

Brian D. Berkey, DC, ACRB-Level 1, CGFI, CFCE

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SELECTED OCCUPATIONAL HISTORY

Chiropractic Physician and Clinical Director, Advanced Physical Medicine of Yorkville, Ltd., Yorkville, IL, 2003-present

Chiropractic Assistant, Advanced Physical Medicine & Rehab, Hoffman Estates, IL, 2002-2003

EDUCATION AND LICENSURE

National University of Health Sciences, Doctorate of Chiropractic, Lombard, IL 2002
Internship, Woodward Medical Clinic, Woodridge, IL 2001-2002

National University of Health Sciences, Bachelor of Science, Lombard, IL, 2000

SELECTED POST-GRADUATE EDUCATION, CERTIFICATIONS, and DIPLOMATES

Impairment Rating, The understanding and utilization of the protocols and parameters of the AMA Guide to the Evaluation of Permanent Impairment 6th Edition. Spine, neurological sequelae, migraine, sexual dysfunction, sleep and arousal disorders, station and gait disorders and consciousness are detailed for impairment rating. Herniated discs, radiculopathy, fracture, dislocation and functional loss are also detailed in relation to impairment ratings. [Texas Chiropractic College or PACE Recognized by The Federation of Chiropractic Licensing Boards]', ACCME Joint Providership with the State University of New York at Buffalo Jacobs School of Medicine and Biomedical Sciences, Academy of Chiropractic Post-Doctoral Division, Buffalo, NY, 2018

Spinal Trauma Pathology, Triage and Connective Tissue Injuries and Wound Repair, Triaging the injured and differentially diagnosing both the primary and secondary complaints. Connective tissue injuries and wound repair morphology focusing on the aberrant tissue replacement and permanency prognosis potential. [Texas Chiropractic College, PACE Recognized by The Federation of Chiropractic Licensing Boards> ACCME Joint Providership with the State University of New York at Buffalo Jacobs School of Medicine and Biomedical Sciences, Academy of Chiropractic Post-Doctoral Division, Buffalo, NY, 2018

Spinal Trauma Pathology: Ligament Anatomy and Injury Research and Spinal Kinematics, Spinal ligamentous anatomy and research focusing on wound repair, future negative sequelae of abnormal tissue replacement and the resultant aberrant kinematics

and spinal biomechanics of the spine. [Texas Chiropractic College, PACE Recognized by The Federation of Chiropractic Licensing Boards,] ACCME Joint Providership with the State University of New York at Buffalo Jacobs School of Medicine and Biomedical Sciences, Academy of Chiropractic Post-Doctoral Division, Buffalo, NY, 2018

Spinal Trauma Pathology: Spinal Biomechanics, Central Nervous System and Spinal Disc Nomenclature, The application of spinal biomechanical engineering models in trauma and the negative sequelae it has on the central nervous system inclusive of the lateral horn, periaqueductal gray matter, thalamus and cortices involvement. [Texas Chiropractic College, PACE Recognized The by Federation of Chiropractic Licensing Boards,] ACCME Joint Providership with the State University of New York at Buffalo Jacobs School of Medicine and Biomedical Sciences, Academy of Chiropractic Post - Doctoral Division, Buffalo, NY, 2018

Spinal Trauma Pathology: Biomechanics of Traumatic Disc Bulge and Age Dating Herniated Disc Pathology, The biomechanics of traumatic disc bulges as sequella from trauma and the comorbidity of ligamentous pathology. Age-dating spinal disc pathology in accordance with Wolff's Law. [Texas Chiropractic College, PACE Recognized by The Federation of Chiropractic Licensing Boards,] ACCME Joint Providership with the State University of New York at Buffalo Jacobs School of Medicine and Biomedical Sciences, Academy of Chiropractic Post-Doctoral Division, Buffalo, NY, 2018

Spinal Trauma Pathology: Clinical Grand Rounds, The review of case histories of mechanical spine pathology and biomechanical failures inclusive of case histories, clinical findings and x-ray and advanced imaging studies. Assessing comorbidities in the triage and prognosis of the injured. [Texas Chiropractic College, PACE Recognized by The Federation of Chiropractic Licensing Boards,] ACCME Joint Providership with the State University of New York at Buffalo Jacobs School of Medicine and Biomedical Sciences, Academy of Chiropractic Post-Doctoral Division, Buffalo, NY, 2018

Spinal Trauma Pathology: Research Perspectives, The review of current literature standards in spinal trauma pathology and documentation review of biomechanical failure, ligamentous failure and age-dating disc pathology. [Texas Chiropractic College, PACE Recognized by The Federation of Chiropractic Licensing Boards,] ACCME Joint Providership with the State University of New York at Buffalo Jacobs School of Medicine and Biomedical Sciences, Academy of Chiropractic Post-Doctoral Division, Buffalo, NY, 2018

Spinal Biomechanical Engineering: Cartesian System, The Cartesian Coordinate System from the history to the application in the human body. Explanation of the x, y and z axes in both translation and rotations (thetas) and how they are applicable to human biomechanics. [Texas Chiropractic College or PACE Recognized by The Federation of Chiropractic Licensing Boards>, ACCME Joint Providership with the State University of New York at Buffalo Jacobs School of Medicine and Biomedical Sciences, Academy of Chiropractic Post-Doctoral Division, Buffalo, NY, 2018

Spinal Biomechanical Engineering: *Cervical Pathobiomechanics, Spinal biomechanical engineering of the cervical and upper thoracic spine. This includes the normal and pathobiomechanical movement of both the anterior and posterior motor units and normal function and relationship of the intrinsic musculature to those motor units. Nomenclature in reporting normal and pathobiomechanical findings of the spine.* [Texas Chiropractic College or PACE Recognized by The Federation of Chiropractic Licensing Boards], ACCME Joint Providership with the State University of New York at Buffalo Jacobs School of Medicine and Biomedical Sciences, Academy of Chiropractic Post-Doctoral Division, Buffalo, NY, 2018

Spinal Biomechanical Engineering: *Lumbar Pathobiomechanics, Spinal biomechanical engineering of the lumbar spine. This includes the normal and pathobiomechanical movement of both the anterior and posterior motor units and normal function and relationship of the intrinsic musculature to those motor units. Nomenclature in reporting normal and pathobiomechanical findings of the spine.* [Texas Chiropractic College or PACE Recognized by The Federation of Chiropractic Licensing Boards], ACCME Joint Providership with the State University of New York at Buffalo Jacobs School of Medicine and Biomedical Sciences, Academy of Chiropractic Post-Doctoral Division, Buffalo, NY, 2018

Spinal Biomechanics in Trauma, *To utilize whiplash associated disorders in various vectors of impact and whiplash mechanisms in determining pathobiomechanics. To clinically correlate annular tears, disc herniations, fractures, ligament pathology and spinal segmental instability as sequellae to pathobiomechanics from trauma. The utilization of digital motion x-ray in diagnosing normal versus abnormal facet motion along with case studies to understand the clinical application.* [Texas Chiropractic College or PACE Recognized by The Federation of Chiropractic Licensing Boards], ACCME Joint Providership with the State University of New York at Buffalo Jacobs School of Medicine and Biomedical Sciences, Academy of Chiropractic Post-Doctoral Division, Buffalo, NY, 2018

Spinal Biomechanical Engineering & Organizational Analysis, *Integrating spinal biomechanics and pathobiomechanics through digitized analysis. The comparison of organized versus disorganized compensation with regional and global compensation. Correlation of the vestibular, ocular and proprioceptive neurological integration in the righting reflex as evidenced in imaging. Digital and numerical algorithm in analyzing a spine.* [Texas Chiropractic College or PACE Recognized by The Federation of Chiropractic Licensing Boards], ACCME Joint Providership with the State University of New York at Buffalo Jacobs School of Medicine and Biomedical Sciences, Academy of Chiropractic Post-Doctoral Division, Buffalo, NY, 2018

Spinal Biomechanical Engineering: *Cervical Digital Analysis, Digitizing and analyzing the cervical spine in neutral, flexion and extension views to diagnose pathobiomechanics. This includes alteration of motion segment integrity (AMOSI) in both angular and translational movement. Ligament instability/failure/pathology are identified all using numerical values and models. Review of case studies to analyze pathobiomechanics using*

a computerized/numerical algorithm. [Texas Chiropractic College or PACE Recognized by The Federation of Chiropractic Licensing Boards], ACCME Joint Providership with the State University of New York at Buffalo Jacobs School of Medicine and Biomedical Sciences, Academy of Chiropractic Post-Doctoral Division, Buffalo, NY, 2018

Spinal Biomechanical Engineering: *Lumbar Digital Analysis, Digitalizing and analyzing the lumbar spine images to diagnose pathobiomechanics. This includes anterior and posterior vertebral body elements in rotational analysis with neutral, left and right lateral bending in conjunction with gate analysis. Ligament instability/failure/pathology is identified all using numerical values and models. Review of case studies for analysis of pathobiomechanics using a computerized/numerical algorithm along with corrective guidelines.* [Texas Chiropractic College or PACE Recognized by The Federation of Chiropractic Licensing Boards], ACCME Joint Providership with the State University of New York at Buffalo Jacobs School of Medicine and Biomedical Sciences, Academy of Chiropractic Post-Doctoral Division, Buffalo, NY, 2018

Spinal Biomechanical Engineering: *Full Spine Digital Analysis, Digitalizing and analyzing the full spine images to diagnose pathobiomechanics as sequellae to trauma in relation to ligamentous failure and disc and vertebral pathology as sequellae. This includes anterior and posterior vertebral body elements in rotational analysis with neutral, left and right lateral bending in conjunction with gate analysis. Ligament instability/failure/pathology is identified all using numerical values and models. Review of case studies for analysis of pathobiomechanics using a computerized/numerical algorithm along with corrective guidelines.* [Texas Chiropractic College or PACE Recognized by The Federation of Chiropractic Licensing Boards], ACCME Joint Providership with the State University of New York at Buffalo Jacobs School of Medicine and Biomedical Sciences, Academy of Chiropractic Post-Doctoral Division, Buffalo, NY, 2018

MRI History and Physics, *Magnetic fields, T1 and T2 relaxations, nuclear spins, phase encoding, spin echo, T1 and T2 contrast, magnetic properties of metals and the historical perspective of the creation of NMR and MRI.* [Texas Chiropractic College or PACE Recognized by The Federation of Chiropractic Licensing Boards], ACCME Joint Providership with the State University of New York at Buffalo Jacobs School of Medicine and Biomedical Sciences, Academy of Chiropractic Post-Doctoral Division, Buffalo, NY, 2018

MRI Spinal Anatomy and Protocols, *Normal anatomy of axial and sagittal views utilizing T1, T2, 3D gradient and STIR sequences of imaging. Standardized and desired protocols in views and sequencing of MRI examination to create an accurate diagnosis in MRI.* [Texas Chiropractic College or PACE Recognized by The Federation of Chiropractic Licensing Boards], ACCME Joint Providership with the State University of New York at Buffalo Jacobs School of Medicine and Biomedical Sciences, Academy of Chiropractic Post-Doctoral Division, Buffalo, NY, 2018

MRI Disc Pathology and Spinal Stenosis, *MRI interpretation of bulged, herniated, protruded, extruded, sequestered and fragmented disc pathologies in etiology and neurological sequelae in relationship to the spinal cord and spinal nerve roots.* [Texas Chiropractic College or PACE Recognized by The Federation of Chiropractic Licensing Boards], ACCME Joint Providership with the State University of New York at Buffalo Jacobs School of Medicine and Biomedical Sciences, Academy of Chiropractic Post-Doctoral Division, Buffalo, NY, 2018

MRI Spinal Pathology, *MRI interpretation of bone, intradural, extradural, cord and neural sleeve lesions. Tuberculosis, drop lesions, metastasis, ependymoma, schwannoma and numerous other spinal related tumors and lesions.* [Texas Chiropractic College or PACE Recognized by The Federation of Chiropractic Licensing Boards], ACCME Joint Providership with the State University of New York at Buffalo Jacobs School of Medicine and Biomedical Sciences, Academy of Chiropractic Post-Doctoral Division, Buffalo, NY, 2018

MRI Methodology of Analysis, *MRI interpretation sequencing of the cervical, thoracic and lumbar spine inclusive of T1, T2, STIR and 3D gradient studies to ensure the accurate diagnosis of the region visualized.* New York Chiropractic Council, ACCME Joint Sponsorship with the State University of New York at Buffalo, School of Medicine and Biomedical Sciences, [Texas Chiropractic College or PACE Recognized by The Federation of Chiropractic Licensing Boards], ACCME Joint Providership with the State University of New York at Buffalo Jacobs, School of Medicine and Biomedical Sciences, Academy of Chiropractic Post-Doctoral Division, Buffalo, NY, 2018

MRI Clinical Application, *The clinical application of the results of space occupying lesions. Disc and tumor pathologies and the clinical indications of manual and adjustive therapies in the patient with spinal nerve root and spinal cord insult as sequelae.* [Texas Chiropractic College or PACE Recognized by The Federation of Chiropractic Licensing Boards], ACCME Joint Providership with the State University of New York at Buffalo Jacobs School of Medicine and Biomedical Sciences, Academy of Chiropractic Post-Doctoral Division, Buffalo, NY, 2018

MRI Protocols Clinical Necessity, *MRI slices, views, T1, T2, STIR axial, stacking, FFE, FSE and sagittal images. Clinical indication for the utilization of MRI and pathologies of disc in both trauma and non-trauma sequellae, including bulge, herniation, protrusion, extrusion and sequestration.*[Texas Chiropractic College or PACE Recognized by The Federation of Chiropractic Licensing Boards], ACCME Joint Providership with the State University of New York at Buffalo Jacobs School of Medicine and Biomedical Sciences, Academy of Chiropractic Post-Doctoral Division, Buffalo, NY, 2018

MRI Interpretation of Lumbar Degeneration/Bulges, *MRI slices, views, T1, T2, STIR axial, stacking, FFE, FSE and sagittal images in the interpretation of lumbar degeneration. With the co-morbidities and complications of stenosis, pseudo-protrusions, cantilevered vertebrae, Schmorl's nodes and herniations. Central canal and cauda equina compromise interpretation with management.* [Texas Chiropractic College or

PACE Recognized by The Federation of Chiropractic Licensing Boards], ACCME Joint Providership with the State University of New York at Buffalo Jacobs School of Medicine and Biomedical Sciences, Academy of Chiropractic Post-Doctoral Division, Buffalo, NY, 2018

MRI Interpretation of Lumbar Herniations, *MRI slices, views, T1, T2, STIR axial, stacking, FFE, FSE and sagittal images in the interpretation of lumbar herniations. With the co-morbidities and complications of stenosis, pseudo-protrusions, cantilevered vertebrate, Schmorl's nodes and herniations. Morphology of lumbar disc pathologies of central and lateral herniations, protrusions, extrusions, sequestration, focal and broad based herniations are defined and illustrated. Central canal and cauda equina compromise interpretation with management.* [Texas Chiropractic College or PACE Reconized by The Federation of Chiropractic Licensing Boards], ACCME Joint Providership with the State University of New York at Buffalo Jacobs School of Medicine and Biomedical Sciences, Academy of Chiropractic Post-Doctoral Division, Buffalo, NY, 2018

MRI Interpretation of Cervical Degeneration/Bulges, *MRI slices, views, T1, T2, STIR axial, stacking, FFE, FSE and sagittal images in the interpretation of cervical degeneration. With the co-morbidities and complications of stenosis, pseudo-protrusions, cantilevered vertebrate, Schmorl's nodes and herniations. Spinal cord and canal compromise interpretation with management.* [Texas Chiropractic College or PACE Recognized by The Federation of Chiropractic Licensing Boards], ACCME Joint Providership with the State University of New York at Buffalo Jacobs School of Medicine and Biomedical Sciences, Academy of Chiropractic Post-Doctoral Division, Buffalo, NY, 2018

MRI Interpretation of Cervical Herniations, *MRI slices, views, T1, T2, STIR Axial, FFE, FSE and sagittal images in the interpretation of lumbar herniations. With the co-morbidities and complications of stenosis, pseudo-protrusions, cantilevered vertebrate, Schmorl's nodes and herniations. morphology of lumbar disc pathologies of central and lateral herniations, protrusions, extrusions, sequestration, focal and broad based herniations are defined and illustrated. Spinal cord and canal compromise interpretation with management.* [Texas Chiropractic College or PACE Recognized by The Federation of Chiropractic Licensing Boards], ACCME Joint Providership with the State University of New York at Buffalo Jacobs School of Medicine and Biomedical Sciences, Academy of Chiropractic Post-Doctoral Division, Buffalo, NY, 2018

MRI Interpretation of Degenerative Spine and Disc Disease with Overlapping Traumatic Insult to Both Spine and Disc, *MRI slices, views, T1, T2, STIR Axial, FFE, FSE and sagittal images in the interpretation of degenerative spondylolesthesis, spinal canal stenosis, Modic type 3 changes, central herniations, extrusions, compressions, nerve root compressions, advanced spurring and thecal sac involvement from an orthopedic, emergency room, chiropractic, neurological, neurosurgical, physical medicine perspective.* [Texas Chiropractic College or PACE Recognized by The Federation of Chiropractic Licensing Boards], ACCME Joint Providership with the State University of

New York at Buffalo Jacobs School of Medicine and Biomedical Sciences, Academy of Chiropractic Post-Doctoral Division, Buffalo, NY, 2018

Spinal Bio-Engineering Seminar, A course describing the structural and functional organization of the spinal-pelvic system. Fundamental and advanced concepts on spinal biomechanics are introduced by presenting a coherent spinal model describing normal segmental coupling, regional adaptation, and global compensation. The clinical model is a structural and mechanical engineering approach based on x-ray physics, mathematics, and statistical analysis. The normal movements of gait are integrated in this total biomechanical approach to explain spine distortion, predictable functional scoliosis, and lumbar disc failure. Case studies are demonstrated to radiographic analyses and physical findings to determine clinical solutions and soft tissue rehabilitation.
PACE Recognized by The Federation of Chiropractic Licensing Boards, Weldon Spring, MO, 2018

Traffic Crash Reconstruction 1 – Analyzing and interpreting information in order to describe the auto crash and the events leading to actual impact. Training to successfully reconstruct traffic crashes. Understanding basic equations of motion, heavy truck crash reconstruction, conservation of momentum, and energy. Northwestern University Center for Public Safety, Evanston, IL 2017

Primary Spine Care Symposium – Interprofessional Spine Care, Clinical analysis of anatomic versus biomechanical spine pain and clinical triage protocols. Relating current research trends in the Whole Spine Model of patient including normal versus abnormal sagittal curvature in the adolescent and adult spine, pelvic incidence as a parameter for sagittal balance in the human spine and current methods of assessment. Patient centered approach to Evidenced Based Spine care with a focus on diagnosis, prognosis and triage of the spine pain patient, Texas Chiropractic College Post-Doctoral Division, Academy of Chiropractic Post-Doctoral Division, Melville NY 2017

Primary Spine Care Symposium – Epidemiology of Spine Pain, Review of the current Centers for Disease Control [CDC] data on the frequency of musculoskeletal pain in the United States population with emphasis on pain of spinal origin. CDC guidelines on opioid medication were discussed and correlated to persistent pain syndromes. Research was reviewed showing the importance of managing the spine pain patient properly from the entry point of care with a concentration on maintenance of spinal biomechanics, Texas Chiropractic College Post-Doctoral Division, Academy of Chiropractic Post-Doctoral Division, Melville NY 2017

Primary Spine Care Symposium- Connective Tissue and Spinal Disc Pathology, The morphology and pathology of connective tissue, inclusive of spinal disc disorders and prognosticating wound repair with permanency implications. Disc bulge, herniation, protrusion and extrusion classifications based upon contemporary literature and how to age-date disc pathology, Texas Chiropractic College Post-Doctoral Division, Academy of Chiropractic Post-Doctoral Division, Melville NY 2017

Primary Spine Care Symposium – *Physiology and Anatomy of Spinal Manual Adjusting, Understanding the role of mechanoreceptors, proprioceptors and nociceptors with facets, ligaments, tendons and muscles in aberrant spinal biomechanics. MRI and imaging studies of decompressing via a chiropractic spinal adjustment of the bio-neuro-mechanical lesion and its effects on the central nervous system both reflexively and supratentorially*, Texas Chiropractic College Post-Doctoral Division, Academy of Chiropractic Post-Doctoral Division, Melville NY 2017

Primary Spine Care Symposium – *Medical-Legal Documentation, The contemporary documentation required in a medical-legal environment that is evidenced based and meets the standards of the courts and academia. Utilizing the scientific data to support a diagnosis, prognosis and treatment plan while meeting the admissibility standards based upon a professional's credentials*. Texas Chiropractic College Post-Doctoral Division, Academy of Chiropractic Post-Doctoral Division, Melville NY 2017

Vehicle Dynamics – *Dynamics relating to objects involved in traffic crashes, Understanding the relationship of drag factor, coefficient of friction, and acceleration. Methodology used to estimate vehicle speeds based on flips, vaults, and sideslip. Understanding differences between force, momentum, and energy and how each applies to crash investigation and reconstruction*. Northwestern University Center for Public Safety, Evanston, IL 2016

Primary Spine Care, *Neurophysiological central and peripheral nervous systems mechanisms of pain with integrated higher cortical functions of the thalamus, cingulate, amygdala, pre-frontal, motor and sensory cortexes. Trauma and chronic pain care effecting mechanoreceptors, nociceptors and proprioceptors through adjustive therapy based upon evidenced based care and current literature verification*, Texas Chiropractic College, New York State Department of Education Board for Chiropractic, Academy of Chiropractic, Recognized by the PACE Program of the Federation of Chiropractic Licensing Boards, Islandia NY 2015

Primary Spine Care with Interdisciplinary Collaborative Care, *Triage of patients based upon MRI findings of disc herniation, disc bulge, protrusion, extrusion or sequestrations and spinal cord or nerve root negative sequella, clinical findings of neuro-compressive pathologies and neurodiagnostic findings of EMG-NCV, SSEP, VEP, BAER, VEP and V-ENG findings*. Texas Chiropractic College, New York State Department of Education Board for Chiropractic, Academy of Chiropractic, Academy of Chiropractic, Recognized by the PACE Program of the Federation of Chiropractic Licensing Boards, Islandia NY 2015

Work Hardening/Conditioning Advanced Work Rehab, *In depth training on work hardening/conditioning evaluations, designing treatment plans, patient progression, return to work protocols, and effective communication*. OCCUPRO, Kenosha, WI, 2015

Concussion Grading, Management, & Return to Play Guidelines, *A review of the SCAT 3 on field evaluation, ImPACT testing, December 2013 return to play guidelines and protocols.* National University of Health Sciences, Lombard, IL 2014

Imaging & Management of Athletic Injuries – Head & Spine, *A review of advanced imaging for head and neck injuries.* National University of Health Sciences, Lombard, IL 2014

Know Pain, Know Gain: Explaining Pain Concepts to Minimize Chronic Pain, *Understanding chronic pain and the psychological impact it causes to the body. Review of current literature regarding treating chronic pain and treatment protocols. Functional rehabilitation evaluations and treatment protocols.* National University of Health Sciences, Lombard, IL 2014

Neurodiagnostics, Imaging Protocols and Pathology of the Trauma Patient, *An in- depth understanding of the protocols in triaging and reporting the clinical findings of the trauma patient. Maintaining ethical relationships with the medical-legal community.* CMCS Post Doctoral Division, New York Chiropractic Council, New York State Department of Education Board for Chiropractic, Long Island, NY, 2010

Crash Dynamics and Its Relationship to Causality, *An extensive understanding of the physics involved in the transference of energy from the bullet car to the target car. This includes G's of force, Newtons, gravity, energy, skid marks, crumple zones, spring factors, event data recorder and the graphing of the movement of the vehicle before, during and after the crash. Determining the clinical correlation of forces and bodily injury.* CMCS Post Doctoral Division, New York Chiropractic Council, New York State Education Department Board for Chiropractic, Long Island, NY, 2010

MRI, Bone Scan and X-Ray Protocols, Physiology and Indications for the Trauma Patient, *MRI interpretation, physiology, history and clinical indications, bone scan interpretation, physiology and clinical indications, x-ray clinical indications for the trauma patient.* CMCS Post Doctoral Division, New York Chiropractic Council, New York State Education Department Board for Chiropractic, Long Island, NY, 2010

Whiplash Advanced Topics: The Fundamental Science, *An in-depth review of the comprehensive biomechanics knowledge for the forensic expert. Analysis of the brain, neck, cervical spine trauma mechanisms, and soft tissue injuries. Crash dynamics and research to validate low speed rear end crashes.* Spine Research Institute of San Diego, Southern California University of Health Sciences, St. Louis, MO 2009

Management Principles in Personal Injury and Forensic Documentation, *An in-depth training on all aspects of management of trauma, from beginning to end; a comprehensive primer on crash reconstruction. This includes historical documentation in personal injury and forensic medicine applications and comprehensive physical examination of whiplash and traumatic brain injury.* Spine Research Institute of San Diego, Southern California University of Health Sciences, St. Louis, MO 2009

Principles of Impairment Rating and Forensic Reporting, *An extensive understanding of documentation, narrative report preparation, and the application of AMA guidelines in personal injury and forensic practice.* Spine Research Institute of San Diego, Southern California University of Health Sciences, St. Louis, MO 2009

Medicolegal Fundamentals for Practitioners and Forensic Experts, *Training on medical photography, depositions, arbitrations, and testifying in court.* Spine Research Institute of San Diego, Southern California University of Health Sciences, St. Louis, MO 2009

Employer Services-Module One, *Postgraduate studies in employer services including post-offer testing, reducing work injuries and lost time, and reducing fraud and abuse.* J-Tech Medical, Green Bay, WI 2009

Functional Capacity Evaluation Certification, *In-depth training in functional capacity evaluation history, clinical reasoning, procedures, report writing and interpretation,* Back School of Atlanta, Aurora, IL 2009

Repetitive Stimulation Studies (RSS), Clinical Applications and Review, *In-depth training on the electrodiagnostic evaluation of the neuromuscular junction. Review of neuroanatomy and common conditions affecting the neuromuscular junction.* National University of Health Sciences, Lombard, IL 2007

Brainstem Auditory Evoked Responses (BAER), Visual Evoked Potentials (VEP), *In-depth training on Auditory and visual evoked potential testing and interpretation. Review of neuroanatomy.* National University of Health Sciences, Lombard, IL 2007

Somatosensory Evoked Potentials (SSEP)-Upper and Lower Extremities, *In-depth training on the SSEP examination and interpretation of the upper and lower limbs and the related central sensory pathways. Review of neuroanatomy.* National University of Health Sciences, Lombard, IL 2007

EMG/NCV Data Interpretation and Report Documentation, *In-depth training on correlating data from all NCV, F wave, H reflex, and EMG studies to arrive at a diagnosis/impression. Identifying technical errors and distinguishing them from pathology.* National University of Health Sciences, Lombard, IL 2007

EMG, NCV, Late Responses, *In-depth training on recording needle electrodes, differential amplifiers, recording characteristics (gain, time base or sweep speed, filter settings, etc.) and patient safety issues. Additional training provided on EMG/NCV interpretation and report writing.* National University of Health Sciences, Lombard, IL 2007

Needle EMG Waveforms-Normal and Abnormal, *In-depth training focusing on correlating insertional activity, spontaneous potentials, motor unit potentials and interference patterns to diagnose nerve and muscle diseases. Additional training on*

differentiating between lesions located in the root versus plexus versus the peripheral nerve. National University of Health Sciences, Lombard, IL 2007

Needle EMG, NCV-Lower Extremity II, *In-depth training on lumbar EMG, insertional activity, spontaneous potentials, motor unit potentials, and interference patterns. Studies related to the pathophysiology, clinical presentations and examination findings of patients with lower extremity peripheral nerve entrapments.* National University of Health Sciences, Lombard, IL 2007

Needle EMG, NCV-Lower Extremity I, *In-depth training and review of lower extremity anatomy and physiology, placement of electrodes, and EMG studies.* National University of Health Sciences, Lombard, IL 2007

Needle EMG, NCV-Upper Extremity II, *In-depth training on cervical EMG, insertional activity, spontaneous potentials, motor unit potentials, and interference patterns. Review basic electrodiagnostic equipment and settings in addition to studying the pathophysiology, clinical presentations and examination findings of patients with upper extremity peripheral nerve entrapments.* National University of Health Sciences, Lombard, IL 2007

Needle EMG, NCV-Upper Extremity I, *In-depth training and review of upper extremity anatomy and physiology, placement of electrodes, and EMG studies.* National University of Health Sciences, Lombard, IL 2007

Introduction to electromyography (EMG) and nerve conduction velocity (NCV), *Overview of upper and lower extremity anatomy, the brachial and lumbar plexus, and needle insertion sites for EMG.* National University of Health Sciences, Lombard, IL 2007

Spinal and Extremity Rehabilitation and Stabilization, *Postgraduate studies in spinal and extremity physical therapy, functional training and stabilization.* National University of Health Sciences, Lombard, IL 2004

Advanced Othopaedics of the Foot/Ankle and Knee, *Postgraduate studies in advanced musculoskeletal training of the foot, ankle, knee, gait, and mechanically related orthopaedic conditions.* National University of Health Sciences, Lombard, IL 2003

Lumbar Stabilization and Physical Therapy, *Postgraduate studies in lumbar spinal stabilization and abdominal bracing.* International Academy of Orthopedic Medicine-US, Springfield, IL 2002

Certified Functional Capacity Evaluator (CFCE) 2009

American Chiropractic Rehabilitation Board –ACRB-Level 1 certificate, 2004

Board Certified Physiotherapist, 2003

Certified Golf Fitness Instructor (C.G.F.I.), 2002

SELECTED TEACHING/INSTRUCTING/LECTURING/CONSULTING

Consultant, On-site Work Site Analysis and Ergonomics Evaluation, Investor Tools, Yorkville, IL 2011

Lecturer, *Ergonomics, Injury Prevention and On-Site Job Analysis*, Public Works Department (Utility Division), Village of Sugar Grove, IL, 2007

Lecturer, *Back Safety and Injury Prevention*, Public Works Department (Streets and Property Division) Village of Sugar Grove, IL, 2007

Lecturer, *Straighten Up America—Spinal Care and Safety Class*, Traugher Middle School, Oswego, IL, 2006

Lecturer, *Ergonomics, Injury Prevention and On-Site Job Analysis*, Office of the Circuit Clerk Kendall County Court House, Yorkville, IL, 2005

Lecturer, *Golf Dynamics, Swing Analysis, and Injury Prevention*, Plano Rotary Club, Plano, IL, 2005

SELECTED MEMBERSHIPS

American Medical Association, 2018-present

American Chiropractic Rehabilitation Board, 2004-present

Multidisciplinary Academy of Affiliated Medical Arts, 2003-present

American Chiropractic Association, 2002-present

Illinois Chiropractic Association, 2002-present

SELECTED COMMUNITY SERVICE

Whitetail Ridge Homeowner's Association, President, 2011-2016

Whitetail Ridge Homeowner's Association, Secretary, 2009-2011

New Life Church, Round Table Board Member, 2008-2012

New Life Church Board Member, 2016-present