

Defining the Future of Laser-Based Care: Changing the Orthopedic and Neurological Treatment Paradigm

Northwestern Health Sciences University

DATE: December 8-9, 2023

CE HOURS: 12

LOCATION: Greenville, SC or Live Stream

INSTRUCTORS: Brandon Brock, DNP, NP-C, DC, RN, DACNB; Kristin Hieshetter, DC

Friday, December 8, 2023		11:00 am – 6:30 pm	
Time	Category / CE Hrs	Description	Instructor
11:00 – 12:00 pm	Basic Sciences 1 CE	Therapeutic Laser in The Human Body <ul style="list-style-type: none"> • Low-Level Laser fundamentals • Classes of lasers and their medical applications • Hormesis and low-level laser applications • Overview of common clinical conditions amenable to laser care 	Kristin Hieshetter
12:00 - 1:00 pm	Basic Sciences 1 CE	From the Cell to the System <ul style="list-style-type: none"> • Wavelength and electron transport chain function • Mitochondria, cellular respiration, and ATP production • Neuronal Excitotoxicity • Neuronal Plasticity 	Brandon Brock
1:15 – 2:15 pm	Physiological Therapeutics 1 CE	Epigenetic Influences on Cellular Health <ul style="list-style-type: none"> • Neurochemistry and Nutrition • Glycation, degeneration, and aging • Fatty acid ratio implications in human physiology • Baseline supplementation for optimizing brain health 	Kristin Hieshetter
2:15 – 3:15 pm	Research Trends 1 CE	From the Cellular Environment to the Systems <ul style="list-style-type: none"> • Causes of inflammation • Metabolic syndrome, obesity, and joint pain • Review of basic labs • Case study 	Brandon Brock

3:30 – 4:30 pm	Adjustive Technique 1 CE	Gut-Brain Systems in Central Nervous System Recovery <ul style="list-style-type: none"> • Traumatic Brain Injury – Case Study • Vertebral Fracture, rib fracture, concussion – Case Study • Enteric Nervous System Interventions • Cranial Protocols 	Kristin Hieshetter
4:30 – 5:30 pm	Principles of Practice / Philosophy 1 CE	A Developing Systems Approach to Treatment <ul style="list-style-type: none"> • Creating the hierarchy of treatment • The joint-brain connection • Brain therapeutics • Brain therapeutics 	Brandon Brock
5:30 – 6:30 pm	Adjustive Technique 1 CE	Brain and Biomechanical Connection <ul style="list-style-type: none"> • Treatment of the foot and ankle • Demonstration of evaluation, diagnoses, and clinical concepts • Demonstration of evaluation, diagnoses, and clinical concepts • Case study 	Brandon Brock

Saturday, December 9, 2023			8:00 am – 1:30 pm
Time	Category / CE Hrs	Description	Instructor
8:00 – 9:00 am	Adjustive Technique 1 CE	Brain and Biomechanical Connections <ul style="list-style-type: none"> • Assessment of Pelvic instability • Active and Passive approaches to stabilize sacroiliac joints • Demonstration of evaluation, diagnoses, and clinical concepts • Case Study 	Kristin Hieshetter
9:00 – 10:00 am	Adjustive Technique 1 CE	Brain and Biomechanical Connections <ul style="list-style-type: none"> • Treatment of the knee and lower extremity and biomechanics • Demonstration of evaluation, diagnoses, and clinical concepts • Demonstration of evaluation, diagnoses, and clinical concepts • Case study 	Brandon Brock
10:15 – 11:15 am	Exam/Diagnosis	Brain and Biomechanical Connections	Kristin Hieshetter

	1 CE	<ul style="list-style-type: none"> • Assessment of temporomandibular joint • Cranial adjusting support for temporomandibular joint • Demonstration of evaluation, diagnosis, and clinical concepts • Case Study 	
11:15 – 12:15 pm	Exam/Diagnosis 1 CE	Brain and Biomechanical Connections <ul style="list-style-type: none"> • Treatment of the shoulder and elbow • Demonstration of evaluation, diagnoses, and clinical concepts • Demonstration of evaluation, diagnoses, and clinical concepts • Case study 	Brandon Brock
12:30 – 1:30 pm	Exam/Diagnosis 1 CE	Brain and Biomechanical Connections <ul style="list-style-type: none"> • Cervicogenic headache • Cerebrospinal fluid gradients and the dural pump • Environmental EMF exposure and subsequent risk to the cells • Demonstration or evaluation, diagnoses, and clinical concepts 	Kristin Hieshetter