

University of Kentucky Doctorate of Physical Therapy Research Day 2023

Keynote Speaker: Shelia Clemens PT, MPT, PhD

Title: Factors Affecting Outcomes in Patients with Lower Limb Amputation

9:00 – 9:55

Dr. Sheila Clemens is an Assistant Professor in the Department of Physical Therapy at the University of Kentucky and a research scientist at the Lexington VA Medical Center. She received her BS in Biology from Michigan State University in 1992 and her Master of Physical Therapy from the University of Michigan in 1995. After many years as a clinician, she returned to academia to attain her PhD in 2017 from the University of Miami with a specialization in amputation rehabilitation. Her research and teaching interests focus on examining outcomes after lower limb amputation and the effects of socioenvironmental factors on prosthetic gait mechanics and mobility.



All presentations will be approximately 12 minutes long with 2-3 minutes allowed for questioning. There will be 15-minute panel discussion led by the moderator at the end of each session (consisting of 4-5 presentations) for anyone to ask questions. There will be two room presenting simultaneously and zoom will be available please feel free to move room to room as your interest dictates. We will do our best to stay on schedule throughout the day so individuals can watch presentations they are interested in. Faculty will be grading student presentations based on the rubric provided. Participants joining us for CEU's will have the opportunity to give feedback by using the program evaluation form for any presentation they observe, please feel free to share your comments as all feedback is appreciated. We expect to students to stay present throughout the day and participants can go and come as needed. Please submit the evaluation to a moderator in the room or email your form to Tim Uhl at tim.uhl@uky.edu. We will email your attendance certificate and you will be responsible to identify the hours that you actually participated.

Student Presentation in Room 1 CTW 014

Room 1			
Time		Details	Topics
10:00	Title	<i>Is there evidence to show that vestibular therapy is effective at decreasing feelings of dizziness in patients diagnosed with Multiple Sclerosis?</i>	Neuro-vestibular
	Students	Brett Messmer, Chris Hunt	
	Advisor	O'Dell	

10:15	Title	<i>Is there evidence to support aerobic exercise to reduce symptoms and decrease time of recovery in adolescents diagnosed with a sports-related concussion?</i>	Head
	Students	Emma Taormina, Jake Purkins	
	Advisor	Pabian	

10:30	Title	<i>Is there evidence that cervical sustained natural apophyseal glides (SNAG) will reduce headache symptoms and increase function in women with cervicogenic headaches measured by the NDI?</i>	Head
	Students	Rachael Husdon, Anna Carey	
	Advisor	Uhl	

10:45	Title	<i>In adults with recurrent/persistent concussion symptoms, is there to evidence to support implementation of vestibular rehab to decrease dizziness symptoms via the Dizziness Handicap Index (DHI)?</i>	Head
	Students	Cody Hisle, Trey Kirtley	
	Advisor	O'Dell	

11:00	Title	<i>Is there evidence to support the use of vestibular rehabilitation therapy in conjunction with standardized care to improve DIH scores in individuals that have experienced mild to moderate traumatic brain injuries in comparison to standardized care alone?</i>	Head
	Students	Greg Klein, Ryan Baird	
	Advisor	Witt	
11:15		Panel Discussion Led by Witt	

11:30		Lunch	
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Time		Details	Topics
12:30	Title	<i>In patients with spinal cord injuries, how effective is the use of powered exoskeletons in improving mobility outcomes in the 10mWT?</i>	Neuro Gait
	Students	Katherine Schaaf, Karson Grizzard	
	Advisor	Lee	

12:45	Title	<i>Is there evidence to suggest that virtual reality training is more effective at improving gait speed in patients' post-stroke than conventional gait training alone?</i>	Neuro Virtual Gait Training
	Students	Chloe Thorner, Marissa Frommeyer	
	Advisor	O'Dell	

1:00	Title	<i>Is there evidence to support the use of balance training in patients with Parkinson's disease to improve the long-term effects on their balance and gait speed?</i>	Neuro Gait
	Students	Jordan Wheatley, Autumn Able	
	Advisor	Lee / Johnson	

1:15	Title	<i>In patients with chronic stroke, what is the effect of virtual reality training on dynamic balance when compared to conventional physical therapy?</i>	Neuro Balance
	Students	Zach Grills, Ko Nakanishi	
	Advisor	Gohrband	

1:30	Title	<i>What interventions are supported to reduce falls of post-stroke patients in their community over the course of a year?</i>	Neuro Fall prevention
	Students	Elle Gall, Matthew Beach	
	Advisor	Kitzman	
1:45		Panel Discussion Led by Johnson	
		15-minute Break	

2:15	Title	<i>Do children with CP display a faster gait speed after completing treadmill training as compared to over ground walking?</i>	Pediatrics
	Students	Micaela DeVane, Emily Johnson	
	Advisor	Gohrband	

2:30	Title	<i>Is evidence that intensive physical therapy treatment is more effective at improving gross motor function compared to standard physical therapy treatment in children with cerebral palsy?</i>	Pediatrics
	Students	Abby Wrightson, Audrey Hullette	
	Advisor	Gohrband	

Time		Details	Topics
2:45	Title	<i>Changes in short-term muscle stiffness following roller massage in health young adults</i>	Ortho Massage Research
	Students	Eric Gilland	
	Advisor	Dupont	

3:00	Title	<i>In patients with lateral epicondylitis, is extracorporeal shock wave therapy (ESWT) or steroid injection more effective at reducing pain?</i>	Ortho
	Students	Jordan Wilkerson, Byron Rice	
	Advisor	Uhl	

3:15	Title	<i>In patients with posterior shoulder tightness, is there evidence stretching with scapular stabilization has greater benefit on ROM compared to stretching with non-stabilization of the scapula?</i>	Ortho Research
	Students	Asia Seidt, Alec Baunach	
	Advisor	Uhl	
3:30		Panel Discussion Led by Uhl/Gohrband	

Student Presentation in Zoom Room 2 CTW 219

Room 2			
Time		Details	Topics
10:00	Title	<i>In patients who undergo CABG, does an inspiratory muscle training program increase 6MWT distance compared to those who undergo conventional treatment?</i>	Acute
	Students	Andrew Shrum, Samantha Stapleton	
	Advisor	Mayer	

10:15	Title	<i>Is there evidence to show that upper extremity rhythmic interventions are beneficial in improving reaction time in people with Parkinson's disease?</i>	Neuro Research
	Students	Rebecca Moll, Logan Hill, Seth Hagan	
	Advisor	Johnson	

10:30	Title	<i>Do University of Kentucky student physical therapists retain and apply information about social determinants of health in their clinical education?</i>	Education Research
	Students	Kaitlyn Applegate, Gabby Imfield, Paige Dabney, Chloe Knotts	
	Advisor	Lee	

10:45	Title	<i>Is preoperative pelvic floor muscle training an effective intervention for males suffering from urinary incontinence following a radical prostatectomy compared to those who only have postoperative training?</i>	Pelvic Health
	Students	Natalie Dauterman, Kathleen Estill	
	Advisor	Lee	

11:00	Title	<i>Is there evidence to support pelvic floor muscle exercises improve Oswestry Disability Index scores in patients with non-specific low back pain?</i>	Pelvic Health
	Students	Regan Darst, Samantha Winslett	
	Advisor	Lee	
11:15		Panel Discussion Led by Lee	

11:30		Lunch	
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Time		Details	Topics
12:30	Title	<i>In patients with SI dysfunction is manual therapy more effective in reducing pain than mobilization techniques?</i>	Ortho
	Students	Houston Baker, Zeke Biallas	
	Advisor	Uhl	

12:45	Title	<i>In patients with chronic musculoskeletal pain, is there evidence that the Central Sensitization Inventory (CSI) is a reliable and valid screening tool for Central Sensitization Syndromes (CSS)?</i>	Ortho
	Students	Meagan Wilson, Christopher Baker	
	Advisor	Pabian	

1:00	Title	<i>Is there evidence to support that participating in a core stability exercise program is more effective at decreasing disability than participating in a general exercise program for individuals with chronic low back pain?</i>	Orho
	Students	Briana Lanham, Tiffany Russell	
	Advisor	Uhl	

1:15	Title	<i>Is there evidence that dry cupping is effective in increasing function, per the Oswestry Disability Index, in patients with low back pain?</i>	Ortho
	Students	Lindsey Hagman, Bridget Brown	
	Advisor	Uhl	

1:30	Title	<i>Is there evidence that supports the use of the StarT Back Tool as an effective stratification tool for patients with low back pain?</i>	Ortho
	Students	Sam Herringshaw, Iverson Griffin	
	Advisor	Uhl	
1:45		Panel Discussion Led by Pabian	

		15-minute Break	
2:15	Title	<i>Does core muscular endurance influence the risk of lower extremity sprains and strains in athletes who participate in competitive sports?</i>	Sports
	Students	Becky Wang, Sam Tebos	
	Advisor	Uhl	

Time		Details	Topics
2:30	Title	<i>Is there evidence to support that active individuals with overpronated feet, assessed using the navicular drop test, are at a greater risk of developing Medial Tibial Stress Syndrome compared to individuals with lower navicular drop test measurements.</i>	Sports
	Students	Ben Kendrick, Jack Graham	
	Advisor	Uhl	

2:45	Title	<i>For patients who are post-total hip arthroplasty, does supervised exercise increase gait speed better than unsupervised exercise?</i>	Ortho
	Students	Marcus Baker	
	Advisor	Uhl	

3:00	Title	<i>Is there evidence that conservative treatment is as effective as hip arthroscopy in improving function at patients with femoroacetabular impingement after one year?</i>	Ortho
	Students	Allie Hull, Noe Ayala	
	Advisor	Uhl	
3:15		Panel Discussion Let by Malone	