Jeffrey Garofalo DC,
2180N 700W Shipshewana, IN
Phone: 260-768-4712
Cell: 630-957-8640
Fax: 260-768-3124
Healthmatters1280@yahoo.com

## SELECTED OCCUPATIONAL HISTORY

New Life Chiropractic 2005-2018
Legacy Chiropractic LLC 2018-Present
Midwest Disc Clinic 2020-Present

## EDUCATION AND LICENSURE

Doctor of Chiropractic, Licensed in the State of Illinois,

License # 038.010274, 2004-Present

Doctor of Chiropractic, Licensed in State of Indiana,

License # 08002959A, 2017-Present

Doctor of Chiropractic, National University of Health Sciences,

Lombard, Illinois, 2002

Internship, Salvation Army Clinic, Chicago, Illinois, 2001 – 2002

National Board of Chiropractic Examiners, Part I, 2000

National Board of Chiropractic Examiners, Part II, 2000

National Board of Chiropractic Examiners, Part III, 2001

National Board of Chiropractic Examiners, Part IV, 2002

National Board of Chiropractic Examiners, Physiotherapy, 2002

B.S. in Biological Sciences, Fordham University, Bronx, New York, 1999

## Publications

Jeffrey Garofalo, D.C. *Never Look Back: A Simple Guide to the Causes and Care for Back Pain.*

Paperboy Printing and Media, 2022

## *SELECTED POST-GRADUATE EDUCATION, CERTIFICATIONS AND DIPLOMATES*

### *The Basics of Orthopedic testing*

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, September 2022

### Cervical Spine Orthopedic Testing

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 State University of New York at Buffalo Jacobs School of Medicine and Biomedical Sciences, Academy of Chiropractic Post Doctoral Division, Buffalo, NY, September 2022

### Cervical Spine Part 2

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, September 2022

**Lumbar Spine**

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, September 2022

**Clinical Grand Rounds**

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, September 2022

**MRI Basics Physics and Interpretation**

Dr. James Cox is known for his connecting the dots between research and clinical application. He is also fairly well known for his development of the chiropractic technique, Cox Technic flexion distraction. However, for this webinar, he puts on his chiropractic radiologist hat to share the science of imaging with the clinical application of imaging's findings in diagnosing patient spinal conditions.
*National University of Health Sciences, Lombard, IL 2021*

**Examination of the Cervical Spine**

Dr. Cox goes test-by-test through the Cox® Examination form, sharing the algorithm of decision making for coming up with the accurate diagnosis and treatment plan. He discusses how each test is performed, what potential outcomes of each test mean, what the findings are based on and how the findings direct you to a diagnosis.
*National University of Health Sciences, Lombard, IL 2021*

**Examination of the Lumbar Spine**

Dr. Cox goes test-by-test through the Cox® Examination form, sharing the algorithm of decision making for coming up with the accurate diagnosis and treatment plan. He discusses how each test is performed, what potential outcomes of each test mean, what the findings are based on and how the findings direct you to a diagnosis.
*National University of Health Sciences, Lombard, IL 2021*

## Disc Degeneration and Regeneration State of Current Research

This course focuses on the degeneration and regeneration research as it stands now, without making any final proclamation as to its final course. Dr. Cox will present his collected literature on the latest and older trials of regenerating the disc and preventing and stopping disc degeneration. This course will be of interest to attendees who treat back pain and neck pain and related spinal pain conditions. Disc degeneration is rampant. Disc regeneration is controversial but anxiously anticipated. Stem cells, nutrition, prevention strategies, cautions are all discussed.
*National University of Health Sciences, Lombard, IL 2021*

**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, 2020*

**Neurology of Ligament Pathology**

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, 2020

**Neurology of Ligament Pathology**

Neurology of Ligament Pathology- Spinal Biomechanics and Disc Pathology, Disc pathology as sequelae 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, 2020

**Neurology of Ligament Pathology**

Neurological Innervation, the peripheral and central innervation of the disc and spinal ligaments of the dorsal root ganglion, spinothalamic 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, 2020

**Spinal Trauma Pathology**

**Module 1: Diagnostic dilemmas and connective tissue Morphology**

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 Provider-ship 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, 2020

**Module 2: Ligament anatomy and injury research and spinal kinematics**

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 Provider-ship 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, 2020

**Module 3: Spinal Biomechanics, Central Nervous System and Spinal Disc Nomenclature**

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. 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, 2020

**Module 4: Biomechanics of Traumatic Disc Bulge and Age Dating Herniated Disc Pathology**

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, 2020

**Module 5: Spinal trauma pathology, clinical grand rounds**

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, 2020

**Module 6: Spinal trauma pathology, Research, and documentation Review**

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, 2020

**National Certification Non-Surgical Spinal Decompression**

This National Certification goes through the history of Non-Surgical Spinal Decompression, the Anatomy, Physiology, and Biomechanics of the Cervical and Lumbar Disc as well as diagnosis and treatment of Disc Disorders such as Herniated Discs, Bulging Discs, Degenerative Discs, their outcomes based on treatment using Peer Reviewed Research. Parker University 2019

**Head Trauma, Brain Injury and Concussion,**

Brain and head physiology, brain mapping and pathology as a sequela to trauma. Traumatic brain injury, mild traumatic brain injury, axonal shearing, diffuse axonal injury, and concussion are detailed in etiology and clinically. Clinical presentation advanced diagnostic imaging and electrodiagnostics are detailed in analysis to create a differential diagnosis. Balance disorders that often occur as a result of trauma are also explored from clinical presentation to advanced imaging and differential diagnosis*. [Academy of Chiropractic Post-Doctoral Division, Recognized by the PACE Program of the Federation of Chiropractic Licensing Boards], Academy of Chiropractic Post-Doctoral Division, Long Island, NY, 2015*

**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*. [PACE approved for FCLB], Academy of Chiropractic Post-Doctoral Division, Long Island, NY, 2015*

**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.* [PACE approved for FCLB], Academy of Chiropractic Post-Doctoral Division, Long Island, NY, 2015

**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 [PACE approved for FCLB], Academy of Chiropractic Post-Doctoral Division, Long Island, NY, 2015*

**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 *[PACE approved for FCLB], Academy of Chiropractic Post-Doctoral Division, Long Island, NY, 2015*

**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. *[PACE approved for FCLB], Academy of Chiropractic Post-Doctoral Division, Long Island, NY, 2015*

**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 approved for FCLB], ACCME Joint Sponsorship with the State University of New York at Buffalo, School of Medicine and Biomedical Sciences, Academy of Chiropractic Post-Doctoral Division, Buffalo, NY, 2015

**Spinal Biomechanical Engineering: Cervical Patho-biomechanics**

Spinal biomechanical engineering of the cervical and upper thoracic spine. This includes the normal and patho biomechanical 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 patho biomechanical findings of the spine. [PACE approved for FCLB], ACCME Joint Sponsorship with the State University of New York at Buffalo, School of Medicine and Biomedical Sciences, Academy of Chiropractic Post-Doctoral Division, Buffalo, NY, 2015

**Spinal Biomechanical Engineering: Lumbar Patho-biomechanics**

Spinal biomechanical engineering of the lumbar spine. This includes the normal and patho biomechanical 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 patho biomechanical findings of the spine. [PACE approved for FCLB], ACCME Joint Sponsorship with the State University of New York at Buffalo, School of Medicine and Biomedical Sciences, Academy of Chiropractic Post-Doctoral Division, Buffalo, NY, 2015

**Spinal Biomechanics in Trauma**

To utilize whiplash associated disorders in various vectors of impact and whiplash mechanisms in determining path biomechanics. To clinically correlate annular tears, disc herniations, fractures, ligament pathology and spinal segmental instability as sequelae to path biomechanics 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 approved for FCLB], ACCME Joint Sponsorship with the State University of New York at Buffalo, School of Medicine and Biomedical Sciences, Academy of Chiropractic Post-Doctoral Division, Buffalo, NY, 2015

**Spinal Biomechanical Engineering & Organizational Analysis**

Integrating spinal biomechanics and pathomechanics 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 approved for FCLB], ACCME Joint Sponsorship with the State University of New York at Buffalo, School of Medicine and Biomedical Sciences, Academy of Chiropractic Post-Doctoral Division, Buffalo, NY, 2015

**Spinal Biomechanical Engineering: Cervical Digital Analysis**

Digitizing and analyzing the cervical spine in neutral, flexion and extension views to diagnose path biomechanics. 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 pathos biomechanics using a computerized/numerical algorithm. [PACE approved for FCLB]], ACCME Joint Sponsorship with the State University of New York at Buffalo, School of Medicine and Biomedical Sciences, Academy of Chiropractic Post-Doctoral Division, Buffalo, NY, 2015

**Spinal Biomechanical Engineering: Lumbar Digital Analysis**

Digitalizing and analyzing the lumbar spine images to diagnose path biomechanics. 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 patho biomechanics using a computerized/numerical algorithm along with corrective guidelines. [PACE approved for FCLB], ACCME Joint Sponsorship with the State University of New York at Buffalo, School of Medicine and Biomedical Sciences, Academy of Chiropractic Post-Doctoral Division, Buffalo, NY, 2015

**Spinal Biomechanical Engineering Full Spine Digital Analysis**,

Digitalizing and analyzing the full spine images to diagnose path biomechanics 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 patho biomechanics using a computerized/numerical algorithm along with corrective guidelines. [[PACE approved for FCLB]], ACCME Joint Sponsorship with the State University of New York at Buffalo, School of Medicine and Biomedical Sciences, Academy of Chiropractic Post-Doctoral Division, Buffalo, NY, 2015

**Triaging and reporting while maintaining ethical medical-legal relationships**

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. [PACE approved for FCLB], Academy of Chiropractic Post-Doctoral Division, Long Island, NY Academy of Chiropractic, New York, 2013

**Physical Examination & Documentation for the Trauma Patient**

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. [PACE approved for FCLB], Academy of Chiropractic Post-Doctoral Division, Long Island, NY, Academy of Chiropractic New York, 2013

**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, Newton's, 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. [PACE approved for FCLB], Academy of Chiropractic Post-Doctoral Division, Long Island, NY, Academy of chiropractic, New York, 2013

**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. [PACE approved for FCLB], Academy of Chiropractic Post-Doctoral Division, Long Island, NY, 2013 Academy of chiropractic, New York, 2013

**Neurodiagnostics Testing: EMG/NCV, VEP, BAER, V-ENG and SSEP, Clinical Indications and Interpretation, Neurodiagnostic Testing Protocols**

Physiology and Indications for the Trauma Patient, Electromyography (EMG), Nerve Conduction Velocity (NCV), Somatosensory 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. [PACE approved for FCLB], Academy of Chiropractic Post-Doctoral Division, Long Island, NY, Academy of Chiropractic, New York, 2013

**Documentation and Working within Your State Laws to Ensure Compliant Paperwork and Reimbursement**

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. [PACE approved for FCLB], Academy of Chiropractic Post-Doctoral Division, Long Island, NY, Academy of Chiropractic, New York, 2013

**Strategic Plan, 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 kinesiopathology, myopathology, neuropathology, and pathophysiology in both a functional and structural paradigm. [PACE approved for FCLB], Academy of Chiropractic Post-Doctoral Division, Long Island, NY, Academy of Chiropractic, New York, 2013

**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. [PACE approved for FCLB], ACCME Joint Sponsorship with the State University of New York at Buffalo, School of Medicine and Biomedical Sciences, Academy of Chiropractic Post-Doctoral Division, Buffalo, NY, 2013

**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 comorbidities and complications of stenosis, pseudo-protrusions, cantilevered vertebrates, Schmorl's nodes and herniation. Central canal and cauda equina compromise interpretation with management. [PACE approved for FCLB], ACCME Joint Sponsorship with the State University of New York at Buffalo, School of Medicine and Biomedical Sciences, Academy of Chiropractic Post-Doctoral Division, Buffalo, NY, 2013

**MRI Interpretation of Lumbar Herniation**

MRI slices, views, T1, T2, STIR axial, stacking, FFE, FSE and sagittal images in the interpretation of lumbar herniation. With the comorbidities and complications of stenosis, pseudo-protrusions, cantilevered vertebrate, Schmorl's nodes and herniation's. Morphology of lumbar disc pathologies of central and lateral herniation's, protrusions, extrusions, sequestration, focal and broad-based herniation's are defined and illustrated. Central canal and cauda equina compromise interpretation with management. [PACE approved for FCLB], ACCME Joint Sponsorship with the State University of New York at Buffalo, School of Medicine and Biomedical Sciences, Academy of Chiropractic Post-Doctoral Division, Buffalo, NY, 2013

**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 vertebrates, Schmorl's nodes and herniations. Spinal cord and canal compromise interpretation with management. [PACE approved for FCLB], ACCME Joint Sponsorship with the State University of New York at Buffalo, School of Medicine and Biomedical Sciences, Academy of Chiropractic Post-Doctoral Division, Buffalo, NY, 2013

**MRI Interpretation of Cervical Herniations**

MRI slices, views, T1, T2, STIR Axial, FFE, FSE and sagittal images in the interpretation of cervical herniation. With the comorbidities and complications of stenosis, pseudo-protrusions, cantilevered vertebrates, Schmorl's nodes and herniation. Morphology of cervical disc pathologies of central and lateral herniation, protrusions, extrusions, sequestration, and focal and broad-based herniation are defined and illustrated. Spinal cord and canal compromise interpretation with management. [PACE approved for FCLB], ACCME Joint Sponsorship with the State University of New York at Buffalo, School of Medicine and Biomedical Sciences, Academy of Chiropractic Post-Doctoral Division, Buffalo, NY, 2013

**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 herniation, extrusions, compressions, nerve root compressions, advanced spurring, and thecal sac involvement from an orthopedic, emergency room, chiropractic, neurological, neurosurgical, physical medicine perspective. [PACE approved for FCLB], ACCME Joint Sponsorship with the State University of New York at Buffalo, School of Medicine and Biomedical Sciences, Academy of Chiropractic Post-Doctoral Division, Buffalo, NY, 2013

**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. [PACE approved for FCLB], ACCME Joint Sponsorship with the State University of New York at Buffalo, School of Medicine and Biomedical Sciences, Academy of Chiropractic Post-Doctoral Division, Buffalo, NY, 2013

**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. [PACE approved for FCLB], ACCME Joint Sponsorship with the State University of New York at Buffalo, School of Medicine and Biomedical Sciences and Academy of Chiropractic Post-Doctoral Division, Buffalo, NY, 2013

**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. [PACE approved for FCLB], ACCME Joint Sponsorship with the State University of New York at Buffalo, School of Medicine and Biomedical Sciences and Academy of Chiropractic Post-Doctoral Division Buffalo, NY, 2013

**MRI Methodology of Analysis**

MRI interpretation sequencing of the cervical, thoracic, and lumbar spine inclusive of T1, T2, STIR and 3D gradient studies to ensure the accurate diagnosis of the region visualized. New York Chiropractic Council, [PACE approved for FCLB], ACCME Joint Sponsorship with the State University of New York at Buffalo, School of Medicine and Biomedical Sciences and Academy of Chiropractic Post-Doctoral Division, Buffalo, NY, 2013

**MRI Clinical Application**

The clinical application of the results of space occupying lesions. Disc and tumor pathologies and the clinical indications of manual and adjunctive therapies in the patient with spinal nerve root and spinal cord insult as sequelae. [PACE approved for FCLB], Board for Chiropractic, ACCME Joint Sponsorship with the State University of New York at Buffalo, School of Medicine and Biomedical Sciences and Academy of Chiropractic Post-Doctoral Division, Buffalo, NY, 2013

**SELECTED MEMBERSHIPS**

American Academy of Medical Legal Professionals, member, 2013

Illinois Trial Lawyers Association member 2013- 2015

International Disc Education Association member 2019

**SELECTED HONORS AND AWARDS**

Academic Dean's List, National University of Health Sciences, 2000

International Medical Advisory Board on Spinal Decompression Recognition for Excellence in the work of Non-Surgical Spinal Decompression 2019