

## **Brian David Guetter, D.C.**

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### **SELECTED OCCUPATIONAL HISTORY**

Clinical Director and Owner, ExactaCare Chiropractic & Injury Rehab, Dixie Hwy.,  
Louisville, Kentucky, 2015 - Present

Clinical Director and Owner, ExactaCare Chiropractic & Injury Rehab, Preston Hwy.,  
Louisville, Kentucky, 2015 - Present

President, BG Health Services, Louisville, Kentucky, 2015 – Present

Clinical Director, Apex Healthcare & Rehab, Suwanee, Georgia, 2011 – 2015

### **EDUCATION AND LICENSURE**

Fellowship Candidate, Primary Spine Care, State University of New York at Buffalo, Jacobs  
School of Medicine, Office of Continuing Education, and Cleveland University-Kansas City,  
College of Chiropractic, 2021-present

Doctor of Chiropractic, licensed in the State of Kentucky, License # 5291, 2011-Present

Doctor of Chiropractic, Life University, Marietta, Georgia, 2011

Internship, Apex Healthcare & Rehab, Lawrenceville, Georgia, 2009 - 2010

National Board of Chiropractic Examiners, Part I, 2010

National Board of Chiropractic Examiners, Part II, 2010

National Board of Chiropractic Examiners, Part III, 2010

National Board of Chiropractic Examiners, Part IV, 2011

## **CERTIFICATIONS**

**MRI Interpretation Review Qualified-** Cleveland University, Kansas City, 2022-present

**Expert Witness & Documentation Qualified -** Cleveland University, Kansas City, 2022-present

**Hospital Qualified-** Cleveland University, Kansas City, 2022-present

**Trauma Qualified -** Cleveland University, Kansas City, 2017-present

## **SELECTED POST-GRADUATE EDUCATION**

**MRI Interpretation Review Qualified,** Recognized by Cleveland University-Kansas City, Chiropractic and Health Sciences with courses recognized by the ACCGME in conjunction with the State University of New York at Buffalo Jacobs School of Medicine and Biomedical Sciences. Qualification language approved by the American Chiropractic College of Radiology (ACCR) and the American Chiropractic Board of Radiology (ACBR)

**MRI Spine Clinical Grand Rounds, Interpretation sequencing of STIR, T1, T2, Axial and Sagittal acquisitions.** Landmarks, physics, and literature-based definitions of the disc and osseous pathology, Visualizing, diagnosing, and documenting cervical and lumbar anatomy vs. pathology. Academy of Chiropractic Post-Doctoral Division, Accreditation Council for Continued Medical Education in conjunction with The State University of New York at Buffalo, Jacobs School of Medicine and Biomedical Sciences, Cleveland University - Kansas City, Long Island, NY, 2022

**MRI Spine Clinical Grand Rounds,** Visualizing, diagnosing, and documenting lumbar spine sequencing, disc herniations, neural canals, cauda equina, conus medullaris, nerve sleeves, canal stenosis grading, and vertebral width vs. height in determining segmental remodeling. Diagnosing thecal sac abutment, central canal root compression, and ligamentum flava involvement. Academy of Chiropractic Post-Doctoral Division, Accreditation Council for Continued Medical Education in conjunction with The State University of New York at Buffalo, Jacobs School of Medicine and Biomedical Sciences, Cleveland University - Kansas City, Long Island, NY, 2022

**MRI Spine Clinical Grand Rounds,** Case study visualizing, diagnosing, and documenting cervical spine sequencing, disc herniations, neural canals, cauda equina, conus medullaris, and vertebral width vs. height in determining segmental remodeling. Identifying the Pons, Occipital junction, and spinal cord to identify Chiari 1 malformations. Academy of Chiropractic Post-Doctoral Division, Accreditation Council for Continued Medical Education in conjunction with The State University of New York at Buffalo, Jacobs School of Medicine and Biomedical Sciences, Cleveland University - Kansas City, Long Island, NY, 2022

**MRI Spine Clinical Grand Rounds**, Visualizing, diagnosing, and documenting lumbar spine sequencing, disc extrusion type herniations, neural canals, cauda equina, conus medullaris, spondylolisthesis, degenerative spondylolisthesis, disc degeneration, neural canal and central root compressions, central canal stenosis. Varices vs. herniations, and multiple level disc pathology with biomechanical failures. Academy of Chiropractic Post-Doctoral Division, Accreditation Council for Continued Medical Education in conjunction with The State University of New York at Buffalo, Jacobs School of Medicine and Biomedical Sciences, Cleveland University - Kansas City, Long Island, NY, 2022

**MRI Spine Clinical Grand Rounds**, Visualizing, diagnosing, and documenting cervical spine sequencing, disc extrusion type herniations, neural canals, disc degeneration, thecal sac compression, central canal stenosis, cord displacement, reversal of cervical curve, Chiari 1 malformation. Identifying spinal biomechanical failure in MRI sequencing, with visualizing ligamentous pathology as cause for failure. Differentially diagnosing recent vs. older trauma based upon edematous signal in T1, T2, and STIR images. Academy of Chiropractic Post-Doctoral Division, Accreditation Council for Continued Medical Education in conjunction with The State University of New York at Buffalo, Jacobs School of Medicine and Biomedical Sciences, Cleveland University - Kansas City, Long Island, NY, 2022

**MRI Spine Clinical Grand Rounds**, Visualizing, diagnosing, and documenting cervical spine sequencing, multiple disc extrusion type herniations, vertebral remodeling, intradural tumor displacing the spinal cord visualized in T1, T2, and STIR sequences, neural canal stenosis, disc degeneration, thecal sac compression, central canal stenosis, cord displacement, reversal of cervical curve, Chiari 1 malformation, and identifying of inferior brain structures. Academy of Chiropractic Post-Doctoral Division, Accreditation Council for Continued Medical Education in conjunction with The State University of New York at Buffalo, Jacobs School of Medicine and Biomedical Sciences, Cleveland University - Kansas City, Long Island, NY, 2022

**MRI Spine Clinical Grand Rounds**, Visualizing, diagnosing, and documenting 1) improper sequence acquisitions invalidating interpretation 2) incomplete study invalidating interpretation 3) visualizing, diagnosing, and documenting lumbar spine sequencing, multiple disc extrusion type herniations, vertebral remodeling, multiple thecal sac compressions, neural canal stenosis, disc osteophyte/ridging complex, central canal stenosis, spondylolisthesis. Identifying the spleen, liver, kidneys, inferior vena cava, and psoas musculature on imaging. Academy of Chiropractic Post-Doctoral Division, Accreditation Council for Continued Medical Education in conjunction with The State University of New York at Buffalo, Jacobs School of Medicine and Biomedical Sciences, Cleveland University - Kansas City, Long Island, NY, 2022

**MRI Spine Clinical Grand Rounds**, Visualizing, diagnosing and documenting cervical spine sequencing, cervical spondylosis, pathological spinal biomechanics, reversal of lordotic curve, and vertebral width vs. height in determining segmental remodeling, central herniation, thecal sac compression of the cord, identifying tongue, epiglottis, hyoid

cartilage, pharynx, thyroid. Reviewing fat saturation sequences for osseous metastatic tumors and advanced degeneration. Academy of Chiropractic Post-Doctoral Division, Accreditation Council for Continued Medical Education in conjunction with The State University of New York at Buffalo, Jacobs School of Medicine and Biomedical Sciences, Cleveland University - Kansas City, Long Island, NY, 2022

**MRI Spine Clinical Grand Rounds**, Visualizing, diagnosing, and documenting lumbar spine sequencing, degenerative disc disease, nerve root sleeve abutment, far lateral herniations vs. bulges, normal vs. dissected inferior vena cava aneurism, epidural fat as a space occupying lesion, facet arthropathy and edema, hypertrophy of ligamentum flava, and pseudo disc at the S1-S2 level. Academy of Chiropractic Post-Doctoral Division, Accreditation Council for Continued Medical Education in conjunction with The State University of New York at Buffalo, Jacobs School of Medicine and Biomedical Sciences, Cleveland University - Kansas City, Long Island, NY, 2022

**MRI Spine Clinical Grand Rounds**, Visualizing, diagnosing, and documenting cervical spine sequencing utilizing T1 weighted images for pathology, inclusive of advanced degeneration and tumor detection. STIR in a fat-saturated image for ligamentous pathology inclusive of the posterior longitudinal, ligamentous flava and interspinal ligaments. Normal clivus and odontoid for cerebellar tonsil location. Cerebral spinal fluid (CSF) flow and the utilization of the spinal cord's central canal for CSF transport. Academy of Chiropractic Post-Doctoral Division, Accreditation Council for Continued Medical Education in conjunction with The State University of New York at Buffalo, Jacobs School of Medicine and Biomedical Sciences, Cleveland University - Kansas City, Long Island, NY, 2022

**Extremity MRI & X-ray Interpretation of the Shoulder**, Identifying normal anatomy on both MRI and x-ray, inclusive of osseous, connective tissue, and neurological structures. Identifying fractures in adult and pediatric cases. Differentially diagnosing various arthritic etiologies of osseous derangement. Cleveland University Kansas City, Academy of Chiropractic, Post-Doctoral Division, Long Island, NY, 2022

**Extremity MRI & X-ray Interpretation of the Shoulder**, Identifying fractures in the adult and pediatric cases. Differentially diagnosing various arthritic changes vs. benign and metastatic Tumors. Cleveland University Kansas City, Academy of Chiropractic, Post-Doctoral Division, Long Island, NY, 2022

**Extremity MRI & X-ray Interpretation of the Elbow**, Identifying normal anatomy on both MRI and x-ray, inclusive of osseous, connective tissue, and neurological structures, identifying fractures in the adult and pediatric cases. Differentially diagnosing various arthritic etiologies of osseous derangement. Differentially diagnosing various arthritic changes vs. benign and metastatic Tumors. Cleveland University Kansas City, Academy of Chiropractic, Post-Doctoral Division, Long Island, NY, 2022

**Extremity MRI & X-ray Interpretation of the Wrist**, Identifying normal anatomy on both MRI and x-ray, inclusive of osseous, connective tissue, and neurological structures,

identifying fractures in the adult and pediatric cases. Differentially diagnosing various arthritic etiologies of osseous derangement. Differentially diagnosing various arthritic changes vs. benign and metastatic Tumors. Cleveland University Kansas City, Academy of Chiropractic, Post-Doctoral Division, Long Island, NY, 2022

**Extremity MRI & X-ray Interpretation of the Hand**, Identifying normal anatomy on both MRI and x-ray, inclusive of osseous, connective tissue, and neurological structures, identifying fractures in the adult and pediatric cases. Differentially diagnosing various arthritic etiologies of osseous derangement. Differentially diagnosing various arthritic changes vs. benign and metastatic Tumors. Cleveland University Kansas City, Academy of Chiropractic, Post-Doctoral Division, Long Island, NY, 2022

**Extremity MRI & X-ray Interpretation of the Hip**, Identifying normal anatomy on both MRI and x-ray, inclusive of osseous, connective tissue, and neurological structures. Identifying fractures in adult and pediatric cases. Differentially diagnosing various arthritic etiologies of osseous derangement. Cleveland University Kansas City, Academy of Chiropractic, Post-Doctoral Division, Long Island, NY, 2022

**Extremity MRI & X-ray Interpretation of the Hip**, Identifying fractures in the adult and pediatric cases. Differentially diagnosing various arthritic changes vs. benign and metastatic Tumors. Cleveland University Kansas City, Academy of Chiropractic, Post-Doctoral Division, Long Island, NY, 2022

**Extremity MRI & X-ray Interpretation of the Knee**, Identifying normal anatomy on both MRI and x-ray, inclusive of osseous, connective tissue, and neurological structures. Identifying fractures in adult and pediatric cases. Differentially diagnosing various arthritic etiologies of osseous derangement. Cleveland University Kansas City, Academy of Chiropractic, Post-Doctoral Division, Long Island, NY, 2022

**Extremity MRI & X-ray Interpretation of the Knee**, Identifying fractures in the adult and pediatric cases. Differentially diagnosing various arthritic changes vs. benign and metastatic Tumors. Cleveland University Kansas City, Academy of Chiropractic, Post-Doctoral Division, Long Island, NY, 2022

**Extremity MRI & X-ray Interpretation of the Hand**, Identifying normal anatomy on both MRI and x-ray, inclusive of osseous, connective tissue, and neurological structures, identifying fractures in the adult and pediatric cases. Differentially diagnosing various arthritic etiologies of osseous derangement. Differentially diagnosing various arthritic changes vs. benign and metastatic Tumors. Cleveland University Kansas City, Academy of Chiropractic, Post-Doctoral Division, Long Island, NY, 2022

**Extremity MRI & X-ray Interpretation of the Foot**, identifying normal anatomy on both MRI and x-ray, inclusive of osseous, connective tissue, and neurological structures, identifying fractures in the adult and pediatric cases. Differentially diagnosing various arthritic etiologies of osseous derangement. Differentially diagnosing various arthritic

changes vs. benign and metastatic Tumors. Cleveland University Kansas City, Academy of Chiropractic, Post-Doctoral Division, Long Island, NY, 2022

**Trends in Spinal Healthcare**, Analyzing spinal healthcare trends in both utilization and necessity and understanding the marketplace and how a clinical excellence level is reflected in a doctors' documentation and credentials. Treatment pathways in triaging spinal pathobiomechanics. Academy of Chiropractic Post-Doctoral Division, Cleveland University – Kansas City, Long Island, NY, 2022

**MRI Spine Interpretation Advanced Diagnosis**, An evidence-based understanding of time-related etiology of disc pathology considering the American Society of Neuroradiology's designation of protrusion, extrusion, and sequestration of spinal discs, T1, T2, STIR and Proton-Density weighted evaluation to diagnose spine form MRI accurately. Academy of Chiropractic Post-Doctoral Division, Cleveland University – Kansas City, Long Island, NY, 2022

**Spinal Biomechanical Engineering Analytics and Case Management**, Utilizing spinal mensurating algorithms to conclude a path biomechanical vs. normal spine in the absence of anatomical pathology. Clinically correlating a history and physical examination findings to x-ray biomechanical results in creating an accurate diagnosis, prognosis, and treatment plan. Academy of Chiropractic Post-Doctoral Division, Cleveland University – Kansas City, Long Island, NY, 2022

**MSK Extremity Radiological Interpretation**, Utilizing both MRI and x-ray to diagnose 1) Arthritis - Inflammatory and Degenerative, 2) Advanced cartilage assessment, 3) Rotator Cuff Tears, 4) Labral tears (shoulder and hip), 5) Tendon injuries and degeneration, 6) Meniscal tears, 7) Ligamentous injuries, 8) Common fractures, 9) Sports-related injury patterns, 10) Plantar fasciitis. Academy of Chiropractic Post-Doctoral Division, Cleveland University – Kansas City, Long Island, NY, 2022

**Demonstrative Medical-Legal Documentation**, The narrative report. How to effectively create medical-legal documentation and what the courts look for. Making your "4-Corner" (narrative) report demonstrable and building a reputation as an evidence-based provider. The step-by-step minutiae of building a report. Academy of Chiropractic Post-Doctoral Division, Cleveland University – Kansas City, Long Island, NY, 2022

**MRI Spinal Anatomy, Protocols and Disc Pathology**, Normal anatomy of axial and sagittal views utilizing T1, T2, gradient, and STIR sequences of imaging. Degeneration and annular fissures of discs in both trauma and non-trauma patients and the biochemical properties of joints in age dating pathology. Disc bulges from degenerative and sequela to osseous issues, herniation pathology, and protrusion, extrusion, migrated and sequestered variations. Clinical scenarios as sequella to disc and pre-existing pathologies. Cleveland University Kansas City, Academy of Chiropractic Post-Doctoral Division, Long Island, NY, 2022

**MRI Spine Interpretation, Herniated, bulged, extruded, protruded, sequestered and degenerative discs.** The morphology of a pathological disc vs. normal morphology and the sequences required including T1, T2 and STIR for all spinal regions. Modic 1-2-3 changes detailed and the traumatic relationship. Cleveland University Kansas City, Academy of Chiropractic Post-Doctoral Division, Long Island, NY, 2022

**Managing Non-Anatomical Spine Pain,** Treatment modalities centered upon "best-outcomes" in an evidence-based model considering chiropractic vs. physical therapy and chiropractic vs. medicine. Considerations of disability, pain reduction, functional improvement, drugs utilized, and side effects are all considered. Academy of Chiropractic Post-Doctoral Division, Cleveland University – Kansas City, Long Island, NY, 2022

**2022 Trends in Spinal Healthcare,** analyzing evidenced-based spinal healthcare trends in both utilization and necessity and understanding the marketplace. The use of evidenced-based demonstrative documentation in reporting treatment pathways in triaging spinal pathobiomechanics. Academy of Chiropractic Post-Doctoral Division, Cleveland University- Kansas City, Long Island, NY, 2022

**MRI Spine Clinical Case Grand Rounds,** Clinical case review of MRI's including sagittal, axial, T1, T2, STIR, and proton density sequences. Identified will be the vertebrae, spinal cord, discs, nerve roots, thecal sac, posterior longitudinal ligament, epidural veins, and fat saturation pulses. Pathology will include bulges, herniations, protrusions, extrusions, myelomalacia, cord edema, and Schmorl's nodes. Learn how to collaborate effectively with radiologists, neuroradiologists, and neurosurgeons on the clinical findings. Academy of Chiropractic Post-Doctoral Division, Cleveland University- Kansas City, Long Island, NY, 2022

**Chiropractic vs. Physical Therapy vs. Medical Case Management and Outcomes,** Analyzing evidence-based outcomes in triaging non-anatomical lesions. The analysis of neuro-biomechanical pathological lesions defines primary spinal lesions and removes the dogma of non-specific back pain. Managing collaborative relationships with medical primary providers and specialists in clinical practice. Academy of Chiropractic Post-Doctoral Division, Cleveland University- Kansas City, Long Island, NY, 2022

**MSK Extremity Radiological Interpretation,** Utilizing both MRI and x-ray in identifying via x-ray and advanced imaging extremity instabilities from ligamentous, osseous or neoplastic derangement. Academy of Chiropractic Post-Doctoral Division, Cleveland University- Kansas City, Long Island, NY, 2022

**Demonstrative Narrative and Evaluation and Management Report Writing,** effectively creating demonstrative medical-legal documentation and meeting the needs of the courts, and making your "4-Corner" (narrative) report to build your reputation as an evidence-based provider. The step-by-step minutiae of building a report, accomplishing report writing timely and effectively by understanding the regulatory and administrative rules. Learn how to educate the lawyer on bodily injury through evidence-based demonstrative

reporting. Academy of Chiropractic Post-Doctoral Division, Cleveland University- Kansas City, Long Island, NY, 2022

**Ligament/Connective Tissue Physiology and Pathology**, Master-Class in ligaments; anatomy, physiology, vascularization, neurological innervation, tissue repair and how they all relate to clinical practice. Ligament pathology correlating to the mechanisms of patho-neuro-biomechanical lesions (vertebral subluxation complex). Also, how ligaments play a critical role in the chiropractic spinal adjustment and in defining the chiropractic spinal adjustment mechanisms. Academy of Chiropractic Post-Doctoral Division, Cleveland University- Kansas City, Long Island, NY, 2022

**Stroke Evaluation and Risk Factors in the Chiropractic Practice**, Diagnosing, triaging, and documenting headaches, migraines, and vascular incidents (stroke) in the primary provider's office. Imaging protocols based upon history and clinical presentation will be presented, along with analyzing imaging findings in determining the etiology. There will be an extensive question and answer session following the instructional presentation. Academy of Chiropractic Post-Doctoral Division, Cleveland University- Kansas City, Long Island, NY, 2022

**Age-Dating Herniated Discs and Trauma**, Age dating herniated discs and trauma is a critical skill for an expert in spine. It combines the clinical skills of interpreting X-ray, MRI, and other imaging modalities with a clinician's understanding of joint pathology. This level of expertise is critical when collaborating with other physicians or working in the medical-legal environment as an expert. Age dating pathology is also central to creating a prognosis on your patient's recovery and must be evidence-based in rationale. Academy of Chiropractic Post-Doctoral Division, Cleveland University- Kansas City, Long Island, NY, 2022

**Clinical Grand Rounds in Spinal Biomechanics**, Case reviews utilizing E/M, MRI, and x-ray mensuration report to conclude an accurate diagnosis, prognosis, and treatment plan. Common diagnosis requiring interprofessional collaboration with a discussion of diagnostic dilemmas and proper communication methods. Academy of Chiropractic Post-Doctoral Division, Cleveland University- Kansas City, Long Island, NY, 2022

**Neurosurgical Grand Rounds**, A clinical discussion of collaborating with neurosurgeons on spinal cord and spinal nerve root co-morbidities. Triaging cases with herniated, protruded, extruded, fragments discs and differentially diagnosing tethered cord, syringomyelia, traumatic Schmorl's Nodes, Myelomalacia, spinal cord edema, vacuum disc, and other intra, and extra-dural lesions. Academy of Chiropractic Post-Doctoral Division, Cleveland University- Kansas City, Long Island, NY, 2022

**Documentation in Medical Collaborative Cases**, Concluding an E&M report in cases involving medical primary care providers of medical specialists that have complicated case histories, significant risk factors, and inconclusive findings. Triage and management of complicated cases requiring clinical evaluation, advanced imaging, and electrodiagnostic.



Academy of Chiropractic, Cleveland University Kansas City, Chiropractic and Health Sciences, Long Island, New York, 2022

**MRI Spine Interpretation and Protocols**, Contemporary acquisition protocols including slice thicknesses and sequences inclusive of the ordering process. Interpretation of axial, sagittal, and coronal views in T1, T2 and stir views inclusive of the disc, spinal cord, extra-dural, and intra-dural pathology. Academy of Chiropractic, Cleveland University Kansas City, Chiropractic and Health Sciences, Long Island, New York, 2022

**Ethics and Medical Collaboration**, Having referral relationships with emergency rooms, neurosurgeons, orthopedic surgeons, pain management specialists, neurologists, neuroradiologists, and medical primary care providers based upon clinical dilemmas that processed after a thorough history, examination and imaging if clinically indicated to conclude diagnostic dilemmas. Utilizing evidence-based protocols and acquisition of images and treatment pathways, collaborating with medical specialists and primaries to conclude an accurate treatment plan. Academy of Chiropractic, Cleveland University Kansas City, Chiropractic and Health Sciences, Long Island, New York, 2022

**Documentation in a Medical-Legal and Insurances**, Constructing and concluding an E&M (99202-99205) report that accurately reflects the history, clinical findings, and management of trauma cases that concurrently meets the needs of both the carriers in the courts and ethical relationship that concurrently matches the standards of both contemporary academia requirements and a contemporary literature-based standard. Academy of Chiropractic, Cleveland University Kansas City, Chiropractic and Health Sciences, Long Island, New York, 2022

**Evaluation and Management**, An overview of the evaluation and management process inclusive of utilizing electronic medical records to conclude evidenced-based conclusions with the utilization of macros. The importance of adhering to an academic standard and considering co-morbidities. Cleveland University, Kansas City, Academy of Chiropractic, Post-Doctoral Division, Long Island, NY, 2022

**Evaluation and Management**, Concluding a chief complaint, history, and what needs to be considered in a physical examination. This covers in dept the required elements for chief complain, history of present illness, review of systems, and past, family, and/or social history. This module also covers the following components of a physical examination: observation, palpation, percussion, and auscultation. Cleveland University, Kansas City, Academy of Chiropractic, Post-Doctoral Division, Long Island, NY, 2022

**Evaluation and Management, Coding and Spinal Examination: Detailing 99202-99205 and 99212-99215** inclusive of required elements for compliant billing. It reviews the elements for an extensive review of systems, cervical and lumbar anatomy, and basic testing. The course also covers the basics of vertebra-basilar circulation orthopedic assessment. Cleveland University, Kansas City, Academy of Chiropractic, Post-Doctoral Division, Long Island, NY, 2022

**Evaluation and Management, Neurological Evaluation:** Reviewing complete motor and sensory evaluation inclusive of reflex arcs with an explanation of Wexler Scales in both the upper and lower extremities. The course breaks down testing for upper and lower motor neuron lesions along with upper and lower extremity motor and sensory testing examinations. Cleveland University, Kansas City, Academy of Chiropractic, Post-Doctoral Division, Long Island, NY, 2022

**Evaluation and Management, Documenting Visit Encounters:** Forensically detailing the S.O.A.P. note process for visit encounters and discussing the necessity for clinically correlating symptoms, clinical findings, and diagnosis with the area(s) treated. It also details how to modify treatment plans, diagnosis, document collaborative care and introduce test findings between evaluations. Cleveland University, Kansas City, Academy of Chiropractic, Post-Doctoral Division, Long Island, NY, 2022

**Evaluation and Management, Case Management and Treatment Orders:** This module discusses how to document a clinically determined treatment plan inclusive of both manual and adjunctive therapies. It discusses how to document both short-term and long-term goals as well as referring out for collaborative care and/or diagnostic testing. It also includes how to prognose your patient and determine when MMI (Maximum Medical Improvement) has been attained. Cleveland University, Kansas City, Academy of Chiropractic, Post-Doctoral Division, Long Island, NY, 2022

**Documentation, Demonstrative and Compliance, Elements of Evaluation and Management codes 99202-99203-99204-99205,** inclusive of the complexity of management and time components. Demonstrative documentation of spinal-related pain generators; spinal cord, thecal sac, myelomalacia, spinal nerve root insult, connective tissue, recurrent meningeal nerves. Academy of Chiropractic Post-Doctoral Division, Cleveland University Kansas City, Chiropractic and Health Sciences, Long Island, NY, 2022

**Case Management, Spinal MRI and Documentation- Documenting Herniated Discs, Age-Dating Disc Pathology, and Connective Tissue Pathology** as Sequella to Trauma, Herniated Discs, and Connective Tissue Pathology, differentially diagnosing herniated discs vs. normal and bulging discs and protruded, extruded and fragmented discs. Normal vs. Pathological connective tissues and age-dating herniated discs. Cleveland University Kansas City, Academy of Chiropractic, Post-Doctoral Division, Long Island, NY, 2022

**Case Management, Spinal MRI and Documentation, Case Management of Traumatic Spinal Injuries,** Understanding flexion-extension cervical injures and diagnosing connective tissue pathology. Determining impairments and the literature-based standard for permanent injuries. Cleveland University Kansas City, Academy of Chiropractic, Post-Doctoral Division, Long Island, NY, 2022

**Case Management, Spinal MRI and Documentation, Managing Herniated and Bulging Discs,** Serious Injury in Non-Herniated Cases from Trauma, Spinal disc morphology, and innervation. Herniated, bulged, protruded, and sequestered disc characteristics and

management. Literature-based documentation requirements for no-dis spinal injuries. Cleveland University Kansas City, Academy of Chiropractic, Post-Doctoral Division, Long Island, NY, 2022

**Case Management, Spinal MRI and Documentation, Herniated Discs and Permanent Brain Malfunction & Biomechanical Failure,** A case-study of a post-traumatic herniated disc and related brain malfunction supported by contemporary literature, MRI acquisition, and necessity protocols. Cleveland University Kansas City, Academy of Chiropractic, Post-Doctoral Division, Long Island, NY, 2022

**Case Management, Spinal MRI and Documentation, Demonstrative Documentation of Disc Herniation and MRI Physics,** Understanding the documentation requirements to demonstratively show spinal disc lesions in reporting pathology. Understanding the physics of a nucleus resonating in T1 and T2 weighted imagery. Cleveland University Kansas City, Academy of Chiropractic, Post-Doctoral Division, Long Island, NY, 2022

**Case Management, Spinal MRI and Documentation, Post-Traumatic Herniated Discs, Related Migraines-Headaches & Strain/Sprain Permanencies,** Relationship of headaches, and migraines to cervical spine disc herniation, clinical rationale for ordering MRI's and the relationship of ligamentous pathology to spinal trauma. Cleveland University Kansas City, Academy of Chiropractic, Post-Doctoral Division, Long Island, NY, 2022

**Case Management, Spinal MRI and Documentation, Documentation of Low-Speed Crashes in Determining Etiology of Serious Bodily Injuries,** Documentation requirements during the evaluation, and management encounter to understand the etiology of spinal injuries. Having a complete understanding the forces involved to conclude a differential diagnosis, while concurrent ruling malingerers, if applicable. Cleveland University Kansas City, Academy of Chiropractic, Post-Doctoral Division, Long Island, NY, 2022

**Forensic Documentation-Report Writing,** Report writing in a medical-legal case inclusive of causality, bodily injury, persistent functional loss, and restrictive sequela from trauma. Demonstratively documenting bodily injury utilizing models, graphs, and patient images of x-ray and advanced imaging. Cleveland University, Kansas City, Academy of Chiropractic, Post-Doctoral Division, Long Island, NY, 2022

**Forensic Documentation- Demonstrative Documentation,** Demonstratively reporting spinal biomechanical failure and spinal compensation. How in a medical-legal environment to ethically report pre-existing injuries vs causally related current injuries and what is permissible in a legal proceeding. Cleveland University, Kansas City, Academy of Chiropractic, Post-Doctoral Division, Long Island, NY, 2022

**Forensic Documentation- Reporting Direct Opinions, Causality,** bodily injury and persistent functional losses documented and reported in a medical-legal environment as your direct opinion. Avoiding hearsay issues to ensure ethical relationships. Cleveland

University, Kansas City, Academy of Chiropractic, Post-Doctoral Division, Long Island, NY, 2022

**Forensic Documentation- Initial, Final, and Collaborative Reporting**, Preparing demonstrative documentation in a medical-legal case ensuring that you are familiar with all other treating doctor's reports. Correlating your initial evaluation and management (E&M) report and your follow-up E&M reports with the narrative upon maximum medical improvement documenting continuum of care. Cleveland University, Kansas City, Academy of Chiropractic, Post-Doctoral Division, Long Island, NY, 2022

**Forensic Documentation- Qualifications and Preparation of Documentation**, How to prepare your documentation for courtroom testimony and ensuring your qualifications are documented properly on an admissible, professional curriculum vitae. How to include indexed peer-reviewed literature in medical-legal documentation, Cleveland University, Kansas City, Academy of Chiropractic, Post-Doctoral Division, Long Island, NY, 2022

**Forensic Documentation- Reporting Patient History and Credentials**, Preparing patient history in a medical-legal case based upon your initial intake forms and understanding the work, social, academic, household and social activities of your patient. Understanding and explaining your doctoral and post-doctoral credentials in the courtroom. Cleveland University, Kansas City, Academy of Chiropractic, Post-Doctoral Division, Long Island, NY, 2022

**Forensic Documentation- Reporting Chiropractic Care and Injured Anatomy**, Preparing demonstrative documentation in a medical-legal case to report the bodily injuries of your patients, inclusive of loss of function and permanent tissue pathology. Cleveland University, Kansas City, Academy of Chiropractic, Post-Doctoral Division, Long Island, NY, 2022

**Forensic Documentation- Reporting Temporary vs. Permanent Issues**, Preparing documentation in a medical-legal case ensuring that you can communicate permanent vs. temporary functional losses and permanent vs. temporary tissue pathology. How to maintain and explain ethical relationships in medical-legal cases, Cleveland University, Kansas City, Academy of Chiropractic, Post-Doctoral Division, Long Island, NY, 2022

**Forensic Documentation- Reporting Bodily Injury**, How to report bodily injury and functional losses as supported by your credentials in a medical-legal case. Clinically correlating causality and permanent tissue pathology as sequela to trauma, Cleveland University, Kansas City, Academy of Chiropractic, Post-Doctoral Division, Long Island, NY, 2022

**Forensic Documentation- Record Review and Documentation Reporting**, How to report records of collaborative treating doctors and communicating your scope of practice in the management of your case. How to ethically report your role as a doctor in medical-legal cases, Cleveland University, Kansas City, Academy of Chiropractic, Post-Doctoral Division, Long Island, NY, 2022

**Understanding Whiplash Part 2**, focus on specific conditions and symptoms related to whiplash type injuries. Some of the conditions we will discuss include: the etiology of neck pain and headache, radiculopathy, TOS, myofascial pain syndrome, fibromyalgia, post-concussive syndrome, and TMJ. PACE Approved, DC Hours, Hilton Head, SC, 2022

**Understanding Whiplash Part 1**, detail the biomechanics of low-speed rear-impact collisions. This includes discussions on the S-shaped curve of the spine, general magnitudes of force, factors associated with increased risk of injury and the types of injuries that result from these collisions. PACE Approved, DC Hours, Hilton Head, SC, 2022

**Trigger Point Therapy**, Review the basic principles of trigger point therapy. Primary focus on the theory and application of these procedures for myofascial release. Specific muscle referred pain patterns will be demonstrated as well as treatment procedures and adjunctive stretches. PACE Approved, DC Hours, Hilton Head, SC, 2022

**Tension Type Headaches**, Review the basic principles of the etiology of Tension Type Headaches. Primary focus on the evaluation and treatment of patients suffering with this condition. PACE Approved, DC Hours, Hilton Head, SC, 2022

**Migraine Headaches**, Review the basic principles of the etiology of Migraine Headaches. Primary focus on the evaluation and treatment of patients suffering with this condition. PACE Approved, DC Hours, Hilton Head, SC, 2022

**Cervicogenic Headaches**, Reviews the clinical presentation of cervicogenic headache, proposed diagnostic criteria, pathophysiologic mechanisms, and methods of diagnostic evaluation. Guidelines for developing a successful multidisciplinary pain management program using medication, physical therapy, osteopathic manipulative treatment, other non-pharmacologic modes of treatment, and anesthetic interventions are also presented. PACE Approved, DC Hours, Hilton Head, SC, 2022

**Chiropractic-Legal Ethics**, The academic and court standards for documenting an Evaluation and Management encounter with the utilization of accurate CPT Coding. Accurately documenting your credentials based upon earned credentials. Cleveland University Kansas City, Academy of Chiropractic Post-Doctoral Division, Long Island, NY, 2022

**Chiropractic-Legal Ethics**, The clinical standard for ordering diagnostic tests as indicated. This includes advanced testing as MRI, CAT Scans and electrodiagnostic as electromyogram, nerve conduction studies, vestibule-electronystagmography, and somatosensory evoked potentials. The failure to order indicated testing and how it creates a public health risk and will negatively reflect on your license and reputation. Cleveland University Kansas City, Academy of Chiropractic Post-Doctoral Division, Long Island, NY, 2022

**Chiropractic-Legal Ethics**, Documenting and communicating your credentials in a manner consistent with licensure boards and the courts. Communicating sub-specialties as

awarded through formal academic accomplishments and utilizing that level of education to better understand and explain pathology. Cleveland University Kansas City, Academy of Chiropractic Post-Doctoral Division, Long Island, NY, 2022

**Chiropractic-Legal Ethics**, Understanding ethical relationships about anti-kickback laws, fee-splitting and appropriate hiring practices in the clinical arena. How to use your initial patient documentation to conclude a case and ensure you are within the ethical boundaries. Cleveland University Kansas City, Academy of Chiropractic Post-Doctoral Division, Long Island, NY, 2022

**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, 2022

**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, 2022

**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, 2022

**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, 2022

**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, 2022

**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, 2022

**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, 2022

**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, 2022

**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, 2022

**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, 2022

**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, 2022

**Trends in Spinal Healthcare**, Analyzing spinal healthcare trends in both utilization and necessity and understanding the marketplace and how a level of clinical excellence is reflected in a doctors' documentation and credentials. Treatment pathways in triaging spinal pathobiomechanics. Academy of Chiropractic Post-Doctoral Division, Cleveland University – Kansas City, Long Island, NY, 2020

**MRI Spine Interpretation**, An evidence-based understanding of time-related etiology of disc pathology considering the American Society of Neuroradiology's designation of protrusion, extrusion, and sequestration of spinal discs, Considering the signal intensity of discs in age-dating pathology and acquisition protocols for advanced spinal imaging. Academy of Chiropractic Post-Doctoral Division, Cleveland University – Kansas City, Long Island, NY, 2020

**Spinal Biomechanics; A Literature Perspective**, An evidenced-based model for spinal biomechanical engineering and pathobiomechanics considering the pathophysiological limits in translations, angular deviation, and rotational planes. Utilizing the Cartesian system in plotting vertebral points to demonstratively conclude an accurate diagnosis, prognosis and biomechanical treatment plan with the consideration of long-term care in the non-specific mechanical spine pain patient when necessary. Academy of Chiropractic Post-Doctoral Division, Cleveland University – Kansas City, Long Island, NY, 2020

**Case Management of Mechanical Spine Pathology, Clinical Grand Rounds** of herniated, protruded, extruded, sequestered, and bulging discs. Differentially diagnosing vascular vs. mechanical spinal lesions and the necessity for urgent vascular, neurological intervention, Collaborating in a team environment utilizing a neuroradiologist, electrophysiologist, and neurosurgeon with the chiropractor as the primary spine care provider. Academy of Chiropractic Post-Doctoral Division, Cleveland University – Kansas City, Long Island, NY, 2020

**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, Texas Chiropractic College, Long Island, NY, 2018

**Connective Tissue Pathology and Research, Primary Spine Care**, Utilization in spinal models considering 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, Texas Chiropractic College, 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, Texas Chiropractic College, 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, Texas Chiropractic College, 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 Texas



Chiropractic College Graduate Doctoral Program, PACE Recognized by The Federation of Chiropractic Licensing Boards, 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 Texas Chiropractic College Graduate Doctoral Program, PACE Recognized by The Federation of Chiropractic Licensing Boards, 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 Texas Chiropractic College Graduate Doctoral Program, PACE Recognized by The Federation of Chiropractic Licensing Boards, Academy of Chiropractic Post-Doctoral Division, 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 Texas Chiropractic College Graduate Doctoral Program, PACE Recognized by The Federation of Chiropractic Licensing Boards, Academy of Chiropractic Post- Doctoral Division, Long Island, NY, 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, PACE Approved for the Federation of Chiropractic Licensing Boards, Cleveland University- Kansas City, College of Chiropractic, 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, PACE Approved for the Federation of Chiropractic Licensing Boards, Cleveland University- Kansas City, College of Chiropractic, 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, PACE Approved for the Federation of Chiropractic Licensing Boards, Cleveland University- Kansas City, College of Chiropractic, 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 lateral 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, PACE Approved for the Federation of Chiropractic Licensing Boards, Cleveland University- Kansas City, College of Chiropractic, Long Island, NY, 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. [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, New York, 2017

**MRI History and Physics**, Magnetic Lukas, 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, New York, 2017

**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, New York, 2017

**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, New York, 2017

**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, New York, 2017

**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, [Texas Chiropractic College or PACE Recognized by The Federation of Chiropractic Licensing Boards], New York Chiropractic Council, ACCME Joint Sponsorship with the State University of New York at Buffalo, School of Medicine and Biomedical Sciences Buffalo, New York, 2017

**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, New York, 2017

**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, New York, 2017

**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, New York, 2017

**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 vertebrae,

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 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, New York, 2017

**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, New York, 2017

**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, New York, 2017

**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 spondylolisthesis, 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, New York, 2017

**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 reimbursers' requirements for complete documentation. [Texas Chiropractic College or PACE Recognized by The Federation of Chiropractic Licensing Boards], Academy of Chiropractic Post-Doctoral Division, Long Island, New York, 2017

**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, New York, 2017

**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, New York, 2017

**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, New York, 2017

**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, New York, 2017

**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, New York, 2017

**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. [Texas Chiropractic College or PACE Recognized by The Federation of Chiropractic Licensing Boards], Academy of Chiropractic Post-Doctoral Division, Long Island, New York, 2017

**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. [Texas Chiropractic College or PACE Recognized by The Federation of Chiropractic Licensing Boards], Academy of Chiropractic Post-Doctoral Division, Long Island, New York, 2017

**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. [Texas Chiropractic College or PACE Recognized by The Federation of Chiropractic Licensing Boards], Academy of Chiropractic Post-Doctoral Division, Long Island, New York, 2017

**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 [Texas Chiropractic College or PACE Recognized by The Federation of Chiropractic Licensing Boards], Academy of Chiropractic Post-Doctoral Division, Long Island, New York, 2017

**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. [Texas Chiropractic College or PACE Recognized by The Federation of Chiropractic Licensing Boards], Academy of Chiropractic Post-Doctoral Division, Long Island, New York, 2017

**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. [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, New York, 2017

**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. [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, New York, 2017

**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. [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, Buffalo, New York, 2017

**Orthopedic Testing: Clinical Grand Rounds,** Integration of 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. [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, New York, 2017

**Stroke Anatomy and Physiology:** Brain Vascular Anatomy, The anatomy, and physiology of the brain and how blood perfusion affects brain function. A detailed analysis of the blood supply to the brain and the physiology of ischemia. [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, New York, 2017

**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 in stroke inclusive of diabetes, coagulopathy, acquired and hereditary deficiencies. [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, New York, 2017

**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. [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, New York, 2017

**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. [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, New York, 2017

**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. Texas Chiropractic College Graduate Doctoral Program, Academy of Chiropractic Post- Doctoral Division, PACE Recognized by The Federation of Chiropractic Licensing Boards, , Long Island, New York, 2017

**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. Texas Chiropractic College, Academy of Chiropractic, Setauket NY, 2017

**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. Texas Chiropractic College, Academy of Chiropractic, Setauket NY, 2017

**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. Texas Chiropractic College, Academy of Chiropractic, Setauket NY, 2017

**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. Texas Chiropractic College, Academy of Chiropractic, Setauket NY, 2017

**Patient Intake, History, and Physical Examination,** Determining the etiology of the patient's complaints in a traumatic or non-traumatic scenario. Analyzing the patient's past history and review of systems along with the performance of a complete orthopedic, neurological and clinical examination to correlate both past, current, and causality issues to formulate an accurate diagnosis, prognosis, and treatment plan. This is an emphasis on triaging both the trauma and non-trauma patients. [Texas Chiropractic College or PACE Recognized by The Federation of Chiropractic Licensing Boards], Academy of Chiropractic Post-Doctoral Division, Long Island, NY, 2017

**CDC Guidelines for Prescribing Opioids for Chronic Pain,** Understanding the current evidence and guidelines for opioid prescribing in chronic pain patients. Accreditation Council on Continuing Medical Education(ACCME) in cooperation with Medscape, 2017

**Collaborative Concussion Care Can Relieve Symptoms in Teens,** This study aimed to assess outcomes using a collaborative care intervention, which included embedded cognitive-behavioral therapy (CBT), care management, and psychopharmacologic consultation. Accreditation Council on Continuing Medical Education(ACCME) in cooperation with Medscape, 2017

**Can Sleep Disturbances Increase Risk for Suicidal Behavior?** Sleep disturbances have not previously been prospectively evaluated as an acute indicator of risk, using an objective sleep index. The goal of this longitudinal study in young adults was to examine objective and subjective parameters of disturbed sleep as a warning sign of suicidal ideation during an acute period. Accreditation Council on Continuing Medical Education(ACCME) in cooperation with Medscape, 2017

**Neuro-diagnostics, 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. Recognized by the PACE Program of the Federation of Chiropractic Licensing Boards, Academy of Chiropractic Post-Doctoral Division, Long Island, New York, 2016

**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 neuro-diagnostics. An understanding of how to utilize emergency room records in creating an accurate diagnosis and the significance of "risk

factors” in spinal injury. Recognized by the PACE Program of the Federation of Chiropractic Licensing Boards, Academy of Chiropractic Post-Doctoral Division, Long Island, New York, 2016

**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. Recognized by the PACE Program of the Federation of Chiropractic Licensing Boards, Academy of Chiropractic Post-Doctoral Division, Long Island, New York, 2016

**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. Recognized by the PACE Program of the Federation of Chiropractic Licensing Boards, Academy of Chiropractic Post-Doctoral Division, Long Island, New York, 2016

**Neuro-diagnostic 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- Electronystagmography (V-ENG) interpretation, protocols and clinical indications for the trauma patient Recognized by the PACE Program of the Federation of Chiropractic Licensing Boards, Academy of Chiropractic Post-Doctoral Division, Long Island, New York, 2016

**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 Recognized by the PACE Program of the Federation of Chiropractic Licensing Boards, Academy of Chiropractic Post-Doctoral Division, Long Island, New York, 2016

**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 Recognized by the PACE Program of the Federation of Chiropractic Licensing Boards, Academy of Chiropractic Post-Doctoral Division, Long Island, New York, 2016

**Traumatic Lumbar Syndrome**, Understanding, documenting, and treating complicated lumbar spine presentations in the trauma patient. Recognized by the PACE Program of the Federation of Chiropractic Licensing Boards, University of Western States, Post-Doctoral Division, Portland, Oregon, 2016

**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. PACE Recognized by The Federation of Chiropractic Licensing Boards, ACCME Joint Providership with the State University of New York at Buffalo, School of Medicine and Biomedical Sciences, Academy of Chiropractic Post-Doctoral Division, Buffalo, NY, 2016

**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. PACE Recognized by The Federation of Chiropractic Licensing Boards, ACCME Joint Providership with the State University of New York at Buffalo, School of Medicine and Biomedical Sciences, Academy of Chiropractic Post- Doctoral Division, Buffalo, NY, 2016

**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. PACE Recognized by The Federation of Chiropractic Licensing Boards, ACCME Joint Providership with the State University of New York at Buffalo, School of Medicine and Biomedical Sciences, Academy of Chiropractic Post-Doctoral Division, Buffalo, NY, 2016

**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. PACE Recognized by The Federation of Chiropractic Licensing Boards, ACCME Joint Providership with the State University of New York at Buffalo, School of Medicine and Biomedical Sciences, Academy of Chiropractic Post-Doctoral Division, Buffalo, NY, 2016

**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. PACE Recognized by The Federation of Chiropractic Licensing Boards, ACCME Joint Providership with the State University of New York at Buffalo, School of Medicine and Biomedical Sciences, Academy of Chiropractic Post-Doctoral Division, Buffalo, NY, 2016

**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. PACE Recognized by The Federation of Chiropractic Licensing Boards, ACCME Joint Providership with the State University of New York at Buffalo, School of Medicine and Biomedical Sciences, Academy of Chiropractic Post-Doctoral Division, Buffalo, NY, 2016

**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 PACE Recognized by The Federation of Chiropractic Licensing Boards, ACCME Joint Providership with the State University of New York at Buffalo, School of Medicine and Biomedical Sciences, Academy of Chiropractic Post-Doctoral Division, Buffalo, NY, 2016

**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. PACE Recognized by The Federation of Chiropractic Licensing Boards], ACCME Joint Providership with the State University of New York at Buffalo, School of Medicine and Biomedical Sciences, Academy of Chiropractic Post-Doctoral Division, Buffalo, NY, 2016

**New Blood Biomarkers Useful for Concussion Diagnosis,** The utilization of GFAP and UCH-L1 in determining, traumatic brain injury, mild traumatic brain injury and mild-moderate traumatic brain injury as a triage tool to manage head trauma patients Accreditation Council on Continuing Medical Education in cooperation with Medscape, 2016

**Low Back Pain Study Finds 9 Modifiable Triggers,** The understanding of modifiable low back pain triggers and risk factors in adult populations. Identifying triggers for better patient outcomes Accreditation Council on Continuing Medical Education in cooperation with Medscape, 2016

**An Integrative Approach to Low Back Pain,** Understanding the current evidence suggests that complementary health approaches, such as spinal manipulation, acupuncture, massage and yoga, may help patients with back pain manage the day-to-day variations in

their symptoms and reduce reliance on prescription drugs Accreditation Council on Continuing Medical Education in cooperation with Medscape, 2016

**Establishing Roles and Responsibilities for Interprofessional Care Team Members,** Defining roles in a collaborative environment based upon skills, knowledge, and abilities of each provider while engaging patients in the process Accreditation Council on Continuing Medical Education (ACCME) in cooperation with Medscape, 2016

**Interprofessional Collaboration to Improve Health Care:** An Introduction, Creating patient-centered approaches to healthcare to improve outcomes in treatment models while concurrently reducing risk Accreditation Council on Continuing Medical Education (ACCME) in cooperation with Medscape, 2016

**Do Opioids Effectively Treat Low Back Pain?** The utilization of opioids, bed rest, and other pharmaceutical agents for the treatment of chronic low back pain in outcome studies Accreditation Council on Continuing Medical Education (ACCME) in cooperation with Medscape, 2016

#### **SELECTED MEMBERSHIPS**

Academy of Chiropractic, Trauma Team, 2017- Present

Academy of Chiropractic, 2015 - Present

