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SELECTED OCCUPATIONAL HISTORY

Owner/Clinical Director, Lehigh Accident and Injury, Lehigh Acres, Florida, 2020 - Present
Owner/Clinical Director, Waukegan Medical and Rehabilitation, Waukegan, Illinois, 1996 - 2022
Owner/Clinical Director, Vernon Hills Chiropractic, Vernon Hills, Illinois, 1995 - 1997
Managing Staff Chiropractor, Meline Chiropractic Center, Mundelein, Illinois, 1995 - 1995
Treating Chiropractic Physician, Venice Chiropractic Center, Venice, Florida, 1993 - 1994

EDUCATION AND LICENSURE

Doctor of Chiropractic, Licensed in the State of Florida, License # CH13028, 2020 - Present
Doctor of Chiropractic, Licensed in the State of Illinois, License # 038.007449, 1994 - Present
Doctor of Chiropractic, Licensed in the State of Florida, License # CH6758, 1994 - 1998
Doctorate of Chiropractic, Life College of Chiropractic, Marietta, Georgia, 1992
Internship, McComb Chiropractic Center, Sarasota, Florida, 1992 - 1993
National Board of Chiropractic Examiners, Part IV, 2019
National Board of Chiropractic Examiners, Part III, 1993
National Board of Chiropractic Examiners, Physiotherapy, 1992
National Board of Chiropractic Examiners, Part II, 1992
National Board of Chiropractic Examiners, Part I, 1992
Associate Arts in Mathematics for Mech Engineering, St. Petersburg Junior College, St. Petersburg, Florida, 1980

CERTIFICATIONS, QUALIFICATIONS AND DIPLOMATES

National Decompression Certification Program: *Training for providing a nonsurgical, noninvasive, alternative approach for chronic neck and back pain patients with herniated, bulging and degenerative disc disease. Course of study included contraindications to decompression, safety parameters regarding proper diagnosis with MRI and treatment protocol standards for herniated, bulging and spinal stenosis.* Certification in National Certification in Spinal Decompression, Disc Centers of America, Fort Lauderdale, FL, November 2021

Trauma Team Member: *The member doctor has undergone rigorous training related to spine and trauma and is now formally qualified to either diagnose or manage all spine cases. The graduate has completed an extensive program in triaging the injured, MRI spine interpretation, spinal orthopedics, early detection for stroke, spinal biomechanical engineering and accident reconstruction for motor vehicle accidents. Additionally, professional relationships and collaboration with a vast array of medical surgeons and physicians as part of the team that manages spine cases, ensures excellence in patient care of the injured patient.* Academy of Chiropractic Post-Doctoral Division, Cleveland University-Kansas City, College of Chiropractic, Long Island NY, 2018

Primary Spine Care Qualified: *This qualification includes graduate chiropractic education in healthy and traumatically altered spinal morphology inclusive of osseous, connective tissue and neurological structure, function and pathology. This certifies the physician is qualified in assessing predictive models in spinal biomechanics and devising engineering paradigms for treatment plans to maximize spinal homeostasis in an evidenced based conclusion. In addition, this qualification acknowledges expertise in triaging the injured and coordinating collaborative care from the trauma through conclusion of rehabilitation,* Academy of Chiropractic Post-Doctoral Division, Cleveland University-Kansas City, College of Chiropractic, Long Island NY, 2018

Examination for Certification as Independent Medical Examiner: *Examination for becoming a Certified Independent Medical Examiner.* Certification in Certified Independent Chiropractic Examiner, American College of Independent Medical Examiners, American Board of Independent Medical Examiners, Orlando, FL, 2017

National Decompression Certification Program: *Training for providing a nonsurgical, noninvasive, alternative approach for chronic neck and back pain patients with herniated, bulging and degenerative disc disease. Course of study included contraindications to decompression, safety parameters regarding proper diagnosis with MRI and treatment protocol standards for herniated, bulging and spinal stenosis.* Certification in National Certification in Spinal Decompression, Disc Centers of America, Park University, Dallas, TX, 2014

Class IV Therapeutic Laser: *Studies of the different therapeutic benefits of Class I, II, III & IV Lasers. Proper selection along with treatment protocols and contraindications to care.* Certification in K-Laser, Baraboo, WI, 2011

Masters Certification in Performance of the AMA Permanent Medical Impairment Examination: *Training in proper use of the 4th edition AMA Guides to the Evaluation of Permanent Impairment. The course teaches objective protocol for rating patients that have reached MMI. The final Whole Person Impairment Rating is calculated using Diagnosis. Objective Diagnostic and functional abilities.* Certifications in Performing Impairment Ratings, medical Management Consultants, Orlando, FL, 1994

SELECTED POST-GRADUATE EDUCATION

Traumatic Brain Injury and Concussion Claims – How to Evaluate Them: *Discussing diagnostic criteria and detailed knowledge of various somatic, behavior and cognitive complaints which accompany traumatic brain injuries. Conduct a thorough evaluation of claims of concussion and be able to diagnose post-concussive syndrome. Interpretation of the commonly encountered neurophysiological tests. Discussion of recovery profile following concussion. Application of knowledge to clinical practice based on current scientific literature.* Accreditation Council for Continuing Medical Education (ACCME) through Joint Providership of Marshall University Joan C. Edwards School of Medicine and ACDM/ABIME, Charlotte, NC, August 2022

Musculoskeletal Physical Examination & Diagnostic Procedure for Conducting an IME: *Application of anatomical/systemic manifestations of diseases that lead to permanent impairment. Conduct records review and physical examination of the patient that has reached MMI. Interpretation of radiographic, laboratory, electro-physiologic findings along with pathophysiology that guide us in assigning impairment while validating clinical acumen.* Accreditation Council for Continuing Medical Education (ACCME) through Joint Providership of Marshall University Joan C. Edwards School of Medicine and ACDM/ABIME, Charlotte, NC, August 2022

Advanced AMA Guides to the Evaluation of Permanent Impairment 6th Ed. Case Studies (AMA6Cs): *Perform complex case evaluations of musculoskeletal disorders while evaluating multiple trauma cases. Evaluation and management of difficult impairment patients. Medical report writing for advanced comprehension of the AMA Guides.* Accreditation Council for Continuing Medical Education (ACCME) through Joint Providership of Marshall University Joan C. Edwards School of Medicine and ACDM/ABIME, Charlotte, NC, August 2022

Spinal Bio-Engineering Seminar: *Developing an optimum spine model based on anatomy and physiology. The analytics are calculated to demonstrate how a spine model can be used to determine corrective spine adjustments. Using computer assisted methods the practitioner is able to develop a coherent spinal model that describes an optimum spine, an organized spine in ideal compensation and a disorganized spine with subluxation. The model is based on the geometric analysis of over 100,000 radiographs. Clinical application demonstrates that when using the analytics, the majority of patients report improvement in 10 treatments or less.* Academy of Chiropractic Post-Doctoral Division, Cleveland University- Kansas City, Long Island, NY, 2018

Fundamental and Advanced Concepts on Spinal Biomechanics: *Describing normal segmental coupling, regional adaptation and global compensation. The normal movements of gait are integrated in this total biomechanical approach to explain pelvic compensation, predictable functional scoliosis and lumbar disc failure. These concepts are demonstrated to radiographic analyses and physical findings. Adjusting techniques demonstrated to integrate this information with the practicing*

physician's adjusting techniques. Soft tissue rehabilitation procedures to be utilized in consideration to the structural and functional analysis. Accreditation in cooperation with the Academy of Chiropractic through PACE, Chicago, IL 2018

Evidenced Based Care in a Collaborative Setting - Primary Spine Care 5: *A literature based model for collaborating with hospitals, medical primary care providers and specialists. Reviewing the documentation requirements to communicate the diagnosis, prognosis and treatment plans with medical entities and having the evidence as a basis for those recommendations.* Academy of Chiropractic Post-Doctoral Division, Cleveland University- Kansas City, Long Island, NY, 2018

Current Literature Standards of MRI Spine Interpretation - Primary Spine Care 5: MRI Spine Interpretation of the spine. *How to triage a trauma and non-trauma with advanced imaging and document the necessity. We will also cover the basics of MRI Spine Interpretation inclusive of all types of herniations, bulges,* Academy of Chiropractic Post-Doctoral Division. Academy of Chiropractic Post-Doctoral Division, Cleveland University- Kansas City, Long Island, NY, 2018

Spine Brain Connection in Pain Pathways - Primary Spine Care 5; MRI Spine: *The spine-brain connection in managing chronic pain patients. Understanding how chronic pain negatively effects brain morphology and potential pathology as sequella. The role of chiropractic in preventing the loss of gray matter and the most recent evidence as outlined in indexed peer reviewed literature over the last 10 years verifying chiropractic's role.* Academy of Chiropractic Post-Doctoral Division, Cleveland University- Kansas City, Long Island, NY, 2018

Bio-Neuro-Mechanical Mechanism of the Chiropractic Spinal Adjustment - Primary Spine Care 5: *The biological, neurological and mechanical mechanisms and pathways from the thrust to the dorsal horn and brain connection and how the brain processes the chiropractic spinal adjustment based upon the literature. Care paths of chiropractic and physical therapy from an outcome basis,* Academy of Chiropractic Post-Doctoral Division. Academy of Chiropractic Post-Doctoral Division, Cleveland University- Kansas City, Long Island, NY, 2018

Documenting Trauma and Non-Trauma Cases & Triageing Disc Pathology: *Triage, care and collaboration for herniated, bulged, protruded, extruded and fragmented spinal discs. Compliant documentation of evaluation and management of new and established patients inclusive of chief complaint, history of present illness, review of systems, past-family-social histories with case management protocols and the required elements. Clinically coordinating treatment with subjective complaints, clinical findings and diagnosis for each encounter.* Cleveland University-Kansas City Chiropractic and Health Sciences, Academy of Chiropractic Post-Doctoral Division, Long Island, NY, 2018

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.* Cleveland University – Kansas City, Academy of Chiropractic Post-Doctoral Division, Long Island, NY, 2018

Diagnostics, Risk Factors, Clinical Presentation and Triaging the Trauma Patient: *An extensive understanding of the injured with clinically coordinating the history, physical findings and when to integrate neurodiagnostics. An understanding on how to utilize emergency room records in creating an accurate diagnosis and the significance of “risk factors” in spinal injury.* Cleveland University – Kansas City, Academy of Chiropractic Post-Doctoral Division, Long Island, NY, 2018

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.* Cleveland University – Kansas City, Academy of Chiropractic Post-Doctoral Division, Long Island, NY, 2018

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.* Cleveland University – Kansas City, Academy of Chiropractic Post-Doctoral Division, Long Island, NY, 2018

Neurodiagnostic Testing Protocols, Physiology and Indications for the Trauma Patient: *Electromyography (EMG), Nerve Conduction Velocity (NCV), Somato Sensory Evoked Potential (SSEP), Visual Evoked Potential (VEP), Brain Stem Auditory Evoked Potential (BAER) and Visual-Electronystagmosgraphy (V-ENG) interpretation, protocols and clinical indications for the trauma patient.* Cleveland University – Kansas City, Academy of Chiropractic Post-Doctoral Division, Long Island, NY, 2018

Documentation and Reporting for the Trauma Victim: *Understanding the necessity for accurate documentation and diagnosis utilizing the ICD-9 and the CPT to accurately describe the injury through diagnosis. Understanding and utilizing state regulations on reimbursement issues pertaining to healthcare.* Cleveland University – Kansas City, Academy of Chiropractic Post-Doctoral Division, Long Island, NY, 2018

Documenting Clinically Correlated Bodily Injury to Causality: *Understanding the necessity for accurate documentation, diagnosis and clinical correlation to the injury when reporting injuries in the medical-legal community. Documenting the kinesiopathology, myopathology, neuropathology, and pathophysiology in both a functional and structural paradigm.* Cleveland University – Kansas City, Academy of Chiropractic Post-Doctoral Division, Long Island, 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.* Cleveland University – Kansas City, 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.* Cleveland University – Kansas City, 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.* Cleveland University – Kansas City, 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.* Cleveland University – Kansas City, 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.* Cleveland University – Kansas City, 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.* Cleveland University – Kansas City, 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.* Cleveland University – Kansas City, 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 sequelae to trauma in relation to ligamentous failure and disc and vertebral pathology as sequelae. 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.* Cleveland University – Kansas City, 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

Accident Reconstruction - Terms, Concepts and Definitions: *The forces in physics that prevail in accidents to cause bodily injury. Quantifying the force coefficients of vehicle mass and force vectors that can be translated to the occupant and subsequently cause serious injury.* Cleveland University – Kansas City, Academy of Chiropractic Post-Doctoral Division, Long Island, NY, 2018

Accident Reconstruction - Causality, Bodily Injury, Negative Acceleration Forces, Crumple Zones and Critical Documentation: *Factors that cause negative acceleration to zero and the subsequent forces created for the vehicle that get translated to the occupant. Understanding critical documentation of hospitals, ambulance reports, doctors and the legal profession in reconstructing an accident.* Cleveland University – Kansas City, Academy of Chiropractic Post-Doctoral Division, Long Island, NY, 2018

Accident Reconstruction - Skid Marks, Time, Distance, Velocity, Speed Formulas and Road Surfaces: *The mathematical calculations necessary utilizing time, distance, speed, coefficients of friction and acceleration in reconstructing an accident. The application of the critical documentation acquired from an accident site.* Cleveland University – Kansas City, Academy of Chiropractic Post-Doctoral Division, Long Island, NY, 2018

Accident Reconstruction - Research, Causality and Bodily Injury: *Delta V issues correlated to injury and mortality, side impact crashes and severity of injuries, event data recorder reports correlated to injury, frontal impact kinematics, crash injury metrics with many variables and inquiries related to head restraints.* Cleveland University – Kansas City, Academy of Chiropractic Post-Doctoral Division, Long Island, NY, 2018

Medical-Legal-Insurance Documentation: *Accurate and compliant documentation of history and clinical findings inclusive of functional losses, loss of activities of daily living, duties under duress and permanent loss of enjoyment of life. Prognosing static vs. stable care, gaps in care both in the onset and in the middle of passive care with a focus on detailed diagnosing. The integration of chiropractic academia, the court system and the insurance reimbursor's requirements for complete documentation.* Cleveland University – Kansas City, Academy of Chiropractic Post-Doctoral Division, Long Island, NY, 2018

Utilization of Research in the Clinical Setting: *Utilizing peer reviewed scientific literature in creating a diagnosis, prognosis and treatment plan for the chronic and acute patient. How to implement and stay current on techniques and technology in healthcare.* Cleveland University – Kansas City, Academy of Chiropractic Post-Doctoral Division, Long Island, NY, 2018

Interprofessional Hospital Based Spine Care: *Trends in hospital and emergent care in the healthcare delivery system inclusive of policies, hospital staffing and current care paths for mechanical spine issues.* Cleveland University – Kansas City, Academy of Chiropractic Post-Doctoral Division, Long Island, NY, 2018

Primary Spine Care - Credentials and Knowledge Base: *The credentials and knowledge based from an academia perspective when cooperatively treating in a collaborative environment inclusive of understanding pathology and mechanical spine issues.* Cleveland University – Kansas City, Academy of Chiropractic Post-Doctoral Division, Long Island, NY, 2018

Primary Spine Care - Spinal Biomechanical Engineering and MRI Spine Interpretation: *Integrating Spinal Biomechanical Engineering and MRI Spine Interpretation into a primary spine care model, inclusive of necessity and acquisition protocols. A comprehensive review the latest evidence in documenting mechanical issues.* Cleveland University – Kansas City, Academy of Chiropractic Post-Doctoral Division, Long Island, NY, 2018

Primary Spine Care - Hospital Administration, Triage, Clinical Requirements and Collaborative Relationships with Medical Specialists: *Understanding hospital and medical specialist's care paths for mechanical spine pathology and integrating the doctor of chiropractic in the hospital and allopathic treatment protocols.* Cleveland University – Kansas City, Long Island, NY, 2018

Primary Spine Care - Contemporary Spine Research and Documentation: *Central nervous system connection and the thalamus, hypothalamus connection in both ascending and descending central pathways with neuro-endocrine implications that have the mechanisms to be a component of Schizophrenia, Dementia and Alzheimer's with a linear relationship to the chiropractic spinal adjustment and chronic pain.* Cleveland University – Kansas City, Academy of Chiropractic Post-Doctoral Division, Long Island, NY, 2018

Primary Spine Care 2 - Spinal Trauma Pathology: *Morphology of healthy and traumatized connective tissue and the permanency implication of adhesions, spinal disc morphology in the healthy and pathological patient as sequella to trauma in relationship to bulges, herniations, protrusions, extrusions and sequestrations. Aberrant spinal biomechanics and negative sequella to trauma.* Cleveland University – Kansas City, Academy of Chiropractic, Setauket NY, 2018

Primary Spine Care 2 - Utilizing Research in Trauma: *The ability of your electronic health records to convey tissue pathology while documenting case studies, field experiments, randomized trials and systematic literature reviews, Introducing evidence based macros in documentation to support the literature and necessity of care.* Cleveland University – Kansas City, Academy of Chiropractic, Setauket NY, 2018

Primary Spine Care 2 - Chiropractic Evidence: *Analyzing segmental pathology, adjusting vs. mobilization with cervicogenic headaches, Opioid alternatives and case management of mechanical*

spine pain based upon outcome studies. Cleveland University – Kansas City, Academy of Chiropractic, Setauket NY, 2018

Primary Spine Care 2 - Chiropractic Spinal Adjustment Central Nervous System Processing: *Literature reviews of mechanoreceptor, proprioceptor and nociceptor stimulation of later horn gray matter with periaqueductal stimulation affecting the thalamus and cortical regions with efferent distribution in disparate regions of the body in both pain and systemic stimulation.* Cleveland University – Kansas City, Academy of Chiropractic, Setauket NY, 2018

Connective Tissue Spinal Disc Permanent Pathology, Primary Spine Care: *Herniated, bulged, protruded and extruded discs, etiology and morphology. Age-dating disc pathology inclusive of Modic changes, piezoelectric effect, Wolff's Law and radicular clinical presentation.* Academy of Chiropractic Post-Doctoral Division, Cleveland University – Kansas City, Long Island, NY 2018

Connective Tissue Pathology and Research, Primary Spine Care: *Utilization in spinal models considering the opioid abuse and various spinal models in contemporary health care. Care paths for mechanical spine pain and the evidence for conservative chiropractic care.* Academy of Chiropractic Post-Doctoral Division, Cleveland University – Kansas City, Long Island, NY 2018

Bio-Neuro-Mechanical Lesions and Spine Care, Primary Spine Care: *Mechanoreceptor, proprioceptor, nociceptor innervation and control of the spinal system with central nervous system action and interaction. The integration of the pain processing network and the HPA Axis (hypothalamus, adrenal and pituitary) with the chiropractic spinal adjustment.* Academy of Chiropractic Post-Doctoral Division, Cleveland University – Kansas City, Long Island, NY 2018

Ethics, Documentation and Research - Primary Spine Care: *Maintaining ethical Interprofessional relationships based upon an evidenced based practice inclusive of triage, diagnostics and reporting. Creating thorough documentation that reflects your complete findings encompassing descriptive ICD-10 codes and concludes the presence or absence of pathology.* Academy of Chiropractic Post-Doctoral Division, Cleveland University – Kansas City, Long Island, NY 2018

Connective Tissue Pathology, Spinal Biomechanics as Sequella to Trauma, MRI Spine Interpretation, Ordering Protocols & Triaging the Injure: *The latest research on the 6 ways to age-date disc herniations and bulges from trauma inclusive of disc pathology nomenclature. MRI ordering protocols, inclusive of Dixon format and fat-suppressed images. The neurology and pathology of connective tissue and the sequella of trauma at the biomechanical level leading to bio-neuro-mechanical failure. Contemporary u201cevidenced-based building blocksu201d for triaging*

and in a collaborative environment. Cleveland University Kansas City, Chiropractic and Health Sciences, Academy of Chiropractic Post-Doctoral Division, Long Island NY, 2018

Spinal Biomechanical Engineering Digitizing: *Integrating automated mensuration into creating treatment plans and determining maximum medical improvement. A literature-based study of normal vs. abnormal motor until function. Determining ligamentous laxity, alteration of motion segment integrity and pathological stress units and whole person impairments based upon the literature and academic standards,* Cleveland University Kansas City, Chiropractic and Health Sciences, Academy of Chiropractic Post-Doctoral Division, Long Island NY, 2018

Science of the Chiropractic Spinal Adjustment and Vertebral Subluxation: *The literature-based definitions of both the mechanisms the chiropractic adjustment and how it affects the central nervous system in pain pathways and systemic issues that is the arbiter for normal vs. abnormal function. The physiological mechanisms of how the chiropractic spinal adjustment affects the peripheral and central nervous systems. Subluxation degeneration/Wolff's Law will be detailed from a literature perspective combined with the mechanism of subluxation (bio-neuro-mechanical lesion). A literature perspective why long-term chiropractic care is clinically indicated as usual and customary to effectuate demonstrable biomechanical changes in the spine. An evidenced-based perspective of why physical therapy is a poor choice for spine as a 1st referral option for any provider inclusive of the literature.* Cleveland University Kansas City, Chiropractic and Health Sciences, Academy of Chiropractic Post-Doctoral Division, Long Island NY, 2018

Documentation, Collaboration, and Primary Spine Care: *An academic basis for documentation that is usual and customary across professions in collaborative care. Maintaining ethical medical-legal relationships based upon Voir Dire and Duabert standards with ensuring a 4 corners inclusive report. Ensuring Primary Care Status based upon an academic standards.* Cleveland University Kansas City, Chiropractic and Health Sciences, Academy of Chiropractic Post-Doctoral Division, Long Island NY, 2018

Medical-Legal Ethical Relationships, Documentation and Legal Testimony: *Report writing for legal cases, the 4 corners of a narrative and documenting damages with understanding defense medical documentation and consistent reporting of bodily injuries.* Academy of Chiropractic, Post-Doctoral Division, Cleveland University-Kansas City, College of Chiropractic, Long Island, NY, 2018

Medical-Legal Ethical Relationships, Documentation and Legal Testimony - Part 2: *Understanding report writing and the types of medical reports required for court inclusive of diagnosis, prognosis and treatment plans with requirements of reporting causality and permanency.* Academy of Chiropractic, Post-Doctoral Division, Cleveland University-Kansas City, College of Chiropractic, Long Island, NY, 2018

Medical-Legal Ethical Relationships, Documentation and Direct Testimony: *Organizing your documentation and understanding all collaborative documentation and how it fits into your diagnosis, prognosis and treatment plan, Understanding the nuances of the functional losses of your patients related to their bodily injuries*, Academy of Chiropractic, Post-Doctoral Division. Academy of Chiropractic, Post-Doctoral Division, Cleveland University-Kansas City, College of Chiropractic, Long Island, NY, 2018

Medical-Legal Ethical Relationships, Documentation and Direct Testimony - Part 2: *Utilizing demonstrative documentation in direct examination and communicating the results of your care concurrently with the written documentation and reporting an accurate diagnosis for all images*. Academy of Chiropractic, Post-Doctoral Division, Cleveland University-Kansas City, College of Chiropractic, Long Island, NY, 2018

Medical-Legal Ethical Relationships, Documentation and Direct Testimony - Part 3: *The evaluation, interpretation and reporting of collaborative medical specialists' results and concluding an accurate diagnosis inclusive of all findings and reviewing all images to ensure an accurate diagnosis*. Academy of Chiropractic, Post-Doctoral Division, Cleveland University-Kansas City, College of Chiropractic, Long Island, NY, 2018

Medical-Legal Ethical Relationships, Documentation and Direct Testimony - Part 4: *Determining and documenting disabilities and impairments inclusive of loss of enjoyment of life and duties under duress and the evaluation and validation of pain and suffering*. Academy of Chiropractic, Post-Doctoral Division, Cleveland University-Kansas City, College of Chiropractic, Long Island, NY, 2018

Medical-Legal Ethical Relationships, Documentation and Cross Examination Testimony: *Reporting your documentation factually and staying within the 4 corners of your medical report and scope of practice inclusive of understanding how your credentials allow you to report your documentation*. Academy of Chiropractic, Post-Doctoral Division, Cleveland University-Kansas City, College of Chiropractic, Long Island, NY, 2018

Medical-Legal Ethical Relationships - A Documentation Relationship Between the Doctor and Lawyer: *The level of organization required in a medical-legal case that accurately reflects the bodily injuries of your patients and the time constraints in rendering an accurate report*. Academy of Chiropractic, Post-Doctoral Division, Cleveland University-Kansas City, College of Chiropractic, Long Island, NY, 2018

Medical-Legal Ethical Relationships, Report Writing and Preparing for a Legal Case: *Reviewing the facts of the case inclusive of your documentation, the defense medical examiner, medical specialists and the attorney to ensure accurate and consistent reporting.* Academy of Chiropractic, Post-Doctoral Division, Cleveland University-Kansas City, College of Chiropractic, Long Island, NY, 2018

Medical-Legal Ethical Relationships, Report Writing and Preparing for a Legal Case: *Creating demonstrative evidence, visuals of your patient's bodily injuries inclusive of x-rays, MRI's, CAT Scans and electrodiagnostic findings, the spinal biomechanics of herniated disc with ipsilateral findings and contralateral symptomatology.* Academy of Chiropractic, Post-Doctoral Division, Cleveland University-Kansas City, College of Chiropractic, Long Island, 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.* Cleveland University – Kansas City, 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, New York, 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.* Cleveland University – Kansas City, 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, New York, 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 grey matter, thalamus and cortices involvement.* Cleveland University – Kansas City, 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, New York, 2018

Spinal Trauma Pathology, Biomechanics of Traumatic Disc Bulge and Age Dating Herniated Disc Pathology: *The biomechanics of traumatic disc bulges as sequelae from trauma and the comorbidity of ligamentous pathology. Age-dating spinal disc pathology in accordance with Wolff's Law.* Cleveland University – Kansas City, 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, New York, 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.* Cleveland University – Kansas City, 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, New York, 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.* Cleveland University – Kansas City, 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, New York, 2018

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.* Cleveland University – Kansas City, 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.* Cleveland University – Kansas City, 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.* Cleveland University – Kansas City, 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.* Cleveland University – Kansas City, 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.* Cleveland University – Kansas City, 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.* Cleveland University – Kansas City, 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.* Cleveland University – Kansas City, 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.* Cleveland University – Kansas City, 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 vertebrate, Schmorl's nodes and herniations. Central canal and cauda equina compromise interpretation with management.* Cleveland University – Kansas City, 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. Cleveland University – Kansas City, 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. Cleveland University – Kansas City, 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. Cleveland University – Kansas City, 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. Cleveland University – Kansas City, 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

Orthopedic Testing - Principles, Clinical Application and Triage: Integration of orthopedic testing in the clinical setting to develop a differential diagnosis. Utilizing radiographic and advanced imaging inclusive of MRI and CAT scan findings to verify tissue pathology suspected by orthopedic testing conclusions and developing a treatment plan as sequelae. Cleveland University – Kansas City, 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

Orthopedic Testing - Cervical Spine: *Integration of cervical orthopedic testing in the clinical setting to develop a differential diagnosis. Utilizing radiographic and advanced imaging inclusive of MRI and CAT scan findings to verify tissue pathology suspected by orthopedic testing conclusions and developing a treatment plan as sequelae.* Cleveland University – Kansas City, 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

Orthopedic Testing - Lumbar Spine: *Integration of lumbar orthopedic testing in the clinical setting to develop a differential diagnosis. Utilizing radiographic and advanced imaging inclusive of MRI and CAT scan findings to verify tissue pathology suspected by orthopedic testing conclusions and developing a treatment plan as sequelae.* Cleveland University – Kansas City, 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

Orthopedic Testing - Clinical Grand Rounds: *How to integrate orthopedic testing in the clinical setting utilizing both simple and complex patient scenarios. It includes potential stroke, or vertebrobasilar insufficient patients and understanding the nuances in a clinical evaluation with orthopedic testing as a critical part of the evaluation and screening process. How to integrate orthopedic testing in the clinical setting utilizing both simple and complex patient scenarios. It includes potential stroke, or vertebrobasilar insufficient patients and understanding the nuances in a clinical evaluation with orthopedic testing as a critical part of the evaluation and screening process.* Cleveland University – Kansas City, 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

Triaging the Trauma and Non-Trauma Patients: *Correlating clinical findings and the patient history in determining the correct course of care in triaging the patient utilizing orthopedic and neurological evaluations in the clinical setting. Understanding the parameters for immediate referrals vs. following the continuum of care to determine the necessity for referrals.* Cleveland University – Kansas City, Long Island, NY, 2018

Mild Traumatic Brain Injury/Traumatic Brain Injury/Concussion: *Differentially diagnosing mild traumatic brain injury vs. traumatic brain injury and the clinical and imaging protocols required to conclude an accurate diagnosis for head trauma.* Cleveland University – Kansas City, Academy of Chiropractic Post-Doctoral Division, Long Island, NY, 2018

Stroke Anatomy and Physiology - Brain Vascular Anatomy: *The anatomy and physiology of the brain and how blood perfusion effects brain function. A detailed analysis of the blood supply to the brain and the physiology of ischemia.* Cleveland University – Kansas City, 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

Stroke Anatomy and Physiology - Stroke Types and Blood Flow: *Various types of stroke identifying ischemia, hypoperfusion, infarct and penumbra zones and emboli. Cardiac etiologies and clinical features as precursor to stroke with associated paradoxical emboli and thrombotic etiologies. Historical and co-morbidities that have etiology instroke inclusive of diabetes, coagulopathy, acquired and hereditary deficiencies.* Cleveland University – Kansas City, 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

Stroke Principles of Treatment - An Overview for the Primary Care Provider: *Stroke type and treatments performed by vascular specialists. The goals of treatment with the physiology of the infarct and penumbra zones and the role of immediate triage in the primary care setting. Detailing the complications of stroke and future care in the chiropractic, primary care or manual medicine clinical setting.* Cleveland University – Kansas City, 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

Clinical Evaluation and Protocols for Identifying Stroke Risk: *The neurological history and examination for identifying stroke risks with a focus on supra and infratentorial regions, upper and lower motor lesions, cranial nerve signs, spinal cord pathology, motor and sensory pathology and gait abnormalities. Examining genetic and family histories along with dissection risk factors. Stroke orthopedic testing and clinical guidelines pertaining to triage for the primary care provider.* Cleveland University – Kansas City, 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

Neurology of Ligament Pathology - Normal Morphology and Tissue Damage: *Connective tissue morphology, embryology and wound repair as sequelae to trauma. Full components of strain-sprain models and permanency implications with wound repair and osseous aberration with aberrant structural integrity.* Academy of Chiropractic, Post-Doctoral Division, Cleveland University-Kansas City, College of Chiropractic, Long Island, NY, 2018

Neurology of Ligament Pathology - Spinal Biomechanics and Disc Pathology: *Disc pathology as sequella to trauma; herniation, extrusion, protrusion, sequestration and how the spinal unit as one system creates homeostasis to balance the pathology.* Academy of Chiropractic, Post-Doctoral Division, Cleveland University-Kansas City, College of Chiropractic, Long Island, NY, 2018

Neurology of Ligament Pathology - Neurological Innervation: *The peripheral and central innervation of the disc and spinal ligaments of the dorsal root ganglion, spinal thalamic tracts, periaqueductal gray areas innervating the Thalamus and multiple regions of the brain. The efferent neurological distribution to disparate areas of the spine to create homeostasis until tetanus ensues creating osseous changes under the effect of Wolff's Law.* Academy of Chiropractic, Post-Doctoral Division, Cleveland University-Kansas City, College of Chiropractic, Long Island, NY, 2018

AMA Guides to the Evaluation of Permanent Impairment, 6th Edition with Review of Principles of Disability Assessment: *Utilizing the most current 6th edition of the AMA guides, physicians are trained in using objective protocol for accurate rating of the patient that has reached MMI. Utilizing functional abilities, objective test findings including MRI and EMG along with assessing extremity changes due to injury or amputation, the physician is able to provide an accurate disability rating assessment of the patient.* Certification in Certified Independent Chiropractic Examiner, American College of Independent Medical Examiners & American Board of Independent Medical Examiners, Marshall University Joan C. Edwards School of Medicine and American Board of Independent Medical Examiners, Orlando, FL, 2017

Nerve Conduction's and Needle EMG Training Course and Workshop: *Hands-on practical training for proper understanding, clinical understanding, and use of EMG and NCV testing equipment.* College of Staten Island City University of New York, Orlando, FL 2016

ICD-10 Implementation and Training: *Understanding the changes in the International Classification of Diseases, version 10, as to post to version 9. The new guide offers a more exciting and comprehensive approach towards accurate diagnoses.* Illinois Chiropractic Society, Moline, IL, 2014

Mastering the Rotator Cuff: *Hands-on workshop for evaluation and management of the acute versus chronic rotator cuff injury.* Illinois Chiropractic Society, Naperville, IL, 2014

Practice Ethics for the Clinician: *Understanding the ethics and legal responsibilities involved with patient care. Focusing on appropriate assessment and need for proper referral to other providers when necessary.* Illinois Chiropractic Society, Chicago, IL, 2014

Clinical Risk Management, X-Ray, Chiropractic Assessment, Exercise & Rehabilitation: *Review of proper imaging and x-ray protocol including MRI/CT. Contraindications to care of the injured. Patient with emphasis on exercise and rehabilitation techniques.* Cleveland Chiropractic College, Lombard, IL, 2011

Physical Therapy, Orthopedics, Pain, Risk Assessment & Addictions: *Review of appropriate assessment and treatment of the orthopedic patient. Attention to rehabilitative techniques with special attention to minimizing opioid and other prescription medication.* University of Bridgeport College of Chiropractic, Mokena, IL, 2011

Clinical Considerations of the Shoulder: *Study in proper assessment and examination, diagnosis, imaging technique options and treatment protocol for acute versus chronic injuries to the shoulder.* Illinois Chiropractic Society, Mokena, IL, 2011

Clinical Considerations of the Lower Extremity: *Biomechanical assessment of injuries and complications to the lower extremity with attention to diagnostic options and treatment protocol.* Illinois Chiropractic Society, Mokena, IL, 2011

Techniques for Neurophysiological & Biomechanical Assessments: *Understanding the options in testing and treatment for neurophysiology and biomechanical conditions. Special consideration for the differences from athletic to geriatric patient.* Parker University, Normal, IL, 2011

Radiographic Positioning Techniques: *Advanced clinical assessment and diagnosis utilizing various radiographic/imaging methods for the injured joint.* Parker University, Normal, IL, 2011

Realities of Spine Care: *Reviewing the newest surgical options for spinal fusion and microdiscectomy.* Illinois Chiropractic Society, Wheeling, IL, 2010

Graston Technique Module II Advanced - Upper/Lower Quadrant Training, Rehabilitation Application: *Mechanism of injury, proper diagnosis and rehabilitation for the upper and lower extremity utilizing manual therapy tools and equipment.* Certification in Level II Graston Practitioner, National University of Health Sciences, Lombard, IL, 2007

Weight-Bearing MRI: *Comparative analysis of non-weight-bearing versus weight-bearing MRI Studies. Dynamic changes noticed in previously determine normal studies demonstrated bulging and herniation when patient was placed in a loadbearing position prior to imaging.* Illinois Chiropractic Society, Deerfield, IL, 2006

Postsurgical Case Management I & II: *Protocol for management and rehabilitation of the post-surgical shoulder*. Illinois Chiropractic Society, Springfield, IL, 2006

Pediatric Treatment - Today's Reality: *Review of proper diagnosis and treatment of the pediatric patient in the Chiropractic office*. Illinois Chiropractic Society, Springfield, IL, 2006

Shoulder MRI Evaluation & Treatment: *Review of proper examination and orthopedic testing for accurate diagnosis and treatment. Diagnosis parameters with diagnostic evaluation including MRI and Arthrogram*. Illinois Chiropractic Society, Springfield, IL, 2006

Diagnostic Magnetic Resonance Imaging for Shoulder Complications: *Discussion of High-Field versus Low-Field imaging equipment including techniques and contrast & non-contrast studies*. Illinois Chiropractic Society, Deerfield, IL, 2006

Evaluation and Treatment of Sports and Soft Tissue Injuries: *Hands-on course for assessment, examination and diagnosis of the athletic and soft tissue injury with effective treatment options. Utilizing manual therapy techniques including proper selection of Graston therapy tools for treatment protocols, the course outlined effective management of the athletic injury and quick return to play treatment protocol*. National University of Health Sciences, Lombard, IL, 2006

Modern Spine Care: *Neurosurgical approach and techniques for treating various forms of herniated disc, degenerative joint disease and previous failed back surgeries. The course outlined options for minimally invasive procedures when appropriate, along with in-depth analysis of the outcome assessment for total fusion versus microdiscectomy when appropriate*. The American Center for Spine & Neurosurgery, Illinois Chiropractic Society, Libertyville, IL, 2005

Work Hardening/Work Conditioning Protocol Integration for the Injured Worker: *Training for workplace assessment, work stimulation, work station design and modification. Functional performance training of the injured worker to maximize safe return to work readiness*. Roy Matheson & Associates, Duluth, MN, 2005

Staying in Compliance with New Medicare Edits: *Understanding and proper change/modifications to Medicare position on proper codes used for reimbursement*. Multidisciplinary Academy of Affiliated Medical Arts, Chicago, IL, 2005

Medicare Education Seminar for the Chiropractic Office: *Understanding the Federal Medicare system as it pertains to the Chiropractic office setting for Par and Non-Par providers.* Multidisciplinary Academy of Affiliated Medical Arts, Chicago, IL, 2005

Medicare Compliance for Chiropractors: *Understanding rules of the Federal Health Care System for Medicare Part B in the Chiropractic office setting.* Illinois Chiropractic Society, Naperville, IL, 2005

Chiropractic Care for WPS – Medicare Part B Provider Education and Outreach: *Intricacies of Governmental Health Care Medicare B allowances for treatment with various medial conditions. Treatment parameters and exclusions with Par and Non-Par providers.* Illinois Chiropractic Society, Naperville, IL, 2005

The Functional Capacity Evaluation Certification Program: *Training program utilizing DOT job descriptions and return to work guidelines for analysis, testing and reproduction of work activities. The functional capacity evaluation determines presence or loss of function. Physical capacity limitations if any, along with the patient's qualification to return to normal or modified work duties, are objectively assessed. The FCE process ensures safe, reliable, valid, practical and useful information for constant and dependable rating across evaluators, settings and time.* Roy Matheson & Associates, Duluth, MN, 2004

Whiplash Injury - Review and Study: *Examining the mechanism of injury for occupants involved in motor vehicle accidents. Differential diagnosis parameters involving various forms of collisions, including rollover accidents, rear, front, and side impact collisions.* The Spine Research Institute of San Diego, Los Angeles College of Chiropractic, Chicago, IL, 2000

Whiplash Injury - Diagnosis and Treatment: *Differential assessment for understanding the mechanisms of various directional force injuries to the spine and extremities. Assessment and treatment of the acute injured patient with various short-term and long-term treatment protocols.* The Spine Research Institute of San Diego, Los Angeles College of Chiropractic, Chicago, IL, 2000

Whiplash Injury - Accident Reconstruction and Analysis: *Accident Reconstruction utilizing computer analysis, including accelerometers, G force measure and high-speed cameras to visually and mathematically analyze vectors of force sustained in crash injuries. Human volunteer participants were utilizing to create accurate reconstruction of accident sent to accumulate data for analysis.* The Spine Research Institute of San Diego, San Diego, CA, 2000

Diagnosis, Treatment and Rehabilitation of CTS and Cumulative Trauma Disorders: *Hands on course studying Bio-mechanics and mechanisms of injuries in Carpal Tunnel Syndrome and other cumulative trauma cases. Diagnostic imaging, physical examination, treatment options/methods were learned with evaluating outcome assessment post treatment. Proficiency in Examination, Diagnostic Treatment & Rehabilitation of CTS and Cumulative trauma disorders.* National College of Chiropractic, Lombard, IL, 1992

Physiological Therapeutics Diagnosis & Application: *120-hour Post Graduate course for diagnosing need, the important contraindications, and appropriate application of therapeutic modalities and manual therapy options.* National College of Chiropractic, Lombard, IL, 1992

SELECTED MEMBERSHIPS

American Board of Independent Medical Examiners, Certified Independent Chiropractic Examiner, 2017 - Present

Illinois Chiropractic Society, Member, 2014 - Present

Disc Centers of America, Certified Provider, 2014 - Present

K-Laser, Provider, Member, 2012 - Present

Graston Technique Providers, Level III Provider, Member, 2006 - Present

Multi-Disciplinary Academy of Affiliated Medical Arts, Member, 2002 - Present

Florida Chiropractic Society, Member, 1994 - 1998, 2019 - Present