



Course Outline

Empower[ED] Partners 2021

Course Title

Empower[ED] Partners 2021: Pre and Post-operative Rehabilitation Strategies for Amputees

Course Level

Introductory

Course Summary

Physical and occupational therapists who encounter amputees in the rehabilitation setting play an important role in laying a solid foundation for the long-term success of their patients. The work they do early on and throughout the prosthetic rehabilitation journey has the ability to shape their patients' outcomes and positively impact their overall quality of life.

This course will explore the various phases of prosthetic rehabilitation including, pre-prosthetic program planning elements, prosthetic training principles and post-prosthetic training planning for upper and lower limb amputees. This course includes presentations from multiple patient perspectives and the impact of therapy on their care journey, current research insights into this patient population, and finally, small-group skills training breakout sessions for hands-on learning with therapists, prosthetists, and patients.

See below for details on how each breakout skills training session is split into various sections.

Contact Hours

3.0 PT/PTA, OT/OTA, RN and CM (Please visit our [accreditation page](#) for details on approval programs).

Texas Board of Physical Therapy Examiners CC Provider. Hanger Clinic is an AOTA approved provider of occupational therapy continuing education. The assignment of AOTA CEUs does not imply endorsement of specific course content, products, or clinical procedures by AOTA. AOTA APP No: 8417.

Course Outline

Registration Opens: 3 pm

Dinner Service: 4 - 5pm

Program

4:30 pm - 5:30 pm: Empowering the Individual Patient and the Population for Better Outcomes

- 4:30 - 4:35 pm: *Welcome*
Kevin Carroll, MS, CP, FAAOP/D
- 4:35 - 5:10 pm: *Impact of Therapy on my Prosthetic Rehabilitation: A Patient's Perspective*

Patients will provide their perspective on their care progress as it relates directly to their condition, prosthetic rehabilitation and therapy goals.

4:35 - 4:50 pm

Norma Trujillo

4:50 - 5:10 pm

Leslie Green, MA, MA, MA, MA, MSW, Ed.S





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- 5:10 - 5:25 pm: *Translating Patient Data into Population Level Outcomes*
Shane Wurdeman , PhD, CP, FAAOP(D)
This session will review the current research and impact of care and technology advancements at the population level, and how individual outcomes is playing a role in defining that care.
- 5:25 - 5:30 pm: *Breakouts/Room Transition*
Kevin Carroll, MS, CP, FAAOP/D

5:30 - 7:30 pm: Upper Limb and Lower Limb Amputee Skills Training Breakout Sessions

Learners will be divided into two small groups at registration and will attend each session for 60 minutes before rotating to the next as a group.

Lower Limb Prosthetic Rehabilitation Skills Training (60 min)

Instructors: Darren Stoop , PT, DPT, NSCA-CPT; Jason Meints , PT, DPT; Matt Parente, MS, PT, CPO, FAAOP

Patient Partners: Norma Trujillo, Leslie Green, Cameron Clapp

Demonstrations and rotating hands-on activities for this section will include skills to provide learners with the most immediate impact once they return to their practice, including understanding how each activity aligns with pre and post prosthetic rehabilitation planning. Activities include initiation of gait, stairs, ramps, and integration of balance strategies, understanding prosthetic componentry and patient functional levels (K1-K4) for optimal patient outcomes.

- Section A: Lower Limb Prosthetic Troubleshooting (12 min)
- Section B: Lower Limb Prosthetic Simulators (12 min)
- Section C: The Impact of Alignment (12 min)
- Section D: Group Discussion

Upper Limb Prosthetic Rehabilitation Skills Training (60 min)

Bambi Lombardi , OTR/L; Amy Todd , OTR/L, CHT; Kelly Dunbar, OT; Claire Gerwig, OT; Phil Stevens, MEd, CPO, FAAOP

Patient Partners: Mike Benning, Lizbeth Uzcategui, Billy Parker

Demonstrations and rotating hands-on activities for this section will include skills to provide learners with the most immediate impact once they return to their practice, including understanding how each activity aligns with pre and post prosthetic rehabilitation planning. The activities outlined below will allow learners to identify and implement the key components of evaluation, pre-prosthetic intervention and prosthetic training for the person with an upper limb amputation/limb difference.

- Section A: Technology of multi-grasp hands (15 min)
- Section B: Muscle site testing and introduction to pattern recognition (15 min)
- Section C: Body-powered/able-bodied trial station (15 min)
- Section D: Therapy interventions - including don/doff, ADL equipment, pre-prosthetic therapy, prosthetic training, evaluation, documentation, outcomes (15 min)

Target Audience

Physical and occupational therapists who provide care for amputees, and/or therapists who are interested in an introduction to prosthetic planning for their patients

Method of Delivery

Live in-person, slide presentations, live demonstrations and interactive learning stations

CE Contact Hours

3.0 or 180 minutes session

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Objectives

Upon completion of this program, learners will be able to:

1. List various successful therapy care plans based on patient profile
2. Comprehend the breadth of research & outcomes associated with improved mobility and quality of life
3. Compare the techniques for immediate and early prosthetic interventions
4. Provide criteria to determine the patient's readiness for prosthetic rehabilitation
5. Identify key components of pre-prosthetic and prosthetic training program

Course Completion Requirements

In order to complete this course and receive a course completion certificate, you must:

- Sign in at the beginning of the course
- Actively and appropriately participate in the course discussions and breakout sections
- Complete the attestation form provided in your course folder
- Complete a course evaluation form
- Certificates will be delivered electronically the following day to the email provided at registration.

Instructors

Kevin Carroll, MS, CP, FAAOP/D

Kevin Carroll is an accomplished healthcare professional with more than 35 years of experience as a practicing prosthetist, visionary researcher, and skilled educator. As Vice President of Lower Extremity Prosthetics for Hanger Clinic, Kevin travels nationally and internationally presenting scientific symposiums and managing clinics for difficult prosthetic cases, and his commitment to improving prosthetics has placed him at the forefront of numerous prosthetic breakthroughs.

Norma Trujillo

When mom-of-three Norma Trujillo lost both her legs after an accident in 2017, she decided to turn her fight to walk again into a story of inspiration for her children. As she adjusted to life as a bilateral above-knee amputee, she drew strength from her family as she learned to navigate life in a wheelchair and—after years of hard work—walk on her own thanks to the life-changing care and support from her clinicians and peers at Hanger Clinic and in her community.

Leslie Green, MA, MA, MA, MSW, Ed.S

Leslie Green, educator, social worker, amputee patient, and peer mentor, is a limb loss community advocate for hundreds of patients like herself. Leslie has been a bilateral below-the-knee amputee since 2016, and has used her experience, both as a patient and a social worker, to develop resources and education for the community she loves so dearly. In her work with amputees, she has created and facilitated amputee support programs that are registered with the Amputee Coalition. Leslie is trained through the Amputee Coalition and holds the role of Lead Advocate for the State of Minnesota. Now with Hanger Clinic, she is an invaluable resource to share her experience and knowledge in supporting amputees as a collaborative member of the overall healthcare team.

Shane Wurdeman, PhD, CP, FAAOP(D)

Shane is the Director of Clinical Research within Clinical and Scientific Affairs. He entered the field of O&P as a technician before transitioning to working as an orthotist/prosthetist, and finally into his role as a principal investigator. Shane has co-authored more than 40 peer-reviewed manuscripts, published 3 book chapters, and presented more than 100 conference abstracts within the field of orthotic and prosthetic rehabilitation.

He is a Fellow with Distinction of the American Academy of Orthotists and Prosthetists (AAOP) and was recognized in 2020 with their Research Award. He has previously served on the Academy's Board of Directors and currently serves as the Research Director for the American Orthotic and Prosthetic Association (AOPA) and Chair of the Center for Orthotic and Prosthetic Learning

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Shane has been supported by private grants as well as government grants from the National Institutes of Health and Department of Defense. In addition to his research work, he continues to see patients.

Darren Stoop, PT, DPT, NSCA-CPT

Darren Stoop is a physical therapist who helps amputees achieve their highest level of function. He is a movement specialist with a focus on amputee rehabilitation. Darren strongly believes that experiencing limb loss is a life-changing experience that does not have to change how you live your life. He has made it his professional goal to reach as many amputees as possible to ensure that people are educated on how to maximize their recovery from an amputation.

He received his Bachelor of Science in Exercise Science and his Doctorate of Physical Therapy from Creighton University. In addition to his clinical role at Hanger Clinic, he is an adjunct faculty member at Creighton University's School of Pharmacy and Health Professions and teaches the Amputations and Prosthetics course in the Doctor of Physical Therapy program. Dr. Stoop is involved in teaching continuing education courses in the area of prosthetics and amputee rehab with the goal of helping physical therapists and other allied health professionals better serve and treat the amputee population.

Jason Meints, PT, DPT

Jason Meints is a physical therapist who specializes in the rehabilitation of amputees. He has assisted in the development and advancement of the rehab programs used at Hanger Clinic which are specifically designed to address all issues that an amputee might encounter, from dealing with phantom pain to learning the proper mechanics of gait. He works directly with the prosthetists onsite to collaborate on the treatment of each patient, ensuring all adjustments and fitting issues are taken care of to ensure productive therapy sessions. He believes that the sky is the limit and there is no reason that an amputee can't get back to doing all the things they love. He is passionate about his work and dedicated to giving each patient the resources they need to be successful. Although he works with varying patient populations that include orthopedic and neurologic diagnoses, 90% of his caseload is amputees, which is very rare. He is involved with Hanger Clinic's clinical education program and travels to educate other therapists and healthcare providers around the country about how to better serve and rehabilitate the amputee population.

Jason started his journey to physical therapy at Nebraska Wesleyan University where he received his Bachelor of Science in Exercise Science with a minor in Psychology in 2008. Subsequently, he completed his Doctorate of Physical Therapy at Des Moines University in 2012.

Matt Parente, MS, PT, CPO, FAAOP

Matthew Parente possesses a unique knowledge of the fields of Physical Therapy and Prosthetics and Orthotics. His background includes degrees in Physical Therapy (BS) and Neuroscience (MS) and post-graduate certificates in Prosthetics ('00) and Orthotics ('01). He is also a Certified Orthotist/ Prosthetist by the American Board of Certification, a Licensed Physical Therapist (CT), and awarded the distinction of Fellow of the American Academy of Orthotists & Prosthetists in 2016. He was also awarded the Outstanding Educator Award by the American Academy of Orthotists & Prosthetists in 2019. Matt has been the primary instructor for 17 post-graduate courses, and the secondary instructor for 3 additional courses over the past 20 years. He is also the Director of the Masters of Science in Prosthetics and Orthotics program at the University of Hartford, and a National Clinical Education Specialist for Hanger Clinic. He has also provided lectures on Prosthetic Rehabilitation to multiple Doctorate of Physical Therapy programs, professional organizations, and independent Physical Therapy groups.

Bambi Lombardi, OTR/L

Bambi is an Occupational Therapist who joined Hanger Clinic's Upper Limb Prosthetics Program as a member of the rehabilitation team in 2015. Bambi has been a therapist for the past 35 years with a varied clinical background ranging from pediatrics, to trauma, to hand therapy and general rehabilitation. Her most recent experience includes teaching introductory and advanced courses in upper limb prosthetic rehabilitation, presenting at local, national and international conferences and facilitating collaborative efforts between prosthetists and therapists to improve functional outcomes for end users. Bambi has been both on the manufacturer side and the clinical side of the prosthetic industry.

Amy Todd, OTR/L, CHT

Amy Todd holds a Master's in Occupational Therapy from Brenau University, and she has been practicing as an occupational therapist and certified hand therapist for over 10 years. Amy enjoys working in several areas, but is primarily focused on the

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specialty services of hand therapy in prosthetic rehab. Amy's extensive training and experience allows her to treat any dysfunction of the arm, from shoulder to fingertips, with advanced knowledge in amputee rehabilitation and prosthetics training as well as workers' compensation and return to work. Clinical education is very important to Amy; she is an adjunct instructor at Brenau University and is a fieldwork instructor for students opting to do rotations in Merida, Mexico. Amy presents at the local, national and international levels on hand therapy, including speaking in Mexico, Thailand, and at universities and national occupational therapy conferences.

Phil Stevens, MEd, CPO, FAAOP

Phil is an Upper Limb Prosthetic Specialist as well as a Director within Clinical and Scientific affairs, where he develops evidence-based clinical programs designed to help patients improve their orthotic and prosthetic outcomes. Through outcomes implementation, landmark research studies and the establishment of Clinical Practice Guidelines, Phil has set national standards of care based on science and at the forefront of O&P care. He has been intimately involved in the development of Hanger Clinic protocols and policies in the wake of the COVID-19 pandemic.

Phil is a former President of the American Academy of Orthotists and Prosthetists and received the Academy's "Champion of the Profession" Award in 2017. He currently holds Adjunct Faculty Positions within the University of Utah's Division of Physical Medicine and Rehabilitation and the Prosthetics and Orthotics program at Concordia University, St. Paul, Minnesota. He was a co-editor on the 4th edition of the Atlas of Amputations and Limb Deficiencies and currently sits on the Editorial Board of the Journal of Prosthetics and Orthotics. Phil is also a regular presenter at National and International Continuing Education Conferences within the field of prosthetics and orthotics, has contributed to more than 40 peer-reviewed publications and 10 textbook chapters, and has authored over 100 columns for the industry publication O&P Edge.

He is a graduate of the University of Washington's O&P program with a Master's Degree from the University of Houston in Allied Health Education and Administration.

Kelly A. Dunbar, OTR/L

Claire M. Gerwig, OTR/L, CFo

