

Seminar Topics – Tentative Topics 34 Credit Hours

Motor Vehicle Crash Forensics

- What is Crash Forensics 9:00 AM
- Types of Collision Vectors / PDOF
- Rear Impact 9:30 AM
 - 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 10:00 AM
 - Phases of Injury/Sequence of Events
 - Kinematic Response
- Side Impact 11:00 AM
 - Phases of Injury/Sequence of Events
 - Kinematic Response Near Side Collision
 - Kinematic Response Far Side Collision
- Special Considerations 12:00 PM
 - Small Overlap Collision

Lunch Break 12:30 PM to 1:00 PM

- Accident Risk Factors 1:00 PM
- Accident Reconstruction and Injury 3:00 PM
- Introduction to Event Data Recorders 5:00 PM

End Day 1 5:30 PM

Physical Examination

- History and Intake 9:00 AM
- Relevant Past Medical History 9:30 AM
- Physical Examination – Muscle 10:00 AM

Lunch Break 12:00 PM

- Physical Examination – Neurological 12:30 PM
- Physical Examination – Vestibular 2:00 PM
- Physical Examination – Orthopedic 3:30 PM
- Types of Referred Pain 4:00 PM
 - Somatic
 - Visceral
 - Myogenous

End Day 2 5:30 PM

Neurophysiology

- Concussion Injury Mechanisms 9:00 AM
 - 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

Lunch Break 12:00 PM

- Neuropathy Injury Mechanisms 12:30 PM
- Traumatic Stress
- Pain Pathophysiology 1:00 PM
 - Pain Pathophysiology
 - Pain Fiber Evaluation and Testing
 - Digital Algometry Testing
 - Biomechanics in Pain Assessment
- Neurophysiological Special Testing 3:00 PM
 - Quantitative Electroencephalography (qEEG)
 - Surface Electromyography (sEMG)
 - Electromyography (EMG)
 - Nerve Conduction Velocity (NCV)
 - AMA Guidelines 6^o Edition Impairment

End Day 3 5:30 PM

- Vestibular Testing 9:00 AM
 - Electronystagmography (ENG)
 - Visual Evoked Potentials (VEP)
 - Somatosensory Evoked Potentials (SEP)
 - Posturography Computerized Testing
 - AMA Guidelines 6^o Edition Impairment

Physical Medicine Treatment Options and Protocol 11:00 AM

- Cervical Traction
- Alpha Stimulation
- Photobiomodulation
- Pulsed Radio Frequency
- Neurofeedback
- Biofeedback

Lunch Break 12:30 PM

- Spinal Manipulation
- Acupuncture
- Electrical Therapy
- Laser Therapy
- Exercise
 - Strengthening
 - Neurokinetic Exercises
 - Muscle Re-Education

- Consequences of Inadequate or Under Treatment

Additional Special Testing

3:00 PM

- Radiographic Examination
- MRI Examination
- CT Examination
- Videofluoroscopy Examination
- Radionuclide Bone Scan and SPECT Examination
- Positron Emission Tomography (PET) Examination
- Color-Coded Duplex Sonography (CCDS)
- Thermography
- Regional Cerebral Bloodflow Perfusion Examination
- POCUS US

Sample Assessment and Report Writing – MedLegal

4:30 PM

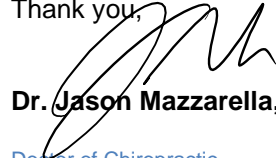
- Sample report review

End Day 4

5:30 PM

Please feel free to contact this office with any questions.

Thank you,



Dr. Jason Mazzearella, D.C.

Doctor of Chiropractic
 Director North American Spine Institute
 Medical Advisor Crawford and Company Canada
 Elected Board Member – Canadian Institute for the Relief of Pain and Disability 2013
 Elected Medical Board Peer Review – Journal of Anesthesia and Pain Management 2019
 International Post Graduate Lecturer - Medical curriculum on Crash Forensics, Whiplash Traumatology and the Biopsychosocial Model of Pain
 International Post Graduate Lecturer - Chiropractic curriculum on Crash Forensics, Whiplash Traumatology and the Biopsychosocial Model of Pain
 Graduate Lecturer Accident Reconstructionist - Occupant Kinematics, Injury Biomechanics and Crash Forensics
 Diplomate American Academy of Integrative Pain Management 2018
 Diplomate American Academy of Pain Management 2011 and 2016
 Diplomate Canadian Academy of Pain Management 2011
 Diplomate 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 Motor Vehicle Crash – Forensics Risk Analysis 2006
 Certification Brain Injury 2009
 Certificate Whiplash and Brain Traumatology 2005
 Advanced Certificate of Competency Whiplash and Brain Traumatology 2011
 NBCE Certified Physiotherapy Competency 2005
 BSc. Kinesiology Movement Science 2001
 BSc. Health Policy and Administration 2001
 Crash Data Retrieval System Operators (Technician) Certification 2012
 Crash Data Analysis and Application Certification 2013
 Certification Accident Investigation 2011
 Certification Accident Investigation and Reconstruction Level 2 2012
 Certification Accident Investigation and Reconstruction Level 3 2013