

## Moss-Magee Program in Advanced Application of Clinical Technologies for the Lower Extremity (MMPAACT for LE)

April 16, 2024 to June 1, 2024



Location:

Virtual Sessions: via Zoom  
April 16 to May 21, 2024

In-Person Sessions: Jefferson Moss-Magee Rehabilitation at Elkins Park  
60 Township Line Road  
Elkins Park, PA 19027  
May 31 and June 1, 2024

***MMPAACT for LE Certificate :  
Education in the Use of Ad-  
vanced Clinical Technologies for  
Lower Extremity Rehabilitation***

1. Six (6) Week Live Webinar Program on Tuesday evenings from 7 - 9 pm beginning **April 16, 2024 - May 21, 2024**

2. Independent Study—with a recorded lecture and 2 activities

3. In person experiential activity **Friday, May 31 and Saturday, June 1, 2024**

**Contact Hours:**

**Online only—13.0 hours**

**Full Participation—25.75 hours**

**1.3 CEUs will be awarded to participants attending all 6 webinar sessions and the RTSS recorded lecture.**

**2.575 CEUs and a MPPAACT for LE certificate will be awarded to participants attending the 6 webinars, completing all independent study activities and attending the in-person learning sessions.**

**Target Audience:** Physical Therapists, Physical Therapist Assistants and Rehabilitation Clinical Scientists

## **Moss-Magee Program in Advanced Application of Clinical Technologies for the Lower Extremity**

**Description:** Development of technologies to meet the needs of individuals with walking and lower extremity dysfunction is occurring at a dizzying pace. This raises challenges for clinicians, scientists and leaders to understand how best to utilize devices and how to promote knowledge translation and adoption of technology in the clinic.

The Moss-Magee Program in Advanced Application of Clinical Technologies for the Lower Extremity is a seven week program designed to prepare clinicians and rehabilitation clinical scientists to act as leaders and knowledge brokers in the use of rehabilitation technology and robotics for improving lower extremity impairment for adults with neurologic dysfunction.

The program will provide a small group learning atmosphere consisting of one recorded lecture, independent study, and six synchronous webinars. The didactic materials will conclude with one and a half days of case-based in-person experiential learning and will also highlight newer and developing technologies. Throughout the program, each participant will develop skills to evaluate and apply technology to patients based on evidence, patient characteristics and patient-specific treatment goals. They will develop a specific, individualized plan to structure and implement the application of technology within their own treatment setting and clinical care. Whether practicing in a large hospital system or an individual outpatient clinic, the program will help participants to tailor the learning experiences to their individualized setting and needs. Upon completion of the program, clinicians will have the tools to optimize their own practices in the use of technology in lower extremity rehabilitation, as well as act as knowledge brokers and clinical champions in its use.

Program faculty consists of experienced clinicians from Jefferson Moss-Magee Rehabilitation including front-line clinicians as well as program coordinators and supervisors, to provide a comprehensive understanding of the stakeholders and personnel involved in establishing a successful technology program.

**NOTE:** Attendees can opt to complete the entire program of webinars, independent study, discussion groups and live content to receive the MPPAACT for LE certificate and CEUs, or they can complete the webinar portion for CEUs only.

Completion of all of the portions of the program including asynchronous lectures, live webinars, independent study activities, the 2-day in person content and testing will result in awarding of the MPPAACT for LE Certificate.

# AGENDA

All times are Eastern Standard Time (EST)

## Live Webinars and Independent Study

**Pre-requisite**      **Program Expectations and Overview (Recorded Video)**

*Andrew Packel, PT, NCS*

### **Tuesday, April 16, 2024—Session 1**

**7:00 to 9:00 pm**      **Overview of Use of Robotics and Technology in Lower Extremity Rehabilitation**

*Erika Dixon, PT, DPT, NCS, Unique Williamston, PTA, BS, Andrew Packel, PT, NCS*

**April 17—22, 2024**      **Independent Study Worksheet: Learning about Common Technology Used in the Clinic**

*Erika Dixon, PT, DPT, NCS, Kelly Sprik, PT, DPT, Elizabeth Watson, PT, DPT, NCS*

### **Tuesday, April 23, 2024—Session 2**

**7:00 to 9:00 pm**      **The Innovation Domain: Lower Extremity Robotics and the State of the Current Literature**

*Erika Dixon, PT, DPT, NCS, Kelly Sprik, PT, DPT, Elizabeth Watson, PT, DPT, NCS*

**April 24—29, 2024**      **Independent Study Recorded Lecture: Overview of the Rehabilitation Treatment Specification System (RTSS)**

*Andrew Packel, PT, NCS*

### **Tuesday, April 30, 2024—Session 3**

**7:00 to 9:00 pm**      **Application of Frameworks in Clinical Decision Making for Device Selection**

*Amanda Charles, PT, DPT, Kelly Sprik, PT, DPT, Andrew Packel, PT, NCS*

**May 1—6, 2024**      **Independent Study Survey: Developing a Survey to Engage Local Stakeholders in the Use of Technology for Clinical Care.**

*Kimberly Miczak, PT, NCS, Colleen Johnson, PT, NCS, Amanda Charles, PT, DPT, Elizabeth Watson, PT, DPT, NCS*

### **Tuesday, May 7, 2024—Session 4**

**7:00 to 9:00 pm**      **Getting Started: Considerations for the Implementation of Lower Extremity Technologies**

*Kimberly Miczak, PT, NCS, Colleen Johnson, PT, NCS, Amanda Charles, PT, DPT, Elizabeth Watson, PT, DPT, NCS*

## Tuesday, May 14, 2024—Session 5

7:00 to 9:00 pm **Thinking Big: The World of Rehabilitation Technology and How It Can Positively Impact Your Practice**

*Kimberly Miczak, PT, NCS, Andrew Packel, PT, NCS*

## Tuesday, May 21, 2024—Session 6

7:00 to 9:00 pm **Implementation Cases for In-Depth Review and Discussion**

*Andrew Packel, PT, NCS, Erika Dixon, PT, DPT, NCS*

## In-Person Experiential Visit

### Friday, May 31, 2024

2:00 pm **Welcome and Introduction**

*Andrew Packel, PT, NCS*

2:30 pm **Emerging Technology Demonstration**

*Shailesh Kantak, PhD, MSc, PT, Amanda Rabinowitz, PhD, Andrew Packel, PT, NCS, Rachel Higdon, PT, DPT CBIS*

4:30 pm **Break**

4:45 pm **Expert Panel Discussion: Emerging Technology**

*Shailesh Kantak, PhD, MSc, PT, Amanda Rabinowitz, PhD, Andrew Packel, PT, NCS, Rachel Higdon, PT, DPT CBIS*

### Saturday, June 1, 2024

8:00 am **Continental Breakfast**

8:30 am **Walking Specific Patient Evaluations and Identification of Walking Specific Targets**

*Andrew Packel, PT, NCS*

9:00 am **Case-Based Demonstration of Assessments**

*Amanda Charles, PT, DPT, Kelly Sprik PT, DPT, Andrew Packel, PT, NCS*

10:30 am **Break**

10:45 am **Review of Assessment and Facilitated Discussion**

*Amanda Charles, PT, DPT, Kelly Sprik, PT, DPT, Andrew Packel, PT, NCS*

11:30 am **Treatment Planning Based on Walking Specific Evaluation**

*Amanda Charles, PT, DPT, Kelly Sprik, PT, DPT, Andrew Packel, PT, NCS*



12:15 pm Lunch

1:00 pm **Case-Based Patient Intervention with Technology**

*Amanda Charles, PT, DPT, Erika Dixon, PT, DPT, NCS, Unique Williamston, PTA, BS, Andrew Packel, PT, NCS, Kelly Sprik, PT, DPT*

3:00 pm Break

3:15 pm **Treatment Selection and Implementation**

*Amanda Charles, PT, DPT, Erika Dixon, PT, DPT, NCS, Unique Williamston, PTA, BS, Andrew Packel, PT, NCS, Kelly Sprik, PT, DPT*

4:00 pm **Lab Based Activity: Hands-on Practice with Various Technologies**

*Amanda Charles, PT, DPT, Erika Dixon, PT, DPT, NCS, Unique Williamston, PTA, BS, Andrew Packel, PT, NCS, Kelly Sprik, PT, DPT*

5:00 pm **Putting it All Together: A Review of Clinical Implementation Cases**

*Andrew Packel, PT, NCS*

**\*For full description of the individual sessions,  
visit [www.mossrehab.com/continuingeducation](http://www.mossrehab.com/continuingeducation)**



## ABOUT the FACULTY



**Amanda Charles, PT, DPT**

*Amanda Charles is a physical therapist at Jefferson Moss-Magee Rehabilitation Elkins Park's CVA inpatient rehabilitation program. Amanda is a preceptor to therapists during their six-month rotations on the CVA service and a mentor for physical therapy neuro-residents during their four-month rotations. Amanda is Lokomat trained, by Hocoma, and is a certified trainer for other staff within her network. Some areas of interest are improving patients' mobility while providing the opportunity for motor learning and self-correction; and exploring patient's access to mobility beyond therapy sessions.*



**Erika Dixon PT, DPT, NCS**

*Erika Dixon is a senior physical therapist on the Jefferson Moss-Magee Rehabilitation Elkins Park's CVA acute inpatient rehabilitation team. She is a board-certified neurologic specialist and is a certified level 3 Ekso Trainer through EksoBionics to assist with training clinicians on how to utilize the EksoNR. An area of her interest is how to utilize technology with patients following a neurological diagnosis within the rehabilitation setting to assist with increasing functional independence.*



**Shailesh Kantak, PhD, MSc, PT**

*Shailesh Kantak is a Research Associate Professor, Department of Rehabilitation Medicine, an Institute Scientist and Director of Neuroplasticity and Motor Behavior Laboratory at the Moss Rehabilitation Research Institute. His clinical interests are to develop evidence-informed frameworks to help translate basic science findings and principles into tangible physical rehabilitation interventions to optimize functional outcomes for those with impaired movement following neuromuscular injury.*



**Rachel Higdon, PT, DPT**

*Rachel is a Physical Therapist working in an outpatient setting at Jefferson Moss Magee Rehabilitation Elkins Park. She has primary interest in treating patients with neurologic and vestibular dysfunction. She has an Emory Vestibular Certification and is also EksoNR Certified Level I and II. Rachel enjoys incorporating technology into her treatment plans as well as teaching. She is a teaching assistant in the Neumann University Physical Therapy Program.*



**Colleen Johnson, PT, NCS**

*Colleen Johnson is the Therapy Educator at Jefferson Moss-Magee Rehabilitation Center City. She provides comprehensive Therapy and Nursing education, coordinates clinical experiences for the PT Neurologic Residency program and is responsible for monitoring and responding to new legislation and regulatory changes in an inpatient rehabilitation facility (IRF). Colleen is a Board Certified Neurologic Clinical Specialist (NCS) with expertise in the management of clients with Brain Injury, Stroke and Spinal Cord Injury.*



**Kimberly Miczak, PT, NCS**

*Kimberly Miczak is a board certified neurologic physical therapist, who has been working with individuals with brain injuries since 2002. Kim is also the director of the physical therapy neurologic residency program at Jefferson Moss-Magee Rehabilitation. In these roles, she utilizes assistive technology to facilitate ambulation for patients, and mentors resident therapists regarding clinical decision making related to use of assistive technology for ambulation.*

## ABOUT the FACULTY



### **Andrew Packel, PT, NCS**

*Andrew Packel is the Locomotor Coordinator at Jefferson Moss-Magee Rehabilitation Elkins Park and is the Director of the Moss-Magee Program for Application of Advanced Clinical Technologies (MMPAACT). He has been a practicing clinician for over 25 years, mostly in the inpatient rehabilitation setting working with individuals with neurologic dysfunction. Andy has extensive experience with use of robotics and technology in both research and practice, and has spoken nationally on this and other topics.*



### **Amanda Rabinowitz, PhD,**

*Amanda Rabinowitz is Associate Director of the Moss Rehabilitation Research Institute and is interested in chronic brain injury outcomes across the spectrum of traumatic brain injury (TBI) severity. A number of her projects leverage mobile technology to augment brain injury assessment and intervention. She works with local and national collaborators on studies of long-term brain injury outcomes, including neuroimaging studies to elucidate neuropathological substrates of chronic and neurodegenerative effects of brain injury, and large epidemiological studies of participation in contact sports as a risk factor for cognitive and emotional dysfunction*



### **Kelly Sprik, PT, DPT, NCS**

*Kelly Sprik is a senior physical therapist at Jefferson Moss-Magee Rehabilitation Elkins Park and has been working on the CVA acute inpatient rehabilitation team. Kelly is a board-certified neurologic specialist. Her clinical interests include identifying novel walking assessments in patients who require assistance to walk and implementing high intensive locomotor training with patients following neurologic deficits.*



### **Elizabeth Watson, PT, DPT, NCS**

*Elizabeth Watson has extensive experience working in neurological rehabilitation and is a Certified Clinical Specialist in Neurology in addition to being a certified Lokomat, Ekso and Indego user. Elizabeth currently works as the Supervisor in the Locomotor Training Clinic at Jefferson Moss-Magee Rehabilitation Riverfront. She guest lectures for many area universities, teaches locomotor training (LT) and robotics for neurological residency programs and continuing education courses.*



### **Unique Williamston, PTA, BS**

*Unique Williamston is a Physical Therapist Assistant at Jefferson Moss-Magee Rehabilitation Elkins Park's Acute Inpatient Rehab setting. She rotates between services such as Stroke, Brain Injury, Spinal Cord Injury, Complex Rehab, and Amputation. Over the past two years, her focus has been on progressing walking capabilities with the neurology population by incorporating Robotic Technology. She is currently working on Neurology Proficiency Pathway Certification through the APTA for PTAs.*

**\*Disclosures for Speakers and Planning Committee Members can be found on the website**

**visit [www.mossrehab.com/continuingeducation](http://www.mossrehab.com/continuingeducation)**



## Requirement for successful course completion:

**Online, Independent Study and In-Person Attendance:** Online attendance will be tracked and completion of an evaluation form and test will be required. Satisfactory completion of the continuing education units consists of monitored sign in and sign out forms and completion of a course feedback form that includes self-assessment of learning outcomes and full participation of demonstrations.

**Online attendance and Independent Study (recorded lecture) only:** Satisfactory completion of the continuing education units will consist of tracked attendance and completion of an evaluation form and test will be required.

## Continuing Education Credits

**Conflict of Interest Statement:** Faculty and all others who have the ability to control the content of continuing education activities sponsored by Jefferson Moss-Magee Rehabilitation are expected to disclose to the audience whether they do or do not have any real or apparent conflict(s) of interest or other relationships related to the content of their presentation(s).

**Physical Therapy CEUs:** Application has been submitted to the *New Jersey State Board of Physical Therapy Examiners*.

MossRehab is an approved provider of Physical Therapy through the *New York State Education Department*.

Thomas Jefferson University College of Rehabilitation Sciences is an approved provider of continuing education units for the *Pennsylvania State Board of Physical Therapy*.





## REGISTRATION

Registration and payment can be made online at  
[www.mossrehab.com/continuingeducation](http://www.mossrehab.com/continuingeducation)

**Fees:** \$600 online and in person \$450 online only

**Cancellation Policy:** All cancellations must be submitted in writing to [Sheila.Wallace@jefferson.edu](mailto:Sheila.Wallace@jefferson.edu). Requests received 7 days prior to course start will result in a full refund. Requests received 2 to 7 days prior to the course start will result in a non-refundable administration processing fee of \$50. No shows or cancellations within 24 hours of the course start will be ineligible for a refund. If we have to cancel a course due to low enrollment, weather, or an emergency situation, you will be reimbursed the cost of registration. We are not responsible for any other costs associated with attending a conference. If you are on the waiting list of a course and do not get in, we will not charge your credit card; if you paid by check we will send the check back to you. In the event that a course is rescheduled we will provide you the option of applying the tuition towards the rescheduled course in lieu of a full refund.

**Complaint Policy:** Jefferson Moss-Magee Rehabilitation views complaints as an opportunity to improve. As an institution we are open to feedback from staff, course participants, speakers, and patients/clients. Course participants and speakers are asked to notify course coordinators of any urgent issues, either small or large, so they may be resolved in a timely fashion. Complaints may be communicated either verbally during a course or upon its conclusion through the Course Evaluation Form.

**Non-discrimination Statement:** Jefferson Moss-Magee Rehabilitation unconditionally complies with Americans with Disabilities Act, endorses and supports the intent and objectives of Title VI of the Civil Rights Act of 1964 (as amended) and Section 504 of the Rehabilitation Act which together prohibit discrimination on the basis of age, sex, race, creed, color, national origin, sexual orientation and physical or mental disability.

**Special Needs:** If you have any special needs that we can address to make your participation more meaningful and enjoyable, please contact us at 215-663-6457.

Space is Limited!! Registration is on a first-come, first-served basis.

Please sign up for waiting list if the tickets are sold out. We frequently release new tickets as people register.

For information, questions or special requests contact:

Sheila Wallace

[Sheila.Wallace@jefferson.edu](mailto:Sheila.Wallace@jefferson.edu)

Phone: 215-663-6457

Registration Deadline **April 1, 2024**