

Professional Enrichment Course

University of Pittsburgh School of Medicine Office of Medical Education

PEC Registrar – Denise Downs <u>ddowns@pitt.edu</u> 412-648-8749

Rehabilitation Concepts in Muscle, Joint, Brain, & Nerve Physiology

Enrollment Period:	Spring 2022				
Course Dates:	Coo holow				
Course Dates.	See below				
Student Max:	10				
Class Year:	MS1, MS2				
Course Director:	Brad Dicianno, MD Email: dicibe@upmc.edu				
Course Administrator:	Isabel Z. Romanowski romanowskiiz@upmc.edu				
Location:	See below				
Registration:	Via Amp Up – You will receive an email with enrollment info				
Course Description:	This four-session professional enrichment course introduces students to rehabilitation concepts in the physiology of muscle, joints, brain and nerves.				
	Sessions are held at various locations for hands-on experience and observation. The goal of this program is to explore the relationship among anatomy, physiology, and human motion. This course highlights ways rehabilitative efforts and technology can be used to diagnose and treat disorders of the neuromuscular system. Through both didactic and hands-on exposure at these sites, this series covers topics including:				
	 The use of musculoskeletal ultrasound to identify normal and pathological structures of joints The pathophysiology and treatment of traumatic brain injury and concussion. Anatomy of joints and techniques used to guide injections The use of Nerve Conduction Studies and Electromyography as a way to diagnose neuromuscular diseases. Basic pathology and effects of spinal cord injury, including management of spasticity 				

Objectives:	 To understand the physiology of traumatic brain injury To understand the anatomy of the major joints To become familiar with Nerve Conduction Studies and Electromyography and understand their role as an extension of the physical examination. To review nerve and muscle physiology, including muscle recruitment as demonstrated by EMG To understand multimodal management of upper motor neuron spasticity including botulinum toxin injections and baclofen pump management To understand the basic pathology of a spinal cord injury and related functional deficits based on level of injury 			
Pre-Requisites:	None			
Requirements:	Participate in all 4 course sessions			

Faculty:

Dr. Gary Galang

Dr. Amanda Harrington

Dr. Kentaro Onishi

Dr. Suehun Ho

Dr. Jennifer Shen

Dr. Jessica Berry

January 4 (5-8 PM)

Traumatic Brain Injury

Location: Virtual teams meeting Instructor: Dr. Gary Galang

January 31 (1-5PM)

Musculoskeletal Exam and Ultrasound

Location: Meet in Kaufmann Medical Building Suite 910 Conference Room

Instructors: Drs. Kentaro Onishi and Suehun Ho

February 8 (1-5PM)

Electromyography and Nerve Conduction

Location: Meet at inpatient Stroke Rehab Unit, Mercy Hospital, 6th Floor, Dining Room

Instructor: Dr. Jennifer Shen

February 25 (1-5PM)

Spinal Cord Injury, Spasticity, Baclofen Pumps, and Botox Injections

Location: Meet in Mercy Inpatient Spinal Cord Injury Unit Resource Room 7015

Instructor: Drs. Amanda Harrington and Jessica Berry

Special Instructions:

Professional dress is requested for the spasticity and TBI groups. Please wear scrubs for the other two sessions. You will receive an outlook invitation from Isabel Romanowski for each of the four sessions. Please take it upon yourself to put these sessions and their locations on your own calendar as you will not receive reminders about the events.