

POWER UP - Enhancing Mitochondrial Health for Optimal Well-Being

Northwestern Health Sciences University

DATE: May 17-18, 2024

CE HOURS: 12

LOCATION: Atlanta, GA or Live Stream

INSTRUCTORS: Dan Murphy, DC, DABCO and Ryan Manning, DC

Friday, May 17, 2024			12:00 pm – 6:45 pm
Time	CE	Description	Instructor
12:00 pm – 1:00 pm	Anatomy 1 hr	Review Aging Theories <ul style="list-style-type: none"> The Free Radical Theory of Aging The Nitric Oxide Theory of Aging 	Dr. Muphy
1:00 pm – 2:00 pm	Adjunctive / Modalities 1 hr	The 2021 Nobel Prize <ul style="list-style-type: none"> Integrating the chiropractic care, innate nutrition, supplements, and laser physiology around the 2021 Nobel Prize in Physiology and Medicine 	Dr. Muphy
2:15 pm – 3:15 pm	Therapeutic Lasers 1 hr	The Electromagnetic Spectrum <ul style="list-style-type: none"> Learn the basics of both visible and invisible “light.” Integrate wavelength, frequency, energy, depth of penetration, ionization, voltage-gated calcium ion channels, and perioxynitrate. 	Dr. Muphy
3:15 pm – 4:15 pm	Therapeutic Lasers 1 hr	Laser Physiology <ul style="list-style-type: none"> Discuss the biphasic nature of laser photon therapy, wavelength (colors), pulsing, speed of light, fluence, secondary and primary physiological influences. Discuss the biphasic nature of laser photon therapy, including bell-shaped curve, hormesis, and the Arndt-Schultz Law of biology. 	Dr. Muphy
4:45 pm – 5:45 pm	Therapeutic Lasers 1 hr	Case Studies, ROM, and Pathophysiology of LLL on Pain <ul style="list-style-type: none"> Clinical indications and application of Protocols (laser positioning, frequencies, and time of treatment). Discuss and demonstrate the inverse relationship between range of motion and pain. Discuss physiology and effects of LLL on the pain pathway. 	Dr. Manning
5:45 pm – 6:45 pm	Therapeutic Lasers 1 hr	Application of LLL and Manual Techniques to the Cervical Spine <ul style="list-style-type: none"> Integrating chiropractic care, manual therapy techniques, and LLL technique to structures affecting the cervical spine. 	Dr. Manning

		<ul style="list-style-type: none"> • Demonstration of low impact techniques for the practitioner and patients, how to restore Dynamic Motion. • Anatomy review. 	
Saturday, May 18, 2024		8:00 am – 3:00 pm	
Time	CE	Description	Instructor
8:00 am – 9:00 am	Anatomy 1 hr	Cell Biology <ul style="list-style-type: none"> • Distinguish between Glycolysis, Krebs Cycle, and Electron Transport Chain metabolism. • Learn the details of the mitochondrial electron transport chain 	Dr. Murphy
9:00 am – 10:00 am	Pain Management 1 hr	Low Back Pain and Gut Protocols <ul style="list-style-type: none"> • A poly-therapeutic integrative approach for chronic low back pain • Protocol for influencing immunology and the brain through the intestinal tract; integrating the vagus nerve and the nucleus tractus solitarius 	Dr. Murphy
10:30 am – 11:30 am	Adjustive Technique 1 hr	Whiplash Injury and Thoracic Outlet Syndrome Protocols <ul style="list-style-type: none"> • A protocol for acute and chronic whiplash injury • A protocol for Thoracic Outlet Syndrome 	Dr. Murphy
11:30 am – 12:30 pm	Neurology 1 hr	Brain Protocol <ul style="list-style-type: none"> • A protocol for brain function; integrating trauma, degenerative, and vascular compromise. • A protocol for cognitive enhancement 	Dr. Murphy
1:00 pm – 2:00 pm	Therapeutic Lasers 1 hr	Application of LLL and Manual Techniques to the Lumbar Spine. <ul style="list-style-type: none"> • Integrating Chiropractic care, manual therapy techniques, and LLL techniques to the structures affecting the Lumbar Spine. • Demonstration of low impact techniques for the practitioner and patients, how to restore Dynamic Motion. • Anatomy Review 	Dr. Manning
2:00 pm – 3:00 pm	Therapeutic Lasers 1 hr	Application of LLL and Manual Therapy to the Extremities. <ul style="list-style-type: none"> • Integrating Chiropractic care, manual therapy techniques, and LLL techniques to the structures affecting the Extremities and Joints of the: Shoulder, Elbow, Wrist, Hands, Hip, Knee, Ankle and Feet. • Demonstration of low impact techniques for the practitioner and patients, how to restore Dynamic Motion. • Anatomy Review 	Dr. Manning