

Amputee Rehabilitation Across the Continuum of Care using Evidence Based Practice

Inger Brueckner, MS, PT



Faculty

Inger Brueckner is the principle physical therapist treating amputee patients at Presbyterian/St. Luke's Medical Center. Her experience working with multidisciplinary teams spans from pediatrics to geriatrics; partial foot to hemipelvectomy; and partial hand to forequarter amputation including multi-limb loss. Inger has a master's degree in PT, co-authored an article on pre-prosthetic training, and speaks at numerous conferences. She's involved in research that includes grant applications, protocol development, and outcome collection. She specializes in pediatric vestibular dysfunction at Sky Ridge Medical Center and is the Director of the PACER program for the Center for Concussion. Inger is excited to share her experiences working with a team to meet the needs of the amputee population..

Disclosure -Financial: Ms. Brueckner receives an honorarium from ERI for teaching. Non-financial: No non-financial relationships to disclose..

"After taking this course I now feel more prepared and confident to work with patients with limb loss." - E Montoya, PT

About this Course

This course offers a comprehensive perspective for management of the limb loss patient. Clinical expertise can be difficult to obtain since this population is a small proportion of the rehabilitation caseload. Current research, expert opinions from PT, OT, orthopedic and plastic surgeons, PM&R, prosthetists, as well as patient experiences will be presented. The class addresses the medical issues and common complications that place limbs at risk. Attendees will learn to make educated clinical decisions to improve function. This dynamic course addresses limb loss due to diabetes, vascular disease, trauma, cancer, sepsis and congenital issues. Current guidelines recommend therapy interactions start pre-operatively and continue through the lifespan of the patient. New technology, surgical techniques and futures directions are included in discussion. Many of the techniques described in the course can be applied to patient populations with limbs at risk and the multi-trauma patient. The course is primarily lecture with multiple video clips taken throughout of the continuum of care. There will be demonstrations and hands-on experiences intermixed with the lecture.

Objectives

- 1 Design, implement and modify an individual rehabilitation program using up to date techniques for common co-morbidities and with knowledge of the life-time needs of this population
- 2 Identify movement and posture dysfunction that can be address with therapy interventions efficiently and recognize when other disciplines may need to be consulted
- 3 Identify and address frequent complications such as phantom pain, residual limb pain, low back pain and skin integrity
- 4 Discuss upper extremity loss and address ADLs by problem solving the functional deficit
- 5 Recognize questions the patient may have regarding the entire spectrum of rehabilitation and identify the role in a team to maximize outcomes

Patient Population & Audience

This course is designed for: PTs, PTAs, OTs, OTAs, and ATCs who are working with patients who have limb loss. This course is relevant across the lifespan for all persons with limb loss or limb difference.

Help your patients achieve better outcomes.

Schedule – Day 1

7:30-8:00	Registration/Continental Breakfast
8:00-8:45	Multidisciplinary team approach, current research and applying findings to treatment. Insurance pre-operative evaluation
8:45-10:00	Patient perspectives, specific concerns for diabetes, peripheral neuropathy, vascular dysfunction, trauma, tumor, and infection. Surgical considerations of nerve, bone, and skin, amputation level, psychological impacts, social support and caregiver education
10:00-10:15	Break
10:15-11:00	Intra-operative video of surgical techniques, rotationplasty Ertl technique, limb lengthening revision surgery
11:00-12:00	Acute post-op overview, evaluation, positioning, compression, initial exercise, mirror therapy, Occupational Therapist's role in lower limb loss, initial mobility and independence for upper and lower limb, sound limb protection
12:00-1:00	Lunch (on your own)
1:00-1:45	ADLs, adaptive equipment, function problem solving, home modifications, including multi-limb and upper limb amputees, vehicle modifications
1:45-2:30	Upper and lower limb pre-prosthetic rehabilitation, core exercises, ROM, home program barriers, considerations for critical illness, cancer, preparation of residual limb for prosthetics, rehabilitation for nonprosthetic candidates
2:30-3:00	Exercise demonstration/problem solving
3:00-3:15	Break
3:15-4:15	Safe cardiovascular training, updated guidelines for peripheral neuropathy, diabetes, dysvascular and critical illness conditions, aquatic therapy, falls and balance training

Schedule – Day 1 (continued)

4:15-5:00	Upper extremity loss, overview of body and electrically powered prosthetics, donning/doffing, upper extremity prosthetic use in ADLs, overuse syndromes, posture for upper extremity loss
5:00-5:30	Prosthetist discussion: prosthetic approach to care, creating effective communication among the medical team

Schedule – Day 2

7:30-8:00	Continental Breakfast
8:00-9:00	Prosthetic training and fabrication, suspension systems, components including microprocessors knees, initial delivery, wear schedule, donning/doffing, fit adjustment/sock ply changes, sit/stand training floor transfers and fall training, skin care and prep, moisture management
9:00-10:30	Gait training, assistive device selection, gait deviations: stairs, ramps, turning, bilateral shorties, hip disarticulation emipelvectomy and multi-limb loss considerations, outcome measures
10:30-10:45	Break
10:45-12:00	Introduction to running and adaptive sport activities for all levels, planning for travel
12:00-1:00	Lunch (on your own)
1:00-2:30	Complications: management techniques for phantom pain, residual limb pain, low back pain, skin disruptions, neuromas, weight management/endurance
2:30-2:45	Break
2:45-3:30	Advancements in prosthetics and surgery, targeted muscle re-innervation, pattern recognition, osseointegration, and future trends

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Credits

This course meets the criteria for 14 contact hours (1.4 CEUs). Application has been made to the **NJ** and **MD** Board of Physical Therapy Examiners. The **PA** State Board of Physical Therapy recognizes other state board's approvals. In **CT**, this workshop meets accepted standards for continuing competence. **VA**, **DC**, and **DE** Boards of Physical Therapy accept other state board's approvals. Approved agency by the Physical Therapy Board of **CA**. This course meets the **CO** Physical Therapy requirements for 14 Contact Hours - Intermediate Level Cat 1.

Approved provider by the **NY** State Board of Physical Therapy for 16.8 CEUs.

Application has been made to the **FL** Physical Therapy Association for 16.5 continuing education contact hours. Approved provider of the **FL** Board of Occupational Therapy -CE Broker



Approved provider of continuing education by the American Occupational Therapy Association #3043, for 14 contact hours - Intermediate Level Occupational Therapy Process: assessment, intervention. The assignment of AOTA CEU's does not imply endorsement of specific course content, products or clinical procedures by AOTA.

NBCOT professional development provider - 14 PDUs



Education Resources Inc. is approved by the Board of Certification to offer 14 continuing education units for Athletic Trainers

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Locations and Dates - 2019

June 1-2	Mission Hills, CA	Providence Holy Cross Medical Center
September 7-8	Denver, CO	Presbyterian/St. Luke's Medical Center
October 4-5	White Plains, NY	Burke Rehabilitation Hospital
December 7-8	Alexandria, VA	Inova Mount Vernon



\$435 fee. Group rate (3 or more) must be mailed/faxed together \$410. Deadline for registration is 3 weeks prior to course. Registration will be accepted after deadline on a space available basis. Cancellation accepted up until 2 weeks before course, minus an administration fee of \$75. NO REFUNDS WITHIN 2 WEEKS OF COURSE.

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Limited enrollment. We encourage you to register online!

Amputee Rehabilitation/Brueckner

June/CA Sept/CO Oct/NY Dec/VA

Course Registration Form

Name: _____

Address: _____

City: _____ State: _____ Zip Code: _____

Home Phone: _____ Work Phone: _____

Cell Phone: _____

Needed in the event of an emergency scheduling change

Email: _____

Please clearly print your email address for course confirmation

Employer: _____

Discipline: _____ Specialty: _____

How did you learn of this course _____

Education Resources reserves the right to cancel any course due to insufficient registration or extenuating circumstances. Please do not make non-refundable travel arrangements until you have called us and received confirmation that the course will be held. We are not responsible for any expenses incurred by participants if the course must be cancelled.

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