2018 OPTA ANNUAL CONFERENCE

FRIDAY, APRIL 13, 2018

MORNING SESSIONS

Panel Presentation
• Movement and Technology

Breakout Sessions with Panelists
• PLAAY on the Move: Use of Low-Cost Technology as Adaptive Equipment to Promote Pediatric Participation in the Community
• The Physical Therapist’s Role in Assessment for Ankle Foot Orthoses - 3D Point of View
• Technology for Gait and Balance Assessment and Interventions in Elderly and Neurologic Populations
• Current Technology in Sports Medicine: Lessons Learned from Elite Athletics

AFTERNOON SESSIONS

Part I
• Clinical Examination and Differential Diagnosis of the Patient with Vertigo
• As the World Gets Smaller, Do Ethical Dilemmas Get Bigger?
• Creating a Clinician-Driven Quality and Outcomes Program in a Hospital-Based Outpatient Physical Therapy Department
• Using Technology in Physical Therapy Education
• Current Concepts in Lower Extremity Prosthetic Technology

Part II
• What Are the Preferred Methods to Teach Orthopedic Psychomotor Skills in an Online Format? Implications for Students, Educators, Clinicians and Patients
• Use of Ultrasound Imaging to Enhance Management of Gluteal Tendinopathy
• ACTIVE: Utilizing Video Game Technology to Quantify Function and Measure Change Across the Lifespan
• Use of 6 Clicks to Provide Decision Support in the Hospital Setting
MORNING SESSIONS

Keynote Speaker

- Clinical Value of Standardization and How It Leads to Quality Improvements, Bringing Big Data to a Small Actionable Space

Breakout Sessions

- Video Analysis for Even the Smallest Clinics
- Using Collaborative Undergraduate Student Research to Develop Novel Harnessed Mobility and Balance Training Opportunities
- Leveraging and Demonstrating the Value of Physical Therapy with Modern Marketing: A Clinical and Business Perspective
- Neurological Rehabilitation Using Computer Assisted Rehabilitation Environment (CAREN)

AFTERNOON SESSIONS

Membership Recognition Meeting & Luncheon

APTA Special Guest Speaker
Panel Presentation // Movement and Technology

FRIDAY, APRIL 13 // 9 -10:30 a.m.

Physical therapy professionals incorporate technology in patient-centered practice to promote movement, mobility, and independence across the lifespan. This panel presentation will be moderated by Stephanie Di Stasi, PT, PhD, an expert in sports and orthopaedic applications of three-dimensional motion analysis techniques, and will feature speakers who will discuss their research and clinical experience with respect to movement and technology. A brief individual talk will be given by each panelist: PLAAY On The Move For Children with Madalynn Wendland, PT, DPT, PCS, ATP, CKTP/CKTF; Incorporation Of Technology For Gait And Balance with Deb Kegelmeyer, PT, DPT, MS, GCS; Assessment for Ankle Foot Orthoses - A 3D Point of View with Jennifaye Brown, PT, PhD, NCS; and Current Technology in Sports Medicine with Phil Anloague, PT, DHSc, OCS, MTC. This will be followed by a roundtable discussion of approaches, benefits, and challenges associated with the integration of technology in physical therapy practice. Attendees will have the opportunity to join the discussion with a question and answer session.

LEARNING OBJECTIVES

1) Understand how physical therapy professionals incorporate technology in practice to promote movement, mobility, and independence across the lifespan
2) Appreciate various speaker identified modes of technology and their application in physical therapist practice
3) Discuss the barriers and facilitators of integrating technology in physical therapist practice

Breakout Session // PLAAY on the Move: Use of Low-Cost Technology as Adaptive Equipment to Promote Pediatric Participation in the Community

FRIDAY, APRIL 13 // 10:45 a.m. –12:15 p.m.

PLAAY on the Move is an initiative that promotes independence, mobility, and access for young children with mobility and sensory impairments within the community setting. Through collaborative efforts of clinicians and community partners, barriers that once limited a child’s participation has been minimized through the provision of low-cost technologies. PLAAY on the Move is not intended to provide traditional therapeutic services but instead provide a play/leisure experience while promoting fun, freedom, fulfillment, and friendship for children of all ability levels. Research in early child development research has shown that independent mobility is linked to cognitive, social, motor, language and social-emotional development. From 6 months to 3 years of age, typically developing children move toward people or things that capture their interest, learning from their environment and forming important neurological pathways. However, up to 9% of children under the age of 16 present with motor impairments that significantly restrict their abilities to participate in play and leisure activities. This lack of participation can hinder a child’s ability to develop social and physical competencies and can negatively impact a child’s quality of life. However, through thoughtful collaboration with community partners, a potential exists to minimize environmental barriers through the provision of low-cost technology to augment a child’s underlying physical capabilities and subsequently optimize participation in play and leisure activities that are appropriate for his/her age. The PLAAY on the Move initiative intends to expose children of all ability levels to new, engaging, and enriching activities in the community that naturally foster development across multiple domains.

LEARNING OBJECTIVES:

1. Differentiate between direct and indirect predictors of participation
2. Review community-based programs that promote participation for children with sensory and mobility impairments
3. Understand current trends regarding participation and strategies to implement a program within your local community
4. Demonstrate the value added by integrating health professional students from multiple disciplines after establishing a community partnership
5. Discuss case specific examples of children using portable, low-cost technology as adaptive equipment during a community-based event

Madalynn Wendland, PT, DPT, PCS, ATP, CKTP/CKTF
Anne Kloos, PT, PhD
Deb Kegelmeyer, PT, DPT, MS, GCS
Phil Anloague, PT, DHSc, OCS, MTC
Jennifaye Brown, PT, PhD, NCS

Madalynn Wendland, PT, DPT, PCS, ATP, CKTP/CKTF
FRIDAY, APRIL 13 // 10:45 a.m. -12:15 p.m.

There is a paucity of practice and evidence-based research demonstrating the role of the physical therapist (PT) in the assessment for an ankle foot orthosis (AFO). In the advent of technology that can fabricate AFOs using scanning mechanisms and computer interfaces to generate a custom brace via 3D printing, it would be of benefit to the PT to devise a comprehensive evaluation that is patient-centered and collaborative in nature with the orthotist. This assessment process is fundamental whether 3D technology will be used or not, but is often lacking in current practice. 3D printing technology will warrant changes that are devoid of casting and will provide for vast opportunities in activity engagement due to the potential to wear various footwear beyond the typical “Velcro sneaker, a half size larger and wider” to accommodate the AFO. This session will review components of a physical therapy AFO assessment as presented in the literature and provide evidence of what should be included, deleted or modified based patient impairments, social determinants of health and the presenter’s experiences in AFO fabrication.

LEARNING OBJECTIVES

1) Explain the components that comprise a patient-focused examination for an AFO
2) Justify optimal positioning for the lower extremity (LE) assessment based on impairments and LE function during specific gait phases
3) Validate choice of questions and objective measures used to assess for the need of an AFO
4) Evaluate the results of the subjective exam and outcome measures to recommend an AFO
5) Develop and modify the subjective component and objective assessment skills needed to complete an AFO examination via a case study
Breakout Session // Current Technology in Sports Medicine: Lessons Learned from Elite Athletics

FRIDAY, APRIL 13 // 10:45 a.m. -12:15 p.m.

“Current Technology in Sports Medicine: Lessons Learned from Elite Athletics”, presents an integrated & evidence based approach to the value and utility of current technology in the treatment of athletes from the elite to amateur levels. A practical and case based approach, informed by lessons learned from elite athletics, will be presented regarding the use and application of blood flow restriction training, bone healing systems, pneumatic compression, and other technologies. The format of this session will include lecture, lab demonstration, and discussion.

LEARNING OBJECTIVES

1. The learner will be able to summarize the theoretical background, key terms, concepts, and tools associated with blood flow restriction training, bone healing systems, pneumatic compression, and select technologies.
2. The learner will be able to explain the physiological principles that provide the basis for the utilization of blood flow restriction training, bone healing systems, pneumatic compression, and select technologies in the treatment of the athletic population.
3. The learner will be able to determine the value of current research and how this evidence informs clinical practice and decision making.
4. The learner will be able to appreciate the application of various medical technologies and their protocols through participation and/or observation of select lab activities.
5. The learner will be able to discern the pros, cons, indications, precautions, and contra-indications related to the use of blood flow restriction training, bone healing systems, pneumatic compression, and select technologies.
6. distinguish the benefits of a multimodal approach to physical therapy practice that includes typical interventions and the use of medical technology

Andrew Wagner, PT, DPT, NCS
Jennifer Williams, PT, DPT, NCS
Phil Anloague, PT, DHSc, OCS, MTC

Breakout Session // Clinical Examination and Differential Diagnosis of the Patient with Vertigo

FRIDAY, APRIL 13 // 1:15 - 2:45 p.m.

This presentation will provide information on the examination of patients with complaints of dizziness and will center around the differential diagnosis based on examination findings. The use of video frenzel goggles can improve the quality of care by allowing more accurate assessment of the patient with dizziness. Accurate initial diagnosis can more appropriately direct treatment of the patient leading to better and more timely outcomes.

LEARNING OBJECTIVES

1. The learner will integrate basic examination principles into their clinical practice at the end of this lecture to accurately diagnosis the vertiginous patient.
2. The learner will compare common vestibular diagnoses at the end of this lecture with 80% accuracy.
3. The learner will demonstrate understanding of the clinical examination including the use of video frenzel goggles with 80% accuracy.
Breakout Session // As the World Gets Smaller, Do Ethical Dilemmas Get Bigger?

FRIDAY, APRIL 13 // 1:15 - 2:45 p.m.

Evolving clinical and communication technologies have created new cultural demands that have caused the world to become more relatable in a smaller way. With this smaller world, new ethical dilemmas have developed related to confidentiality, privacy, security and consent.

This course will explore how these ethical dilemmas relate to telehealth, the electronic record and social networking. We will discuss how to maintain professional boundaries and work/life balance in this age of technology providing the ability for constant contact with work and our patients. We expect lively discussion on the ethics of following a patient through their electronic medical record. This course will be an interactive session of lecture with group participation of scenarios and questions interspersed throughout the session.

LEARNING OBJECTIVES

1. The learner will be able to articulate the proper boundaries when using social networking professionally and personally 75% of the time by the end of the session.
2. The learner will be able to demonstrate when returning to clinical site proper access to the electronic medical record 75% of the time.
3. The learner will be able to consider the ethics of new technologies and how to solve ethical dilemmas at the end of the session 80% of the time.

Breakout Session // Creating a Clinician-Driven Quality and Outcomes Program in a Hospital-Based Outpatient Physical Therapy Department

FRIDAY, APRIL 13 // 1:15 - 2:45 p.m.

This presentation will provide a framework to design and implement a high-performing quality and outcomes program within a physical therapy department. The framework includes a grassroots effort to develop a quality and outcomes program, implement process changes to documentation, practice, and behavior, and study the impacts of these changes. Technology’s role will be described; specifically, this presentation will describe leveraging customized electronic medical record (EMR) platforms, automated compliance and audit reports, hardware for patient interfacing, and software for clinician and patient education.

We will describe how technology assists the development, implementation, and measurement of quality and outcomes and optimizes consistency, efficiency, and the customer experience. When planning and developing a quality and outcomes program, technology improves automation, efficiency, and consistency of documentation and care. Ways EMR data can contribute to collaborations with researchers to improve patient care will also be described. This demonstrates the value of care since technology provides data to inform decisions about future reimbursement and care delivery models. These innovative models can be studied and implemented as part of robust quality and outcomes programs within physical therapy departments. Furthermore, data from quality and outcomes programs help the physical therapy profession.

LEARNING OBJECTIVES

1. Outline the steps to create a robust department-run quality and outcomes program.
2. Define the metrics to implement a successful quality and outcomes program.
3. Describe how to utilize and leverage technology to measure success of the program.
4. Cite examples of positive quality and outcomes program results.
5. Design methods to leverage technology in the development and analysis of a quality and outcomes program.
Breakout Session // Current Concepts in Lower Extremity Prosthetic Technology

FRIDAY, APRIL 13 // 1:15 - 2:45 p.m.

Physical therapy professionals work with individuals with amputations throughout the continuum of care and understanding prosthetic technology is an important part of physical therapy practice. This presentation will focus on current concepts in lower extremity (LE) prosthetic technology. Topics to be covered include types and functioning of prosthetic feet, prosthetic socket designs, prosthetic knees including microprocessor knees, hip disarticulation, and hemipelvectomy prosthetics. The role of the physical therapy professional, importance and overview of the Medicare Functional Classification K-Level system (MFCL), and self-reported and functional performance measures that have been validated or designed for the amputee patient population will also be covered.

LEARNING OBJECTIVES

1) 1. Understand the Medicare Functional Classification K-Level system (MFCL).
2) 2. Gain familiarity with current concepts in LE prosthetic technology and devices for application in physical therapy practice.
3) 3. Be able to apply current evidence-based functional performance measures for LE amputee population.

Erin
Hofmeyer, PT, DPT, GCS, ADCE

Lisa Dehner, PT, PhD, CEEAA

Rene
Thomas, PT, DPT, CLTLANA

Jim Scharf, PTA
FRIDAY, APRIL 13 // 3:00 - 4:30 p.m.

This session will aim at addressing how the use of ultrasound imaging, performed by physical therapists, can enhance the rehabilitation process, demonstrating higher quality care and innovative blends of technology and research. This course will review current research related to management of gluteal tendinopathies, but will integrate real time ultrasound imaging to enhance exercise prescription. The sonograph can be used for observing contraction during exercises, but also primarily differentiating bursitis vs insertional tendinopathy.

LEARNING OBJECTIVES
1. Attendees will be able to recall current literature on gluteal tendinopathy management by the end of the presentation
2. Appreciate the added value rehabilitative ultrasound imaging can bring to the physical therapy profession by the end of the presentation
3. Integrate current exercises recommended in the literature with information seen during ultrasound imaging to improve exercise dosage and selection, by the end of the lab session.

Kerry Volansky, PT, DSC, MBA, OCS
Philip Toal, PT, DPT, OCS, C-OMPT, FAAOMPT
Deepak Sebastian, PT, DPT, DO, ND, PhD, OCS, FAAOMPT
Breakout Session // ACTIVE: Utilizing Video Game Technology to Quantify Function

**FRIDAY, APRIL 13 // 3:00 - 4:30 p.m.**

Our research team at Nationwide Children's Hospital recognized an unmet need for clinical outcomes that could accurately assess function on a continuous scale across the lifespan. The Abilities Captured Through Interactive Video Evaluation (ACTIVE) system was developed as an innovative solution merging video-game technology and physical therapy. ACTIVE measures functional workspace, requiring coordination of arm and trunk strength, range of motion, and balance components, while the participant plays a video game using the Microsoft Kinect camera. Results indicate this tool can differentiate controls from both ambulatory and non-ambulatory cohorts across disease groups. Additionally, ACTIVE-mini was designed, using the same system, to assess infant movement. A machine learning algorithm processes depth and color tracking of hands and feet to both differentiate typical and atypical infant movements and quantify change in movement characteristics.

This presentation describes the collaborative development process of the ACTIVE system, its validation in several neuromuscular populations, and implementation of this type of technology in both the clinical and research settings. Additionally, discussion of the ACTIVE system progression through the FDA Clinical Outcomes Assessment Qualification program will be provided. The learner will also participate in a lab portion that includes a hands-on demonstration of ACTIVE.

**LEARNING OBJECTIVES**

1. Provide at least one example of a feasible application of this type of outcome technology to PT practice in a clinical or research setting.
2. Correctly explain how integrating technology into physical therapy practice advances the field and fosters interdisciplinary collaboration.
3. Accurately summarize the process of relating ACTIVE scores to clinically meaningful functional outcomes.
4. Describe the steps associated with the FDA Clinical Outcome Assessment Qualification Program.

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Breakout Session // Use of 6 Clicks to Provide Decision Support in the Hospital Setting

**FRIDAY, APRIL 13 // 3:00 - 4:30 p.m.**

Health care reform has reinforced the need for use of standardized data collection and analysis to drive value and efficiency. The need for innovation continues to present an opportunity to overcome the long-standing challenges related to effective throughput and transitioning care from the acute to post-acute care setting. Physical therapists are positioned to be change agents by utilizing consistent and standardized outcome data to provide reliable information to the interdisciplinary team in determining discharge disposition. Additional opportunity lies in partnering with post-acute facilities and payers to provide reliable data without extension in length of stay and unnecessary updates to information in the throughput process.

This session will provide information and examples on how the systematic collection of standardize outcome data can be utilized to partner with post-acute care providers and payers to drive efficiency to the hospital to post-acute transition of care. The presentation will demonstrate how one health system demonstrated the value of data to drive cost savings and innovation in discharging patients to community skilled nursing facilities. Practical tools and strategies will be shared to guide others in the implementation of initiatives in their own practices.

**LEARNING OBJECTIVES**

1. Examine specific strategies to leverage systematic standardized outcome data collection to drive acute care throughput.
2. Discuss strategies to initiate, conduct, and evaluate Physical Therapy outcome data to drive meaningful change, efficiency and value.
3. Detail practical tools and strategies to promote analysis and communication of data trends to maximize culture change.
4. Discuss practical strategies to measure implementation success.
Breakout Session // Video Analysis for Even the Smallest Clinics

SATURDAY, APRIL 14 // 9 - 11:15 a.m.

The vision of the American Physical Therapy Association is the following: Transforming Society by Optimizing Movement to Improve the Human Experience. Through the use of camera/video and computer or phone applications physical therapists can leverage this technology to improve patient outcomes and demonstrate change in patient’s gait, running, squats, lifts, and other specific tasks.

Using video recordings and applications for movement analysis can both display value and help strengthen our identity as movement experts. By visually demonstrating to the patient where they can improve in specific movements and then sending a package home with them we can improve outcomes and patient perceived value of our physical therapy practices. We believe this presentation fits the theme of the OPTA Annual Conference and is in line the vision of the APTA. By utilizing technology, we can optimize movement to improve the human experience.

LEARNING OBJECTIVES
1. The learner will demonstrate the ability to set up and use a simple but effective video analysis tool on their phones.
2. The learner will exhibit the ability to teach others in the clinic in the set up and use of a video analysis tool.
3. The learner will display knowledge on the use of different video tools that are easy to use in the clinic.
4. The learner will be able to produce evidence to those who ask on the efficacy of video analysis.

Debbie Espy, PT, PhD
Zaki Afzal, PT, DPT, OCS, CSCS
Cody Mansfield, PT, DPT, AT, OCS, FAAOMPT
Audrey Balaska & Gabrielle Whittle

Breakout Session // Using Collaborative Undergraduate Student Research to Develop

SATURDAY, APRIL 14 // 9 - 11:15 a.m.

Our presentation will describe work we did, partially through an NSF program, that funded 4 undergraduate Engineering students for rehab technology projects in our lab. They worked with PT faculty, pre-DPT and DPT students to design technologies for older adults and those with balance and mobility needs. We will describe the technology and its application in research, clinical practice, and community outreach, as well as the interprofessional education model used for the project. The 4 engineering students will present their piece of the overall technology development and implementation. They will also present ideas for effective collaboration with engineering or technology professionals.

The balance and harness technology developed through these projects is an innovation to practice because it allows research into higher intensity clinical balance interventions, and was necessary for the development of portable and much lower cost, community based systems. The portable and cheaper monitoring and harness systems, in this case in a community greenhouse/urban-garden, apply this technology for community involvement/outreach as well as for equity and cost-effectiveness. Further, the model of PT and Engineering students collaborating to design and assess new rehab technologies produced significant and important learning for each group about effective collaboration and for the Engineering students especially, experience in a client centered focus in technology development.

LEARNING OBJECTIVES
1. Identify potential advantages to harnessed mobility and balance training, including various levels of technology or mechanization, over non-harnessed protocols
2. Identify advantages and methods to increase intensity component of balance training activities
3. Describe the considerations in developing the most appropriate harness supports and protocols based on user abilities and behaviors in balance and mobility training at various intensities.
4. Recognize ways in which collaboration with Engineering based professions for device and protocol development might benefit PT patients/clients and clinicians.
5. Be able to identify aspects of undergraduate collaborations between pre-DPT and Engineering students that influence each to the overall benefit of patient/client or
**Breakout Session // Leveraging and Demonstrating the Value of Physical Therapy with Modern Marketing: A Clinical and Business**

**SATURDAY, APRIL 14 // 9 - 11:15 a.m.**

As physical therapists, we understand the importance of what we do and understand the value of what help we can provide to other people. As our role has grown in healthcare, we have observed that there has not been a reciprocal growth in the understanding of who we are and what we do in society as a whole. Changing the perception of the people we serve is our responsibility as a profession.

During this presentation, we will discuss the importance of developing and utilizing a “customer value strategy” framework both at the micro and macro-organizational levels. The core component of story-telling as a way of marketing and branding will be discussed, highlighting the value of teaching individuals how to craft a story that will be of benefit to them, their organizations, and most importantly the profession. We will also highlight the role leveraging of various social and informational technologies to help cultivate the who/why/what narratives that align with our profession’s desired identity.

**LEARNING OBJECTIVES**

1. Be equipped with a better understanding of the importance of proactive marketing and advocacy at both the individual and organizational levels of the profession
2. Utilize the strategies and tools presented to better market and advocate for the profession on a daily basis.
3. Have developed a customer value strategy that they can articulate within their organization to improve PT relationship with the community

**Breakout Session // Neurological Rehabilitation Using Computer Assisted Rehabilitation**

**SATURDAY, APRIL 14 // 9 - 11:15 a.m.**

The Computer Assisted Rehabilitation Environment (CAREN) is a versatile, multi-sensory system that combines a moveable platform including split and dual belt treadmill with a virtual reality environment. The CARE Environment is unique in the world and is being used in the military and only a few other institutions such as the Cleveland Clinic.

This presentation will focus on the use of this technology in neurological rehabilitation to promote the concepts of neuroplasticity and participation. The CAREN system allows therapists to progressively challenge patients under engaging and fun dual task conditions while providing visual, auditory, vestibular and tactile sensory inputs. Case studies will be presented for individuals with Stroke, Multiple Sclerosis and Parkinson’s disease highlighting the use the CAREN system as a physical therapy intervention during active rehabilitation in a hospital based outpatient setting.

**LEARNING OBJECTIVES**

1. Provide an overview of the Computer Assisted Rehabilitation Environment (CARE) system
2. Discuss use of this technology as it relates to neuroplasticity and participation.
3. Review the literature related to CARE including virtual reality in neurological rehabilitation.
4. Review clinical applications of CARE in neurological rehabilitation.
5. Discuss the pros and cons of CARE technology related to neurological rehabilitation.

**CLICK FOR PRESENTER BIO**

Daniel Chelette, PT, DPT, OCS, CSCS
Lucas VanEtten, PT, DPT, OCS
Marcus Williams, PT, DPT, MBA
Kathy Szimony, PT, DPT
Zaki is a physical therapist at Ohio State Sports Medicine and a board-certified specialist in orthopaedic physical therapy. Zaki received his Doctor of Physical Therapy degree from Touro University Nevada in 2015. He is residency trained in orthopaedics and has now taken on the role of adjunct faculty for the OSU Orthopedic Residency. Zaki will be beginning the Orthopaedic Manual Physical Therapy Fellowship at OSU in January 2018. He has given lectures in the OSU Orthopedic Residency, to his PT Alma mater, and at a Michigan Physical Therapy Association conference.

Lindsay a co-inventor of the ACTIVE system, designed to evaluate movement in persons with neuromuscular disease across the spectrum of abilities. She specializes in the care and evaluation of patients and expertise in outcome measure development, evaluation, and administration. As a research physical therapist at Nationwide Children’s Hospital she has experience in the design and ongoing analysis of several clinical trials analyzing and measuring outcomes in children and adults with neuromuscular disease. She has presented nationally and internationally on outcome measure study findings and is part of an international consortium providing training of outcome measures for multisite clinical trials. Her research focuses on ongoing evaluation and development of assessment tools to measure both cross-sectional and longitudinal differences in movement ability while minimizing the burden of testing in patients with progressive neuromuscular diseases.

Phil earned his Doctoral of Health Science Degree from the University of St. Augustine, his Masters degree in Physical Therapy at Andrews University, and his bachelor’s degree in Psychology from Cleveland State University where he also minored in Athletic Training and Gerontology. He is a board Certified Orthopaedic Specialist, a Certified Manual Therapist, and is a certified provider for Blood Flow Restriction and the Functional Movement Screen. Dr. Anloague Chairs the Department of Physical Therapy and is the Director of the Doctor of Physical Therapy Program. He teaches in the areas of Advanced Orthopaedics, Sports Medicine, and Gross Anatomy. His doctoral work investigated “Anatomical Variations of the Lumbar Plexus: A Descriptive Anatomy Study with Proposed Clinical Implications” and he conducted focused study via Michigan State University’s Osteopathic medical program on the spine and manual therapy. Dr. Anloague is the owner and CEO of Orion Physical Therapy Specialists where he maintains clinical practice in the outpatient orthopaedic setting working primarily with professional and elite athletes. Dr. Anloague serves as a consultant to University of Dayton Athletics and other professional sports organizations. He is a research and clinical consultant to four National Basketball Association teams including the Oklahoma City Thunder, the Indiana Pacers, Denver Nuggets, and Philadelphia Seventy Sixers.

Jennifaye has a BA-Psychology (Emory University), a MS- Physical Therapy (University of Miami-FL) and a PhD-Exercise Science (University of South Carolina). Dr. Brown has 28 years of clinical experience focused in neurorehabilitation across the continuum of care and has presented numerous continuing education courses on adult neurologic assessment and treatment intervention for acquired brain injury. Dr. Brown’s special interests and extensive clinical background include gait analysis and training and AFO fabrication. Her approach to effective gait analysis and treatment is to know the lesion site, understand neuroanatomical functions and along with past medical history, environmental, psychosocial and cultural factors, determine prognosis and devise realistic goals reflective of the client and caregiver’s lived experiences. She is the creative force behind the Stroke Gait Center, which is a collaborative effort to partner with healthcare professionals to fabricate AFOs (specializing in accommodating ladies’ footwear) utilizing 3D printing based on a full spectrum gait-related physical therapy evaluation. Her current research agenda explores the perceptions and opinions of individuals with stroke regarding their experiences with AFO fabrication, modification and maintenance. Dr. Brown is currently an Assistant Clinical Professor at Ohio University in the Physical Therapy Program.
Daniel is the current Orthopedic Manual Therapy Fellow in Training at the Ohio State University. He graduated from Duke University with his Doctorate of Physical Therapy in 2015. He is also a graduate of the Ohio State University Orthopedic Residency Program. In his time as a resident and fellow, Daniel has developed patients evaluating and treating the complex orthopedic patient, peer to peer mentorship, and advancing the physical therapy profession through excellence, expert practice, and collaborative care.

Lisa is a Professor in the Doctor of Physical Therapy Program at Mount St. Joseph University. Dr. Dehner earned her B.S. in Physical Therapy from Northeastern University, Ph.D. in Neurobiology from Virginia Commonwealth University/Medical College of Virginia. She is a Professor of Physical Therapy teaching pathophysiology, pharmacology, neuroscience, basic patient care skills, and geriatric evaluation and treatment in the Doctor of Physical Therapy curriculum. Although she began her career in outpatient orthopedics, she now devotes her clinical time to evaluating and treating older adults in long-term care settings and is a Certified Exercise Expert in Aging Adults (CEEEAA). Dr. Dehner has a background as a researcher in the field of neurobiology and has multiple publications and presentations. Her current scholarship is focused on the older adult, particularly pharmacologic implications for physical therapy management and education in geriatrics.

John is Associate Director of Education and Professional Development in OSUWMC’s Ambulatory Rehab department. He is also an Assistant Clinical Professor in the Division of Physical Therapy at Ohio State University. John has had extensive involvement in professional organizations, including the Ohio Physical Therapy Association and the American Physical Therapy Association, and he is the 2008 recipient of the OPTA’s Physical Therapist of the Year award. He has shared his expertise regarding post-professional development at multiple national, state, and local conferences.

Jill graduated from the University of Toledo with a Bachelor of Science in Physical Therapy in 1988. She earned her tDPT from Simmons College in 2012. spent the first 3 years of her career in acute rehabilitation and acquired adult NDT certification, then she transitioned to a skilled nursing setting. Jill joined the Cleveland Clinic as a Clinical Manager in 1995 and worked in a variety of settings and roles for the organization. In 2000 she found her niche - treating men and women with pelvic floor health issues. Jill balances caring for this patient population with her Rehabilitation Manager duties at a Cleveland Clinic hospital-based outpatient setting. Jill has been an APTA/ OPTA member since 1986 and serves on the OPTA Ethics committee.
Debbie is an Associate Professor in the Physical Therapy Program at Cleveland State University. She practiced in Acute care, acute and outpatient neuro-rehab, assistive technology, and geriatrics before joining the faculty at CSU. She currently teaches in the areas of kinesiology and Adult Neurological Dysfunction and Neuro-motor Interventions. Her current lines of research and publication are in fall biomechanics and fall resistance training, the use of video gaming as a therapeutic exercise and balance training modality; novel uses of sensor technology in motion feedback; and optimizing the dosage of balance training for fall prevention.

Erin is an Instructor and Assistant Director of Clinical Education for the Doctor of Physical Therapy Program at Mount St. Joseph University. Dr. Hofmeyer has her BS Rehabilitation Science, MPT and DPT from Mount St. Joseph University. She practices and has interest in the geriatric population within the skilled nursing setting and is board certified as a Geriatric Certified Specialist (GCS) by the American Board of Physical Therapy Specialties.

Deb has over 30 years clinical experience and is currently a Professor of Health and Rehabilitation Sciences at The Ohio State University. She has extensive clinical expertise having worked in acute care, out-patient therapy and spent 10 years as director of physical therapy at a local skilled nursing facility. She studies mobility and fall prevention in individuals with neurodegenerative diseases and the elderly. She is a past recipient of the geriatric section of the American physical therapy association research award.

Lindsay is Team Lead for Quality Assurance in OSUWMC’s Ambulatory Rehab department. She has presented at the national and local levels, including APTA’s NEXT 2017, on developing and implementing a clinician-driven quality assurance program and the program’s positive results. She has also presented clinical research in the sub-specialty practice area of dance medicine at multiple international conferences. Her MPH, earned in 2015, provided Lindsay with additional expertise in the area of healthcare quality improvement.
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<th>Anne Kloos, PT, PhD, NCS</th>
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<td>Anne is currently a Professor of Health and Rehabilitation Sciences in the Physical Therapy Division at the Ohio State University where she teaches adult neurorehabilitation and neuroscience courses and conducts research on balance and gait interventions and fall prevention in individuals with neurodegenerative diseases. She is a board-certified neurologic physical therapy specialist with extensive clinical experience treating individuals with neurodegenerative diseases. Dr. Kloos presently serves as Co-Director of the Ohio State University Neurologic Physical Therapy Residency Program and Associate Editor of the Journal of Neurologic Physical Therapy.</td>
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<th>Lisa Kohler, PT</th>
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<td>Lisa graduated from The Ohio State University and is currently Director of Clinical Education for Rehab Resources. Lisa has been a practicing Physical Therapist for over 25 years across the continuum of healthcare settings. A majority of her tenure has been spent in managerial positions where she is known as a strong leader, focused on insuring quality outcomes through strategic analysis and program development. Quickly becoming a well-known presenter, Lisa uses her unique experiences to discuss a variety of topics, such as lab values and gait speed. Lisa’s interest in Ethics has been continuous throughout her career due to challenges she has faced in different health care settings as a manger. Along with being an educator, Lisa is currently serving as ethics chair for the Ohio Physical Therapy Association.</td>
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<td>Cody is a physical therapist at Ohio State Sports Medicine and a board-certified specialist in orthopaedic physical therapy. Cody received his Doctor of Physical Therapy degree from Duke University, and graduated Cum Laude from Chapman University with a Bachelor of Science in Athletic Training. He is both residency and fellowship trained in orthopedics and orthopaedic manual physical therapy (OMPT). He is currently a clinical faculty member of the OSU Sports Med OMPT Fellowship and orthopedic residency. He has published in the International Journal of Sports Physical Therapy, PT in Motion, and Journal of Manual and Manipulative Therapy. He has presented at previous OPTA Scientific and Annual Conferences, Combined Sections Meetings, and AAOMPT annual conference.</td>
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<th>Michael Martin, PT, MPT, OCS</th>
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<td>Michael is the Director of Ambulatory Rehabilitation at OSUWMC. He has presented at the local and national levels, including APTA’s NEXT 2017, on developing and implementing a clinician-driven quality assurance program. He has also presented at past OPTA conferences and Continuing Education events on various clinical topics of interest. As the Director of Ambulatory Rehabilitation at OSUWMC, Mike has expertise in staff development, strategic planning, and program development.</td>
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Natalie joined the Neuromuscular Physical Therapy team at Nationwide Children’s Hospital in 2015 and, in this role, serves as a research PT in the multidisciplinary Muscular Dystrophy Association (MDA), Neuromuscular, Spinal Muscular Atrophy (SMA), and Charcot-Marie Tooth (CMT) Clinics. She has expertise in assisting in the design and implementation of clinical evaluations for patients enrolled in clinical trials through the Center for Gene Therapy in the Research Institute at Nationwide Children's Hospital. Her interests include outcome measure development and standardization of evidence-based physical therapy recommendations for patients with neuromuscular disorders. She has presented research related to outcome measure selection, development, and validation at national and international conferences. She is published in Neuromuscular Disorders and Molecular Therapy journals on these topics.

Truly graduated from Ohio State University with a Bachelor of Science in Physical Therapy in 1996. Her primary population has been the elderly with 13 years in long term care/ skilled nursing environment, 8 years in management, and another 6 years in outpatient. She received her International Mechanical Diagnostics Certification in 2002 from the McKenzie Institute. Currently Truly is a treating therapist at Kingston of Ashland. In her off hours, Truly is also the owner of a direct access private practice that specializes in spinal pain, Moore Therapy. Truly has proudly been a member of the APTA/OPTA for 20 years. As OPTA State Treasurer Truly became more knowledgeable and passionate about the importance of Ethics in more than just the clinical setting. Upon entering management Truly was exposed to dealing personally with ethical situations in the clinic, with families, billing practices, and other professionals while mentoring and educating other directors on Ethics. She also has been a witness for a federal investigation of fraud, abuse, and breaking of another professional’s code of ethics. Currently she is called upon by other local professionals to help understand and appropriately address possible breaches in the Code of Ethics.

C. Damon Osborne, PhD

Damon earned his Bachelor of Music Education degree from Ashland University in 1991. After teaching music for several years, he pursued graduate degrees in educational technology integration (M.S. Ed., Walden University, 2004) and instructional design for online learning (Ph.D., Capella University, 2008). He has experience with learners at the K-12 level, undergraduates, graduate students, doctoral candidates, as well as adult learners in less formal learning contexts. He leads the online learning enterprise at the University of Findlay, in partnership with the deans, chairs, program leaders, vendors, and vice presidents as appropriate. His primary focus of interest is establishing a sense of community in the online learning environment, in particular, the online course facilitator’s actions in the online learning environment that establish and foster a sense of community.

Ann Reinthal, PT, PhD, NCS

Ann has a PhD in neuroscience and practiced physical therapy in a variety of settings before taking a faculty position at Cleveland State University in 1997, where she is currently an Associate Professor. Her research interests are in the areas of motor control and learning, especially as these relate to developing clinical methods to facilitate more effective and cost-efficient motor practice. She is especially interested in integrating the use of lower cost technologies into rehabilitation for neurologically impaired populations. She has done previous work using various commercial video gaming technologies to improve upper extremity function as well as balance.
Jim Scharf, PTA

Jim has been a licensed physical therapist assistant since 1988 and currently serves as a Community Care Coordinator for Hanger Clinic. Throughout Mr. Scharf’s career he has had the opportunity to work extensively with lower extremity amputees, provide prosthetic training and prosthetic technology. He regularly teaches Amputee Rehabilitation and Prosthetic Training at the University of Dayton, Edison Community College, and Sinclair Community College. He also currently presents “First Stride” for the Orthotic and Prosthetic Activities Foundation (OPAF) in Kansas City, Louisville, and Tennessee State O&P.

Deepak Sebastian DPT, DO, ND, PhD, OCS, FAAOMPT

Deepak a Board Certified in Orthopaedic Physical Therapy Fellowship Trained Orthopaedic Manual Physical Therapist Clinical Instructor and Director, Institute of Therapeutic Sciences Orthopaedic Residency Clinical Instructor and Director, Institute of Therapeutic Sciences Orthopaedic Manual Physical Therapy Fellowship.

Mary Stilphen, PT, DPT

Mary Developed 6 Clicks tool at Cleveland Clinic. Now used by more than 400 hospitals across the country. Partnered with Medicare Advantage Payors in Ohio to use 6 clicks data to transition care to post-acute settings. Topic is of great interest to hospital systems. She presented at CSM last 5 years, American Hospital Association, AMPRA, Arcadia University, Boston University, CoHSTAR.

Kathleen Szirony, PT, DPT

Kathleen received a BS in Physical Therapy from Cleveland State University in 1980 and her Doctors of Physical Therapy from Simmons College in 2011. Currently the Outpatient Rehabilitation Manager of the Physical and Occupational Therapy Program at the Cleveland Clinic. She has more than 25 years of clinical experience working in various settings with patients with neurologic dysfunction. She is responsible for coordinating orientation and ongoing development for PT, OT and speech therapy staff. Kathy has presented at national conferences and is actively involved in research projects.
Rene Thomas, PT, DPT, CLT-LANA

Rene an Instructor in the Doctor of Physical Therapy Program at Mount St. Joseph University. Dr. Thomas received her BS at Purdue University and DPT Washington University (St. Louis). She is a certified lymphedema therapist and is also a certified member of the Lymphology Association of North America. She is a full-time faculty member teaching courses in acute care and cardiopulmonary, basic patient care skills, and special topics in physical therapy. Dr. Thomas is on the Lab Values Task Force for the Academy of Acute Care Physical Therapy, and a member of the Research Committee of the OPTA. She practices in the acute care setting as well as lymphedema management in her spare time. Dr. Thomas is also a full-time student studying to obtain her Doctor of Health Science (DHS) from the University of Indianapolis.

Phil Toal, PT, DPT, OCS, C-OMPT, FAAOMPT

Phil is a Board Certified in Orthopaedic Physical Therapy Certified Orthopaedic Manual Physical Therapist Fellowship Trained Orthopaedic Manual Physical Therapist Director of Cleveland Clinic Orthopaedic Physical Therapy Residency Adjunct Faculty, CSU DPT Program Adjunct Faculty, Institute of Therapeutic Science Orthopaedic Residency Program.

Lucas VanEtten, PT, DPT, OCS

Lucas a board-certified specialist in orthopaedics at The Ohio State University’s Wexner Medicine Center. He is a faculty member in OSU’s Orthopaedic Residency and Upper Extremity Athlete Fellowship and is a Clinical Outcomes Research Coordinator for the Sports Medicine Research Institute at Ohio State. His clinical and research interests include projects focused on rehabilitation for the lower extremity and patient behavior modeling. He received his undergraduate degree from Michigan State University and his Doctor of Physical Therapy degree from The University of Florida. He is currently pursuing his MBA at The Ohio State University Fisher College of Business, with an emphasis on leadership and strategy. In 2015, he received the Outstanding Physical Therapist award from the Ohio Physical Therapy Association.

Kerry Volansky, PT, DSC, MBA, OCS

Kerry received her BS in physical therapy from The Medical College of Ohio in 1991 and her MBA in 1999 from Baldwin Wallace College. In 2003, she completed her Doctor of Science (DSc) in orthopedic physical therapy at Rocky Mountain University of Health Professions. She was awarded the accomplished graduate award from Bowling Green State University, The Medical College of Ohio and The University of Toledo. She is an associate professor at the University of Findlay (2001) and teaches in the area of orthopedics, therapeutic exercise, and documentation. She continues to practice in the outpatient orthopedic environment to advance her clinical skills. Being a life-long learner, her latest venture is going to back to school to obtain a Doctor of Education degree. Her current research interests include online teaching and learning; specifically, she is interested in the exploration of how to teach “hands-on” skills in an online environment. She is a member of the American Physical Therapy Association, Orthopedic and Education Sections.
Lower Extremity Movement Adaptations in the Presence of Pain and Clinically Useful Tools to

Madalynn received her bachelors of science in physical therapy from the Ohio State University and her post-professional doctorate of physical therapy from the University of Tennessee at Chattanooga. She is currently Assistant Clinical Faculty at Cleveland State University and Project Manager for Inter-professional Education in the School of Health Sciences. She maintains clinical hours at Cleveland Clinic Children’s Hospital for Rehabilitation where she spends most of her time in the NICU and NICU follow-up program. Her research interests involve the use of developmental assessments to identify children at risk for neuromotor delays as well as implementation of early, targeted interventions. She also has facilitated the use of low-cost technologies for children with mobility impairments into community settings.

Madalynn Wendland, PT, DPT, PCS, ATP

Andrew completed his undergraduate degree in sport and exercise science at Gannon University in 2009 and received his doctorate in physical therapy from Gannon University in 2015. After finishing graduate school, he completed a physical therapy residency in neurology through Marquette University and the Milwaukee VA Medical center. He is board certified in neurologic physical therapy and currently treats patients with vestibular dysfunction at the Cleveland Clinic’s Mellen Center - Main Campus as well as at the Beachwood Family Health Center.

Andrew Wagner, PT, DPT, NCS

Jennifer completed her undergraduate degree in pre-physical therapy at Baldwin Wallace College in 2008 and received her doctorate in physical therapy from Walsh University in 2011. In the summer of 2014 she became board certified in neurologic physical therapy. She has been practicing for over six years with special interests in neurological and vestibular patients. She currently treats patients with vestibular dysfunction at the Cleveland Clinic in their Dizziness, Balance, and Fall Prevention Clinic in Beachwood, Ohio

Jennifer Williams, PT, DPT, NCS

As a former Ohio State football player, Marcus developed a special interest in sports medicine and helping the athlete throughout the entire continuum of care: injury prevention, return to sport and performance enhancement. He strives to promote healthy, active lifestyles through equipping patients with the tools they need to achieve their optimal functional outcomes. His clinical interest is geared toward the analysis of sports-specific and fundamental movement patterns in an effort to find the most effective interventions to help maximize our patients’ movement proficiency and efficiency, subsequently decreasing their injury risk.

Marcus Williams, PT, DPT, MBA

Jennifer Williams, PT, DPT, NCS

Andrew Wagner, PT, DPT, NCS

Madalynn Wendland, PT, DPT, PCS, ATP

Marcus Williams, PT, DPT, MBA