

Robert Sheely DC , FICC, FIACA

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SELECTED OCCUPATIONAL HISTORY

Clinic Owner - Director, Middletown Spine and Injury - (a division of Dr. Robert B. Sheely Inc), Middletown, Ohio, 1980 - Present

Vice President of OBCE, Ohio Board of Chiropractic Examiners, Columbus, Ohio, 1995 - 2023

Compliance Officer, Ohio Board of Chiropractic Examiners, Columbus, Ohio, 2004 - 2008

EDUCATION AND LICENSURE

Doctor of Chiropractic, Licensed in the State of Ohio, License # 841, 1980-

Doctorate of Chiropractic, Palmer College of Chiropractic - cum laude, Davenport, Ohio, 1980

National Board of Chiropractic Examiners, Part I, 1980

National Board of Chiropractic Examiners, Part II, 1980

National Board of Chiropractic Examiners, Part III, 1980

National Board of Chiropractic Examiners, Part IV, 1980

National Board of Chiropractic Examiners, Physiotherapy, 1980

SELECTED POST-GRADUATE EDUCATION, CERTIFICATIONS AND DIPLOMATES

Spinal Trauma Pathology 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 grey matter, thalamus and cortices involvement.* Cleveland University –Kansas City, ACCME Joint Providership with the State University of New York at Buffalo Jacobs School of Medicine and Biomedical Sciences, Academy of Chiropractic Post-Doctoral Division, Buffalo, New York, 2023

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 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, 2023

Spinal Trauma Pathology 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 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, 2023

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.* Cleveland University-Kansas City, Academy of Chiropractic Post-Doctoral Division, Long Island, NY, 2023

Physical Examination and 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* Cleveland University - Kansas City, Academy of Chiropractic Post-Doctoral Division, Long Island, NY, 2023

Crash Dynamics and Its Relationship to Causality, *Crash Dynamics and Its Relationship to Causality, An extensive understanding of the physics involved in the transference of energy from the bullet car to the target car. This includes G's of force, newtons, gravity, energy, skid marks, crumple zones, spring factors, event data recorder and the graphing of the movement of the vehicle before, during, and after the crash. Determining the clinical correlation of forces and bodily injury.* Cleveland University - Kansas City, Academy of Chiropractic Post-Doctoral Division, Long Island, NY, 2023

MRI, Bone Scan and X-Ray Protocols, Physiology and Indications for the Trauma Patient, *MRI, Bone Scan and X-Ray Protocols, Physiology and Indications for the Trauma Patient, MRI interpretation, physiology, history and clinical indications, bone scan interpretation, physiology, and clinical indications, X-Ray clinical indications for the trauma patient.* Cleveland University - Kansas City, Academy of Chiropractic Post-Doctoral Division, Long Island, NY, 2023

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), Somato Sensory Evoked Potential (SSEP), Visual Evoked Potential (VEP), Brain Stem Auditory Evoked Potential (BAER) and Visual-Electronystagmosgraphy (V-ENG) interpretation, protocols and clinical indications for the trauma patient.* Cleveland University - Kansas City,, Academy of Chiropractic Post-Doctoral Division, Long Island, NY, 2023

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-10 and the CPT to accurately describe the injury through diagnosis. Understanding and utilizing state regulations on reimbursement issues pertaining to healthcare* Cleveland University - Kansas City,, Academy of Chiropractic Post-Doctoral Division, Long Island , NY, 2023

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 the kinesiopathology, myopathology, neuropathology, and pathophysiology in both a functional and structural paradigm.* Cleveland University - KansasCity, Academy of Chiropractic Post-Doctoral Division, Long Island, NY, 2023

MRI History and Physics, *MRI History and Physics , Magnetic fields, T1 and T2 relaxations, nuclear spins, phase encoding, spin echo, T1 and T2 contrast,magnetic properties of metals and the historical perspective of the creation of NMR and MRI* Cleveland University - Kansas City,ACCME Joint Providership with the State University of New York at Buffalo Jacobs School of Medicine and Biomedical Sciences, Academy of Chiropractic Post-Doctoral Division, Buffalo, NY, 2023

MRI Spinal Anatomy and Protocols, *MRI Spinal Anatomy and Protocols, Normal anatomy of axial and sagittal views utilizing T1, T2, 3D gradient and STIR sequences of imaging. Standardized and desired protocols in views and sequencing of MRI examination to create an accurate diagnosis in MRI* Cleveland University - Kansas City, ACCME Joint Providership with the State University of New York at Buffalo Jacobs School of Medicine and Biomedical Sciences, Academy of Chiropractic Post-Doctoral Division, Buffalo, NY, 2023

MRI Disc Pathology and Spinal Stenosis, *MRI Disc Pathology and Spinal Stenosis, MRI interpretation of bulged, herniated, protruded, extruded, sequestered and fragmented disc pathologies in etiology and neurological sequelae in relationship to the spinal cord and spinal nerve roots.* Cleveland University - Kansas City, ACCME Joint Providership with the State University of New York at Buffalo JacobsSchool of Medicine and Biomedical Sciences, Academy of Chiropractic Post-Doctoral Division, Buffalo, NY, 2023

MRI Spinal Pathology, *MRI Spinal Pathology, MRI interpretation of bone, intradural, extradural, cord and neural sleeve lesions. Tuberculosis, droplisions, metastasis, ependymoma, schwannoma and numerous other spinal related tumors and lesions* Cleveland University -Kansas City, ACCME Joint Providership with the

State University of New York at Buffalo Jacobs School of Medicine and Biomedical Sciences, Academy of Chiropractic Post-Doctoral Division, Buffalo, NY, 2023

MRI Methodology of Analysis, *MRI interpretation sequencing of the cervical, thoracic, and lumbar spine inclusive of T1, T2, STIR and 3D gradient studies to ensure the accurate diagnosis of the region visualized* Cleveland University - Kansas City, ACCME Joint Providership with the State University of New York at Buffalo Jacobs School of Medicine and Biomedical Sciences, Academy of Chiropractic Post-Doctoral Division, Buffalo, NY, 2023

MRI Clinical Application, *MRI Clinical Application, The clinical application of the results of space occupying lesions. Disc and tumor pathologies and the clinical indications of manual and adjustive therapies in the patient with spinal nerve root and spinal cord insult as sequelae* Cleveland University - Kansas City, ACCME Joint Providership with the State University of New York at Buffalo Jacobs School of Medicine and Biomedical Sciences, Academy of Chiropractic Post-Doctoral Division, Buffalo, NY, 2023

MRI Disc Overview & Imaging Protocols, *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 sequelae, including bulge, herniation, protrusion, extrusion and sequestration* Cleveland University - Kansas City, ACCME Joint Providership with the State University of New York at Buffalo Jacobs School of Medicine and Biomedical Sciences, Academy of Chiropractic Post-Doctoral Division, Buffalo, NY, 2023

MRI Interpretation of Lumbar Bulges/Degenerative Disc Disease, *MRI Interpretation of Lumbar Degeneration/Bulges, MRI slices, views, T1, T2, STIR axial, stacking, FFE, FSE and sagittal images in the interpretation of lumbar degeneration. With the co-morbidities and complications of stenosis, pseudo-protrusions, cantilevered vertebrate, Schmorl's nodes and herniations. Central canal and cauda equina compromise interpretation with management* . Cleveland University - Kansas City, ACCME Joint Providership with the State University of New York at Buffalo Jacobs School of Medicine and Biomedical Sciences, Academy of Chiropractic Post-Doctoral Division, Buffalo, NY, 2023

MRI Interpretation of Lumbar Herniated Discs, *MRI Interpretation of Lumbar Herniations, MRI slices, views, T1, T2, STIR axial, stacking, FFE, FSE and sagittal images in the interpretation of lumbar herniations. With the co-morbidities and complications of stenosis, pseudo-protrusions, cantilevered vertebrate, Schmorl's nodes and herniations. Morphology of lumbar disc pathologies of central and lateral herniations, protrusions, extrusions, sequestration, focal and broad-based herniations are defined and illustrated. Central canal and cauda equina compromise interpretation with management* Cleveland University - Kansas City, ACCME Joint Providership with the State University of New York at Buffalo Jacobs School of Medicine and Biomedical Sciences, Academy of Chiropractic Post-Doctoral Division, Buffalo, NY, 2023

MRI Interpretation of Cervical Bulges/Degenerative Disc Disease, *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 vertebrae, Schmorl's nodes and herniations. Spinal cord and canal compromise interpretation with management. Cleveland University - Kansas City, ACCME Joint Providership with the State University of New York at Buffalo Jacobs School of Medicine and Biomedical Sciences, Academy of Chiropractic Post-Doctoral Division, Buffalo, NY, 2023

MRI Interpretation of Cervical Herniated Discs, 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 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. Spinal cord and canal compromise interpretation with management. Cleveland University - Kansas City, ACCME Joint Providership with the State University of New York at Buffalo Jacobs School of Medicine and Biomedical Sciences, Academy of Chiropractic Post-Doctoral Division, Buffalo, NY, 2023

Virtual Grand Rounds, 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 . 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, 2023

Reimbursement Guidelines and Documentation, Reimbursement Guidelines and Documentation, Advanced documentation based on clinical and testing findings that correlate to Evaluation and Management Guidelines. Evidence-Based necessity parameters for considering spinal imaging and electrodiagnostic testing. Cleveland University Kansas City, College of Chiropractic, Academy of Chiropractic Post-Doctoral Division, Long Island, NY, 2023

Orthopedic Testing: Module 1: The Basics of 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, 2023

Orthopedic Testing: Module 2: 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 the State University of New York at Buffalo Jacobs School of Medicine and Biomedical Sciences, Academy of Chiropractic Post-Doctoral Division, Buffalo, NY, 2023

Orthopedic Testing:Module 3: Cervical Spine Orthopedic Testing 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, 2023

Orthopedic Testing Module 4: 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, 2023

Orthopedic Testing Module 5: 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, 2023

Spinal Trauma Pathology 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, 2023

Spinal Trauma Pathology Module 5: Spinal Trauma Pathology, Clinical Grand Rounds, *Spinal Trauma Pathology, Clinical Grand Rounds, The review of case histories of mechanical spinepathology 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, 2023

Spinal Trauma Pathology Module 6: Spinal Trauma Pathology, Research and Documentation Review, *Spinal Trauma Pathology, Research Perspectives, The review of current literature standards in spinal traumapathology 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, 2023

Spinal Biomechanical Engineering, *Part 1-Module #1: Spinal Biomechanical Engineering: Cartesian Coordinate System The Cartesian Coordinate System from the history to the application in the human body. Explanation of the x, y and z axes in both translation and rotations (thetas) and how they are applicable to human biomechanics*. Cleveland University Kansas City, ACCME Joint Providership with the State University of New York at Buffalo Jacobs School of Medicine and Biomedical Sciences, Academy of Chiropractic Post-Doctoral Division, Buffalo, NY, 2023

Spinal Biomechanical Engineering, *Part 1-Module #2: Spinal Biomechanical Engineering: Cervical Pathobiomechanics Spinal biomechanical engineering of the cervical and upper thoracic spine. This includes the normal and pathobiomechanical movement of both the anterior and posterior motor units and normal function and relationship of the intrinsic musculature to those motor units. Nomenclature in reporting normal and pathobiomechanical findings of the spine*. Cleveland University Kansas City, ACCME Joint Providership with the State University of New York at Buffalo Jacobs School of Medicine and Biomedical Sciences, Academy of Chiropractic Post-Doctoral Division, Buffalo, NY, 2023

Spinal Biomechanical Engineering, *Part 1-Module #3: Spinal Biomechanical Engineering: Lumbar Pathobiomechanics Spinal biomechanical engineering of the lumbar spine. This includes the normal and pathobiomechanical movement of both the anterior and posterior motor units and normal function and relationship of the intrinsic musculature to those motor units. Nomenclature in reporting normal and pathobiomechanical findings of the spine*. Cleveland University Kansas City, ACCME Joint Providership with the State University of New York at Buffalo Jacobs School of Medicine and Biomedical Sciences, Academy of Chiropractic Post-Doctoral Division, Buffalo, NY, 2023

Spinal Biomechanical Engineering, *Part 1-Module #4: 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 sequelae to pathobiomechanics from trauma. The utilization of digital motion x-ray in diagnosing normal versus abnormal facet motion along with case studies to understand the clinical application*. Cleveland University Kansas City, ACCME Joint Providership with the State University of New York at Buffalo Jacobs School of Medicine and Biomedical Sciences, Academy of Chiropractic Post-Doctoral Division, Buffalo, NY, 2023

Spinal Biomechanical Engineering, *Part 2-Module #1: Spinal Biomechanical Engineering & Organizational Analysis Integrating spinal biomechanics and pathobiomechanics through digitized analysis. The comparison of organized versus disorganized compensation with regional and global compensation. Correlation of the vestibular, ocular and proprioceptive neurological integration in the righting reflex as evidenced in imaging. Digital and numerical algorithm in analyzing a spine.* Cleveland University Kansas City, ACCME Joint Providership with the State University of New York at Buffalo Jacobs School of Medicine and Biomedical Sciences, Academy of Chiropractic Post-Doctoral Division, Buffalo, NY, 2023

Spinal Biomechanical Engineering, *Part 2-Module #2: Spinal Biomechanical Engineering: Cervical Digital Analysis Digitizing and analyzing the cervical spine in neutral, flexion and extension views to diagnose pathobiomechanics. This includes alteration of motion segment integrity (AMOSI) in both angular and translational movement. Ligament instability/failure/pathology are identified all using numerical values and models. Review of case studies to analyze pathobiomechanics using a computerized/numerical algorithm.* Cleveland University Kansas City, ACCME Joint Providership with the State University of New York at Buffalo Jacobs School of Medicine and Biomedical Sciences, Academy of Chiropractic Post-Doctoral Division, Buffalo, NY, 2023

Spinal Biomechanical Engineering, *Part 2-Module #3: Spinal Biomechanical Engineering: Lumbar Digital Analysis Digitalizing and analyzing the lumbar spine images to diagnose pathobiomechanics. This includes anterior and posterior vertebral body elements in rotational analysis with neutral, left and right lateral bending in conjunction with gate analysis. Ligament instability/failure/pathology is identified all using numerical values and models. Review of case studies for analysis of pathobiomechanics using a computerized/numerical algorithm along with corrective guidelines.* Cleveland University Kansas City, ACCME Joint Providership with the State University of New York at Buffalo Jacobs School of Medicine and Biomedical Sciences, Academy of Chiropractic Post-Doctoral Division, Buffalo, NY, 2023

Spinal Biomechanical Engineering, *Part 2-Module #4: 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.* 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, 2023

Spinal Disc and Ligaments; Neurology and Pathology, *Module #1: Neurology of Ligament Pathology- Normal Morphology and Tissue Damage, Connective tissue morphology, embryology and wound repair as sequellae 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, 2023

Spinal Disc and Ligaments; Neurology and Pathology, *Module #2:Neurology of Ligament Pathology- Spinal Biomechanics and Disc Pathology, Disc pathology as sequella to trauma; herniation,extrusion, protrusion, sequestration and how the spinal unit as one system creates homeostasis to balance the pathology.*

Academy of Chiropractic, Post-Doctoral Division, Cleveland University-Kansas City, College of Chiropractic, Long Island, NY, 2023

Spinal Disc and Ligaments; Neurology and Pathology, *Module #3:Neurology of Ligament Pathology- Neurological Innervation, The peripheral and central innervation of the disc and spinalligaments of the dorsal root ganglion, spinal thalamic tracts, periaqueductal gray areas innervating the Thalamus and multipleregions of the brain. The efferent neurological distribution to disparate areas of the spine to create homeostatis until tetanusensues creating osseous changes under the effect of Wolff's Law.* Academy of Chiropractic, Post-Doctoral Division, ClevelandUniversity-Kansas City, College of Chiropractic,, Long Island, NY, 2023

Impairment Rating, *Impairment Rating, The understanding and utilization of the protocols and parameters of the AMA Guide to the Evaluation of Permanent Impairment 6th Edition. Spine, neurological sequelae, migraine, sexual dysfunction, sleep and arousal disorders, station and gait disorders and consciousness are detailed for impairment rating. Herniated discs, radiculopathy, fracture, dislocation and functional loss are also detailed in relation to impairment ratings.* Cleveland University - Kansas City, ACCMEJoint 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, 2023

Accident Reconstruction: Module #1, *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, Academy of Chiropractic Post-Doctoral Division, Long Island , NY, 2023

Accident Reconstruction: Module #2, *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, Academy of Chiropractic Post-Doctoral Division, Long Island, Long Island, NY, 2023

Accident Reconstruction: Module #3, *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, Academy of Chiropractic Post-Doctoral Division, Long Island, NY, 2023

Accident Reconstruction: Module #4, *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, Academy of Chiropractic Post-Doctoral Division, Long Island, NY, 2023

Primary Spine Care 15: Ethics, Streamlining Documentation & Case Management Webinar, *Primary Spine Care 15: Advanced MRI and X-Ray Documentation in Clinical Practice, Interpreting and utilizing X-ray and MRI findings in creating demonstrative documentation. Advanced identification of spinal disc lesions, herniations, bulges, protrusion, extrusion, and fragmentations through computer graphics. Identification and demonstrative documentation of vertebral motor unit pathology and reporting demonstratively using computer graphics.* PACE Recognized by The Federation of Chiropractic Licensing Boards, Academy of Chiropractic Post-Doctoral Division, Buffalo, NY, 2023

Primary Spine Care 15: Ethics, Streamlining Documentation & Case Management Webinar, *Primary Spine Care 15; Advanced MRI Interpretation in Clinical Practice, Utilization of thin slice acquisitions with T2 Fat suppressed, STIR, proton density, T1 and T2 sequencing for advanced identification of spinal disc lesions, herniations, bulges, protrusion, extrusion, and fragmentations. Better visualization of intradural and extradural lesions, neoplasms, and infections.* PACE Recognized by The Federation of Chiropractic Licensing Boards, Academy of Chiropractic Post-Doctoral Division, Buffalo, NY, 2023

Primary Spine Care 15: Ethics, Streamlining Documentation & Case Management Webinar, *Primary Spine Care 15; Ethics in Clinical Practice, Ethical, collaborative relationships with medical PCPs and specialists using advanced documentation and accurate reporting of imaging and advanced imaging. Creating a collegial relationship when conflicts arise in concluding accurate diagnosis to allow consensus and the evidence to determine final diagnosis.* PACE Recognized by The Federation of Chiropractic Licensing Boards, Academy of Chiropractic Post-Doctoral Division, Buffalo, NY, 2023

Primary Spine Care 15: Ethics, Streamlining Documentation & Case Management Webinar, *Primary Spine Care 15; Spinal CAT Scan Interpretation, Understanding the utilization of CAT Scan slicing and the reformatting when using bone and soft tissue windows. Correlating MRI to CAT Scan when either creates an unclear conclusion to render a complete image of the morphology of the indeterminate pathology. Understanding the physics of CAT Scan and the radiation levels with different types of CAT Scan technology.* PACE Recognized by The Federation of Chiropractic Licensing Boards, Academy of Chiropractic Post-Doctoral Division, Buffalo, NY, 2023

Primary Spine Care 15: Ethics, Streamlining Documentation & Case Management Webinar, *Primary Spine Care 15; Connective Tissue/Strain Sprain Pathology, Understanding the morphology and physiology of connective tissue at the cellular and extra-cellular levels in building a foundation to understanding the function and interaction of ligaments, tendons, muscles, and bones, Identifying connective tissue pathology and the repair process with a foundation of permanent aberrant sequella.* PACE Recognized by The

Federation of Chiropractic Licensing Boards, Academy of Chiropractic Post-Doctoral Division, Buffalo, NY, 2023

Primary Spine Care 15: Ethics, Streamlining Documentation & Case Management Webinar, *Primary Spine Care 15; Advanced Spinal Biomechanical Engineering, Understanding the concepts of normal vs. pathological movement of vertebral motor units in accurately concluding diagnosis on biomechanical pathology when considering excessive motion. An evidence-based approach to determining translation, angular deviation and rotations beyond pathobiomechanical limitations in the spine* PACE Recognized by The Federation of Chiropractic Licensing Boards, Academy of Chiropractic Post-Doctoral Division, Buffalo, NY, 2023

Primary Spine Care 15: Ethics, Streamlining Documentation & Case Management Webinar, *Primary Spine Care 15; Trends in Spinal Care, An evidence-based approach to concluding accurate diagnosis, prognosis, and treatment plan, Eradicating the non-specific back pain dogma utilizing X-ray digitizing based on literature standards, Creating treatment plans with identifying the primary spinal lesions using evidence-based tools.* PACE Recognized by The Federation of Chiropractic Licensing Boards, Academy of Chiropractic Post-Doctoral Division, Buffalo, NY, 2023

Primary Spine Care 15: Ethics, Streamlining Documentation & Case Management Webinar, *Primary Spine Care 15; Documentation in Clinical Practice, Understanding and including all historical elements; current history, past history, family history, and social history when documenting a 99201, 99202, 99203, 99204, and 99205. The application of time as the prime element as per Medicode in coding examinations and re-examination with face to face, review of records and the time necessary to document in an electronic health record.* PACE Recognized by The Federation of Chiropractic Licensing Boards, Academy of Chiropractic Post-Doctoral Division, Buffalo, NY, 2023

Primary Spine Care 13: Documentation, Diagnosis & Management Online,, *MRI Spine Advanced Clinical Case Grand Rounds, Clinical case review of MRI including intra and extra-dural findings inclusive of the disc and vascular anatomical lesions. Differentially diagnosing central cord lesions, and spinal cord vascular lesions in both acute trauma and degenerative presentations.* 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, 2022

Primary Spine Care 13: Documentation, Diagnosis & Management Online,, *Non-Specific Spine Pain, Chiropractic and Outcomes, Analyzing neuro-biomechanical pathological lesions defines primary spinal lesions and removes the dogma of non-specific back pain. Creating evidence-based demonstrative documentation in the creation of treatment plans.* 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, 2022

Primary Spine Care 13: Documentation, Diagnosis & Management Online,, *Spinal Tumor MRI Interpretation, Diagnosing and documenting: Ependymoma, Astrocytoma, Hemangioblastoma, Lipoma, Meningioma, Neurofibroma, Schwannoma, Myxopapillary Ependymoma*. 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, 2022

Primary Spine Care 13: Documentation, Diagnosis & Management Online,, *Demonstrative Narrative and Evaluation and Management Report Writing, Clinical record-keeping, why write clinical notes, the importance of context, what to include in a clinical note, tips for better clinical documentation, basic legal considerations, open clinical notes, how to keep documentation efficient*. 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, 2022

Primary Spine Care 13: Documentation, Diagnosis & Management Online,, *Age-Dating Ligament/Connective Tissue Physiology and Pathology, Utilizing pain patterns, the high signal in the annulus, high signal outside the annulus, Modic changes, disc height, vacuum disc, sclerosis, Phirrmann rating, facet edema, and previous MRIs to determine the chronicity of 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*. 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, 2022

Primary Spine Care 13: Documentation, Diagnosis & Management Online,, *Clinical Grand Rounds in Biomechanics, Digitizing, and Advanced Imaging: Case reviews concluding and accurate diagnosis, prognosis, and treatment plan utilizing evidence-based instrumentation and algorithms. Using demonstrative reporting of case findings to collaborate with co-treating physicians*. 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, 2022

Primary Spine Care 13: Documentation, Diagnosis & Management Online,, *Medical-Legal Documentation: A documentation discussion on meeting the requirements of the courts, carriers, and licensure boards in complete and accurate reporting. Ensuring the diagnosis, prognosis, and treatment plan are demonstratively documented*. 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, 2022

Dry Needling Application , *Dry needling application for pain reduction and patient mangement. Managing herniated trigger points with monofilament needling insertion* Certification in Dry Needling Application

requirements for state of Ohio, Fetterman Events , Pace Program of Federation of Chiropractic Licensing Boards, Charlotte, Mi, 2022

Acupuncture, *Course of study in the practical use and application of the principles of Acupuncture and with demonstration to the Executive Board a quality of excellence as shown by successfully completion of all prerequisite requirements and having sat for the examination* Certification in FELLOW, Fellowship in F.I.A.C.A. from The International Academy of Clinical Acupuncture, FIACA, Columbus, Ohio, 1996-1996

Permanent Medical Impairment, *Course provided a master's certification in the performance of the A.M. A. permanent Medical Impairment Examination and Credible Medical Fact Finding.* Certification in Permanent Impairment Examination, Medical / Legal Consultants Association, Inc., Orlando, Florida, 1996

SELECTED TEACHING/INSTRUCTING/LECTURING/CONSULTING

Instructor, Foundational Marketing Systems Inside the Office, American Chiropractic Association, Washington, District of Columbia, 2022- Present

Instructor-Ohio License Renewal, Chiropractic Boot Camp -Where Research Meets Marketing, Ohio Chiropractic Foundation, Columbus, Ohio, 2006- 2009

SELECTED PUBLICATIONS

Sheely, R., Poortinga, G., McMichael, R. (1991). Reliable standards of care are determined by consensus of those who provide that care.. *J Manipulative Physiol Ther*, 14((3)), PMID: 1822087 - 217-221.

SELECTED ADVANCED EDUCATION

FELLOW - International Academy of Clinical Acupuncture, I.A.C.A., 1996.

FELLOW - International College of Chiropractic, I.C.C., 2003.

FELLOWSHIP CANDIDATE - Primary Spine Care , Academy of Chiropractic ., 2022.

SELECTED MEMBERSHIPS

American Academy of Legal Medicine, Member, 2023 - Present

Academy of Chiropractic - success through clinical excellence, member, 2016 - Present

Southwestern Ohio Chiropractic Association, Treasurer, 1991 - Present

American Chiropractic Association, ACA Ohio Delegate, 1981 - Present

Ohio State Chiropractic Association, President and Executive Board, 1981 - Present

SELECTED HONORS AND AWARDS

Flynn Lynch Sr. Memorial Award, American Chiropractic Association , 2011

Small Business of the Year, Miami Valley Chamber of Commerce, 1995

Chiropractor of the Year, Ohio State Chiropractic Association, 1991

President's Award, Ohio State Chiropractic Association, 1989

Outstanding Contribution To Profession, Ohio State Chiropractic Association, 1989

Unselfish and Dedicated Service, Presidents Award - Ohio State Chiropractic Association, 1988