

DIVISION OF THERAPY SERVICES

RESEARCH ANNUAL REPORT: FISCAL YEAR 2014

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 2014, research and educational presentations were presented by forty-four therapists at nineteen 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 2014!

Conference Presentations:

Project Title Shoulder Contag of Kontucky 16th Annual Shoulder Symposium. The	Staff Involvement (presenting authors underlined)	Type of Presentation
Shoulder Center of Kentucky 16th Annual Shoulder Symposium, The Rotator Cuff: Do We Really Know What We are Treating?		
July 30-31, 2013; Lexington, Kentucky		
Rehabilitation following Rotator Cuff Repair: Standard vs. Delayed	Brian Leggin PT, DPT, OCS	Education Session
Outcome following Nonoperative Rehabilitation of Rotator Cuff Disease	Brian Leggin PT, DPT, OCS	Education Session
The Mid-Atlantic Shoulder and Elbow Society Meeting		
September 20, 2013; Philadelphia, PA		
The Stiff Unstable Elbow	Laura Walsh MS, OTR/L, CHT	Panel Discussion
Rehab Challenges After Rotator Cuff Surgery	Marty J. Kelley, PT, DPT, OCS	Moderated Panel
		Discussion

World Parkinson Congress		
October 2-4, 2013; Montreal, Canada		
A Novel Approach to Testing Freezing of Gait in Patients with Parkinson's	Heather Cianci PT, MS, GCS	Poster Presentation
Disease: the Clover Test	Joellyn Fox PT, DPT	
Using Timed Tasks to Determine Change after LSVT® BIG Treatment in Three	Heather Cianci PT, MS, GCS	Poster Presentation
Patients with Young Onset Parkinson's Disease	<u>Joellyn Fox PT, DPT</u>	
2013 APTA Educational Leadership Conference		
October 4-6, 2013; Portland, Oregon		
Integrating Management Principles and Skills into a Final Physical Therapy	Nicole Dugan PT, DPT, MSOD, CLT-LANA	Oral Presentation
Clinical Education Experience	<u>Tiffany Prince PT, DPT, OCS</u>	
	Eric Folkins PT, DPT, OCS	
American Society of Shoulder & Elbow Therapists (ASSET) Conference		
October 12-15, 2013; Las Vegas, Nevada		
A Comparison of Range of Motion Strength and Function in Patients with	Brian Leggin PT, DPT, OCS	Oral Presentation
Rotator Cuff Tears with a Healthy Population	Marty J. Kelley PT, DPT, OCS	
	T. Buck, L. Clark, A. Gizzi	
	J. Jablonski, B. Murray	
	M. Niro-Zazworskey	
Long-Term Outcome Following Non-Operative Management of Rotator Cuff	Brian Leggin PT, DPT, OCS	Oral Presentation
Tears	T. Buck, A. Gizzi	
	J. Jablonski, L. Clark, B. Murray	
	M. Niro-Zazworskey	
Outcome Following Non-Operative Management of Rotator Cuff Tears	Brian Leggin PT, DPT, OCS	Oral Presentation
	Marty J. Kelley PT, DPT, OCS	
	T. Buck, L. Clark, A. Gizzi	
	J. Jablonski, B. Murray	
	M. Niro-Zazworskey	
2013 American Academy of Orthopaedic Manual Physical Therapy	·	
(AAOMPT) Annual Conference		
October 16-20, 2013; Cincinnati, Ohio		
Multimodal Treatment of Brachial Plexus Palsy in a Patient with Clavicular	Michael Karl PT, DPT, OCS	Poster Presentation
Fracture		

36 th American Society of Hand Therapy (ASHT) Annual Meeting		
October 24-27, 2013; Chicago, Illinois		
The Use of Mobilizations with Movement (MWM) in a Case Series of Patients	<u>John Bellace PT, CHT</u>	Poster Presentation
Diagnosed with Lateral Epicondylitis (LE)	Jennifer Dekerlegand MPT	
Pennsylvania Physical Therapy Association (PPTA) Conference		
October 24-27, 2013; Seven Springs, Pennsylvania		
Rehabilitation of a Complex Patient with Wallenberg Syndrome	Anne Whiting PT	Poster Presentation
	Kjisten Torkelson OTR/L	
	Presenter: Colleen Chancler PT, MHS	
Outcomes of Patients Receiving Physical Therapy for Temporomandibular	Heather North PT, DPT	Poster Presentation
Joint Disorders (TMD)	Diana Hearn PT, DPT, OCS	
	Cheryl Cocca PT, DPT, OCS	
	Tim Bayruns PT, DPT, OCS	
	Jen Dekerlegand MPT	
Implementation of a Physical Therapy Consult Service for the Emergency	Colleen Chancler PT, MHS	Oral Presentation
Department Observation Unit	Esther Bae MPT, DPT	
	Stacey Solomon MPT	
Physician Referral to Outpatient Physical Therapy for Treatment of Cancer	Jane Oeffner PT, DPT, MBA	Oral Presentation
Related Fatigue (CRF)	Andrea Branas MSE, MPT, CLT	
Acute Care Special Interest Group: "Hospital Acquired Deconditioning: An	Colleen Chancler PT, MHS	Education Session
Evidence Based Review"		
Pennsylvania Occupational Therapy Association (POTA) Conference		
November 8-9, 2013; Pittsburgh, Pennsylvania		
Outcomes in Postoperative Patients with Ventricular Assist Devices	Malachy Clancy MOT, OTR/L	Poster Presentation
Rehabilitation of a Complex Patient with Wallenberg Syndrome	Kjisten Torkelson OTR/L	Poster Presentation
	Anne Whiting PT	
Occupational Therapy Groups in the Chronically Critically III	Deb Diangelo MS, OTR/L	Poster Presentation
Sleep - The Forgotten ADL	Malachy Clancy MOT, OTR/L	Education Session
Beginning the Journey from Clinic to Academia	<u>Lawrence Stevenson MOT, OTR/L</u>	Education Session

American Speech-Language-Hearing (ASHA) Association Convention		
November 14-16, 2013; Chicago, Illinois		
The Science & Practice of Big & Loud: An Interdisciplinary Approach to	Heather Cianci PT, MS, GCS	Education Session
Treating Parkinson's Disease		
Lower Extremity Update 2013		
November 22-23, 2013; Philadelphia, PA		
Hamstring Injuries: Prevention and Rehabilitation	Marty Kelley, PT, DPT, OCS	Education Session
Practical Applications of Lower Extremity Outcome Measures	Brian Leggin PT, DPT, OCS	Education Session
Current Concepts in the Prevention of ACL Injuries	Brian Eckenrode, PT, DPT, OCS	Education Session
Rehabilitation Following Articular Cartilage Procedures		
Rehabilitation of Achilles Tendonitis vs. Tendinosis		
Pathogenesis and Rehabilitation of Ankle Instability	Marisa Pontillo PT, DPT, SCS	Education Session
Anatomy and Biomechanics of the Foot/Ankle Complex	Cheryl Cocca, PT, DPT, OCS	Education Session
Clinical Examination of the Hip and Knee	Molly Dang, PT, DPT, OCS	Workshop
	Holly Jo Harvey, PT, DPT	
	Tiffany Prince, PT, DPT, OCS	
Clinical Examination of the Foot and Ankle	Cheryl Cocca, PT, DPT, OCS	Workshop
	Marisa Pontillo, DPT, SC	
Functional Exercise Progression for Return to Activity	Jeffrey O'Neill, PT, DPT, OCS	Workshop
	Allison Greene, DPT	
	Gina Serago, DPT	
Sports Physical Therapy Section (SPTS) Team Concept Conference		
December 4-8, 2013; Henderson, Nevada		
Examination and Treatment of Scapular Dysfunction	Marisa Pontillo PT, DPT, SCS	Oral session
Upper Extremity Outcome Instruments	Marisa Pontillo PT, DPT, SCS	Oral session
American Physical Therapy Association's Combined Sections Meeting		
February 3-6, 2014; Las Vegas, Nevada		
ABC's of Vestibular Rehabilitation	Betsy Grace Georgelos PT,MS, NCS	Pre-Conference
		Course
From the Playground to the Workplace: Managing Bullying in Healthcare	Jane Oeffner PT, DPT, MBA	Education Session
		Health Policy and
		Administration
		Section

Implementation of a Competency-Based Mentorship Program for Advanced	Joy Cohn, PT, CLT-LANA	Education Session
Lymphedema Practice	Rebecca Golden, PT, CLT-LANA	Oncology Section
	Bryan Spinelli, PT, MS, OCS, CLT	
Shoulder Disorders: ICF-Based Clinical Practice Guidelines	Marty Kelley, PT, DPT, OCS	Education Session
	Joseph Godges, PT, DPT, MA, OCS	Orthopedics Section
	Phillip McClure, PT, PhD, FAPTA	·
	Lori Michener, PT, PhD, ATC	
Rehabilitation Considerations for the Female Athlete	Marisa Pontillo, PT, DPT, SCS	Education Session
		Sports Physical
		Therapy Section
Reliability of a Newly Developed Physical Assessment for Breast Cancer-	Bryan Spinelli PT, MS, OCS, CLT	Platform
Related Lymphedema: LABAT-Lymphedema Assessment of Breast, Arm, and	Joy Cohn PT, CLT-LANA	Presentation
Torso		Oncology Section
Reference Values for the Y Balance Test and Single-Leg Hop for Distance in	Marisa Pontillo, PT, DPT, SCS	Platform
Collegiate Athletes		Presentation
		Sports Physical
		Therapy Section
Outcomes of Patients Receiving Physical Therapy for Temporomandibular	Cheryl Cocca PT, DPT, OCS	Poster Presentation
Joint Disorders	Diana Hearn PT, DPT, OCS	Orthopedics Section
	Timothy Bayruns PT, DPT, OCS	
	Heather North PT, DPT	
	Jen Dekerlegand MPT	
PIPSS: A Portable Instrumented Postural Stability System to Assess Dynamic	Betsy Grace Georgelos PT, MS, NCS	Poster Presentation
Postural Stability		Research Section
A Comparison of the Portable Instrumented Postural Stability System (PIPSS)	Betsy Grace Georgelos PT, MS, NCS	Poster Presentation
to the Balance Error Scoring System (BESS)		Research Section
A Comparison of Two Taping Techniques (Kinesio and McConnell) and Their	Billy Moore PT, DPT	Poster Presentation
Effect on Shoulder Pain in High School Athletes During Functional Activities		Sports Physical
		Therapy Section
Implementation of an Acute Care Physical Therapy Treatment Algorithm in	<u>Bill Pino PT, DPT</u>	Poster Presentation
the Management of Scrotal Edema	Joe Adler PT, DPT, CCS	Acute Care Section
	Jen Dekerlegand MPT	

A Comparison of Range of Motion, Strength, and Function in Patients with	Brian Leggin PT, DPT, OCS	Poster Presentation
Rotator Cuff Tears in a Healthy Population		Orthopedics Section
Outcome following Non-Operative Management of Rotator Cuff Tears	Brian Leggin PT, DPT, OCS	Platform
		Presentation
		Orthopedics Section
Long Term Outcome following Non-Operative Management of Rotator Cuff	Brian Leggin PT, DPT, OCS	Poster Presentation
Tears		Orthopedics Section
Pennsylvania Physical Therapy Association's Southeast District (SED)		
Combined Sections Meeting		
March 22, 2013; Philadelphia, PA		
Temporomandibular Joint Disorder and the Use of Passive Range of Motion	Tim Bayruns, PT, DPT, OCS, CSCS	Poster Presentation
Devices and Their Effectiveness in Treating Trismus in the Head and Neck		
Cancer Population: A Systematic Literature Review		
A Novel Approach to Testing Freezing of Gait in Patients with Parkinson's	Heather Cianci PT, MS, GCS	Poster Presentation
Disease: the Clover Test	<u>Joellyn Fox PT, DPT</u>	
Using Timed Tasks to Determine Change after LSVT® Big Treatment in Three	Heather Cianci PT, MS, GCS	Poster Presentation
Patients with Young Onset Parkinson's Disease	<u>Joellyn Fox PT, DPT</u>	
Outcomes of Patients Receiving Physical Therapy for Temporomandibular	Cheryl Cocca PT, DPT, OCS	Poster Presentation
Joint Disorders		
Is Exclusive Use of the Standardized Position Essential for Accurate and	Wendy McCoy PT, CHT	Poster Presentation
Reliable Goniometric Measurements at the Wrist?	Arcadia Students	
Physician Referral to Outpatient Physical Therapy for Treatment of Cancer	Jane Oeffner PT, DPT, MBA	Poster Presentation
Related Fatigue		
A Medically Complex Patient After Quadruple Amputation: A Case Study	Jane Oeffner PT, DPT, MBA	Poster Presentation
Examining the Provision of Acute Rehabilitation in the Acute Hospital Setting		
Evidence Based Rehabilitation of Rotator Cuff Disease: Non-operative and	Brian Leggin PT, DPT, OCS	Education Session
Post-operative Management		

Philadelphia Hand Rehabilitation Foundation 40 th Symposium: Surgery and Rehabilitation of the Hand with Emphasis on Tendon and Nerve		
March 22-24, 2014; Philadelphia, PA Scapular Nerve Injuries – Examination and Intervention	Marty Kelley, PT, DPT, OCS	Education Session
Assessment and Management of Rotator Cuff Pathology	Marty Kelley, PT, DPT, OCS	Education Session
	Brian Leggin PT, DPT, OCS	
Clinical Examination of the Shoulder	Marty Kelley, PT, DPT, OCS	Education Session
	Brian Leggin PT, DPT, OCS	
American Occupational Therapy Associations Annual Conference and Expo		
April 3-6, 2014; Baltimore, Maryland		
Sleep: The Forgotten ADL	Malachy Clancy MOT, OTR/L	Education Session
Acute Care Occupational Therapy Intervention for Patients with Mechanical	Malachy Clancy MOT, OTR/L	Poster Presentation
Circulatory Device Support		
An Interdisciplinary Oncology Group for Hospitalized Patients	Meredith McElroy MOT, OTR/L	Poster Presentation
	<u>Laura Schaffner MS, OTR/L</u>	
Acute Care Assessment of Cognition in the Oncology Population	Marisa Hart MS, OTR/L	Poster Presentation
	Laura Schaffner MS, OTR/L	
National Association of Long Term Hospitals (NALTH) Annual Meeting		
May 1-2, 2014; Washington, DC		
Nasendoscopy for Swallowing and Airway Management in the Long Term	Randy Dubin MA,CCC-SLP	Poster Presentation
Acute Care Hospital (LTACH) Setting	Michael Grippi, MD	
Mediware Rehabilitation Annual Conference		
June 9-12, 2014; Scottsdale, Arizona		
Custom Medilinks Outcome Report to Improve Efficiency and Accuracy of	Chris Kauffman MSPT	Oral Presentation
Clinical Outcome Measure Reporting		
MediLinks-Epic interface for Charting	Chris Kauffman MSPT Webinar	
Brain Injury Association of Pennsylvania (BIAPA) Conference		
June 15-17, 2014; Lancaster, PA		
A Case Series Comparing Pusher and Wallenberg Syndrome Outcomes	Carol Wamsley PT, DPT, BS	Poster Presentation

Publications:

Peer Reviewed:

- 1. <u>Kelley MJ</u>, Shaffer MA, Kuhn JE, Michener LA, Seitz AL, Uhl TL, Godges JJ, McClure P. Response. *J Orthop Sports Phys Ther*. 2013 Dec;43(12):934-6.
- 2. <u>Kelley MJ</u>, Shaffer MA, Kuhn JE, Michener LA, Seitz AL, Uhl TL, Godges JJ, McClure PW. Shoulder pain and mobility deficits: adhesive capsulitis. *J Orthop Sports Phys Ther*. 2013 May;43(5):A1-31.
- 3. <u>Severance G</u>, <u>Walsh L</u>. Rehabilitation following bilateral forearm transplantation in the quadrimembral patient: review and recommendations. *Techniques in Hand and Upper Extremity Surgery*. 2013 Dec;17(4):215-20.
- 4. Pontillo M., Spinelli BA, Sennett BJ. Prediction of In-Season Shoulder Injury from Preseason Testing in Division I Collegiate Football Players. *Sports Health: A Multidisciplinary Approach*. Epub March 7, 2014.
- 5. Bunting-Perry L, Spindler M, Robinson K, Noorigian J, <u>Cianci H</u>, Duda J. Laser light visual cueing for freezing of gait in Parkinson disease: A pilot study with male participants. *Journal of Rehabilitation Research Development*. 2013. 50(2): 223-30.
- 6. Heather Cianci, PT, MS, GCS contributed to the publication: van der Marck MA, et al., Consensus-based clinical practice recommendations for the examination and management of falls in patients with Parkinson's disease. *Parkinsonism and Related Disorders*. (2014) April;20(4):360-9.
- 7. GSPP was acknowledged in the following publication: Chen L, Mao J, Fernandes S, Galantino ML, Wensheng G, LaRiccia P, Teal V, Bowman A, Schumacher R, Farrar J. Integrating Acupuncture with Exercise-Based Physical Therapy for Knee Osteoarthritis: A Randomized Controlled Trial. *Journal of Clinical Rheumatology*. 2013 Sep;19(6):308-16.

Textbooks:

<u>Kelley, MJ</u>, <u>Leggin, BG</u>, Basti, JJ. Shoulder Rehabilitation Chapter found in Textbook of Hand and Upper Extremity Surgery. Weiss, AC, Goldfarb, CA, Hentz, VR, Raven, RB, Slutsky, DJ, and Steinmann, SP (eds). The American Society for Surgery of the Hand, Chicago, IL, 2013.

<u>Pontillo M</u>, <u>Eckenrode BJ</u>. Contributing authors. Meniscal Surgery: Management and Techniques. "Rehabilitation after meniscal repair". Springer, 2013.

Other Publications:

<u>Chancler C.</u>, <u>McDevitt M.</u> Reviewers for the article "Class III Obese Patients: The Effect of Gait and Immobility on Patient Falls" as published in the September 2013 Pennsylvania Patient Safety Advisory.

<u>Pontillo M</u>. Contributing author: The Female Athlete. "Management of Upper Extremity Dysfunction in the Female Athlete". SPTS Home Study Course: Published 2014.

Fox J. Therapy Tip of the Day: The Importance of Family and Friends. Penn Transmitter Fall 2013.

Awards, Honors and Recognition:

Title of Award	Staff Name	Project Title
Pennsylvania Physical Therapy Association	Jane Oeffner PT, DPT, MBA	The Pennsylvania Physical Therapy Association Acute Care
(PPTA) Acute Care SIG Award		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.
Selected to represent Association of Society	Brian Leggin PT, DPT, OCS	Selected as one of two Physical Therapists representing the
of Shoulder & Elbow Therapists (ASSET) on		Association of Society of Shoulder & Elbow Therapists (ASSET)
the American Academy of Orthopaedic		on the interdisciplinary writing panel for rotator cuff tears.
Surgeons: Appropriate Use Criteria on		This panel created and published "appropriate use criteria
Optimizing the Management of Full-		(AUC)" to assist orthopedic surgeons on the operative/non-
Thickness Rotator Cuff Tears writing panel		operative management of patients with rotator cuff tears.
World Parkinson Conference (WPC) special	Heather Cianci PT, MS, GCS	The WPC Program Committee invited selected authors to
invitation for Poster Tour	Joellyn Fox PT, DPT	participate in the organized Posters Tours at the conference.
		Only 25% of the abstracts submissions were selected for
		Poster Tours.
Honorable Mention for the National	Randy Dubin MA,CCC-SLP	Received an Honorable Mention and qualified for poster
Association of Long Term Hospital's 2014		display at the 2014 National Association of Long Term
Goldberg Award		Hospital's Conference.
Selected as member of the National	Heather Cianci PT, MS, GCS	Co-authored a publication providing consensus-based clinical
Parkinson's Foundation Fall Task Force		practice recommendations for the examination and
		management of falls in Parkinson's Disease.
Selected to co-present the first joint venture	Marty Kelley, PT, DPT, OCS	Presented a summary of his recent manuscript titled,
webinar organized by the Journal of		"Shoulder pain and mobility deficits: adhesive capsulitis" with
Orthopedic and Sports Physical Therapy		over 1,900 participants attending the seminar.
(JOSPT) and the Journal of Bone and Joint		
Surgery (JBJS)		

Collaborative Projects:

<u>Project Title</u>	Staff Involved	Role in Project
Lung Transplant Body Composition Study	Laura Friedman PT	Assisting with data collection
A Randomized Multicenter Trial Comparing Sirolimus plus Prednisone, Sirolimus Extracorporeal Photopheresis plus Prednisone, and Sirolimus/Calcineurin Inhibitor plus Prednisone for the Treatment of Graft-versus-Host Disease	Andrea Branas, MSE, MPT, CLT	Assisting the Penn Medicine Bone Marrow Transplant team with data collection
WISER Survivor Study	Bryan Spinelli, PT, MS, OCS, CLT Joy Cohn, PT, CLT-LANA	 Collaborative project with Katie Schmitz (Principal Investigator), Associate Professor in the Department of Biostatistics and Epidemiology, University of Pennsylvania Bryan Spinelli serving a Co- Investigator on the study
Validity of Clinical Assessments of Resting Scapular Alignment and	Marisa Pontillo PT, DPT, SCS	Collaborative study with Dr. Dave
Scapulothoracic Movement Patterns	Bryan Spinelli, PT, MS, OCS, CLT	Ebaugh, Drexel University
The Relationship Between Core Stability and Shoulder Injuries in Athletes	Marisa Pontillo PT, DPT, SCS	Collaborative study with Drexel University
The Effect of Breast Cancer Treatment on Shoulder Complex Motion and Coordination	Bryan Spinelli, PT, MS, OCS, CLT	Collaborative study with Dr. Dave Ebaugh, Drexel University
The Effect of Positioning on Goniometric Measurements	Wendy McCoy PT, CHT	Collaborative study with Arcadia Students
Decision Support Study	Jen Dekerlegand MPT	Paid expert assisting Dr. Kathy Bowles from the Penn School of Nursing to review patient cases
Thera-Drive	Carol Wamsley, PT, DPT Aaron Thrush, PT, DPT, MHS	Collaborative study with Dr. Michelle Johnson, Associate Professor in the Department of Rehab Medicine at the University of Pennsylvania

Developing Geriatric Resource Nurse-Led Interprofessional Collaborative Practice	Colleen Chancler PT, MHS	Consultant for funded nursing study at the Hospital of the University of Pennsylvania
A Quality Improvement Project Exploring the Use of the Functional Status Score Intensive Care Unit (FSS-ICU) in a Level 1 Trauma ICU	Joe Adler PT, DPT, CCS Jen Dekerlegand MPT	Collaborative study with Arcadia Students
ASPIRE Study	Elsa Amaral, PT Sarah Martyn PT, DPT	Assisting the Hemophilia Team collect functional outcomes data
Systematic Review Spinal Cord Injury	Elena Newland PT, DPT	Collaborative study with Arcadia Students
Functional Outcome Measures for Head and Neck Patients	Meredith Pauly MA, CCC-SLP Tiffany Hogan MA, CCC-SLP	Collaborative study with Dr. Steven Cannady from the Department of Otorhinolaryngology