



DIVISION OF THERAPY SERVICES

RESEARCH ANNUAL REPORT: FISCAL YEAR 2015

The accomplishments outlined in this report showcase the work of our dedicated and talented therapists who strive on a daily basis to contribute new knowledge to the field of rehabilitation. In fiscal year 2015, research and educational presentations were presented by 65 therapists at 23 professional conferences at the state, national and international levels. Five articles were published in peer-reviewed journals and multiple awards and special recognition received. Congratulations to our therapists an extremely successful fiscal year 2015!

Conference Presentations:

<u>Project Title</u>	<u>Staff Involvement</u> (<u>presenting authors underlined</u>)	<u>Type of Presentation</u>
<u>Proceedings of the 7th World Congress of Biomechanics</u> <u>July 6-11, 2014, Boston, Massachusetts</u>		
Identification of Dynamic Trunk Movement Control Impairments in Patients with Non-Specific Low Back Pain Using a Novel Target Acquisition Test.	<u>Won Sung, PT, DPT</u> Pemongkon Wattananon PT, MS Bryan Spinelli PT, DPT, OCS, CLT/LANA Sheri Silfies PT, PhD	Research presentation
Can Kinematic Data Collected During Active Forward Bend be Used to Identify Patients with Non-Specific Low Back Pain?	Pemongkon Wattananon PT, MS <u>Won Sung PT, DPT</u> Bryan Spinelli PT, MS, OCS, CLT/LANA Dave Ebaugh PT, PhD Sheri Silfies	Research presentation

<u>Brazilian Shoulder and Elbow Congress</u> <u>August 28-30, 2014, Brazil</u>		
1. Postoperative Rotator Cuff Rehabilitation 2. Rehabilitation After Shoulder Arthroplasty 3. Roundtable Discussion-Scapular Dyskinesis: Risk Factor or Result 4. Roundtable Discussion- Treatment of Partial Thickness Rotator Cuff Tears: Physiotherapy or Surgery	<u>Marty J. Kelley, PT, DPT, OCS</u>	Education and Roundtable Sessions for the Rehabilitation Section
Examination Algorithm for Scapular Muscle Dysfunction	<u>Marty J. Kelley, PT, DPT, OCS</u>	Education Session for the Surgeon Section
<u>The Mid-Atlantic Shoulder and Elbow Society Meeting</u> <u>September 19, 2014; Washington, DC</u>		
Panel Discussion: Acromioclavicular Joint Injuries: To Treat or Not to Treat- That is the Question	<u>Brian Leggin PT, DPT, OCS</u>	Panel Discussion
Panel Discussion: Dealing With the Failed Cuff-What to do With the 55 y/o With a Massive Cuff Tear Who Can Raise Their Arm? Rehab it, Fix it, Patch it or Reverse it!	<u>Brian Leggin PT, DPT, OCS</u>	Panel Discussion
<u>The National Lymphedema Network's 11th International Conference</u> <u>September 3-7, 2014; Washington, DC</u>		
Breast Cancer Related Lymphedema and Shoulder Kinematics: Analysis of the Upper Quadrant	Peter Rundquist, PT, PhD <u>Bryan Spinelli, PT, MS, OCS, CLT-LANA</u>	Education session
Case Studies: Gynecological, Torso, Genital	<u>Jane Kepics, PT, DPT, CLT-LANA</u> <u>Bryan Spinelli, PT, MS, OCS, CLT-LANA</u>	Education session
Successful Lymphedema Physical Therapy Intervention in a Complex Morbidly Obese Patient	<u>Robin Kauffman MSPT, CLT-LANA</u> <u>Stephanie Duzak DPT, CLT-LANA</u> <u>Bernadette Erickson PT, CLT-LANA</u>	Poster Presentation
<u>American Society of Hand Therapists 37th Annual Meeting</u> <u>September 18-20, 2014; Boston, Massachusetts</u>		
Blocking Orthoses: Design, Indications and Fabrication	<u>Gayle Severance MS, OT/L, CHT</u>	Workshop
<u>Limb Loss Education Day</u> <u>September 13, 2014; Philadelphia, Pennsylvania</u>		
How to Get Back to a Comfortable Activity Level	<u>Chris Gorrell PT, DPT</u> <u>Julie Parana OTR/L</u>	Panel Discussion

<u>University of the Sciences</u> <u>14th Annual Patti Leahy Memorial Lecture</u> <u>September 18, 2014; Philadelphia, Pennsylvania</u>		
New and Innovative Evidence Based Treatment for Parkinson's Disease	<u>Heather Cianci, PT, MS, GCS</u>	Invited Speaker
<u>5th Annual PPMC Nursing Perioperative Conference 2014</u> <u>November 15, 2014; Philadelphia, Pennsylvania</u>		
From the Playground to the Workplace: How Do We Manage Bullying in Healthcare	<u>Jane Oeffner PT, DPT, MBA</u>	Education Session
<u>Pennsylvania Physical Therapy Association (PPTA) Conference</u> <u>October 31-November 2, 2014; Lancaster, Pennsylvania</u>		
Knocking Out Parkinson's Disease: The Role of High Intensity Exercise	<u>Joellyn Fox PT, DPT</u>	Education Session
Got heart? Evaluation and Differential Diagnosis of cardiac Disease	<u>Esther Bae PT, DPT</u> <u>Kelly Butler PT, DPT, CCS</u>	Education Session
Diagnosis and Management of Cancer Related Fatigue	<u>Sarena Banas PT, DPT, CLT-LANA</u> <u>Maria Buccafuri PT, CLT-LANA</u>	Education Session
Outcomes of an Acute Care Patient Mobility Program for Trauma and Orthopedic Patients	<u>Kaila Burklow PT, DPT</u> Melissa Lesser Pt, DPT Megan Leary PT, DPT Bevin Journey OTR/L Laura Schaffner MS, OTR/L	Poster Presentation
<u>Pennsylvania Occupational Therapy Association (POTA) Conference</u> <u>October 31-November 2, 2014; King of Prussia, Pennsylvania</u>		
Recreating and Sustaining a Staff Clinical Education Program in an Acute Care Rehabilitation Department	<u>Malachy Clancy MOT, OTR/L</u> <u>Laura Schaffner MS, OTR/L</u>	Short Course
Implementation of a Revised OT Job Site Evaluation Program	<u>Tami Levengood OTR/L, MSCS</u>	Poster Presentation
Acute Care Occupational Therapy for a Patient with Heroin Induced Leukoencephalopathy	<u>Teresa Melick MOTR/L</u> <u>Marisa Hart MS, OTR/L</u>	Poster Presentation
<u>American Society of Reconstructive Transplantation Annual Conference</u> <u>November 21, 2014; Chicago, Illinois</u>		
When is Enough, Enough? Managing Responsibilities, Expectations and Outcomes in Hand Transplantation	<u>Gayle Severance MS, OT/L, CHT</u>	Education Session

<u>Shoulder and Elbow Update 2014</u> November 21-22, 2014; Philadelphia, PA		
Rehabilitation and Outcome of Non-op Management of Rotator Cuff Disease Rehabilitation of Shoulder Girdle Fractures Rehabilitation following Conventional and Reverse Shoulder Arthroplasty	<u>Brian Leggin PT, DPT, OCS</u>	Education Session
Rehabilitation following Rotator Cuff Repair: When Should We Start and What Do We Do? Guidelines for Rehabilitation of Frozen Shoulder Recognition and Rehabilitation of Scapular Dysfunction	<u>Marty J. Kelley, PT, DPT, OCS</u>	Education Session
A New Approach to the Management of Epicondylitis	<u>John Bellace, PT, CHT</u>	Education Session
Rehabilitation Principles Following Elbow Fracture	<u>Laura Walsh, OT/L, CHT</u>	Education Session
Clinical Examination of the Shoulder and Elbow	<u>Brian Leggin PT, DPT, OCS</u>	Workshop
Cadaver Anatomy Specimens of the Shoulder and Elbow	<u>Bryan Spinelli PT, MS, OCS, CLT</u> <u>Wendy McCoy, PT, CHT</u> <u>Laura Walsh, OT/L, CHT</u>	Workshop
Manual Techniques for the Shoulder and Elbow	<u>Marty J. Kelley, PT, DPT, OCS</u> <u>Brian Eckenrode, PT, DPT, OCS</u> <u>Tiffany Prince, PT, DPT, OCS</u> <u>Allison Greene, PT, DPT, OCS</u>	Workshop
Taping Techniques for the Shoulder and Elbow	<u>Jeffrey O'Neill, PT, DPT, OCS</u> <u>Marisa Pontillo PT, DPT, SCS</u> <u>Gina Serago, PT, DPT. OCS</u>	Workshop
<u>American Association for Hand Surgery Conference</u> January 21-24, 2015; Nassau, Bahamas		
Soft Tissue Coverage Targeted Reinnervation for UE Prostheses: Motor Control & Sensory Feedback	<u>Gayle Severance MS, OT/L, CHT</u>	Workshops
<u>Penn Medicine 2015 Advances in Throwing Symposium</u> January 31, 2015; Philadelphia, Pennsylvania		
Non-Operative Rehab of Shoulder Injuries	<u>Brian Leggin PT, DPT, OCS</u>	Education Session
Postoperative Instability/SLAP Repair Rehabilitation in the Throwing Athlete	<u>Marty J. Kelley, PT, DPT, OCS</u>	Education Session
Return to Play Algorithms for the Overhead Athlete	<u>Marisa Pontillo PT, DPT, SCS</u>	Education Session

<u>American Physical Therapy Association's Combined Sections Meeting</u> <u>February 4-7, 2015; Indianapolis Indiana</u>		
NMES to the Lumbar Multifidus in Conjunction with Trunk Stabilization Exercises Returns Patient to a High Level of Competition Following an L4-L5 Microdiscectomy	<u>Michael Roberto PT, DPT</u> Noel Goodstadt PT, PhD Sheri P. Silfies PT, PhD	Platform Presentation Orthopaedic Section
Physical Rehabilitation for Patients Pre Lung Transplant at a Long Term Acute Care Hospital (LTACH)	<u>Aaron Thrush PT, DPT, MPH</u> <u>Julie Skrzat PT, DPT</u>	Platform Presentation Cardiovascular and Pulmonary Section
Description of Clinical Outcomes and Utilization of Physical Therapy in Patients with Shoulder Disorders	<u>Brian Leggin PT, DPT, OCS</u> Jennifer Dekerlegand MPT Bob Labelle, MBA, LAT, ATC	Platform Presentation Orthopaedic Section
Shoulder Dysfunction in Patients Following Surgical Treatment for Lung Cancer	<u>Brandis Johnson PT, DPT, CLT-LANA</u>	Platform Presentation Oncology Section
Implementation of a Standardized Outcomes Process Across Multiple Outpatient Therapy Practices	<u>Brian Leggin PT, DPT, OCS</u> Jennifer Dekerlegand MPT Bob Labelle, MBA, LAT, ATC	Platform Presentation Health Policy and Administration Section
Description of a Peer-Assisted Learning Program to Enhance a 1:1 Model of Clinical Education	Anne Whiting PT, DPT, MSW <u>Aaron Thrush PT, DPT, MPH</u> <u>Carol Wamsley PT, DPT, BS, NCS, CBIS</u> Jillian Stark PT, DPT, NCS, CBIS	Poster Presentation Education Section
Practical Use of an Outcome Measure to Report on Therapy in a Medical Intensive Care Unit (MICU) Setting	<u>Joe Adler PT, DPT, CCS</u> <u>Kelly Butler PT, DPT, CCS</u> Aaron Thrush PT, DPT, MPH Jen Dekerlegand MPT Arcadia Students	Poster Presentation Acute Care Section
Change in Function of Patients Hospitalized for Allogeneic Bone Marrow Transplants	<u>Ruba Nacef PT, DPT</u> Mary Galgon PTA Jen Dekerlegand MPT	Poster Presentation Acute Care Section
Use of the Postural Assessment Scale for Stroke Patients in Determining Acute Care Discharge Recommendations	<u>Melissa Lesser PT, DPT</u> <u>Joseph Borst PT, DPT</u>	Poster Presentation Acute Care Section

	Jen Dekerlegand MPT	
Crash, Bang, Boom: Injuries and Rehabilitation of Contact and Tactical Athletes	<u>Marisa Pontillo PT, DPT, SCS</u> Daniel Lorenz, PT, DPT, LAT, CSCS Michael Rosenthal, PT, DSc, SCS, ECS, ATC James Voos, MD	Education Session Sports Section
<u>Pennsylvania Physical Therapy Association's Southeast District (SED)</u> <u>Mini Combined Sections Meeting</u> <u>March 21, 2015; Philadelphia, PA</u>		
Effectiveness of High Velocity Low Amplitude Thrust Manipulation on the Treatment of Symptoms Related to Temporomandibular Disorder: A Systematic Literature Review	<u>Tim Bayruns, PT, DPT, OCS, CSCS</u> <u>Philip Adelizzi SPT</u> <u>James Casler SPT</u> <u>Melissa DeFelice SPT</u> <u>Michael Drusedum, SPT</u>	Poster Presentation
Management of Parkinson's Disease-Update on Current Activity Based Intervention	<u>Heather Cianci PT, MS, GCS</u> <u>Joellyn Fox PT, DPT</u>	Education Session
Legislative Issues Update – How to Talk to your Legislator	<u>Claire Peasley PT, DPT</u>	Education Session
Patient Intervention Through the Continuum for Patients with Parkinson's Disease	<u>Heather Cianci PT, MS, GCS</u> <u>Joellyn Fox PT, DPT</u>	Education Session
Outcomes of an Acute Care Patient Mobility Program for Trauma and Orthopedic Patients	<u>Kaila Burklow PT, DPT</u> Melissa Lesser Pt, DPT Megan Leary PT, DPT Bevin Journey OTR/L Laura Schaffner MS, OTR/L	Poster Presentation
Use of the Postural Assessment Scale for Stroke Patients in Determining Acute Care Discharge Recommendations	<u>Melissa Lesser PT, DPT</u> Joseph Borst PT, DPT Jen Dekerlegand MPT	Poster Presentation
Description of a Peer-Assisted Learning Program to Enhance a 1:1 Model of Clinical Education	<u>Anne Whiting PT, DPT, MSW</u> Aaron Thrush PT, DPT, MPH <u>Carol Wamsley PT, DPT, BS, NCS, CBIS</u> Jillian Stark PT, DPT, NCS, CBIS	Poster Presentation
<u>Hospital of the University of Pennsylvania Safety Fair</u> <u>March 11, 2015; Philadelphia, Pennsylvania</u>		
Project SIT-UP	<u>Randy M. Dubin, MA, CCC-SLP</u> <u>Nadine Amsterdam, MA, CCC-SLP</u>	Poster Presentation

<u>Multidisciplinary Approach to Dysphagia and Airway Management</u> March 7, 2015; Philadelphia, Pennsylvania		
Laryngectomy Management Across the Continuum of Care	<u>Meredith Pauly, MA, CCC-SLP</u> <u>Tiffany Hogan, MA, CCC-SLP</u>	Educational Session
The “Why” of SLP Decision Making in Medically Complex Cases	<u>Regina Carr, MA, CCC-SLP</u> <u>Melissa B. Ferdas, MA, CCC-SLP</u>	Educational Session
Infant Driven Feeding Program in the Intensive Care Nursery	<u>Nadine Amsterdam, MA, CCC-SLP</u> <u>Hani Dressler, MA, CCC-SLP</u>	Educational Session
Secretions and Residue and Aspiration, Oh My!	<u>Randy M. Dubin, MA, CCC-SLP</u>	Educational Session
<u>Philadelphia Hand Rehabilitation Foundation</u> <u>41st Symposium: Surgery and Rehabilitation of the Hand</u> <u>with Emphasis on Trauma</u> March 7-9, 2015; Philadelphia, PA		
Rehabilitation Following Hand Transplantation	<u>Gayle Severance MS, OT/L, CHT</u>	Education Session
Hand Transplant Case Study	<u>Laura Walsh MS, OT/L, CHT</u>	Education Session
Elbow Fractures	<u>Laura Walsh MS, OT/L, CHT</u>	Education Session
Clinical Examination of the Shoulder	<u>Marty Kelley, PT, DPT, OCS</u> <u>Brian Leggin PT, DPT, OCS</u>	Education Session
<u>American Occupational Therapy Association’s Annual Conference and Expo</u> April 16-19, 2015; Nashville, Tennessee		
Supporting the Roles of Infants and Caregivers with an Infant Massage Program in the Intensive Care Nursery	<u>Lawrence Stevenson OTR/L</u> <u>Robin Elican-Medeja, MOT OTR/L</u>	Poster Presentation
Rehabilitation of Patients with Lower Limb Amputations	<u>Julie Parana OTR/L</u>	Poster Presentation
Incorporating Occupational Therapists into a Phase I Acute Care Cardiac Rehab Group	<u>Malachy Clancy MOT, OTR/L</u> <u>Teresa Melick MOT, OTR/L</u>	Poster Presentation
Implementation of a Revised OT Job Site Evaluation Program	<u>Tami Levensgood OTR/L, MSCS</u>	Poster Presentation
Addressing Cognitive Impairment in Acute Care Populations to Increase Occupational Performance	<u>Marisa Hart MS, OTR/L</u> <u>Laura Schaffner MS, OTR/L</u>	Poster Presentation
Transitioning From Student to Practicing Therapist: Employment Issues and Factors Contributing to Good Clinical Site Fit	<u>Meredith McElroy MOT, OTR/L</u>	Poster Presentation
Oncology Rehabilitation and Cognition	<u>Laura Schaffner MS, OTR/L</u>	Buzz Session

<u>Mind Your Brain Conference</u> March 13, 2015; Philadelphia, Pennsylvania		
Patient and Family Education Sessions	<u>Kijsten Robin, MS, OTR/L, CBIS</u> <u>Tami Levengood, OTR/L, MSCS</u> <u>Lisa Rocks, MA, SLP/CCC, CBIS</u> <u>Katherine Tuan, MS, OTR/L, CBIS</u>	Workshops
<u>Mediware Rehabilitation Annual Conference</u> June 8-10, 2015; Scottsdale, Arizona		
Data: Output vs. Outcome	<u>Christopher Kauffman MSPT</u>	Oral Presentation
<u>The 16th Annual Philadelphia Sports Medicine Congress</u> June 19, 2015; Philadelphia, Pennsylvania		
Upper Extremity Functional Testing and Return to Play	<u>Marisa Pontillo, PT, DPT, SCS</u>	Educational Session

Publications:

Peer Reviewed:

Sung W, Abraham M, Plastaras C, Silfies SP. Trunk motor control deficits in acute and subacute low back pain are not associated with pain or fear of movement. *Spine J*. 2015 Apr 8.

Pontillo M, Spinelli BA, Sennett BJ. Prediction of in-season shoulder injury from preseason testing in division I collegiate football players. *Sports Health*. 2014 Nov; 6(6):497-503.

Beidas RS, Raciotti B, Barg F, Branas AR, Brown JC, Glanz K, DeMichele A, DiGiovanni L, Salvatore D, Schmitz KH. *J Natl Cancer Inst Monogr*. 2014 Nov; 2014(50):338-45.

Tate L. Prevalence of Scoliosis in a Pelvic Pain Cohort. *J of Women's Health Phys Ther*. Jan/April 2015; 39(1): 3-9.

Thrush A, Hyder AA. The neglected burden of caregiving in low- and middle-income countries. *Disabil Health J*. 2014 Jul;7(3):262-72.

Other Publications:

Fazzari E. A collaborative approach to wound care and lymphedema therapy: Part I. Wound Care Advisor. May/June 2015; 4(3):30-2.

Cienci, HJ. (2014, 3rd edition). A Step Ahead: Exercise and Mobility. In G. Radin & L. Radin (Eds.) What if it's not Alzheimer's? Amherst, New York: Prometheus Books.

Cienci, HJ. (2014). Fitness Counts. National Parkinson Foundation. Miami, Florida.

Textbooks:

Sung W, Bayruns TJ: Lippincott's Primary Care Orthopedics, 2nd Edition: Chapter 78: "Lumbar Exercises" page 342 to 346, 2014.

Awards, Honors and Recognition:

<u>Title of Award</u>	<u>Staff Name</u>	<u>Description of Award</u>
Pennsylvania Physical Therapy Association (PPTA) Acute Care SIG Award	Esther Bae PT, DPT	The Pennsylvania Physical Therapy Association Acute Care Special Interest Group's award is provided to a therapist for service, clinical excellence, operational support, teaching and research in the area of Acute Care.
Pennsylvania Physical Therapy Association (PPTA) Geriatric Special Interest Group Award	Deb Akers PT	The Pennsylvania Physical Therapy Association Geriatric Special Interest Group's award is provided to a therapist for service, clinical excellence, operational support, teaching and research in the area of Geriatric Physical Therapy practice.
Pennsylvania Physical Therapy Association (PPTA) Neurology Special Interest Group Award	Kelly Butler PT, DPT, CCS	The Pennsylvania Physical Therapy Association Neurologic Special Interest Group's award is provided to a therapist for service, clinical excellence, operational support, teaching and research in the area of Neurologic Physical Therapy practice.
Pennsylvania Physical Therapy Association (PPTA) Student Leadership Award	Megan Watson PT, DPT	The Pennsylvania Physical Therapy Association's Student Leadership Award is provided to a student therapist who demonstrates APTA involvement, community service and leadership.
2014 Pennsylvania Hospital Advocacy Award	Arley Johnson MS, OTR/L	Awarded to an individual who has partnered with Patient and Guest Relations in the pursuit of patient satisfaction, advocacy and furthering the Penn patient experience.
Invited Keynote Speaker for the 14 th Annual Patti Leahy Lecture at the University of the Sciences in Philadelphia	Heather Cianci PT, MS, GCS	This event raises money for the Patti Leahy Scholarship Fund to assist physical therapy students with clinical education costs. Heather's talk was titled "New and Innovative Evidence Based Treatment for Parkinson's Disease.
Awarded the 2015 Mary Sinnott Award for Clinical Excellence in Acute Care	Joe Adler, PT, DPT, CCS	This award is provided to honor an outstanding acute care clinician whose major professional involvement and contribution has been in the area of acute care physical therapy.

<p>Awarded the 2014 Vargus International Hand Therapist Teaching Award</p>	<p>Gayle Severance MS, OT/L, CHT</p>	<p>The Vargus Award's is awarded to a hand therapist to foster an exchange of educational ideas between therapists in the American Association of Hand Surgery and in a host country to result in improved patient care for upper extremity problems.</p>
<p>Received American Board of Physical Therapy (ABPT) clinical specialization</p>	<p>Kelly Butler, PT, DPT, CCS Cardiovascular and Pulmonary</p> <p>Claire Child, PT, DPT, MPH, CCS Cardiovascular and Pulmonary</p> <p>Allison Greene, PT, DPT, OCS Orthopaedic</p> <p>Carol Wamsley, PT, DPT, BS, NCS, CBIS Neurologic</p>	<p>Honorees received board specialization at the American Physical Therapy Association's (APTA) Combined Sections Meeting on February 4th, in Indianapolis, Indiana.</p>
<p>Inducted into the 2015 Academy of Certified Brain Injury Specialists</p>	<p>Sara Parker OTR/L, CBIS Loren Massimino OTR/L, CBIS Andrea Vourtsis OTR/L, CBIS Jennifer Cartella OTR/L, CBIS Megan Watson PT, CBIS Brittany Jemmoua OTR/L, CBIS</p>	<p>Achieved Certification in Brain Injury Specialization (CBIS)</p>

Collaborative Projects:

<u>Project Title</u>	<u>Staff Involved</u>	<u>Role in Project</u>
Lung Transplant Body Composition Study	Laura Friedman PT Derek Zaleski PT, DPT	<ul style="list-style-type: none"> Assisting with data collection
Validation Study of a Lymphedema Assessment of the Breast, Arm and Trunk (LABAT)	Joy Cohn, PT, CLT-LANA Bryan Spinelli PT, MS, OCS, CLT	<ul style="list-style-type: none"> Collaborative project with Katie Schmitz (Principal Investigator), Associate Professor in the Department of Biostatistics and Epidemiology, University of Pennsylvania
<ol style="list-style-type: none"> Identifying Isolation of Multifidus Activation with NMES using Near Infrared Spectroscopy Identifying Isolation of Multifidus Activation with NMES using RUSI Analysis of Muscle Activation Patterns in Patients with Aberrant Movement Patterns who Fit a Diagnosis of Movement Control Impairments of the Spine Movement Precision and Control in Patients with Low Back Pain Kinematic Analysis of the Forward Bend Characteristics to Predict Patients with Movement Coordination Impairments of the Trunk Mechanistic Validation of Current Clinical Prediction Rules for Predicting Success with Trunk Stabilization Exercises 	Won Sung PT, DPT	<ul style="list-style-type: none"> Collaborative studies with Drexel University
The Relationship Between Core Stability and Shoulder Injuries in Athletes	Marisa Pontillo PT, DPT, SCS	<ul style="list-style-type: none"> Collaborative study with Drexel University
Pain Outcomes With an Elliptical Regimen (POWER)	Scott Becker PT	<ul style="list-style-type: none"> Collaborative study with Dr. Tim Dillingham MD, Department of Physical Medicine and Rehabilitation
Thera-Drive	Carol Wamsley, PT, DPT, BS, NCS, CBIS Aaron Thrush, PT, DPT, MHS	<ul style="list-style-type: none"> Collaborative study with Dr. Michelle Johnson, Associate Professor in the Department of Rehab Medicine at the University of Pennsylvania

<p>A Phase 2 Randomized, Double-Blind, Placebo-Controlled Efficacy and Safety Study of a RARγ-Specific Agonist (Palovarotene) in the Treatment of Preosseous Flare-ups in Subjects with Fibrodysplasia Ossificans Progressiva (FOP) are assessing joint range of motion as one of the outcome measures to determine the drug's efficacy in this rare patient population.</p>	<p>Elsa Amaral PT Sarah Martyn PT, DPT Kaila Roberson PT, DPT Joe Borst PT, DPT</p>	<ul style="list-style-type: none"> • Collaborative study with Dr. Kaplan, Penn Medicine's Department of Orthopedics.
<p>Risk of Falls after Total Knee Arthroplasty with the Use of Femoral Nerve Block versus Adductor Canal Block; A Double Blinded Randomized Controlled Study.</p>	<p>Chris Hughes</p>	<ul style="list-style-type: none"> • Collaborative study with Dr. Nabil Elkassabany MD MSCE, Department of Anesthesiology and Critical Care
<p>ASPIRE Study</p>	<p>Elsa Amaral, PT Sarah Martyn PT, DPT</p>	<ul style="list-style-type: none"> • Assisting the Hemophilia Team collect functional outcomes data
<p>Systematic Review of Spinal Cord Injury</p>	<p>Elena Newland PT, DPT</p>	<ul style="list-style-type: none"> • Collaborative study with Arcadia Students
<p>Functional Outcome Measures for Head and Neck Patients</p>	<p>Meredith Pauly MA, CCC-SLP Tiffany Hogan MA, CCC-SLP</p>	<ul style="list-style-type: none"> • Collaborative study with Dr. Steven Cannady from the Department of Otorhinolaryngology
<p>The Mutual Journey: Occupational Therapy Practitioners' Meaningful Experiences of Therapeutic Use of Self</p>	<p>Natalia Stroutinsky Sobotka MS, OTR/L Erin Spaniol MS, OTR/L, ATP</p>	<ul style="list-style-type: none"> • Collaborative study with Tamera Keiter Humbert, D.Ed., OTR/L, Associate Professor in the Occupational Therapy Department at Elizabethtown College