



UNIVERSITY OF
BRIDGEPORT

Register today!

NEUROMUSCULOSKELETAL MEDICINE SYMPOSIUM

August 2-4, 2024

The University of Bridgeport through the Health Sciences Postgraduate Education Department is offering a postdoctoral program in Neuromusculoskeletal Medicine.



SPEAKER

**Steven Brown,
DC, Dipl Med Ac**

Chiropractic Expert Witness
& IME

Featured speakers include Drs. Steven Brown, Anthony Nicholson, and Nelson Marquina.



SPEAKER

**Anthony Nicholson,
DC, DACNB, DIANM**

CEO, Chiropractic Development
International

Location: on campus in the Chiropractic Building at the corner of Linden and Hazel on August 2-4, 2024 (Friday, Saturday, and Sunday).



SPEAKER

**Nelson Marquina,
MSc, DC, PhD**

CSO, Laser Biotech
International

The classes will provide 14-hours of continuing education units for licensure renewal, MOC for the DIANM doctors, and credits toward the 300-hour NMSM program. Tuition: \$300 per doctor

To register contact Eileen

eherlihy@bridgeport.edu



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Reserve rooms before July 5th
\$159 per night (limited number)
Trumbull Marriott Shelton
180 Hawley Lane, Trumbull CT
1-800-682-4095

SCHEDULE

Friday August 2, 2024

Registration: 12:30 – 1:30 pm

Dr. Steven Brown

Title: Plausible Mechanisms by Which Cervical Spine Manipulation Can Cause Stroke & Clinical Implications for the Standard of Care (4 hours of CEU)

Class: 1:30 pm until 3:10 pm

Visit with vendors and break: 3:10 pm until 3:30 pm

Class: 3:30 pm, until 5:00 pm

No host private dinner at 29 Markle in Bridgeport: 5:00 pm until 6:30 pm. Please RSVP.

Saturday August 3, 2024

Dr. Anthony Nicholson

Title: The Unique Role of the Chiropractic Specialist in High Impact Chronic Pain: Realize Your Clinical Potential to Change Lives (6 hours of CEU)

Class: 9:00 am until 10:40 am

Visit with vendors and break: 10:40 am until 11:00 am

Class: 11:00 am until 11:50 am

Lunch: 11:50 am until 1:30 pm

Class: 1:30 pm until 3:10 pm

Visit with vendors and break: 3:10 pm until 3:30 pm

Class: 3:30 pm, until 5:00 pm

Reception: 5:00 pm until 6:30 pm.

Sunday August 4, 2024

Dr. Nelson Marquina

Title: Neuroinflammation from TBI and Concussions: Biophysics and Treatment Guidelines (4 hours of CEU)

Class: 9:00 am until 10:40 am

Visit with vendors and break: 10:40 am until 11:00 am

Class: 11:00 am until 12:40 pm



SPEAKERS



**Steven Brown, DC,
Dipl Med Ac**

Dr. Steven Brown is originally from Springfield, Illinois, and is a 1989 Cum Laude graduate of Illinois State University with a double major in Philosophy and History. He received his Doctor of Chiropractic degree and Acupuncture certification from Logan University in 1994, and his Diplomate in Medical Acupuncture from the International Academy of Medical Acupuncture in 1998. He has extensive postgraduate education in cervical spine manipulation, cervical artery dissection, and stroke.

Dr. Brown has been in clinical practice in Arizona since 1995, and is a Faculty Associate at Arizona State University. He has published articles in *Cureus*, *Attorney At Law*, *Chiropractic Economics*, and *Dynamic Chiropractic*. Dr. Brown serves as a chiropractic expert witness for the Plaintiff or Defense in medicolegal cases emphasizing cervical spine manipulation, vertebral artery dissection, internal carotid artery dissection, stroke, pneumothorax, disc injury, and spinal cord injury. He does peer review for the academic journals *Stroke* and *Cureus*.



**Anthony Nicholson,
DC, DACNB, DIANM**

Dr Anthony Nicholson is the CEO of Chiropractic Development International (CDI), a global continuing education organisation for practicing chiropractors that he co-founded in 2002. CDI delivers online advanced continuing education to chiropractors across Australia, New Zealand, North America, the UK, Europe and South East Asia. CDI currently provides 300 hours of advanced online clinical training in Neuromusculoskeletal Medicine to the University of Bridgeport as a post-doctoral education pathway toward becoming a board-certified chiropractic specialist (DIANM).

Dr Nicholson graduated as valedictorian from Macquarie University in Sydney in 1997. As a partner of Spine Partners Wahroonga in Sydney Australia, Dr Nicholson is a full-time chiropractic doctor in private practice, a board-certified chiropractic neurologist (DACNB), a Diplomate of the International Academy of Neuromusculoskeletal Medicine (DIANM) and an expert witness in medicolegal cases. Dr Nicholson was an adjunct lecturer in Neuromusculoskeletal Diagnosis and Evidence-based Practice at Macquarie University in Sydney for 18 years.



**Nelson Marquina, MSc,
DC, PhD**

Dr. Marquina is former Senior Scientist at NASA/JSC and Director of Research at Logan University. He conducts seminars in laser photobiomodulation and photobiology in Argentina, Australia, Canada, China, Japan, Uruguay, and USA.

He has served on the faculties of the University of Houston as Assistant Professor (Systems Engineering), University of Rhode Island as Associate Professor (Electrical Engineering), and Virginia State University as Associate Professor (Physics).

Dr. Marquina is the author of "Energy Medicine: Focus on Lasers," chapter 10 of *The Scientific Basis of Integrative Health* and "Lasers in Dentistry", a chapter in *Pain Relief and Healing with Lasers: Dental Protocols of Laser Treatments* (in Japanese). He has also authored journal articles and conference presentations in spinal biomechanics, pain relief and tissue regeneration, laser biophysics, and in artificial intelligence for the US Department of Defense.



COURSE DESCRIPTIONS

Plausible Mechanisms by Which Cervical Spine Manipulation Can Cause Stroke & Clinical Implications for the Standard of Care **Instructor: Steven Brown, DC, Dipl Med Ac**

A narrative review of the literature proposing plausible mechanisms of causation of immediate stroke following cervical spine manipulation (CSM). Eleven studies are reviewed, ranging in publication from 1989 to 2016. The lead researchers are six neurologists, four chiropractors, and one physiotherapist. One neurologist is also a chiropractor. Studies were excluded if they did not propose a mechanism of causation. The common premise of these mechanisms of causation is cervical artery dissection (CAD) being present before CSM, not caused by CSM. Medicolegal causation of stroke by CSM can be established with a systematic approach incorporating plausibility, temporality, and the lack of a more probable alternative explanation.

Medicolegal and clinical implications for physicians performing CSM are discussed. Research into an intimal flap mechanism of causation is indicated, as are more targeted epidemiological studies. Clinical practice guidelines to inform standard of care in this area are discussed.

The Unique Role of the Chiropractic Specialist in High Impact Chronic Pain: Realize Your Clinical Potential to Change Lives **Instructor: Anthony Nicholson DACNB, DIANM**

This presentation proposes a conceptual model for the role of the chiropractic specialist in the interdisciplinary and evidence-based management of the chronic pain patient. Attendees will be able to distinguish between *acute, chronic and high impact chronic pain*, and be able to confidently answer questions such as: with the chronic pain patient, what are we 'diagnosing', what are we 'managing', and how are we communicating our role within the broader healthcare system?

Through the eyes of the chronic pain patient, the modern healthcare environment is a maze of dizzyingly complex technology, an alphabet of physicians, and a compendium of pain medications. Centuries on from the advent of modern healthcare, the skilled clinical examination and evidence-guided diagnosis reign supreme. The hands-on application of physical forces with therapeutic intent remains one of the most clinically and cost-effective forms of healthcare in existence. When this is combined with the right words to build patient rapport, the chiropractic specialist is uniquely positioned to help achieve an extremely worthwhile goal: to reduce patient suffering and improve their quality of life.

Neuroinflammation from TBI and concussions: biophysics and treatment guidelines **Instructor: Nelson Marquina, MSc, PhD, DC**

TBI and concussions are difficult conditions to treat. Fortunately, nowadays we have better imaging and cognitive diagnostic tools to ascertain the patient's pathophysiological status. Participants will receive enough information to assist TBI and concussion patients. Participants will also obtain information on available diagnostic and therapy tools, clinical and technical resources, and training programs to expand their practice to manage TBI and concussion cases.

Key presentation points

- Inflammation caused by TBI and concussions activate microglia and astrocytes affecting brain function and tissue repair.
- Photobiomodulation with a laser can reduce neuroinflammation and restore brain function.
- Depending on technical characteristics such as wavelength, and pulse and average powers, lasers could safely penetrate deeply into tissues, including the brain, with minimal thermal buildup.
- Understanding the biophysics of laser-tissue interactions is essential to develop safe and effective treatment protocols for brain tissues.