Mass.

2006 - Kinematic and Kinetic Analysis of the Knee after Anterior Cruciate Ligament Reconstruction in Women.

2006 - Effects of a Home Exercise Program on Index of Kyphosis, Height, Balance, and Quality of Life in Post-menopausal Women with Low Bone Mass.

2005 - Interrater Reliability of the Movement Classification for Lumbar Spine Syndromes in Patients With Chronic Low Back Pain.

2005 - Outcomes of Total Knee Arthroplasty in Patients who Are 1-Year Post Surgery.

1992 - Intrarater and Interrater Reliability of Lumbar Flexion and Extension Taken By the Cybex Electronic Digital Inclinator.

1990 - The Contribution of Pelvic Rotation to Straight Leg Raising Measurement.

1990 - Intermachine Reliability of a System of Testing Trunk Flexion and Extension.

Intellectual Contributions

Intellectual Contributions Grid

Category	Total
Articles in Refereed Journals	34
Books, Monographs, Compilations, Manuals, Supplements, Chapters, Cases, Readings	7
Presentations of Refereed Papers	63

Refereed Articles

Trudelle-Jackson, E. & Jackson, A. W. (2018). Do older adults who meet 2008 Physical Activity Guidelines have better physical performance than those who do not meet? *Journal of Geriatric Physical Therapy*, 41 (3), 180-185.

Rachel, L., Swank, C., Trudelle-Jackson, E., & Driver, S. (in press, 2018). Reliability and clinical feasibility of measuring dual-task gait in the inpatient rehabilitation setting following traumatic brain injury. *Physiotherapy Theory and Practice: An International Journal of Physical Therapy*, doi: 10.1080/09593985.2018.1474305.

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Bizama, F., Medley, A., Trudelle-Jackson, E., & Csiza, L. (2017). The effect of visual environmental distraction on gait preference in children. *Physical & Occupational Therapy in Pediatrics: A Quarterly Journal of Developmental Therapy*, 1-10, doi: 10.1080/01942638.2017.1297987.

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Jackson, A. & Trudelle-Jackson, E. (1988). A computer program for use in body composition analysis. *Strength and Conditioning Journal*.

Non-Refereed Articles

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Invited Articles/Reviews

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- Ferro, E., Bedell, L., Johnson, A., McMillan, K., & Trudelle-Jackson, E. (2011). *Intra- and inter-tester reliability of lower extremity muscle strength measurements using a hand-held dynamometer with and without a stabilization strap*. Texas Physical Therapy Association Annual Conference, Houston, Texas.
- Fleisher, L. & Trudelle-Jackson, E. (2007). *Exercise effect on strength, balance, and quality of life in women with low bone mass*. Texas Physical Therapy Association Annual Conference, Galveston, Texas.
- Hines, E., Trudelle-Jackson, E., Connell, S., Follingstad, R., & Russell, D. (2014). *The association between assessments of quadriceps muscle power obtained with the isotonic mode of the Biodex multi-joint system and when calculated from the stair*

climb test. Texas Physical Therapy Association Annual Conference, Galveston, Texas.

Karakatpil, P. & Trudelle-Jackson, E. (2006). *Outcomes of total knee arthroplasty 1-year postsurgery*. Texas Physical Therapy Association Annual Conference, Fort Worth, Texas.

Karakattil, P., Trudelle-Jackson, E., Medley, A., & Swank, C. (2018). *Effects of Two Different Types of Ankle Foot Orthoses on Gait Outcomes in Patients with Subacute Stroke*. Texas Physical Therapy Association Annual Meeting, San Antonio, Texas.

McConnell, K., Wylie, S., Ortiz, A., & Trudelle-Jackson, E. (2005). *Effects of a 5-week injury prevention program on kinematics and kinetics in adolescent women soccer players: A pilot study*. Texas Physical Therapy Association Annual Conference, The Woodlands, Texas.

Nations, T., Ortiz, A., & Trudelle-Jackson, E. (2007). *Effects of a 6-week injury prevention program on knee valgus during landing in adolescent female soccer players*. Texas Physical Therapy Association Annual Conference, Galveston, Texas.

Trudelle-Jackson, E. & Smith, S. S. (2001). *Effect of Post-Rehabilitation Exercise on Strength and Postural Stability Following Total Hip Arthroplasty*. Texas Physical Therapy Association Annual Conference, Arlington, Texas.

Trudelle-Jackson, E. & Smith, S. S. (1999). *Outcomes of total hip arthroplasty in patients who are 1-year post surgery*. Texas Physical Therapy Association Annual Conference, Houston, Texas.

Trudelle-Jackson, E., Rozier, C. K., & Smith, S. S. (1999). *TWU Health Promotion & Research Center: A collaboration between the university and Presbyterian Hospital to benefit the community*. Texas Physical Therapy Association Annual Conference, Houston, Texas.

Trudelle-Jackson, E., Tally, J. A., Brandewie, D., Craig, S., Urban, K., Warner, C. (1995). *Reliability of the cervical range of motion (CROM) device*. Texas Physical Therapy Association Annual Conference, Dallas, Texas.

Trudelle-Jackson, E., Dupuis, S., Bunetta, P., Daugherty, K., & Kotera, T. (1994). *Angular velocity and quadriceps peak torque angle of occurrence*. Texas Physical Therapy Association Annual Conference, San Antonio, Texas.

Trudelle-Jackson, E., Deaton, D. L., Johns, K., Narasov, S., & Rafeei, T. (1992). *Test-retest reliability of Kin-Com measurements of shoulder internal and external rotators*. Texas Physical Therapy Association Annual Conference, Houston, Texas.

Trudelle-Jackson, E., Meske, N. B., Highenboten, C. L., & Jackson, A. (1988). *Eccentric/concentric torque deficits in the quadriceps muscle*. Texas Physical Therapy Association Annual Conference, Dallas, Texas.

Wang, S. S., Trudelle-Jackson, E., Tossey, L. L., Vo, W. P., & Theriault, T. M. (2005). *Effectiveness of two physical therapy interventions for increasing length in the pectoralis minor muscle*. Texas Physical Therapy Association Annual Conference, The Woodlands, Texas.

Grants

2018: Swank, C. & Trudelle-Jackson, E., Rehabilitation Research and Training Center: Developing and Evidence-Base to Reduce Cardiovascular Disease Risk and Promote Healthy Aging for People with Long-Term Disabilities, Co-Investigator, GOV-National Institute on Disability and Rehabilitation Research (NIDRR). .

2016: Trudelle-Jackson, E. Development of an Office of Research & Sponsored Programs at Texas Woman's University Institute of Health Sciences-Dallas Center, Principal Investigator, GOV-National Institute of Child Health & Human Development (NICHD). .

2015: Trudelle-Jackson, E. & Swank, C., Enhancing the Clinical Research Workforce: A Collaborative Effort between Academic and Clinical Partners, Co-Principal Investigator, Baylor Foundation. .

2015: Trudelle-Jackson, E. Effect of Two Different Types of AFOs on Gait Outcomes in Patients with Subacute Stroke, Principal Investigator, Texas Physical Therapy Foundation. .

2015: Trudelle-Jackson, E., Swank, C., Bell, K., Driver, S., & Froelich-Grobe, K. Enhancing Physical Activity for Lifelong Health in Individuals with a Disability, Co-Investigator, GOV-National Institute on Disability and Rehabilitation Research (NIDRR). .

2013: Trudelle-Jackson, E. The Effect of Home-Based High Velocity Training Exercises on Muscle Strength, Muscle Power and Functional Performance in Individuals with Total Knee Arthroplasty, Principal Investigator, Texas Physical Therapy Foundation. .

2012: Trudelle-Jackson, E. Resistance Exercise & Strength Training Assessment (RESTA), Co-Investigator, GOV-National Institutes of Health(NIH). .

2011: Trudelle-Jackson, E. Women's Exercise Injuries: Incidence and Risk Factors, Principal Investigator, GOV-National

Institute of Arthritis & Musculoskeletal & Skin Diseases (NIAMS). .

2011: Trudelle-Jackson, E. The Effect of Power Training on Functional Performance and Walking Behavior in Individuals with Total Knee Arthroplasty, NIH: Academic Research Enhancement Award. .

2010: Trudelle-Jackson, E. Effect of Rehabilitative Ultrasound Imaging Biofeedback on Urinary Incontinence, Pelvic Floor Muscle Contraction, and Quality of Life in Women With Stress Urinary Incontinence, Principal Investigator, American Physical Therapy Association, Section Women's Health. .

2010: Trudelle-Jackson, E. Resistance Exercise & Strength Training Assessment (RESTA), Co-Investigator, NIH:Improving Diet & PA Assessment. .

2009: Trudelle-Jackson, E. Effect of Ultrasound Imaging Biofeedback on Stress Urinary Incontinence in Women, National Institute of Health (Challenge Grants). .

2006: Trudelle-Jackson, E. Exercise Effect on Strength, Balance, and Function in Women With Low Bone Mass, Principal Investigator, Texas Physical Therapy Foundation. .

2003: Trudelle-Jackson, E. Outcomes of Total Knee Arthroplasty in Patients Who Are 1-Year Post Surgery, Principal Investigator, Texas Physical Therapy Foundation. .

2000: Trudelle-Jackson, E. Effect of Exercise on Strength and Postural Stability in Patients Post-Total Hip Arthroplasty, Principal Investigator, Texas Physical Therapy Association Research Foundation. .

Papers Under Review

Shill, J. & Trudelle-Jackson, E. (2017). "Inclined positioning and development of severe brachycephaly and plagiocephaly in 4-month old infants," targeted for Journal of Pediatric Physical Therapy.

Working Papers

Shill, J. & Trudelle-Jackson, E. (2017). "Inclined positioning and development of severe brachycephaly and plagiocephaly in 4-month old infants," targeted for Journal of Pediatric Physical Therapy.

Service

Service to the Profession

Service to the Community

Professional Development

2012: National Institute of Health, Bethesda, District of Columbia.

2010: University of South Carolina School of Public Health, Columbia, South Carolina.

Honors/Awards

2016: Mentor in Chancellor's Research Fellows Program, Texas Woman's University.

2012: Outstanding Researcher Award, Texas Physical Therapy Association.

2010: Mentor in Chancellor's Research Fellows Program, Chancellor's Research Fellows Program.

2009: , Chancellor's Research Fellows Program.

2006: TPTA Annual Conference Outstanding Poster Presentation Award, Texas Physical Therapy Association.

2001: Outstanding Graduate Student Award, Texas Woman's University.