

Dr. Jason Mazzearella

DC, DAAPM, DCAPM, DAAETS, DqEEG (c), DWTT (D), FIAMA, MVC-FRA, CATSM, CBIS, CMVT, CPM, CDRSC, CDAAC, BSc Kin, BSc HPA



## Dr. Mazzearella Professional Highlights:

- Doctor of Chiropractic
- BSc Kinesiology Movement Science and Health Policy Administration
- Accident Reconstruction Level 1-3 Toronto Police
- Crash Data Retrieval and Analysis Certification Toronto Police
- Accident Investigation Northwestern University of Public Health
- Motor Vehicle Crash Forensics Risk Analysis Certification 1 of 188 in the world.
- Post Graduate Lecture (Medical and ACR): Only medically accredited and sponsored program on Whiplash in the world.
- Recognized: Leading Physicians of the World 2014

## Medical Background Licensed Doctor USA and Canada

- Diplomat American Academy of Pain Management 2011 and 2016
- Diplomat Canadian Academy of Pain Management 2011
- Diplomat American Academy of Experts in Traumatic Stress 2010
- Fellowship International Academy of Medical Acupuncture 2006
- Registered Acupuncturist CTCMPAO 2014
- Certification Motor Vehicle Trauma 2011
- Certification Pain Management 2010
- Certification Acute Traumatic Stress Management 2011
- Certification Brain Injury 2009
- Certificate Whiplash and Brain Traumatology 2005
- Advanced Certificate of Competency Whiplash & Brain Traumatology 2011
- NBCE Certified Physiotherapy Competency 2005
- BSc. Kinesiology Movement Science 2001
- BSc. Health Policy and Administration 2001
- Kinesiology/Physics Training: 37 Credits
- Over 50,000 Motor Vehicle Accident Examinations and treatments

## Crash Forensics and Accident Reconstruction Background Certifications USA and Canada

- Crash Data Retrieval System Operators (Technician) Certification 2012
- Crash Data Analysis and Application Certification 2013
- Crash Data Retrieval System Operators (Technician) Certification 2012
- Certificate Accident Investigation Northwestern University 2011
- Certification Accident Investigation and Reconstruction Level 2, 2012
- Certification Accident Investigation and Reconstruction Level 3, 2013
- Certification Motor Vehicle Crash – Forensics Risk Analysis 2006

## Additional Background

- Testing Accident Reconstruction and Investigation/Crash Forensics
- Over 400 continuing education hours of CCE approved continuing education in motor vehicle trauma related programs.
- Over 460 continuing education hours of Accident Investigation and Accident Reconstruction training.
- Over 20 continuing education hours of CCE approved continuing education in live scale human volunteer crash testing research and study.
- 17 hours of continuing education in Biomedical Sciences.
- Live Human Volunteer Crash Testing – Pedestrian Crash Test
- Live Human Volunteer Crash Testing – High Speed Crash Test
- Live Human Volunteer Crash Testing – Low Speed Crash Test
- Mock Fatal Pedestrian Crash Testing.
- Dynamic Field Testing: Coefficient of Friction, Skid Distance, Speed Analysis
- Post Graduate Lecture: Toronto Police College Level 4 Accident Reconstruction Certification: Crash Forensics and Injury Potential.
- Expert Testimony: Motor vehicle trauma, pain, crash forensics and injury biomechanics/kinematics in Virginia, Court Case No: CL-2007-4185.

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## EXPERIENCE

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**Doctor – Universal Health & Rehabilitation, PC**  
*Toronto, Ontario*

2008 – Present

- Patient Assessment and Treatment

Treatment Services Include

- Chiropractic Care (CMT-D, SOT, Drop, Flexion/Distracton)
- Physiotherapy
- Acupuncture (Needle and Electrical)
- Auricular Acupuncture
- Kinesiology
- Nerve Mobilization
- Vestibular and Concussion Rehabilitation
- Alpha Stimulation
- Functional Neurology
- Photobiomodulation
- Neuro-Acoustic Therapy
- Neuro-Optic Therapy
- Nutrition
- qEEG Assessment
- Neurofeedback
- Biofeedback
- Physical Medicine Chronic Pain Therapy

**Director - North American Spine Institute, Inc.**  
*Toronto, Ontario*

2006 – Present

- Independent Medical Review and Assessment
- Post Graduate Instructor and Educator
- Medical Management and Consulting
- Medical Witness - Medical Expert Testimony Services (USA)
- Preferred Provider – Multiple Nationally Licensed Auto Insurers Ontario.
- Medical Review Expert: Large National Insurance Company 2015: Review of "Enabling Recovery From common Traffic Injuries: A focus on the Injured Person. Ontario Protocol for Traffic Injury Management Collaboration" for Insurer FSCO recommendations.

Independent Medical Assessment Services Include:

- Motor Vehicle Crash Forensics Risk Analysis Examination and Assessments
- Chronic Pain Assessments
- Mild Traumatic Brain Injury Assessments
- qEEG Neurophysiology Assessments
- sEMG Neurophysiology Assessments
- Work Site Assessments
- Physical Demands Analysis Assessments
- Functional Demands Analysis Assessments
- Minor Injury Guideline/Whiplash Guideline Assessments for Appropriateness
- In Home Assessments
- Disability Evaluation Assessments
- Orthotic Gait Analysis Assessments
- Rebuttal Independent Medical Assessments
- Independent Medical Assessments Plaintiff and Defense
- Defense Medical Assessments - Tort
- Plaintiff Medical Assessments - Tort

**Medical Assessor Plaintiff Bar**

2008 - Present

*Toronto, Ontario*

- Independent Medical Review and Assessment
- Motor Vehicle Crash Forensics Risk Analysis Examination and Assessments
- Chronic Pain Assessments
- Mild Traumatic Brain Injury Assessments
- Neurofunctional EEG Assessments
- Neurofunctional sEMG Assessments
- Vestibular Impairment Assessments
- Functional Abilities Evaluations
- Work Site Assessments
- Physical Demands Analysis Assessments
- Minor Injury Guideline/Whiplash Guideline Assessments for Appropriateness
- In Home Assessments and Form 1 (Pre-2015)
- Disability Evaluation Assessments
- Orthotic Gait Analysis Assessments
- Rebuttal Independent Medical Assessments
- Catastrophic Impairment Medical Assessments

**Director – Integrity Medical Examinations, Inc.**

2020 – Present

*Toronto, Ontario*

- Independent National Auto Insurer Medical Review and Assessments
- Motor Vehicle Crash Forensics Risk Analysis Examination and Assessments
- Electrophysiologic Electroencephalographic Assessment and Physical Examination
- Minor Injury Guideline/Whiplash Guideline Assessments for Appropriateness
- Neurology Medical Assessments
- Chronic Pain Assessments
- Functional Abilities Evaluations
- Work Site Assessments
- Physical Demands Analysis Assessments
- Medical Paper Review Assessments

**Medical Journal Review – Board Member**

2019 – Present

*Toronto, Ontario*

- Journal of Anesthesia & Pain Research

**Medical Expert**

2008

*Manassas, Virginia*

- Tort Claim: Francisco Jimenez vs. John Doe, et al.
- Case No: CL-2007-4185
- Circuit Court for Fairfax County
- Service: Crash Forensics Analysis, Chronic Pain, Rehabilitation Requirements, Injury Determination and Radiographic Review (Chest / Rib Fractures)

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**EDUCATION**

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**New York Chiropractic College**

2003 – 2006

*Seneca Falls, New York*

- Doctor of Chiropractic Degree
- United States Olympic Training Center Elite Science Rotation 2004
- Buffalo New York Veteran's Hospital 4-month Orthopaedic Rotation 2005
- Buffalo New York Veteran's Hospital 4-month Chiropractic Rotation 2005
- Buffalo MRI & CT Rotation 2005

- Erie County Medical Centre Emergency Room Rotation 2005
- Western NY MRI Rotation 2006
- Externships
  - o Espy Chiropractic 2004
  - o Cox Chiropractic 2005
  - o Mineral Springs Chiropractic 2005 – 2006
- Completed over 5040 contact hours of training.
- Licenses
  - o Pennsylvania Chiropractic License 2006 – Present
  - o Pennsylvania Physiotherapy Board Certification 2006 – Present
  - o Virginia Chiropractic License 2006 – 2014
  - o New York Chiropractic License 2008 – Present
  - o National Board of Chiropractic Examiners
    - Part 1
    - Part 2
    - Part 3
    - Part 4
    - Ancillary Procedures
  - o Canadian Chiropractic Examination Board
    - Part 1
    - Part 2
    - Part 3

**Pennsylvania State University** 1997-2001  
*State College, Pennsylvania*

- Bachelor of Science – Kinesiology Movement Science
- Internship
  - o Centre Chiropractic 2000
  - o Centre Industrial Rehabilitation Associates 2001

**Pennsylvania State University** 1997-2001  
*State College, Pennsylvania*

- Bachelor of Science – Health Policy and Administration
- Internship
  - o Windber Medical Center 2000
    - Worked in conjunction with Walter Reed Medical Center in implementing the Dr. Dean Ornish Program for reducing Coronary Artery Disease
  - o Windber Medical Center – HealthStyles 2000
- Externships
  - o Conemaugh Memorial Medical Center 2000
  - o Prince William Health Systems 2005
  - o Annaburg Manor 2005

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**EDUCATION – POST-GRADUATE**

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**Behavioral Medicine Research and Training Foundation**

- Diplomate Program – Quantitative Electroencephalogram as an Assessment Tool for Brain-Based Disorders. 2020

**Academy of Integrative Pain Management** 2018  
Sonora, California

- Diplomate – Pain Management

- Multidisciplinary patient centered management and examination training.

**Toronto Police College**  
Toronto, Ontario

2013

- Accident Reconstruction Level 3 Certification
- Contact Hours: 80

Training:

- Drag Factor Determinations
- Grade and Super Evaluation Determinations
- Speed Distance Determination
- Skid to Stop Distance Determination
- Negative Skid to Stop Distance Determination
- Roadway Evidence
- Scaled Diagrams
- Fall, Flip and Vault Speed Calculations
- Yaw Speed Calculations
- Critical Curve Speed Calculations and Analysis
- Dynamic Testing
- Vehicle Dynamics
- Radius Determination
- Lamp Examination
- Tire Examination
- Pedestrian Collision
- Systematic Collision Investigation
- Crush Analysis
- At Scene Accident Photography
- Dangerous Goods
- Time Distance Measurements
- Restraint System Evaluation
- Tire Mark Evaluation (Skid Marks, Tire Marks, Imprints, Yaw Marks)
- Interview Techniques
- Series of Events
- Vehicle Dynamics

**Toronto Police College**  
Toronto, Ontario

2012

- Accident Reconstruction Level 2 Certification
- Contact Hours: 80

Training:

- Drag Factor Determinations and Grade Evaluation
- Speed Distance Determination
- Skid to Stop Distance Determination
- Negative Skid to Stop Distance Determination
- Roadway Evidence
- Scaled Diagrams
- At Scene Accident Photography
- Dangerous Goods
- Time Distance Measurements
- Restraint System Evaluation
- Tire Mark Evaluation (Skid Marks, Tire Marks, Imprints, Yaw Marks)
- Interview Techniques
- Series of Events
- Vehicle Dynamics

**Toronto Police College**  
Toronto, Ontario

2011

- Crash Data Retrieval System Operators (Technician) Certification
- Contact Hours: 80
- Accredited by:
  - o Canadian Association of Technical Accident Investigators and Reconstructionist (CATAIR)
  - o Accreditation Commission for Traffic Accident Reconstruction (ACTAR)
- Training
- CDR System Components
- Vehicle Coverage
- Software Operations and Data Collection Analysis and Application for:
  - o Chrysler
  - o Ford
  - o GM

**Toronto Police College**  
Toronto, Ontario

2011

- Crash Data Analysis and Applications Certification
- Contact Hours: 80
- Accredited by:
  - o Canadian Association of Technical Accident Investigators and Reconstructionist (CATAIR)
  - o Accreditation Commission for Traffic Accident Reconstruction (ACTAR)
- Training
- CDR System Components
- Vehicle Coverage
- Software Operations and Data Collection Analysis and Application for:
  - o Chrysler
  - o Ford
  - o GM
- Delta V Reconstruction
- PDOF Reconstruction
- Other Variable Parameters Reconstruction

**Ontario Kinesiology Association**  
Mississauga, Ontario

2009-2012

- Certified Kinesiologist
- Assessment and Treatment of Human Movement
- Assessment of Performance and its rehabilitation and management.

**Canadian Academy of Pain Management**  
Hamilton, Ontario

2011

- Diplomate – Pain Management
- Multidisciplinary patient centered management and examination training - Rehabilitation.

**Northwestern University of Public Health**  
Chicago, Illinois

2010 – 2011

- Certification – Crash Investigation 1
- Contact Hours: 80

#### Training

- Preparation for Traffic Crash Investigation
- Information from and about people
- Information from Vehicles
- Information from Roads
- Measuring and Mapping the Crash Scene
- Photography of the Crash Scene and Damaged Vehicles

#### **Northwestern University of Public Health** Chicago, Illinois

2010 – 2011

- Certification – Crash Investigation 2
- Contact Hours: 80

#### Training

- Vehicle Damage Analysis
- Vehicle Behaviour
- Tire Damage Analysis
- Measurements and Methods
- Lamp and Filament Analysis
- Interpretation of Data and Specialized Data Gathering

#### **Spine Research Institute of San Diego** *San Diego, California*

2005 - 2011

- Certificate – Whiplash and Brain Traumatology
- 48 Contact Hours

#### Topics Included:

- Biomechanics of Whiplash Injury
- Occupant Kinematics
- Automobile Crash Reconstruction Methods
- Current Research and Knowledge of Soft Tissue, Endocrinological, Bony and Nervous System Disorders
- Advanced Imaging Techniques – Whiplash
- Comprehensive Case Management of Whiplash and Related Disorders

#### **American Academy of Pain Management** Sonora, California

2011 and 2016

- Diplomate – Pain Management
- Multidisciplinary patient centered management and examination training.

#### Topics Include:

- History of Pain
- Fibromyalgia
- Neuroscience of Pain and Analgesia
- Overview of Pain Concepts and Classifications
- Culture and Pain
- Pain and the Family
- Sex, Gender, and Pain
- Racial and Ethnic Issues in Chronic Pain Management
- Assuring the Quality of Pain Service, Assessing and Outcomes
- Chronic Pain and Addiction
- Opioid Therapy for Chronic Noncancer Pain

- The Role of Nursing in Pain Management
- Allopathic Specialists
- Pain Management and Dentistry
- Podiatric Medicine and the Painful Heel
- Chronic Spinal Pain
- Occupational Therapy
- Physical Therapy and Pain Management
- Social Work
- Vocational Rehabilitation
- The Pharmacist Role in Pain Management
- The Role of the Chaplain
- Acute Pain Management
- Neuropathic Pain
- Primary Headache Disorders
- Post-Traumatic Headache: Diagnosis, Pathophysiology and Treatment
- Temporomandibular Joint Dysfunction
- Abdominal Pain
- Fundamental Concepts in the Diagnosis of Low Back Pain
- Chronic Pelvic Pain
- Urologic Pain
- Rheumatologic Pain
- Orthopaedic Pain
- Treatment of Myofascial Pain Syndromes
- Complex Regional Pain Syndrome Types 1 and 2
- HIV and AIDS in Pain
- Injuries from Motor Vehicle Accidents
- Diagnosis and Management of Electrical Injury
- Psychological Assessment Tools in Clinical Pain Management
- Laboratory Testing in Pain Disorders
- Functional Capacity Evaluations
- Diagnostic Musculoskeletal Ultrasound
- Electrodiagnosis
- SEMG
- Impairment and Disability Determination
- The Biopsychosocial Perspective
- Psychotherapeutic Approaches in Pain Management
- Relaxation and Biofeedback
- Neurofeedback for Pain Management
- Hypnotherapeutic Advances in Pain Management
- Clinical Applications of Interactive Guided Imagery for Diagnosing and Treating Chronic Pain
- Nonsteroidal Anti-Inflammatory Drugs
- Opioids Used in Primary Care for the Management of Pain
- Natural Supplements in Pain Management
- The Role of Cannabis and Cannabinoids in Pain Management
- Guidelines for the Practice of Interventional Techniques
- Evidence for the use of Interventional Techniques in Chronic Spinal Pain
- Psychological Evaluation in Interventional Pain Practice
- Epidural Steroid Injections
- Sympathetic Neural Blockade in the Evaluation and Treatment of Pain
- Pain Management with Regenerative Injection Therapy
- Cervical Facet Joint Intervention
- Thoracic Facet Joint Intervention
- Lumbar Facet Joint Intervention
- Cervical Discography
- Thoracic Discography
- Lumbar Discography
- Intradiscal Therapy
- Percutaneous Lysis of Lumbar Epidural Adhesions and Hypertonic Saline Neurolysis
- Endoscopic Lysis of Lumbar Epidural Adhesions

- Cryoneurolysis
- Endoscopic Surgery and Minimally Invasive Techniques
- Spinal Cord Stimulation
- Intrathecal Pumps
- Acupuncture and Traditional Chinese Medicine
- Aromatherapy for Pain Relief
- Homeopathy
- Clinical Applications of Massage Therapy in Pain Management
- Interdisciplinary Approaches to Treating Myofascial Pain Syndromes
- Role of Naturopathy in Pain Management
- Electromedicine
- Electric Nerve Blocks
- Static Magnetic Therapy for Pain
- Recurrent and Chronic Paediatrics Pain
- Procedural and Perioperative Pain Management in Children
- Occupational Medicine for the Pain Practitioner
- Pain Management and Geriatrics
- Hospice, Cancer Pain Management
- Ethics, History and Theory
- Bioethics and Pain
- Legal Considerations in Pain Management
- Law Enforcement and Regulatory Issues
- Controlled Substances and Risk Management
- Assessing Patients Spirituality
- Religion and Spirituality in Pain Management
- The Role of Prayer in Pain Management
- Concepts in Multidisciplinary Pain Management
- Implementing a Pain Management Program
- Interdisciplinary Pain Management Programs – The American Academy of Pain Management Model

**American Academy of Experts in Traumatic Stress**

2010

*Melville, New York*

- Diplomate Academy of Experts in Traumatic Stress
- Certification Acute Traumatic Stress Management
- Certification Motor Vehicle Trauma
- Certification Pain Management

**Spine Research Institute of San Diego**

2010

*San Diego, California*

- Certification – Advanced Whiplash and Brain Traumatology
- 12 Contact Hours

Topics Included:

- Biomechanics of Whiplash Injury
- Occupant Kinematics
- Clinical Diagnosis of Whiplash
- Clinical Management of Spinal Trauma
- Mild Traumatic Brain Injury
- Comprehensive Case Management of Whiplash and Related Disorders

**Brain Injury Association of American**

2009

*Vienne, Virginia*

- Certified Brain Injury Specialist

Topics Included:

- Incidence and Epidemiology of Brain Injury
- Continuum of Services
- Brain Anatomy and Brain Behaviour Relationships
- Functional Impact of Brain Injury
- Effective Treatment Approaches
- Children and Adolescents with Brain Injury
- Health and Medical Management
- Family Issues and Legal/Ethics Issues

**Spine Research Institute of San Diego**  
*San Diego, California*

2006

- Certification – Motor Vehicle Crash Forensics Risk Analysis
- 18 Contact Hours

Topics Included:

- Live Full-Scale Human Volunteer Crash Testing and Research
- Live Full-Scale Bio-Rid Dummy Crash Testing and Research
- Low Speed Injury Analysis
- High Speed Injury Analysis
- Pedestrian Injury Analysis
- Human Anatomical Research and Injury Biomechanics
- Human Subject Crash Testing Occupant Kinematics
- Automobile Crash Reconstruction Methods
- Pedestrian Crash Reconstruction
- Current Methods and Strategies in Injury Prevention using Design Engineering
- Motor Vehicle Injury Diagnostic and Non-Invasive Clinical Management Methods
- Soft Tissue Referral Patterns and Pain Management

**International Academy of Medical Acupuncture**  
*Phoenix, Arizona*

2005 - 2006

- Fellowship Certification in Acupuncture
- 305 Total Credit Hours (105 Academic / 200 Clinical)
- Types: Japan, Korea, Taiwan and Southeast Asia People's Republic of China
- Techniques: Needle, Electrical, Hand, Auricular, Scalp, and Laser.

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**PROFESSIONAL PUBLICATIONS, APPAREANCES and APPOINTMENTS**

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1. Elected Board Members – Canadian Institute for the Relief of Pain and Disability November 2013 – November 2014
2. International Association for the Study of Pain Case Study Newsletter: Diagnose First, Treat Second. - Pending
3. Claims Canada. Contending with Chronic Pain. How Insurers can find the right expert to diagnose this condition. August-September 2013. Pg 32-33.
4. Rogers TV: Daytime Toronto TV. Physical Medicine Pain Management. Aired February 1, 2013 at 10:00 AM. Live

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**MEMBERSHIPS**

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- College of Chiropractors of Ontario: 2008 – Present
- American Chiropractic Association: 2006-2013
- National Pain Foundation: 2008-2012

- American Pain Foundation: 2009-2012
- International Chiropractic Association: 2006-2008
- National Pain Education Council: 2007-2009
- American Academy of Pain Management: 2009-2018
- Ontario Kinesiology Association: 2009 – 2014
- Brain Injury Association of America: 2009 – 2014
- Ontario Brain Injury Association: 2009 – 2021
- Brain Injury Society of Toronto: 2009 – 2021
- The National Center for Crisis Management: 2010 – 2015
- The American Academy of Experts in Traumatic Stress: 2010 – 2015
- Canadian Academy of Pain Management: 2011-2017
- International Association for the Study of Pain: 2012 - 2014
- Canadian Institute for the Relief of Pain and Disability 2012- 2014

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## TEACHING EXPERIENCE – POST-GRADUATE

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### North American Spine Institute

2006 - Present

Toronto, Ontario  
Ebensburg, Pennsylvania

As director of the North American Spine Institute, I am responsible for developing and teaching post graduate continuing education courses on the subject of pain, whiplash traumatology and treatment to chiropractors, medical doctors, osteopathic doctors, physician assistants and physiotherapist/physical therapists throughout the United States and Canada.

### 2008

- Continuing Medical and Chiropractic Education Accreditation Credit (105 hours) Provided by:
  - o University of Buffalo School of Medicine and Biomedical Sciences
  - o National University of Health Sciences
  - o American Chiropractic Association
  - o American Academy of Family Physicians



- **2008-2010 Whiplash Traumatology and Treatment Seminar Series**
- Whiplash Traumatology and Treatment: A Multidisciplinary Approach to Care. Module 1: Basic Concepts in Whiplash and Whiplash associated Brain Injury and Chronic Pain.
  - o History of Whiplash, Brain Injury and Chronic Pain
  - o Epidemiology: Prevalence, Incidences, Risk Factors, Statistics and Research
  - o Anatomy: Cervical, Thoracic and Lumbar Spine: Muscles, Ligaments, Discs, and Nerves
  - o Muscle Referral Patterns: Whiplash Specific Muscles
  - o Pathophysiology: Lesions, Soft tissue Healing, Stages of Injury
  - o Pathophysiology: symptoms of whiplash, secondary symptoms of whiplash
  - o Whiplash, Brain Injury and Chronic Pain Guidelines
  - o Biomechanics: definitions and explanations of relevant terms. Biomechanics: ROM, biomechanics of spine and supporting structures.
  - o Kinematics: crash sequence of events
  - o Whiplash Common Syndromes: TOS, CTS, Fibromyalgia, Headaches.
  - o Whiplash Common Syndromes: TMJ, SI dysfunction, QL s/s, Insomnia.
  - o Whiplash common Syndromes: Depression, Chronic Pain, PTSD

- Whiplash Traumatology and Treatment: A Multidisciplinary Approach to Care. Module 2: Health Professional Management of Whiplash.
  - o Chiropractic: Treatment, Evaluation, Cervical Traction, Posture Analysis, Nutrition and Gait analysis
  - o Physical Therapy: Modalities, Stretching Exercises, Stabilizing Exercises, Core Strength, Isometrics and Nerve Mobilization.
  - o Acupuncture: basics, clean needle technique, types of acupuncture.
  - o Acupuncture: treatment points
  - o Medicine: the role of family physicians
  - o Medicine: the role of neurologists, orthopaedic surgeons, and psychologists.
  - o Massage Therapy: trigger point referral patterns of involved musculature.
  - o Massage Therapy: trigger point referral patterns of involved musculature.
  - o Medicine: the role of emergency room physicians
  - o Complimentary Care: yoga, palates, and electromagnetic therapies
  - o Whiplash Guidelines when they apply and how to utilize them appropriately.
  - o Whiplash Guidelines when they apply and how to utilize them appropriately.
  
- Whiplash Traumatology and Treatment: A Multidisciplinary Approach to Care. Module 3: Recording Keeping and Narrative Reports.
  - o History and Examination questions
  - o Physical Examination: muscles
  - o Physical Examination: nerves
  - o Physical Examination: orthopaedic testing
  - o New Patient Forms
  - o Self Assessment Questionnaires, describe and explain forms and validity
  - o Insurance Forms
  - o Patient Reports
  - o Doctor's Training, education and CV
  - o Letters for Payment
  - o IME Reports
  - o Medical Shorthand
  
- Whiplash Traumatology and Treatment: A Multidisciplinary Approach to Care. Module 4: Medicolegal Concepts, Crash Forensics, Depositions, Arbitrations and Court Room Testimony.
  - o Crash Forensics: introduction
  - o Crash Forensics: Occupant kinematics, terminology, Delta V, definitions and explanations.
  - o Crash Forensics: Risk Factors and Crash Vectors
  - o Accident Reconstruction: introduction, qualifications and vehicle dynamics
  - o Accident Reconstruction: reports, reliability, and ACR reconstruction
  - o Accident Reconstruction: Crash Forensics Assessment Reports Review
  - o Depositions
  - o Arbitrations
  - o Testifying in Court: questions and answers review
  - o Testifying in Court: CV and appearance
  - o Testifying in Court: Research
  - o Testifying in Court: Medical vs. Chiropractic vs. Physical Therapy
  
- Whiplash Traumatology and Treatment: A Multidisciplinary Approach to Care. Module 5: Special Tests / Imaging and Whiplash, Chronic Pain and Mild Traumatic Brain Injury Research.
  - o Radiographs: general terms and pictures
  - o Radiographs: views, Davis Series and x-ray regulations
  - o MRI and CT Studies

- Videofluoroscopy and PET Scan Studies
  - Whiplash and Brain Injury Mechanism Research
  - Chronic Pain Research
  - Risk Factor and Yellow Flags Research
  - Immune Response Research and Facet Joint Injury Research
  - Whiplash Epidemiology Research
  - Delayed Onset of WAD, Primate Studies, TMJ and Headaches  
Research associated with Whiplash, Brain Injury and Chronic Pain.
- Whiplash Traumatology and Treatment: A Multidisciplinary Approach to Care. Module 6: Whiplash Research.
  - Developed Whiplash Traumatology and Treatment Professional Guidelines.
    - Course work accredited for CME and CCE educational credit to attending Chiropractic Doctors, Medical Doctors, Medical Specialists, and Osteopathic Doctors. Family Physician educational credit provided to Medical Family Doctors.

## 2009

In 2009, I was asked to develop a post graduate chiropractic continuing education course (CCE) by the American Chiropractic Association. The topic of this seminar was Chiropractic Treatment for Whiplash Injuries.

Seminar: Postgraduate instructor of the program: Chiropractic Treatment of Whiplash Tele-seminar offered by the American Chiropractic Association – October 20, 2009.

## 2010

In 2010, I was asked to develop a post graduate chiropractic continuing education course (CCE) by the American Chiropractic Association. The topic of the first seminar was Pain Management Treatment Options and Research. The topic of the second seminar was Whiplash Injury: Guidelines and Rebuttal/IME Report Writing.

Seminar: Postgraduate instructor of the program: Pain Management Treatment Options and Research Tele-seminar offered by the American Chiropractic Association – May 27, 2010.

Seminar: Postgraduate instructor of the program: Whiplash Injury: Guidelines and Rebuttal/IME Report Writing offered by the American Chiropractic Association – September 21, 2010.

## 2013

In 2013, I was asked to develop a professional accident reconstruction and crash forensics seminar by Stephen. O'Donovan Sergeant 735, Toronto Police Service, Collision Reconstruction Squad. The topic of this seminar was Occupant kinematics, Injury Biomechanics and Crash Forensics.

Professional Accident Reconstruction Seminar: Occupant kinematics, Injury Biomechanics and Crash Forensics. November 13, 2013 at the Toronto Police College. Level 4 Accident Reconstruction Toronto Police Accident Reconstruction Department.

In 2013, I was asked to develop a professional medical presentation by Dr. Eldon Tunks, President of the Canadian Academy of Pain Management for Physical Medicine and Rehabilitation Residents and Faculty at McMaster's Medical School. The topic of this seminar was Crash Forensics, Injury Biomechanics, Occupant Kinematics and the Biopsychosocial Model of Pain.

Professional Medical Presentation: Crash Forensics, Injury Biomechanics, Occupant Kinematics and the Biopsychosocial Model of Pain. December 18, 2013, at McMaster Medical School. Presentation to McMaster Department of Physical Medicine and Rehabilitation / McMaster University first to fifth year residents and staff.

## 2014

In 2014, I became an Education Provider for the Ontario Kinesiology Association. This entailed developing 5 professional seminars for Kinesiologists in Ontario.

Seminars topics and subjects included:

Nerve Mobilization - Upper Extremity: June 21 - June 22, 2014

Radial Nerve:

1. Functional Anatomy and Physiology of the Nervous System
2. Clinical Neurobiomechanics - Radial Nerve
3. Anatomy Review - Radial Nerve and Muscle Innervation
4. Radial Nerve innervated Muscle and Function Testing
5. Radial Nerve innervated Muscle referral and Pain Patter Review
6. Radial Nerve innervated Muscle Rehabilitation
7. Clinical Reasoning and Examination - Radial Nerve
8. Nerve Mobilization Technique and Treatment Protocol - Radial Nerve
9. Pathological Processes and Special Conditions - Radial Nerve

Median Nerve

1. Functional Anatomy and Physiology of the Nervous System
2. Clinical Neurobiomechanics - Median Nerve
3. Anatomy Review - Median Nerve and Muscle Innervation
4. Median Nerve innervated Muscle and Function Testing
5. Median Nerve innervated Muscle referral and Pain Patter Review
6. Median Nerve innervated Muscle Rehabilitation
7. Clinical Reasoning and Examination - Median Nerve
8. Nerve Mobilization Technique and Treatment Protocol - Median Nerve
9. Pathological Processes and Special Conditions - Median Nerve

Ulnar Nerve

1. Functional Anatomy and Physiology of the Nervous System
2. Clinical Neurobiomechanics - Ulnar Nerve
3. Anatomy Review - Ulnar Nerve and Muscle Innervation
4. Ulnar Nerve innervated Muscle and Function Testing
5. Ulnar Nerve innervated Muscle referral and Pain Patter Review
6. Ulnar Nerve innervated Muscle Rehabilitation
7. Clinical Reasoning and Examination - Ulnar Nerve
8. Nerve Mobilization Technique and Treatment Protocol - Ulnar Nerve
9. Pathological Processes and Special Conditions - Ulnar Nerve

Summary, Conclusion and Certificate Test.

Nerve Mobilization - Lower Extremity: July 12 - July 13, 2014

This seminar will discuss:

Sciatic Nerve:

1. Functional Anatomy and Physiology of the Nervous System
2. Clinical Neurobiomechanics - Sciatica Nerve
3. Anatomy Review - Sciatica Nerve and Muscle Innervation
4. Sciatica Nerve innervated Muscle and Function Testing
5. Sciatica Nerve innervated Muscle referral and Pain Patter Review
6. Sciatica Nerve innervated Muscle Rehabilitation
7. Clinical Reasoning and Examination - Sciatica Nerve
8. Nerve Mobilization Technique and Treatment Protocol - Sciatica Nerve
9. Pathological Processes and Special Conditions - Sciatica Nerve

Peroneal Nerve

1. Functional Anatomy and Physiology of the Nervous System
2. Clinical Neurobiomechanics - Peroneal Nerve
3. Anatomy Review - Peroneal Nerve and Muscle Innervation
4. Peroneal Nerve innervated Muscle and Function Testing
5. Peroneal Nerve innervated Muscle referral and Pain Patter Review
6. Peroneal Nerve innervated Muscle Rehabilitation
7. Clinical Reasoning and Examination - Peroneal Nerve
8. Nerve Mobilization Technique and Treatment Protocol - Peroneal Nerve
9. Pathological Processes and Special Conditions - Peroneal Nerve

#### Tibial Nerve

1. Functional Anatomy and Physiology of the Nervous System
2. Clinical Neurobiomechanics - Tibial Nerve
3. Anatomy Review - Tibial Nerve and Muscle Innervation
4. Tibial Nerve innervated Muscle and Function Testing
5. Tibial Nerve innervated Muscle referral and Pain Patter Review
6. Tibial Nerve innervated Muscle Rehabilitation
7. Clinical Reasoning and Examination - Tibial Nerve
8. Nerve Mobilization Technique and Treatment Protocol - Tibial Nerve
9. Pathological Processes and Special Conditions - Tibial Nerve

Summary, Conclusion and Certificate Test.

#### Chronic Pain Management - Neuroplasticity and Rehabilitation - August 2 - August 3, 2014

This seminar will discuss:

1. Pain Concepts and Terminology
2. Pain Physiology and Neurology
3. Concepts of Neuroplasticity and Pain
4. Introduction into the Biopsychosocial Model of Pain
5. Pain Orthopaedic Testing
6. Pain Muscle Function Testing
7. Musculoskeletal Pain Referral Patterns
8. fMRI Pain Research
9. Pain Special Conditions - Fibromyalgia
10. Functional Treatment Options
  - Stimulation of Descending Inhibitory Pain Pathways
  - Exercise Prescription - What Intensity Reduces Subjective Pain

#### Neck Pain: Whiplash Traumatology Diagnosed - August 9 - August 10, 2014.

This seminar will discuss:

1. Whiplash Concepts and Terminology
2. Whiplash Injury Biomechanics - Neck
3. Whiplash Occupant Kinematics Based on Collision Vector - Neck
4. Introduction into Whiplash Treatment Guidelines
5. Cervical Spine Orthopaedic Testing
6. Thoracic Outlet Orthopaedic Testing
7. Cervical Spine Muscle Function Testing
8. Cervical Spine Musculoskeletal Referral Patterns
9. Cervical Spine Rehabilitation Protocol - Facet Joint Injury
10. Cervical Spine Rehabilitation Protocol - Musculoskeletal Injury
11. Cervical Spine Exercise Protocol
12. Secondary Sequelea

#### Whiplash: Independent Medical Assessment, Guidelines and Protocols. September 6 - September 7, 2014.

This seminar will discuss:

1. Basic Concepts and Terminology of Whiplash
2. Qualifications: Who has them and why do they matter
3. Physical Examination and Orthopaedic Testing
4. Outcome Assessment Tools
5. Whiplash Traumatology Guidelines
6. Epidemiological Risk Factors - Injury Potential Determination
7. Diagnosis: WAD II vs WAD III
8. Case Law, Whiplash and Chronic Pain
9. Report Writing - Narrative Reports
10. Report Writing - Rebuttals and IME Response Letters

In 2014, I was asked to develop a professional medical presentation by Stuart Moulton, Executive Director of the Ontario Kinesiology Association. The topic of this seminar was Pain Management: Median Nerve Entrapment, Muscle Testing and Nerve Mobilization Treatment.

Professional Medical Presentation: Pain Management: Median Nerve Entrapment, Muscle Testing and Nerve Mobilization Treatment. November 9, 2014, at the Sheraton Hotel Niagara Falls Canada. Presentation to Ontario Kinesiology members and faculty, as Kinesiologists throughout Ontario Canada.

## 2016

In 2016, I was asked to develop a post graduate medical continuing education course (CME) by the International Conference on Pain Management and Research, as well as Chair the conference and be part of the organizing committee. The topic of this seminar was Functional Pain Management and Treatment Options.

Seminar: Postgraduate instructor of the program: Functional Pain Management and Treatment Options.  
offered by the International Conference on Pain Management and Research – October 2016 Vancouver Canada

## 2016-2019

In 2016, 2017, 2018 and 2019, I was asked to develop a post graduate medical continuing education course (CME) by the International Conference on Pain Management and Research, as well as be part of the organizing committee. The topic of this seminar was Functional Pain Management and Treatment Options.

## 2021 (Seminar March 2021 to December 2023)

As director of the North American Spine Institute, I am responsible for developing and teaching post graduate continuing education courses entitled: Whiplash Traumatology and Treatment: Injury Mechanisms, Neurophysiology, Pain, Special Testing and Treatment to chiropractors, medical doctors, osteopathic doctors, physician assistants and physiotherapist/physical therapists throughout the United States and Canada.

- Continuing Medical Education Credit (32 Hours) Provided by:
  - o Michigan State University Medical and Osteopathic School.
  - o European Chiropractor's Union
  - o NorthEast College of Chiropractic
  - o National University of Health Sciences
  - o Academic Endorsement McMaster University Medical School
  - o This program has medical, chiropractic, physical therapy and massage therapy accreditation and endorsement in 29 countries.



- Whiplash Traumatology and Treatment: Injury Mechanisms, Neurophysiology, Pain, Special Testing and Treatment: Module 1: Motor Vehicle Crash Forensics
  - o What is Crash Forensics
  - o Types of Collision Vectors / PDOF
  - o Rear Impact
  - o Phases of Injury/Sequence of Events
  - o General Crash Times – Kinematic response in msec.
  - o Reverse S Curve
  - o Neurophysiological consequences
  - o Example Live Crash Testing
  - o Common Injury Patterns Assessment and Diagnosis
  - o Acceleration Deceleration Injury Patterns
  - o Front Impact
  - o Phases of Injury/Sequence of Events
  - o Kinematic Response
  - o Side Impact
  - o Phases of Injury/Sequence of Events
  - o Kinematic Response Near Side Collision
  - o Kinematic Response Far Side Collision
  - o Special Considerations
  - o Small Overlap Collision
  - o Human factors affecting injury outcome
  - o Force loads acting on the spine
  - o Accident Risk Factors
  - o Acute Risk Factors
  - o Late/Chronic Risk Factors
  - o Accident Reconstruction and Injury
  - o ACR it's start in personal injury
  - o General objective of ACR
  - o ACR and Injury Analysis
  - o ACR and court rulings on injury
  - o Introduction to Event Data Recorders
- Whiplash Traumatology and Treatment: Injury Mechanisms, Neurophysiology, Pain, Special Testing and Treatment: Module 2: Physical Examination
  - o Physical Examination
  - o History and Intake
  - o Relevant Past Medical History
  - o Physical Examination – Muscle
  - o Physical Examination – Neurological
  - o Trauma Neurology
  - o Spinal Cord Hypersensitivity after Trauma
  - o Glia Cell Response
  - o Brain fMRI studies and pain
  - o Receptive Field enlargement
  - o Consideration of alterations in Endocrine function
  - o Hypothalamus controls limbic system and affect on autonomic and endocrine function.
  - o Hypothalamus role in regulating neuroendocrine and immune response.
  - o Physical Examination – Vestibular
  - o Physical Examination – Orthopedic
  - o Types of Referred Pain
  - o Neurotome
  - o Angiotome
  - o Dermatome
  - o Myotome
  - o Sclerotome
  - o Viscerotomes
  - o Whiplash Traumatology Associated Common Syndromes/Disorders
  - o Thoracic Outlet Syndrome

- Carpal Tunnel Syndrome
  - Headaches
  - Sacroiliac Joint Injury
  - Vestibular Injury
  - Tinnitus
  - Traumatic Stress - Psychological components of Injury and Pain
  - Memory Acquisition and Storage
- Whiplash Traumatology and Treatment: Injury Mechanisms, Neurophysiology, Pain, Special Testing and Treatment: Module 3: Neurophysiology
  - Neurophysiology
  - Concussion Injury Mechanisms
  - Coup Counter Coup Injuries
  - Pressure Gradient Injuries
  - Diffuse Axonal Injuries
  - Closed Head Injuries
  - Concussion Sub-Types
  - Mild Traumatic Brain Injury
  - Blood Brain Barrier Disruption
  - White Matter Disruption
  - Grey Matter Disruption
  - Head Injury
  - Post-Concussion Syndrome
  - General Cognitive Processing Ability
  - Reduced Cerebral Metabolism
  - Neuropathy Injury Mechanisms
  - Human Factors – Steering Wheel
  - Crash Factors – Offset Collision
  - Vehicle Factors – Seatbelt and Airbag
  - Traumatic Stress
  - Pain Pathophysiology
  - Pain Terminology
  - Pain Pathophysiology
  - Pain Generators
  - Pain Fiber Evaluation and Testing
  - Pain Neurotransmitters
  - Pain Response
  - Inflammation
  - Muscle Guarding/Splinting
  - Altered Biomechanics
  - Digital Algometry Testing
  - Nerve Adhesion Testing
  - Biomechanics in Pain Assessment
  - Neurophysiological Special Testing
  - Quantitative Electroencephalography (qEEG)
  - Surface Electromyography (sEMG)
  - Electromyography (EMG)
  - Nerve Conduction Velocity (NCV)
  - Motor NCV study
  - Sensory NCV study
  - AMA Guidelines 6<sup>th</sup> Edition Impairment
- Whiplash Traumatology and Treatment: Injury Mechanisms, Neurophysiology, Pain, Special Testing and Treatment: Module 4: Treatment and Medico-Legal Concepts
  - Vestibular Testing
  - Electronystagmography (ENG)
  - Visual Evoked Potentials (VEP)
  - Somatosensory Evoked Potentials (SEP)
  - Posturography Computerized Testing

- AMA Guidelines 6<sup>th</sup> Edition Impairment
- Physical Medicine Treatment Options and Protocol
- Postural Analysis
- Cervical Traction
- Alpha Stimulation
- Photobiomodulation
- Pulsed Radio Frequency
- Neurofeedback
- Biofeedback
- Nutrition
- Spinal Manipulation
- Acupuncture/Traditional Chinese Acupuncture
- C-Fiber / Chronic
- Auricular Acupuncture
- fMRI Studies
- Whiplash Treatment Options
- Electrical Therapy
- Laser Therapy
- Exercise
- Strengthening
- Neurokinetic Exercises
- Muscle Re-Education
- Vestibular Exercises
- Nerve Mobilization
- Massage Therapy
- Lymph Drainage
- Trigger Point Therapy
- Counter Rotation
- Medical
- Opioid Usage
- Pharmaceuticals
- Injections
- Trigger Point Injections
- Nerve Blocks
- Epidural Steroid Injections (ESI)
- Botox
- Radiofrequency Neurotomy (RFN)
- Surgery
- Complimentary Care Post Rehabilitation
- Yoga
- Pilates
- Consequences of Inadequate or Under Treatment
- Additional Special Testing
- Radiographic Examination
- Primary Views of Consideration
- Primary Lines of Measurement
- Standard of Care – Davis Series
- Videofluoroscopy Examination
- MRI Examination
- Diffuse Tensor Imaging (DTI)
- Magnetic Transfer Imaging (MTI)
- Magnetic Resonance Spectroscopy (MRS)
- Magnetic Source Imaging (MSI)
- Functional MRI (fMRI)
- Contrast-Enhanced MRI
- PET (Positron Emission Tomography)
- Radionuclide Bone Scan
- SPECT (Single Photon Emission Computed Tomography)
- CT Examination

- Myelography
  - Discography
  - Bone Scan
  - Thermography
  - Regional Cerebral Blood flow Perfusion Examination
  - POCUS US
  - Angiography and Color-Coded Duplex Sonography (CCDS)
  - Muscular Evaluation
  - Sample Assessment and Report Writing – Med-Legal
  - Sample report review
  - Documentation
  - Intake and Examination Forms
  - Outcome Assessments
  - Report Writing for Success
  - Medical Review and Rebuttals
  - Example Rebuttal Reports.
- Revised: Whiplash Traumatology and Treatment Professional Guidelines.
    - Course work accredited for CME and CCE educational credit to attending Chiropractic Doctors, Medical Doctors, Medical Specialists, and Osteopathic Doctors. Physical Therapy and Massage Therapy educational credit provided to registered Physical Therapists and Massage Therapists.
    - Continuing Education Credit approved in 29 countries.

### **2023 (Seminar November 2023 to November 2025) – Currently Accredited and Endorsed**

As director of the North American Spine Institute, I am responsible for developing and teaching post graduate continuing education courses entitled: Whiplash Traumatology and Treatment: Injury Mechanisms, Neurophysiology, Pain, Special Testing and Treatment to chiropractors, medical doctors, osteopathic doctors, physician assistants and physiotherapist/physical therapists throughout the United States and Canada.

- Continuing Medical Education Credit (35 Hours) Provided by:
  - European Chiropractor's Union
  - National University of Health Sciences
  - This program has chiropractic accreditation and endorsement in 29 countries.



- Whiplash Traumatology and Treatment: Injury Mechanisms, Neurophysiology, Pain, Special Testing and Treatment: Module 1: Motor Vehicle Crash Forensics
  - What is Crash Forensics
  - Types of Collision Vectors / PDOF
  - Rear Impact
  - Phases of Injury/Sequence of Events
  - General Crash Times – Kinematic response in msec.
  - Reverse S Curve
  - Neurophysiological consequences
  - Example Live Crash Testing
  - Common Injury Patterns Assessment and Diagnosis
  - Acceleration Deceleration Injury Patterns
  - Front Impact
  - Phases of Injury/Sequence of Events
  - Kinematic Response
  - Side Impact
  - Phases of Injury/Sequence of Events
  - Kinematic Response Near Side Collision
  - Kinematic Response Far Side Collision
  - Special Considerations

- Small Overlap Collision
  - Human factors affecting injury outcome
  - Force loads acting on the spine
  - Accident Risk Factors
  - Acute Risk Factors
  - Late/Chronic Risk Factors
  - Accident Reconstruction and Injury
  - ACR it's start in personal injury
  - General objective of ACR
  - ACR and Injury Analysis
  - ACR and court rulings on injury
  - Introduction to Event Data Recorders
- Whiplash Traumatology and Treatment: Injury Mechanisms, Neurophysiology, Pain, Special Testing and Treatment: Module 2: Physical Examination
  - Physical Examination
  - History and Intake
  - Relevant Past Medical History
  - Physical Examination – Muscle
  - Physical Examination – Neurological
  - Trauma Neurology
  - Spinal Cord Hypersensitivity after Trauma
  - Glia Cell Response
  - Brain fMRI studies and pain
  - Receptive Field enlargement
  - Consideration of alterations in Endocrine function
  - Hypothalamus controls limbic system and affect on autonomic and endocrine function.
  - Hypothalamus role in regulating neuroendocrine and immune response.
  - Physical Examination – Vestibular
  - Physical Examination – Orthopedic
  - Types of Referred Pain
  - Neurotome
  - Angiotome
  - Dermatome
  - Myotome
  - Sclerotome
  - Viscerotomes
  - Whiplash Traumatology Associated Common Syndromes/Disorders
  - Thoracic Outlet Syndrome
  - Carpal Tunnel Syndrome
  - Headaches
  - Sacroiliac Joint Injury
  - Vestibular Injury
  - Tinnitus
  - Traumatic Stress - Psychological components of Injury and Pain
  - Memory Acquisition and Storage
- Whiplash Traumatology and Treatment: Injury Mechanisms, Neurophysiology, Pain, Special Testing and Treatment: Module 3: Neurophysiology
  - Neurophysiology
  - Concussion Injury Mechanisms
  - Coup Counter Coup Injuries
  - Pressure Gradient Injuries
  - Diffuse Axonal Injuries
  - Closed Head Injuries
  - Concussion Sub-Types
  - Mild Traumatic Brain Injury
  - Blood Brain Barrier Disruption
  - White Matter Disruption

- Grey Matter Disruption
  - Head Injury
  - Post-Concussion Syndrome
  - General Cognitive Processing Ability
  - Reduced Cerebral Metabolism
  - Neuropathy Injury Mechanisms
  - Human Factors – Steering Wheel
  - Crash Factors – Offset Collision
  - Vehicle Factors – Seatbelt and Airbag
  - Traumatic Stress
  - Pain Pathophysiology
  - Pain Terminology
  - Pain Pathophysiology
  - Pain Generators
  - Pain Fiber Evaluation and Testing
  - Pain Neurotransmitters
  - Pain Response
  - Inflammation
  - Muscle Guarding/Splinting
  - Altered Biomechanics
  - Digital Algometry Testing
  - Nerve Adhesion Testing
  - Biomechanics in Pain Assessment
  - Neurophysiological Special Testing
  - Quantitative Electroencephalography (qEEG)
  - Surface Electromyography (sEMG)
  - Electromyography (EMG)
  - Nerve Conduction Velocity (NCV)
  - Motor NCV study
  - Sensory NCV study
  - AMA Guidelines 6<sup>th</sup> Edition Impairment
- Whiplash Traumatology and Treatment: Injury Mechanisms, Neurophysiology, Pain, Special Testing and Treatment: Module 4: Treatment and Medico-Legal Concepts
- Vestibular Testing
  - Electronystagmography (ENG)
  - Visual Evoked Potentials (VEP)
  - Somatosensory Evoked Potentials (SEP)
  - Posturography Computerized Testing
  - AMA Guidelines 6<sup>th</sup> Edition Impairment
  - Physical Medicine Treatment Options and Protocol
  - Postural Analysis
  - Cervical Traction
  - Alpha Stimulation
  - Photobiomodulation
  - Pulsed Radio Frequency
  - Neurofeedback
  - Biofeedback
  - Nutrition
  - Spinal Manipulation
  - Acupuncture/Traditional Chinese Acupuncture
  - C-Fiber / Chronic
  - Auricular Acupuncture
  - fMRI Studies
  - Whiplash Treatment Options
  - Electrical Therapy
  - Laser Therapy
  - Exercise
  - Strengthening

- Neurokinetic Exercises
  - Muscle Re-Education
  - Vestibular Exercises
  - Nerve Mobilization
  - Massage Therapy
  - Lymph Drainage
  - Trigger Point Therapy
  - Counter Rotation
  - Medical
  - Opioid Usage
  - Pharmaceuticals
  - Injections
  - Trigger Point Injections
  - Nerve Blocks
  - Epidural Steroid Injections (ESI)
  - Botox
  - Radiofrequency Neurotomy (RFN)
  - Surgery
  - Complimentary Care Post Rehabilitation
  - Yoga
  - Pilates
  - Consequences of Inadequate or Under Treatment
  - Additional Special Testing
  - Radiographic Examination
  - Primary Views of Consideration
  - Primary Lines of Measurement
  - Standard of Care – Davis Series
  - Videofluoroscopy Examination
  - MRI Examination
  - Diffuse Tensor Imaging (DTI)
  - Magnetic Transfer Imaging (MTI)
  - Magnetic Resonance Spectroscopy (MRS)
  - Magnetic Source Imaging (MSI)
  - Functional MRI (fMRI)
  - Contrast-Enhanced MRI
  - PET (Positron Emission Tomography)
  - Radionuclide Bone Scan
  - SPECT (Single Photon Emission Computed Tomography)
  - CT Examination
  - Myelography
  - Discography
  - Bone Scan
  - Thermography
  - Regional Cerebral Blood flow Perfusion Examination
  - POCUS US
  - Angiography and Color-Coded Duplex Sonography (CCDS)
  - Muscular Evaluation
  - Sample Assessment and Report Writing – Med-Legal
  - Sample report review
  - Documentation
  - Intake and Examination Forms
  - Outcome Assessments
  - Report Writing for Success
  - Medical Review and Rebuttals
  - Example Rebuttal Reports.
- Whiplash Traumatology and Treatment: Injury Mechanisms, Neurophysiology, Pain, Special Testing and Treatment: Research Symposium.
- Quarterly Update on new and relevant peer reviewed literature related to Whiplash Traumatology.

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**POST GRADUATE CONTINUING EDUCATION**

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**Headache**

| Organization      | Title                                                                                                                               | Date         | Credit |
|-------------------|-------------------------------------------------------------------------------------------------------------------------------------|--------------|--------|
| Stanford Medicine | An Evidence-Based Approach to the Diagnosis and Management of Migraines in Adults in the Primary Care and General Neurology Setting | June 5, 2024 | 1.5    |

**Traumatic Stress**

| Organization                                    | Title                                                                                | Date              | Credit |
|-------------------------------------------------|--------------------------------------------------------------------------------------|-------------------|--------|
| American Academy of Experts in Traumatic Stress | Certified Acute Traumatic Stress Management                                          | February 15, 2011 | NA     |
| Greensboro AHEC                                 | Treating the Invisible Wounds of War Series: Part 1 - Post Traumatic Stress Disorder | June 16, 2010     | 3      |
| Harvard Medical School                          | Lifestyle Medicine for Stress Management                                             | December 21, 2009 | 1      |
| University of Pennsylvania School of Medicine   | Treating Major Depression: From Remission to Long Term Recovery                      | April 17, 2007    | 1      |
| University of Texas Medical School              | Post-traumatic Stress Disorder                                                       | October 24, 2007  | 1      |

**Special Testing**

| Organization                                                                                                                  | Title                                                                             | Date             | Credit |
|-------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------|--------|
| University of Michigan, Jon Umlauf                                                                                            | Introduction to Point-of-Care MSK Ultrasound                                      | October 14, 2025 | 1.5    |
| University of Michigan, Jon Umlauf                                                                                            | MSK Ultrasound Basics                                                             | October 13, 2025 | .5     |
| Behavioral Medicine Training and Research Foundation (BMRTF): Accredited by the IQCB (International QEEG Certification Board) | Quantitative Electroencephalogram as an Assessment Tool for Brain-based Disorders | November 2020    | 36     |
| University of Sydney and the University of Alabama Birmingham.                                                                | Introduction to Ultrasound                                                        | June 25, 2019    | 25     |

|                                              |                                                                                                                                            |                  |      |
|----------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|------------------|------|
| American Institute of Ultrasound in Medicine | A Physical Exam with Pocket Sized Ultrasound for Routine Use by Dr. Janice Boughton, MD, FACP, RDMS and Dr. Michael Wagner, MD, FACP, RDMS | June 25, 2019    | 2    |
| Johns Hopkins University School of Medicine  | 5th Annual MRI World Summit -- Section 1                                                                                                   | October 24, 2007 | 1.5  |
| Johns Hopkins University School of Medicine  | 5th Annual MRI World Summit -- Section 2: Neuro                                                                                            | October 24, 2007 | 1.25 |
| Johns Hopkins University School of Medicine  | 5th Annual MRI World Summit -- Section 3: Body                                                                                             | October 24, 2007 | 1.25 |
| Johns Hopkins University School of Medicine  | 5th Annual MRI World Summit -- Section 4: Ortho                                                                                            | October 24, 2007 | 1.5  |
| Harvard Medical School                       | Challenging Cases in Chest Radiology                                                                                                       | April 3, 2007    | 1    |

## Health Conditions

| Organization                              | Title                                                                                                                           | Date             | Credit |
|-------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|------------------|--------|
| Medscape                                  | Impairment Rating and Disability Determination                                                                                  | July 20, 2018    | 1      |
| Duke Medicine                             | Dissecting Diabetic Dyslipidemia: Understanding Causes and Implementing Solutions                                               | October 30, 2009 | 1.5    |
| University of Florida College of Medicine | Anti-inflammatory and Anti-Atherogenic effects on Insulin                                                                       | October 30, 2009 | 1      |
| Medscape                                  | American Society of Health Systems Pharmacists Midyear Clinical Meeting - Highlights of the 2006 ASHSP Midyear Clinical Meeting | July 20, 2007    | 15     |
| Medscape                                  | American College of Allergy, Asthma, Immunology 2006 Annual Meeting - New Advances                                              | July 20, 2007    | 1      |
| Medscape                                  | AHA Statement Totes Benefits of Resistance Training for Cardiovascular Health                                                   | July 20, 2007    | 1      |
| Medscape                                  | Tendonopathy - From Basic Science to Treatment                                                                                  | July 20, 2007    | 1      |

|                            |                                                                   |               |      |
|----------------------------|-------------------------------------------------------------------|---------------|------|
| AHC Media LLC - AMA        | Improving the Detection of Common Adult Cancers                   | April 7, 2007 | 1    |
| AHC Media LLC - AMA        | Skin and Soft Tissue Infection                                    | April 7, 2007 | 2.25 |
| Baylor College of Medicine | Benefits of Moderate Weight Loss in Reducing Cardiometabolic Risk | April 4, 2007 | 0.5  |
| The Cleveland Clinic       | Disease Management Multiple Sclerosis                             | April 4, 2007 | 0.75 |
| The Cleveland Clinic       | Disease Management Tremors                                        | April 7, 2007 | 0.5  |

## Psychology

| Organization    | Title                                                                                              | Date             | Credit |
|-----------------|----------------------------------------------------------------------------------------------------|------------------|--------|
| Yale University | Psychology - Food on the Brain<br>Ralph DiLeone                                                    | January 31, 2012 | 0.25   |
| Yale University | Psychology - Lack of Sleep Leads to Health Problems Like Obesity<br>Tamas, Horvath, Xiao-Bing, Gao | January 31, 2012 | 0.25   |

## Pain Management

| Organization                                    | Title                                                                                                                                                                 | Date              |   |
|-------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|---|
| Ortho Canada                                    | Introduction to TR-Therapy: Understanding the Benefits of Targeted Radiofrequency                                                                                     | August 20, 2025   | 1 |
| Dr. Jeff Marksberry, MD, FAIS, CCRP.            | The Management of Anxiety, Insomnia, Depression and Pain with Cranial Electrotherapy Stimulation (CES) and Microcurrent Electrical Therapy (MET): Theory and Practice | June 24, 2019     | 1 |
| American Academy of Integrative Pain Management | Non-Pharmacological Modulation of Chronic Pain                                                                                                                        | January 29, 2019  | 1 |
| American Academy of Integrative Pain Management | Opioid-Induced Hyperalgesia                                                                                                                                           | January 28, 2019  | 1 |
| American Academy of Integrative Pain Management | Evidence Based Review of Dietary Supplements used to Treat Pain.                                                                                                      | December 12, 2018 | 1 |

|                                               |                                                                                                                |                  |      |
|-----------------------------------------------|----------------------------------------------------------------------------------------------------------------|------------------|------|
| University of Pennsylvania School of Medicine | Pain and Relief Signals Muted in Fibromyalgia                                                                  | January 17, 2014 | 0.25 |
| American Medical Association                  | Module 12 Pain Management: Management of Cancer Pain: Other Analgesic and End-Of-Life Care                     | July 26, 2013    | 1    |
| American Medical Association                  | Module 11 Pain Management: Pharmacotherapy for Cancer Pain                                                     | July 26, 2013    | 1    |
| American Medical Association                  | Module 10 Pain Management: Overview and Assessment of Cancer Pain                                              | July 25, 2013    | 1    |
| American Medical Association                  | Module 9 Pain Management: Assessing and Treating Neuropathic Pain                                              | July 25, 2013    | 1    |
| American Medical Association                  | Module 8 Pain Management: Assessing & Treating Persistent Nonmalignant Pain: Common Persistent Pain Conditions | July 25, 2013    | 1    |
| American Medical Association                  | Module 7 Pain Management: Assessing & Treating Persistent Nonmalignant Pain: An Overview                       | July 24, 2013    | 1    |
| American Medical Association                  | Module 6 Pain Management: Pediatric Pain Management                                                            | July 24, 2013    | 1    |
| American Medical Association                  | Module 5 Pain Management: Assessing & Treating Pain in Older Adults                                            | July 24, 2013    | 1    |
| American Medical Association                  | Module 4 Pain Management: Assessing & Treatment Pain in Patients with Substance Abuse Concerns                 | July 23, 2013    | 1    |
| American Medical Association                  | Module 3 Pain Management: Barriers to Pain Management & Pain in Special Populations                            | July 23, 2013    | 1    |

|                                               |                                                                                                                                                                |               |      |
|-----------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|------|
| American Medical Association                  | Module 2 Pain Management: Overview of Management Options                                                                                                       | July 23, 2013 | 1    |
| American Medical Association                  | Module 1 Pain Management: Pathophysiology of Pain and Pain Management                                                                                          | July 23, 2013 | 1    |
| Johns Hopkins University School of Medicine   | Challenges in the Assessment and Management of Chronic Pain: A Virtual CME Summit Series. Practical Strategies for Assessing and Diagnosing Neuropathic Pain.  | July 9, 2013  | 1    |
| American Academy of Pain Management           | Integrative Approaches to Fibromyalgia: Part 2. Treatment of Fibromyalgia                                                                                      | June 12, 2013 | 1    |
| American Academy of Pain Management           | Integrative Approaches to Fibromyalgia: Part 1. Clinical Characteristics and Pathophysiology of Fibromyalgia                                                   | June 11, 2013 | 1    |
| University of Pennsylvania School of Medicine | Spine Injections May Set Stage for Fractures                                                                                                                   | June 7, 2013  | 0.25 |
| University of Pennsylvania School of Medicine | 3 Questions Help Docs Predict Pain Course                                                                                                                      | May 24, 2013  | 0.25 |
| Medscape                                      | No Offense Doctor, But I Want a Referral for My Pain                                                                                                           | May 24, 2013  | 0.25 |
| Johns Hopkins University School of Medicine   | Challenges in the Assessment and Management of Chronic Pain: A Virtual CME Summit Series, "New Insights into the Pathophysiology & Assessment of Chronic Pain. | May 21, 2013  | 1    |
| University of Pennsylvania School of Medicine | Inflammation Continues in Chronic Pain Patients.                                                                                                               | May 13, 2013  | 0.25 |

|                                               |                                                  |                   |      |
|-----------------------------------------------|--------------------------------------------------|-------------------|------|
| University of Pennsylvania School of Medicine | Functional MRI can be used to Assess Pain        | April 11, 2013    | 0.25 |
| University of Pennsylvania School of Medicine | MRI for Low Back Problems Deemed "Overused"      | March 27, 2013    | 0.25 |
| University of Pennsylvania School of Medicine | Repeat MRI No Help After Sciatica Tx             | March 21, 2013    | 0.25 |
| University of Pennsylvania School of Medicine | Osteopathic Tx Ease Low Back Pain                | March 20, 2013    | 0.25 |
| University of Pennsylvania School of Medicine | Fibromyalgia Not One-Size Fits-All Disorder      | February 21, 2013 | 0.25 |
| University of Pennsylvania School of Medicine | Nerve Stimulation Cuts Down on Migraines         | February 11, 2013 | 0.25 |
| University of Pennsylvania School of Medicine | Brain Imaging Predicts Response to Depression Tx | February 7, 2013  | 0.25 |
| University of Pennsylvania School of Medicine | Study: Check Brain Blood Flow in TBI             | February 7, 2013  | 0.25 |
| University of Pennsylvania School of Medicine | Phone Visits Speed Time to Physical Therapy      | January 30, 2013  | 0.25 |
| University of Pennsylvania School of Medicine | TV Before Bed May Rob Kids of Sleep              | January 14, 2013  | 0.25 |
| University of Pennsylvania School of Medicine | Painkillers May Protect Liver                    | January 1, 2013   | 0.25 |

|                                               |                                                                                                                                                                      |                   |      |
|-----------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|------|
| University of Pennsylvania School of Medicine | Mild Head Injury Upset's Brain Resting State                                                                                                                         | November 25, 2012 | 0.25 |
| University of Pennsylvania School of Medicine | Epidural Steroids Ineffective for Sciatica                                                                                                                           | November 25, 2012 | 0.25 |
| University of Pennsylvania School of Medicine | Low Back Pain Eases but Doesn't Vanish                                                                                                                               | November 25, 2012 | 0.25 |
| University of Pennsylvania School of Medicine | Vitamin D May Be of Help in Fibromyalgia                                                                                                                             | November 25, 2012 | 0.25 |
| University of Pennsylvania School of Medicine | Brain Activity Reflects Pain in Fibromyalgia                                                                                                                         | November 25, 2012 | 0.25 |
| University of Pennsylvania School of Medicine | Acupuncture Does help for Chronic pain                                                                                                                               | November 25, 2012 | 0.25 |
| University of Michigan School of Medicine     | Managing Patients with Chronic Non-Terminal Pain Including Prescribing Controlled Substances                                                                         | August 15, 2012   | 1    |
| Johns Hopkins University School of Medicine   | Pain Management Virtual Congress 2012:<br>Chronic Pain and Addiction: Does Everybody taking Opioids eventually become an addict?                                     | August 10, 2012   | 1    |
| Johns Hopkins University School of Medicine   | Pain Management Virtual Congress 2012:<br>Pain Management: Strategies for Balancing Patient, Physician and other Stakeholders Needs.                                 | August 10, 2012   | 1    |
| Johns Hopkins University School of Medicine   | Pain Management Virtual Congress 2012:<br>"Central Sensitization" Are Conditions like Fibromyalgia, Irritable Bowel Syndrome, and Interstitial Cystitis all Related? | August 10, 2012   | 1    |

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|-----------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|---|
| Johns Hopkins University School of Medicine   | Pain Management Virtual Congress 2012:<br>Predictors of Chronic Pain: How Should the Case of Acute Pain be Formulated                           | August 10, 2012 | 1 |
| Johns Hopkins University School of Medicine   | Pain Management Virtual Congress 2012:<br>Neuroimaging and Pain: Have we Really found the Soul of Suffering?                                    | August 3, 2012  | 1 |
| American Academy of Family Physicians         | Principles of Neuropathic Pain Assessment and Management Pain                                                                                   | August 3, 2012  | 1 |
| American Academy of Family Physicians         | Tailoring the Treatment of Neuropathic Pain: Case Studies                                                                                       | August 3, 2012  | 1 |
| American Academy of Family Physicians         | Fibromyalgia in Family Medicine: Challenges in Pain Management                                                                                  | August 3, 2012  | 1 |
| Johns Hopkins University School of Medicine   | Pain Management Virtual Congress 2012:<br>Rational Polypharmacy for Chronic Pain: What do all of these Medications Actually do for the Patient? | August 2, 2012  | 1 |
| Johns Hopkins University School of Medicine   | Pain Management Virtual Congress 2012:<br>Chronic Pain Rehabilitation: The Basics of Changing Illness Behaviors                                 | August 2, 2012  | 1 |
| University of Pennsylvania School of Medicine | Insights into Pain Management: Module 7: Multidisciplinary Pain Management                                                                      | August 2, 2012  | 1 |
| University of Pennsylvania School of Medicine | Insights into Pain Management: Module 6: Use and Abuse of Opioids Analgesics                                                                    | August 2, 2012  | 1 |
| University of Pennsylvania School of Medicine | Insights into Pain Management: Module 5: Comprehensive Pharmacological Management of Pain                                                       | August 2, 2012  | 1 |
| University of Pennsylvania School of Medicine | Insights into Pain Management: Module 4: Understanding Chronic Pain                                                                             | July 31, 2012   | 1 |

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|-----------------------------------------------|----------------------------------------------------------------------------------|-------------------|------|
| University of Pennsylvania School of Medicine | Insights into Pain Management: Module 3: Understanding Acute Pain                | July 31, 2012     | 1    |
| University of Pennsylvania School of Medicine | Insights into Pain Management: Module 2: Assessment of the Patient with Pain     | July 30, 2012     | 1    |
| University of Pennsylvania School of Medicine | Insights into Pain Management: Module 1: Introduction into Pain                  | July 30, 2012     | 1    |
| American Academy of Family Physicians         | Diagnosis and Treatment of Acute and Chronic Low Back Pain with Leg Pain         | February 24, 2012 | 1    |
| University of Chicago                         | The Empathy Switch: How Doctors Regulate Pain Perception<br>Jean Decety          | February 8, 2012  | 0.25 |
| American Academy of Pain Management           | Pain and Brain 2: The Recognition and Management of Chronic Pain in Primary Care | December 22, 2011 | 1.5  |
| American Pain Society                         | Pain: Pain Current Understanding of Assessment, Management, and Treatment.       | November 16, 2010 | 1    |
| American Pain Society                         | Pain: Section 5 Strategies to Improve Pain Management                            | November 16, 2010 | 1    |
| American Pain Society                         | Pain: Section 4 Management of Acute Pain and Chronic Non-Cancer Pain             | November 16, 2010 | 1    |
| American Pain Society                         | Pain: Section 3 Types of Treatment                                               | November 15, 2010 | 1    |
| American Pain Society                         | Pain: Section 2 Assessment of Pain                                               | November 15, 2010 | 1    |
| American Pain Society                         | Pain: Section 1 Background and Significance                                      | November 14, 2010 | 1    |
| American Academy of Family Physicians         | Managing Coexisting Pain and Depression                                          | March 28, 2010    | 1    |
| American Academy of Family Physicians         | Practical Aspects of Chronic Pain Management: A Case based Approach.             | March 28, 2010    | 1    |
| American Academy of Family Physicians         | Disparities in Care: Special Populations in Pain Management                      | March 28, 2010    | 1    |

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|------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|-------------------|------|
| American Academy of Family Physicians                                  | Challenging Issues in Chronic Pain Management                                                                   | March 28, 2010    | 1    |
| American Academy of Family Physicians                                  | Managing the Chronic Pain Patient at Risk or with a History of Addiction                                        | March 26, 2010    | 1    |
| American Academy of Family Physicians                                  | Assessment and Management of Chronic Pain                                                                       | March 25, 2010    | 1    |
| American Chiropractic Association                                      | Pain Management Treatment Options and Research<br>Dr. Jason Mazzearella                                         | May 27, 2010      | 1    |
| American Academy of Experts in Traumatic Stress                        | Certified in Pain Management                                                                                    | May 27, 2010      | NA   |
| University of Nebraska Medical School                                  | Pain Management with Opioid Analgesics                                                                          | October 30, 2009  | 1.5  |
| Johns Hopkins University School of Medicine                            | Pain and the Sensory System of RLS: XP13512 Treatment of RLS                                                    | July 07, 2009     | 0.5  |
| Johns Hopkins University School of Medicine                            | Pain and the Sensory System of RLS: RLS Severity and Endogenous Opioids in the Medical Pain System              | July 07, 2009     | 0.5  |
| Johns Hopkins University School of Medicine                            | Pain and the Sensory System of RLS: Iron Dopamine Connection: Cellular Studies and Possible                     | July 07, 2009     | 0.5  |
| Johns Hopkins University School of Medicine                            | Pain and the Sensory System of RLS: Pain and Sensory Disturbances in RLS: Prevalence and Clinical Significance. | July 07, 2009     | 0.5  |
| Beth Israel University Hospital<br>Albert Einstein College of Medicine | Overcoming Barriers to Pain Relief                                                                              | December 16, 2008 | 1.25 |
| Medscape                                                               | Treating Fibromyalgia Pain and Beyond: Pathophysiology and Management of Multiple Symptom Domains               | December 16, 2008 | 1    |
| Medscape                                                               | Sciatica and Low Back pain: Does Physical Therapy Provide Long-Term Benefits? A Best Evidence Review            | December 16, 2008 | 1    |
| Memorial University                                                    | Joint Adventures - Optimizing the Management of MSK Pain                                                        | November 13, 2007 | 2    |

|                                       |                                                                                         |                    |   |
|---------------------------------------|-----------------------------------------------------------------------------------------|--------------------|---|
| Memorial University                   | Chronic Non Cancer Pain: Comprehensive Assessment and Management                        | November 12, 2007  | 3 |
| American Medical Association          | Pathophysiology of Pain and Pain Assessment                                             | November 11, 2007  | 1 |
| American Medical Association          | Overview of Management Options                                                          | November 11, 2007  | 1 |
| American Medical Association          | Management of Cancer Pain: Other Analgesic Approaches and End of Life Care              | November 11, 2007  | 1 |
| American Medical Association          | Cancer Pain: Pharmacotherapy                                                            | November 11, 2007  | 1 |
| American Medical Association          | Overview and Assessment of Cancer Pain                                                  | November 11, 2007  | 1 |
| American Medical Association          | Assessing and Treating Neuropathic Pain                                                 | November 11, 2007  | 1 |
| American Medical Association          | Assessing and Treating Persistent Nonmalignant Pain, Common Persistent Pain Conditions. | November 11, 2007  | 1 |
| American Medical Association          | Assessing and Treating Persistent Nonmalignant Pain, An Overview                        | November 11, 2007  | 1 |
| American Medical Association          | Pediatric Pain Management                                                               | November 10, 2007  | 1 |
| American Medical Association          | Assessing and Treating Pain in Older Adults                                             | November 10, 2007  | 1 |
| American Medical Association          | Assessing and Treating Pain in Patients with Substance Abuse                            | November 10, 2007  | 1 |
| American Medical Association          | Barriers to Pain Management and Pain in Special Populations                             | November 10, 2007  | 1 |
| Primed - American Medical Association | Mechanism for Managing Chronic Pain                                                     | September 24, 2007 | 1 |
| Primed - American Medical Association | Acupuncture in the Treatment of Low Back Pain                                           | September 24, 2007 | 1 |
| Primed - American Medical Association | Management Strategies for Patients with Moderately Severe Low Back Pain                 | September 24, 2007 | 2 |
| Primed - American Medical Association | Managing Depression in a Patient with Pain                                              | September 24, 2007 | 2 |
| Primed - American Medical Association | Young Women Evaluated for Headache and Facial Pain                                      | September 24, 2007 | 2 |

|                                             |                                                                                                                                                         |                    |      |
|---------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|------|
| Primed - American Medical Association       | Lower Extremity Pain in a Patient with Diabetes Mellitus                                                                                                | September 24, 2007 | 2    |
| University of Michigan School of Medicine   | Back Pain: Acute Low Back Pain in Adults                                                                                                                | August 2, 2007     | 1    |
| Medscape                                    | American Academy of Pain Medicine 23 <sup>rd</sup> Annual Meeting - Highlights of the American Academy of Pain Medicine 23 <sup>rd</sup> Annual Meeting | July 20, 2007      | 1.5  |
| Medscape                                    | American Pain Society 26 <sup>th</sup> Annual Scientific Meeting - Highlights of the American Pain Society 26 <sup>th</sup> Annual Scientific Meeting.  | July 20, 2007      | 1.5  |
| Medscape                                    | Breakthrough Pain: Strategies for Effective Assessment and the Role of Rapid-Onset Opioids in Treatment                                                 | July 20, 2007      | 1    |
| Medscape                                    | Undermanaged Pain in the Orthopedic Surgical Patient: Techniques to Improve                                                                             | July 20, 2007      | 2    |
| Medscape                                    | Advances in Neuropathic Pain: Case Studies in Uncomplicated Postherpetic Neuralgia and Painful Diabetic Polyneuropathy                                  | July 20, 2007      | 1    |
| Medscape                                    | Exercise in the Age of Evidence - Based Medicine: A Clinical Update                                                                                     | July 20, 2007      | 0.25 |
| Medscape                                    | Herbal Medicine May Be Effective for Low Back Pain                                                                                                      | July 20, 2007      | 0.25 |
| Medscape                                    | Haloperidol Useful in Acute Treatment of Migraine                                                                                                       | July 20, 2007      | 1    |
| AHC Media LLC- American Medical Association | Relieving the Burden of Pain in Fibromyalgia                                                                                                            | April 7, 2007      | 1    |
| Dannemiller Memorial Education Foundation   | Dialogues in Persistent Pain                                                                                                                            | April 4, 2007      | 1    |
| Dannemiller Memorial Education Foundation   | Musculoskeletal Pain Modules 2006                                                                                                                       | April 4, 2007      | 1    |
| Dannemiller Memorial Education Foundation   | The Association between Chronic Pain and Mood and Anxiety Disorder                                                                                      | April 4, 2007      | 1    |
| Dannemiller Memorial Education Foundation   | The Pain Processing Pathways                                                                                                                            | April 4, 2007      | 1.5  |

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|------|------------------------------------------------------------------------------------------------------------------------|--|--|
| NYCC | Chiropractic Case Management of Acute & Chronic Pain Syndromes                                                         |  |  |
| NYCC | Appropriate Opioid Pharmacotherapy for Chronic Pain Management: Interactive LBP Case Study                             |  |  |
| NYCC | Appropriate Opioid Pharmacotherapy for Chronic Pain Management: Improving Functional Ability in Patients with Whiplash |  |  |
| NYCC | NPEC-Chronic Pain 411: Assessing the Chronic Pain Patient                                                              |  |  |

### Biomedical Sciences

| Organization    | Title                                                                                       | Date          | Credit |
|-----------------|---------------------------------------------------------------------------------------------|---------------|--------|
| Yale University | Biomedical Engineering with W Mark Saltzman<br>Biomechanics and Orthopedics                 | July 5, 2012  | 1      |
| Yale University | Biomedical Engineering with W Mark Saltzman<br>Renal Physiology 2                           | June 22, 2012 | 1      |
| Yale University | Biomedical Engineering with W Mark Saltzman<br>Renal Physiology                             | June 22, 2012 | 1      |
| Yale University | Biomedical Engineering with W Mark Saltzman<br>Cardiovascular Physiology 2                  | June 20, 2012 | 1      |
| Yale University | Biomedical Engineering with W Mark Saltzman<br>Cardiovascular Physiology                    | June 13, 2012 | 1      |
| Yale University | Biomedical Engineering with W Mark Saltzman<br>Biomolecular Engineering: General Concepts 2 | May 31, 2012  | 1      |
| Yale University | Biomedical Engineering with W Mark Saltzman<br>Biomolecular Engineering: General Concepts   | May 31, 2012  | 1      |

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|-----------------|------------------------------------------------------------------------------------------------------|-------------------|---|
| Yale University | Biomedical Engineering with W Mark Saltzman<br>Biomolecular Engineering:<br>Engineering of Immunity. | May 31, 2012      | 1 |
| Yale University | Biomedical Engineering with W Mark Saltzman<br>Biomolecular Engineering:<br>Engineering of Immunity. | May 18, 2012      | 1 |
| Yale University | Biomedical Engineering with W Mark Saltzman<br>Cell Communications and Immunology                    | May 17, 2012      | 1 |
| Yale University | Biomedical Engineering with W Mark Saltzman<br>Cell Communications and Immunology                    | May 16, 2012      | 1 |
| Yale University | Biomedical Engineering with W Mark Saltzman<br>Cell Culture Engineering                              | May 15, 2012      | 1 |
| Yale University | Biomedical Engineering with W Mark Saltzman<br>Cell Culture Engineering                              | May 14, 2012      | 1 |
| Yale University | Biomedical Engineering with W Mark Saltzman<br>Genetics Engineering                                  | May 14, 2012      | 1 |
| Yale University | Biomedical Engineering with W Mark Saltzman<br>Genetics Engineering                                  | April 24, 2012    | 1 |
| Yale University | Biomedical Engineering with W Mark Saltzman<br>Genetics                                              | February 15, 2012 | 1 |
| Yale University | Biomedical Engineering with W Mark Saltzman<br>What is Biomedical Engineering                        | February 15, 2012 | 1 |

### Neurology / Vestibular / Brain Injury

| Organization                      | Title                                                                                                         | Date             | Credit |
|-----------------------------------|---------------------------------------------------------------------------------------------------------------|------------------|--------|
| The American Institute of Balance | Clinical Utility of the Neurodiagnostic Vestibular Evaluation: Management of the Dizzy and Imbalanced Patient | February 8, 2025 | 1      |
| Mind Alive – David Siever         | Physiology and Clinical Applications of AVE                                                                   | January 31, 2025 | 1      |

|                                                             |                                                                                                                                                |                  |     |
|-------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|------------------|-----|
| Mind Alive – David Siever                                   | Physiology of Audio-Visual Entrainment (AVE) (part 1 of 3)                                                                                     | February 1, 2025 | 1   |
| Mind Alive – David Siever                                   | Brain Brightening with Audio-Visual Entrainment: ADHD, Autism, Seniors, & College Students (Part 2 of 3)                                       | February 2, 2025 | 1   |
| Mind Alive – David Siever                                   | Clinical Applications of AVE: Anxiety, Depression, Pain, Sleep, SAD, Fibromyalgia, PTSD (Part 3 of 3)                                          | February 3, 2025 | 1   |
| Mind Alive – David Siever                                   | Boost Performance with AVE                                                                                                                     | February 3, 2025 | 1   |
| Mind Alive – David Siever                                   | Heart Rate Variability: Physiology & Psychological Factors plus a Novel Technique for Dramatically Enhanced Results with Your Toughest Clients | February 4, 2025 | 1   |
| Mind Alive – David Siever                                   | Concussion, TBI, Its Relation to Alzheimer's & CTE and Treatment with Audio-Visual Entrainment                                                 | February 5, 2025 | 1   |
| Mind Alive – David Siever                                   | Physiology of Cranio-Electro Stimulation (CES)                                                                                                 | February 5, 2025 | 1   |
| Mind Alive – David Siever                                   | Transcranial DC Stimulation: Physiology and Clinical Applications                                                                              | February 6, 2025 | 1   |
| Mind Alive – David Siever                                   | EEG - QEEG                                                                                                                                     | February 7, 2025 | 1   |
| Veilight                                                    | Transcranial Photobiomodulation (tPBM) for Athletic Performance and Recovery starts in 1 day                                                   | January 31, 2024 | 1   |
| MedScape                                                    | Normal EEG Waveforms                                                                                                                           | August 11, 2020  | 1   |
| Canadian Society of Clinical Neurophysiologists (CSCN) EEG. | Some Animal Models of Temporal Lobe Epilepsy.                                                                                                  | April 2, 2020    | 1   |
| Canadian Society of Clinical Neurophysiologists (CSCN) EEG. | Scalp EEG Findings in Temporal Lobe Epilepsy                                                                                                   | March 28, 2020   | 2   |
| Canadian Society of Clinical Neurophysiologists (CSCN) EEG. | Basic Cellular Neurophysiology                                                                                                                 | March 15, 2020   | .50 |
| Canadian Society of Clinical Neurophysiologists (CSCN) EEG. | Review of membrane potentials, action potentials, synaptic transmission and paroxysmal depolarization                                          | March 10, 2020   | 1   |

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|-------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|-------------------|-----|
| Canadian Society of Clinical Neurophysiologists (CSCN) EEG. | Basic Brain Rhythms                                                                                          | March 9, 2020     | 1   |
| Canadian Society of Clinical Neurophysiologists (CSCN) EEG. | Benign and Malignant Rolandic and Occipital Spikes                                                           | March 7, 2020     | 1.5 |
| Canadian Society of Clinical Neurophysiologists (CSCN) EEG. | Benign epileptiform variants                                                                                 | March 7, 2020     | 1   |
| Canadian Society of Clinical Neurophysiologists (CSCN) EEG. | Generalized seizures, generalized spike-waves and other things                                               | March 7, 2020     | 1.5 |
| Canadian Society of Clinical Neurophysiologists (CSCN) EEG. | Interictal epileptic spikes and partial seizures                                                             | March 5, 2020     | 2   |
| Canadian Society of Clinical Neurophysiologists (CSCN) EEG. | Periodic Lateralized Epileptiform Discharges                                                                 | March 4, 2020     | 1   |
| Canadian Society of Clinical Neurophysiologists (CSCN) EEG. | POLARITY & ARTIFACTS                                                                                         | February 27, 2020 | 2   |
| Canadian Society of Clinical Neurophysiologists (CSCN) EEG. | Digital EEG. From Basics to Advanced Analysis                                                                | February 25, 2020 | 1   |
| Canadian Society of Clinical Neurophysiologists (CSCN) EEG. | FUNDAMENTALS of EEG TECHNOLOGY. All you need to know about electricity and electronics as they relate to EEG | February 21, 2020 | 1   |
| Canadian Society of Clinical Neurophysiologists (CSCN) EEG. | How to Record EEG: Everything you wanted to know but were afraid to ask!                                     | February 15, 2020 | 2   |
| Canadian Society of Clinical Neurophysiologists (CSCN) EEG. | Brain Rhythms                                                                                                | February 11, 2020 | 1   |
| Canadian Society of Clinical Neurophysiologists (CSCN) EEG. | Cortical and subcortical anatomy: basics and applied                                                         | February 7, 2020  | 1   |
| Canadian Society of Clinical Neurophysiologists (CSCN) EEG. | Basic Cellular Neurophysiology                                                                               | February 3, 2020  | 1   |
| Canadian Society of Clinical Neurophysiologists (CSCN) EEG. | EEG IN CHILDREN: NORMAL AND ABNORMAL                                                                         | January 31, 2020  | 2   |
| Canadian Society of Clinical Neurophysiologists (CSCN) EEG. | Fundamentals of EEG Technology                                                                               | January 30, 2020  | 1   |
| Canadian Society of Clinical Neurophysiologists (CSCN) EEG. | Basic Science of Representative Normal Human EEG Potentials.                                                 | January 24, 2020  | 1   |
| Canadian Society of Clinical Neurophysiologists (CSCN) EEG. | Neonatal Electroencephalography: Normal and Abnormal.                                                        | January 20, 2020  | 4   |
| Medscape                                                    | Normal EEG Waveforms                                                                                         | January 18, 2020  | 1   |

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|-----------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|----------------------|------|
| University of Pennsylvania School of Medicine | Cognitive Tx Helps Kids with Migraines                                                                                        | July 7, 2013         | 0.25 |
| University of Pennsylvania School of Medicine | Wii May Help Balance in Parkinson's                                                                                           | June 29, 2013        | 0.25 |
| University of Pennsylvania School of Medicine | Biomarkers Can Diagnose Mild Brain Injury                                                                                     | June 23, 2013        | 0.25 |
| University of Pennsylvania School of Medicine | Heading Soccer Ball Injures Brain                                                                                             | June 11, 2013        | 0.25 |
| University of Pennsylvania School of Medicine | Mild Head Injury Upsets Brain's Resting State                                                                                 | November 25, 2012    | 0.25 |
| Massachusetts Institute of Technology         | Brain Structures and Origins<br>Gerald Schneider<br>Introduction: Brain Orientations, Primitive Cellular Activities           | February 20, 2012    | 1    |
| University of Chicago                         | Circuit Breaking: The Startle Response and Neuromotor Function<br>Melina E. Hale, PhD                                         | February 8, 2012     | 0.25 |
| University of Chicago                         | Color Binding in the Brain<br>Steven Shevell                                                                                  | February 8, 2012     | 0.25 |
| University of Chicago                         | Evolving Brain<br>Bruce Lahn                                                                                                  | February 8, 2012     | 0.25 |
| Massachusetts Institute of Technology         | Brain Structures and Origins<br>Gerald Schneider<br>Introduction: Brain Orientations, Primitive Cellular Activities           | January 31, 2012     | 1    |
| Columbia University                           | Neuroscience Frontiers of Science<br>Darcy B. Kelly<br>How Sex Differences in Motor Neurons and in the Muscle Fibers Develop. | January 31, 2012     | 0.25 |
| Neuroskills                                   | Brain Anatomy and Function                                                                                                    | August 15, 2011      | 1    |
| Neuroskills                                   | Brain Injury and Rehabilitation: An Overview                                                                                  | August 14, 2011      | 1    |
| Neuroskills                                   | Applied Behavior Analysis                                                                                                     | August 13, 2011      | 1    |
| Neuroskills                                   | Mild Traumatic Brain Injury                                                                                                   | August 12, 2011      | 1    |
| Greensboro AHEC                               | Treating the Invisible Wounds of War Series: Part 2: Traumatic Brain Injury                                                   | June 16, 2010        | 4    |
| Ontario Brain Injury Association              | Brain Injury Module 1 - Parts and Functions of the Brain                                                                      | November 19-20, 2009 | 12 t |

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|----------------------------------------------|-------------------------------------------------------------------------------|----------------------|------|
| Ontario Brain Injury Association             | Brain Injury Module 2 - ABI Types and Causes                                  | November 19-20, 2009 | 12 t |
| Ontario Brain Injury Association             | Brain Injury Module 3 - ABI General Strategies                                | November 19-20, 2009 | 12 t |
| Ontario Brain Injury Association             | Brain Injury Module 4 - ABI Consequences and Strategies Physical              | November 19-20, 2009 | 12 t |
| Ontario Brain Injury Association             | Brain Injury Module 5 - ABI Consequences and Strategies Cognitive             | November 19-20, 2009 | 12 t |
| Ontario Brain Injury Association             | Brain Injury Module 6 - ABI Consequences and Strategies Behavioural           | November 19-20, 2009 | 12 t |
| Ontario Brain Injury Association             | Brain Injury Module 7 - Support Roles: Team and Family                        | November 19-20, 2009 | 12 t |
| University of Alabama School of Medicine     | Traumatic Brain Injury: Assessment, Impact and Recovery                       | October 30, 2009     | 2.5  |
| American Academy of Brain Injury Specialists | Certified Brain Injury Specialist                                             | August 25, 2009      | NA   |
| British Medical Journal                      | Diagnosis and Management of Headaches                                         | August 25, 2009      | 1    |
| AHC Media LLC - American Medical Association | Managing Concussion in Young Athletes                                         | April 7, 2007        | 1    |
| Thomson American Health Consultants          | Pediatric Controversies: Diagnosis and Management of Traumatic Brain Injuries | April 7, 2007        | 2.5  |
| University of Washington Medical School      | Topics In Neurology                                                           | February 26, 2008    | 1.5  |
| Medscape                                     | Traumatic Brain Injury: An EEG point of View                                  | January 1, 2020      | 1    |

## Sleep Medicine

| Organization                                  | Title                                           | Date          | Credit |
|-----------------------------------------------|-------------------------------------------------|---------------|--------|
| University of Pennsylvania School of Medicine | Sleep Quality Often Affected by Trauma          | June 11, 2013 | 0.25   |
| University of Pennsylvania School of Medicine | Gene Mutations Tied to Migraine, Sleep Disorder | June 10, 2013 | 0.25   |

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|---------------------------------------------|-------------------------------------------------------------------------------------------|---------------|------|
| Johns Hopkins University School of Medicine | Recognizing and Treating Insomnia                                                         | June 12, 2009 | 0.5  |
| Johns Hopkins University School of Medicine | Sleep University                                                                          | June 12, 2009 | 0.75 |
| Johns Hopkins University School of Medicine | The Art of Sleep: Recognizing and Treating Insomnia in the Primary Care Practice          | June 12, 2009 | 1    |
|                                             | Prevalence of Sleep Disturbances and Its Relationship to Pain in Adults with Chronic Pain |               |      |

### Traffic Accident Investigation, Reconstruction and Analysis

| Organization                             | Title                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Date             | Credit |
|------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|--------|
| Northwestern University of Public Health | Accident Investigation 2<br>Includes: Vehicle damage analysis, Vehicle behavior, Lamp and Filament analysis, Tire damage analysis, measurement methods, interpretation of data and specialized data gathering.                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Present          | 80     |
| Toronto Police College                   | Accident Reconstruction Level 3<br>Includes 80 contact hours of training. Topics include: Drag Factor determination, Grade and Super Evaluation determination, Speed Distance Determination, Skid to Stop distance, Negative Skid to Stop Distance Determinations, Roadway Evidence, Scaled Diagrams, Fall, Flip and Vault speed calculations, Yaw speed calculations, critical curve speed analysis, Dynamic testing, Vehicle Dynamics, Radius Determination, Lamp Examination, Tire Examination, Pedestrian Collision, Systematic Collision Investigation, Crush Analysis, Commercial Motor Vehicle Examination, Motorcycle Collision Analysis, Mock Fatal Crash Test. | April 8-19, 2013 | 80     |

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|------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|----|
| Toronto Police College                   | Accident Reconstruction Level 2<br>Includes Drag Factor determination and Grade Evaluation, Speed Distance Determination, Skid to Stop distance, Negative Skid to Stop Distance Determinations, Roadway Evidence, Scaled Diagrams, At Scene Accident Photography, Dangerous Goods, Time Distance Measurements, Restraint System Evaluation, Tire Mark Evaluation (Skid Marks, Tire Marks, Imprints, Yaw Marks), Interview Techniques, Series of Events, and Vehicle Dynamics | June 18-29, 2012        | 80 |
| Michigan State University                | Accident Investigation AI 12<br>Pedestrian Accidents:<br>Includes Includes: Determining impact points through vehicle evaluation and estimation of impact speeds based upon pedestrian movement and vehicle damage characteristics. Session with forensic pathologist regarding pedestrian injury patterns.                                                                                                                                                                  | December 20-22, 2011    | 36 |
| Crash Data Group                         | Crash Data Analysis and Applications Certification                                                                                                                                                                                                                                                                                                                                                                                                                           | May 10-13, 2011         | 48 |
| Crash Data Group                         | Crash Data Retrieval Systems Operators (Technician) Certification                                                                                                                                                                                                                                                                                                                                                                                                            | May 9, 2011             | 12 |
| Northwestern University of Public Health | Accident Investigation 1<br>Includes: Preparation for traffic crash investigation, information from and about people, information from vehicles, information from roads, measuring and mapping the crash scene and photographing the crash scene and damaged vehicles.                                                                                                                                                                                                       | January - December 2011 | 80 |

### Whiplash and Motor Vehicle Trauma

| Organization | Title | Date | Credit |
|--------------|-------|------|--------|
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|-------------------------------------------------|-------------------------------------------------------------------------------------|-------------------|----|
| Stanford University                             | Functional Anatomy: The Neck and Parotid Region<br>Robert Chase MD/Richard Sneil MD | February 26, 2012 | 1  |
| American Academy of Experts in Traumatic Stress | Certified Motor Vehicle Trauma                                                      | May 4, 2011       | NA |
| Spine Research Institute of San Diego           | Whiplash and Brain Traumatology Advanced Course 1995                                | December 2010     | 12 |
| Spine Research Institute of San Diego           | Whiplash and Brain Traumatology Advanced Course 1996                                | January 2011      | 12 |
| Spine Research Institute of San Diego           | Whiplash and Brain Traumatology Advanced Course 1997                                | February 2011     | 12 |
| Spine Research Institute of San Diego           | Whiplash and Brain Traumatology Advanced Course 1998                                | March 2011        | 12 |
| Spine Research Institute of San Diego           | Whiplash and Brain Traumatology Advanced Course 1999                                | April 2011        | 12 |
| Spine Research Institute of San Diego           | Whiplash and Brain Traumatology Advanced Course 2000                                | May 2011          | 12 |
| Spine Research Institute of San Diego           | Whiplash and Brain Traumatology Advanced Course 2001                                | June 2011         | 12 |
| Spine Research Institute of San Diego           | Whiplash and Brain Traumatology Advanced Course 2002                                | June 2011         | 12 |
| Spine Research Institute of San Diego           | Whiplash and Brain Traumatology Advanced Course 2003                                | July 2011         | 12 |
| Spine Research Institute of San Diego           | Whiplash and Brain Traumatology Advanced Course 2004                                | July 2011         | 12 |
| Spine Research Institute of San Diego           | Whiplash and Brain Traumatology Advanced Course 2005                                | August 2011       | 12 |
| Spine Research Institute of San Diego           | Whiplash and Brain Traumatology Advanced Course 2006                                | August 2011       | 12 |
| Spine Research Institute of San Diego           | Whiplash and Brain Traumatology Advanced Course 2007                                | September 2011    | 12 |

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|---------------------------------------------|----------------------------------------------------------------|----------------------|------|
| Spine Research Institute of San Diego       | Whiplash and Brain Traumatology Advanced Course 2008           | September 2011       | 12   |
| Spine Research Institute of San Diego       | Whiplash and Brain Traumatology Advanced Course 2009           | September 2011       | 12   |
| Spine Research Institute of San Diego       | Whiplash and Brain Traumatology Advanced Course 2010           | November 2010        | 12   |
| American Chiropractic Association           | Whiplash                                                       | October 20, 2009     | 1    |
| MedScape                                    | Aggressive Care May Delay Recovery in Whiplash                 | July 20, 2007        | 0.25 |
| Spine Research Institute of San Diego       | Motor Vehicle Crash Forensics Risk Analysis Certification      | August 18-20, 2006   | 18   |
| Spine Research Institute of San Diego       | Advanced Medico-legal Seminar and Mock Trial                   | February 10-12, 2006 | 12   |
| Chiropractic Certification in Spinal Trauma | Integrative Weekend                                            | October 17, 2005     | 12   |
| Chiropractic Certification in Spinal Trauma | Chiropractic Jurisprudence                                     | October 10, 2005     | 12   |
| Chiropractic Certification in Spinal Trauma | Diagnosis, Treatment, Rehabilitation: Clinical Case Management | October 6, 2005      | 12   |
| Chiropractic Certification in Spinal Trauma | Diagnosis, Treatment, Rehabilitation: Clinical Case Management | September 30, 2005   | 12   |
| Chiropractic Certification in Spinal Trauma | Record-keeping, Patient Exam and Documentation                 | September 26, 2005   | 12   |
| Chiropractic Certification in Spinal Trauma | General Clinical Trauma Management                             | September 19, 2005   | 12   |
| Chiropractic Certification in Spinal Trauma | Accident Imaging: X-ray, MRI, CT, VF and Analysis              | September 12, 2005   | 12   |
| Chiropractic Certification in Spinal Trauma | Understanding Mechanisms of Vehicular Accident Injury          | September 12, 2005   | 12   |
| Chiropractic Certification in Spinal Trauma | Principles of Soft Tissue Injury and Repair                    | August 29, 2005      | 12   |
| Chiropractic Certification in Spinal Trauma | Trauma Neurology and Chiropractic                              | August 17 2005       | 12   |
| Dan Murphy - ICA                            | New Era in Whiplash and Spinal Trauma - Part 2                 | August 13-14, 2005   | 12   |

|                                       |                                                             |                  |    |
|---------------------------------------|-------------------------------------------------------------|------------------|----|
| Spine Research Institute of San Diego | Whiplash and Brain Traumatology Module 1                    | August 6-7, 2005 | 12 |
| Spine Research Institute of San Diego | Whiplash and Brain Traumatology Module 4                    | July 30-31, 2005 | 12 |
| Dan Murphy - ICA                      | New Era in Whiplash and Spinal Trauma - Part 2              | July 9-10, 2005  | 12 |
| Spine Research Institute of San Diego | Whiplash and Brain Traumatology Module 3                    | 2004             | 12 |
| Spine Research Institute of San Diego | Whiplash and Brain Traumatology Module 2                    | 2004             | 12 |
|                                       | Improving Functionability in Patients with Chronic Whiplash | 2004             | 1  |

### Spine / Orthopedics / Surgery / Trauma

| Organization                                | Title                                                                                      | Date                                 | Credit |
|---------------------------------------------|--------------------------------------------------------------------------------------------|--------------------------------------|--------|
| American Medical Association                | When Symptoms Aren't Visible or Measurable, How Should Disability Be Assessed?             | June 6, 2024                         | 1      |
| Duke University Medical School              | Duke Neurosurgery Spine Symposium 2021                                                     | January 29, 2022                     | 5.5    |
| Duke University Medical School              | Duke Neurosurgery Spine Symposium 2021                                                     | May 22, 2021 to May 23, 2021         | 10     |
| Duke University Medical School              | Duke Neurosurgery Spine Symposium 2020                                                     | October 23, 2020 to October 25, 2020 | 9.25   |
| University of North Carolina Medical School | Professionalism in an Academic Medical Center<br>Douglas R. Dirschi, MD                    | February 26, 2012                    | 0.25   |
| University of North Carolina Medical School | Initial Management of Open Fractures of the Tibia<br>Douglas R. Dirschi, MD                | February 15, 2012                    | 0.25   |
| University of Arizona                       | Surgery Ground Rounds: The Evidence of Trauma Systems effectiveness<br>Jerry Jurkovich, MD | February 8, 2012                     | 1      |
| University of North Carolina Medical School | Fracture Healing after Intramedullary Nailing<br>Douglas R. Dirschi, MD                    | February 2, 2012                     | 0.25   |

|                                             |                                                        |                  |      |
|---------------------------------------------|--------------------------------------------------------|------------------|------|
| University of North Carolina Medical School | The History of Fracture Care<br>Douglas R. Dirschi, MD | February 2, 2012 | 0.25 |
|---------------------------------------------|--------------------------------------------------------|------------------|------|

## Therapies and Treatments

| Organization                                 | Title                                                                                                              | Date                  | Credit |
|----------------------------------------------|--------------------------------------------------------------------------------------------------------------------|-----------------------|--------|
| Clairus                                      | Precision in Pain Management: Ultrasound-Guided Therapies for Chronic Head and Neck Pain!                          | February 26, 2025     | 2      |
| iMotions                                     | Master Advanced Eye Tracking Data Analysis: Hardware-Independent Strategies and Automated AOIs to Elevate Insights | February 28, 2025     | 2      |
| PRIMED- American Medical Association         | Sports Injuries in Children                                                                                        | September 24, 2007    | 1      |
| New York Chiropractic College                | Sacro-Occipital-Technique Part 1<br>Dr. Kurt Larson                                                                | January 21-22, 2006   | 12     |
| International Academy of Medical Acupuncture | Acupuncture Module 6                                                                                               | January 7-8, 2006     | 15     |
| International Academy of Medical Acupuncture | Acupuncture Module 5                                                                                               | December 10-11, 2005  | 15     |
| International Academy of Medical Acupuncture | Acupuncture Module 4                                                                                               | November 19-20, 2005  | 15     |
| International Academy of Medical Acupuncture | Acupuncture Module 3                                                                                               | October 29-30, 2005   | 15     |
| International Academy of Medical Acupuncture | Acupuncture Module 2                                                                                               | October 1-2, 2005     | 15     |
| International Academy of Medical Acupuncture | Acupuncture Module 1                                                                                               | September 10-11, 2005 | 15     |
| New York Chiropractic College                | Low Level Last Workshop                                                                                            | November 10, 2005     | 3      |
| New York Chiropractic College                | Solving Ergonomics                                                                                                 | August 25, 2005       | 3      |
| New York Chiropractic College                | Diagnosis and Management of Headaches                                                                              | June 23, 2005         | 3      |
| New York Chiropractic College                | Chiropractic Nutrition Part 2                                                                                      | July 23, 2005         | 6      |
| New York Chiropractic College                | Chiropractic Nutrition Part 1                                                                                      | June 25, 2005         | 6      |

|                               |                                                                   |                   |    |
|-------------------------------|-------------------------------------------------------------------|-------------------|----|
| New York Chiropractic College | Advanced Nimmo Receptor Tonus Technique:<br>Jeffrey Cohen         | June 11-12, 2005  | 12 |
| New York Chiropractic College | Spinal Trauma: The Rest of the Story<br>Dr. Murphy                | May 15, 2005      | 3  |
| New York Chiropractic College | Nimmo Receptor Tonus Technique:<br>Jeffrey Cohen                  | April 2-3, 2005   | 12 |
| New York Chiropractic College | The Shoulder Made Simple<br>Dr. Dale Buckberger                   | March 21-22, 2004 | 12 |
| New York Chiropractic College | Practical Nutrition for the Chiropractic Office                   |                   | 3  |
| New York Chiropractic College | Integrative Healthcare an Evolving Model                          |                   | 3  |
| New York Chiropractic College | Sacro-Occipital-Technique Part 2<br>Dr. Kurt Larson               |                   | 12 |
| New York Chiropractic College | Sacro-Occipital-Technique Part 3<br>Dr. Kurt Larson               |                   | 12 |
| New York Chiropractic College | Cox Flexion Distraction Technique                                 |                   | NA |
| New York Chiropractic College | Acupuncture Clinical Application                                  |                   | NA |
| New York Chiropractic College | Spinal Cord Stimulation and Occlusive Peripheral Vascular Disease |                   | NA |

### **Ethics / Documentation / CPR**

| <b>Organization</b>                           | <b>Title</b>                                     | <b>Date</b>        | <b>Credit</b> |
|-----------------------------------------------|--------------------------------------------------|--------------------|---------------|
| American Medical Association                  | Ethics Talk: The Invisibility of Chronic Pain    | June 6, 2024       | 1             |
| University of Pennsylvania School of Medicine | Muscle Building May Help Teens Avoid Early Death | November 25, 2012  | 0.25          |
| Yale University School of Medicine            | Art and Medicine                                 | October 24, 2007   | 1             |
| New York Chiropractic College                 | Documentation and Record Keeping                 | December 3-4, 2005 | 12            |
| New York Chiropractic College                 | Ethical and Boundaries                           | August 27, 2005    | 3             |

|                                          |                                                                                    |               |    |
|------------------------------------------|------------------------------------------------------------------------------------|---------------|----|
| New York Chiropractic College            | Ethical Considerations in Private Practice                                         | June 18, 2005 | 3  |
| New York Chiropractic College            | Avoiding Ethical Landmines & Criminality in Your Employment Contract               | **            | NA |
| New York Chiropractic College            | Fee-Splitting, Self Referrals, Kickbacks: The Latest Word on Prohibited Healthcare | **            | NA |
| New York Chiropractic College            | Hospital Procedures and Protocols                                                  | **            | NA |
| New York Chiropractic College            | Success - Coding and Documentation                                                 | **            | NA |
| Heaven Can Wait Emergency First Aid Inc. | CPR and First Aid                                                                  | February 2025 | 8  |