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SELECTED OCCUPATIONAL HISTORY

Clinic Director, Chiropractor, Back to Wellness Chiropractic, Edmond, Oklahoma, 2012 - Present

Chiropractor, Edwards Clinic of Chiropractic, Edmond, Oklahoma, 2009 – 2012

EDUCATION AND LICENSURE

Doctor of Chiropractic, Licensed in the State of Oklahoma, License # 3929, 2009-Present

Doctor of Chiropractic, Logan College of Chiropractic, Chesterfield, Missouri, 2009

Internship, Montgomery Health Centers, Chesterfield, Missouri, 2008 - 2009

National Board of Chiropractic Examiners, Part I, 2007

National Board of Chiropractic Examiners, Part II, 2007

National Board of Chiropractic Examiners, Part III, 2007

National Board of Chiropractic Examiners, Part IV, 2008

National Board of Chiropractic Examiners, Physiotherapy, 2007

Bachelor of Science in Life Science, Logan College of Chiropractic, Chesterfield, Missouri, 2006

Undergraduate Studies in Pre-Professional Health, Northeastern State University,
Tahlequah, Oklahoma, 2001 - 2005

SELECTED POST-GRADUATE EDUCATION, CERTIFICATIONS AND DIPLOMATES

DNS- Dynamic Neuromuscular Stabilization: Part C, Course Goals and Description-
Introduce advanced assessment methods – the integrated stabilizing system, locomotor stereotypes, respiratory stereotype. Describe the kinesiology of muscle chains involved in locomotion: stepping forward and supporting function. Discuss and workshop assessment and treatment of the pelvic girdle and hip joint: phylogenetic and ontogenetic aspects, anatomical parameters from developmental perspective, the most common pathological conditions – femoroacetabular impingement syndrome, arthritis, DNS assessment and treatment procedures. Discuss and workshop assessment and treatment of the shoulder girdle: phylogenetic and ontogenetic aspects, anatomical parameters from developmental perspective, DNS assessment and treatment in shoulder girdle disorders - hemiplegic shoulder, frozen shoulder, impingement syndrome, SLAP lesion. Discuss and workshop assessment and treatment of scoliosis: definition and classification, ontogenetic aspects leading to scoliotic development, risk factors, spine control in motor development, assessment of infants and adults with scoliosis and body asymmetry, bracing and DNS treatment positions and strategies. Discuss and workshop assessment and treatment of pelvic floor issues and women’s health: pelvic floor muscle function from developmental perspective; associated kinesiology between diaphragm and pelvic floor; typical postural disturbances, functional trigger point chains, joint dysfunction and hypersensitive zones in gynaecological diagnoses; DNS assessment and rehabilitation for stress incontinence, anorectal dysfunction, amenorrhea and dysmenorrhea, functional sterility, pelvic organ prolapse and pelvic pain syndromes, vertebral-visceral relationships; rehabilitation for pregnant females. Cover general DNS self-treatment advanced techniques. Provide more complex clinical management explanation for clinicians to better integrate more advanced DNS protocols into regular practice. Certification in DNS Part C, Gestalt Education, Prague School of Manual Medicine, St. Louis, MO, 2023

DNS- Dynamic Neuromuscular Stabilization: Part B, Course Objectives and description-
Demonstrate an understanding of developmental kinesiology and its relationship with

pathology of the locomotor system: review theory covered in the A course and introduce more advanced theory, namely the verticalization process. Describe the basis for primitive reflexes and postural reactions and their roles in developmental kinesiology. Introduce basic information about reflex locomotion according to Vojta. Perform demonstration of assessments of babies: attendees will be able to recognize ideal and disturbed locomotor patterns and determine developmental age of the babies. Demonstrate and teach proper handling of infants. Demonstration application of DNS assessment and treatment in adult patients with pain and dysfunction within the locomotor system – stabilization assessment and treatment strategy. Postural analysis & testing of integrated spinal stabilization system – review of Course A tests and introduction to additional, advanced tests. Integration of corrective exercises based on newly taught DNS functional tests. Exercise in differentiated ipsilateral and contralateral static positions, position transfer during locomotor function, exercise progression using unstable surface, resistance against “planned movement”, dual tasking and other challenges both in ipsi and contralateral patterns, transition between ipsilateral and contralateral patterns, training of isolated segmental movement Introduction to cortical functioning – body scheme, quality of relaxation, isolated segmental movements. Provide more complex clinical management explanation for clinicians to better integrate more advanced DNS protocols into clinical practice. Certification in DNS Part B, Gestalt Education, Prague School of Manual Medicine, St. Louis, MO, 2023

DNS- Dynamic Neuromuscular Stabilization: Part A, Course Goals and Description- Improve understanding of the basic principles of developmental kinesiology with an emphasis on development during the first year of life Identify and describe key milestones in human development. Introduce the three level of sensorimotor control in functional assessment and treatment. Demonstrate the relationship between development during the first year of life and pathology of the locomotor system in adulthood Introduce new terminology pertinent to rehabilitation such as functional joint centration, punctum fixum, punctum mobile and the integrated stabilizing system of the spine. Define ideal postural stabilization from a developmental perspective: intra-abdominal pressure regulation, dual role of the diaphragm in stabilization and respiration, stabilization via co-contraction. Identify common stereotypes of faulty postural stabilization (“open scissors syndrome”, forward drown posture, backward drown posture, “hour glass syndrome”). Explain and demonstrate biomechanics of undifferentiated, ipsilateral and contralateral postural locomotion patterns; closed and opened kinematic chains, stepping forward and supporting function. Evaluate and correct poor respiratory patterns. Demonstrate the correlation between poor respiration patterns and functional pathology of the locomotor

system. Assess the integrated stabilizing system of the spine both visually and utilizing dynamic functional tests. Integrate corrective exercises based on the DNS functional tests and developmental positions: exercise in undifferentiated static positions; position transfer during locomotor function; exercise progression using unstable surfaces; increased difficulty of the exercises utilizing resistance, dual tasking and other challenges. Clarify how DNS corrective exercises can integrate with other exercise strategies. Certification in DNS Part A, Gestalt Education, Prague School of Manual Medicine, St. Louis, MO, 2023

DNS- Dynamic Neuromuscular Stabilization: Exercise 2, Course objectives- review of developmental kinesiology in the context of adult optimal posture, sports performance, and global motor patterns to enhance outcomes in sport and human movement. Demonstrate exercises in higher developmental positions – tripod, bear, squat, lunge, step up and its modifications & training of body awareness. Demonstrate exercises utilizing the principles of developmental kinesiology with elastic bands, barbells, weights, and gym ball. Discuss & demonstrate DNS exercises for specific sport techniques: throwing, jumping, stroke, skating etc., Gestalt Education, Prague School of Manual Medicine, Boca Raton, FL, July 2022

DNS- Dynamic Neuromuscular Stabilization: Exercise 1, Course objectives is to demonstrate an understanding of the basic principles of developmental kinesiology and correlates the relationship between development during the first year of life and dysfunction of the locomotor system in adulthood. Discuss and demonstrate the basis of human movement: support, stepping forward, the biomechanics of motor function, the verticalization process & functional joint centration in postural development. Evaluate and correct poor respiratory patterns. Assess the integrated stabilizing system of the spine both visually and utilizing dynamic functional tests. Integrate corrective exercises based on the DNS functional tests and developmental positions in supine, prone, low kneeling, oblique sit, and quadruped global movements. Demonstrate how DNS corrective exercises can be integrated with other exercise strategies, Gestalt Education, Prange School of Manual Medicine, Austin, TX, February 2022

MDT- Mechanical Diagnosis and Therapy: Cervical/ Thoracic spine Part B, an introduction to the concepts and applications of the McKenzie Method® of Mechanical Diagnosis and Therapy® (MDT) focusing on the cervical and thoracic spine. Certification in MDT Part B

Cervical and Thoracic Spine, McKenzie Institute USA, McKenzie Institute USA, 6 week Online course, 2022

FAKTR: Peripheral Nerve Entrapment, The PNE course will differentiate the symptoms of a peripheral nerve entrapment from any of the multiple differential diagnoses that can cause similar symptoms. The course will review various assessments to assist you in identifying PNE including: Functional Assessments, Differential Diagnosis, Motor Assessments and Sensory Assessments. Once PNE's are identified within the FAKTR Rehab System framework of assessment and treatment, this course will help practitioners identify when to use Instrument-Assisted and Manual Therapy Techniques, Dynamic and Static Cupping, Joint Compression Flossing and/ or Neurodynamic Motion and Therapeutic Exercise Southeast Sports Seminars, Online Course, 2021,

SFMA- Specific Functional Movement Assessment Level 2, SFMA level 2 introduces the diagnostic flowchart for mobility dysfunctions as well as research surrounding the concept of Motor Learning. The SFMA identifies the region of dysfunction. This Level 2 content will organize your local examination for efficiency and targeted intervention. The motor learning principles presented will provide a foundation for rebuilding patterns for long term retention for your patient's movement health. Certification in SFMA level 2- Specific Functional Movement Assessment , Functional Movement Systems- FMS, Functional Movement Systems- FMS, Online Certification, 2021,

MDT- Mechanical Diagnosis and Therapy: Lumbar Spine- Part A, an introduction to the concepts and applications of the McKenzie Method® of Mechanical Diagnosis and Therapy® (MDT) focusing on the lumbar spine. Certification in MDT: Lumbar Spine- Part A, McKenzie Institute USA, McKenzie Institute USA, 6 week Online Course, 2021

SFMA- Specific Functional Movement Assessment Level 1, SFMA is a movement based diagnostic system which systematically finds the cause of pain - not just the source - by logically breaking down dysfunctional movement patterns in a structured, repeatable assessment. Certification in SFMA level 1- Specific Functional Movement Assessment , Functional Movement Systems- FMS, Online Certification, 2020,

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, PACE Recognized by the Federation of Chiropractic Licensing Boards, Academy of Chiropractic, Post-Doctoral Division, Long Island, New York, 2019,

Evaluation and Management, Concluding a chief complaint, history and what needs to be considered in a physical examination. This covers in depth the required elements for chief complaint, 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, PACE Recognized by the Federation of Chiropractic Licensing Boards, Academy of Chiropractic, Post-Doctoral Division, Long Island, New York, 2019,

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, PACE Recognized by the Federation of Chiropractic Licensing Boards, Academy of Chiropractic, Post-Doctoral Division, Long Island, New York, 2019,

Clinical Applications of Pain Science, Pain Science shows that pain is a volatile, complex sensation that is thoroughly tuned by the brain. It functions as an overprotectively exaggerated warning, so much so that sensitization (a false alarm tendency) often becomes more serious and chronic than the original problem. This course covers assessments, patient education, treatment plans, co-management, treatment application, rehab strategies as well as patient discharge and management. FTCA-Forward Thinking Chiropractic Alliance, Dallas, TX, 2019,

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, PACE Recognized by the Federation of Chiropractic Licensing Boards, Academy of Chiropractic, Post-Doctoral Division, Long Island, New York, 2019,

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, PACE Recognized by the Federation of Chiropractic Licensing Boards, Academy of Chiropractic, Post-Doctoral Division, Long Island, New York, 2019,

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, PACE Recognized by the Federation of Chiropractic Licensing Boards, Academy of Chiropractic, Post-Doctoral Division, Long Island, New York, 2019,

Certification in Evaluation and Management, Cleveland University, Kansas City, PACE Recognized by the Federation of Chiropractic Licensing Boards, Academy of Chiropractic, Post-Doctoral Division, Long Island, New York, 2019,

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

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

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

FAKTR- Functional and Kinetic Treatment with Rehabilitation, FAKTR incorporates the latest research and evidence-based soft-tissue techniques into a comprehensive rehabilitation system to treat common musculoskeletal disorders and complicated injuries. The concept incorporates, various manual and instrument-assisted soft tissue mobilization techniques (IASTM), cupping, joint compression flossing, visual queuing of proprioceptive movement, active rehabilitation with therapeutic exercise, functional movement training and bioMechanical Taping. Certification in FAKTR- Functional and Kinetic Treatment with Rehabilitation, Southeast Spots Seminars, St Louis, MO, 2018,

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. There is an emphasis on triaging both the trauma and non-trauma patients. Certification in Patient Intake, History and Physical Examination, Texas Chiropractic College, Academy of Chiropractic Post-Doctoral Division, Texas Chiropractic College, Academy of Chiropractic Post-Doctoral Division, Long Island, New York, 2017,

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. Texas Chiropractic College, 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, New York, 2017,

Spinal Biomechanical Engineering: Cervical Pathobiomechanics , Spinal biomechanical engineering of the cervical and upper thoracic spine. This includes the normal and pathobiomechanical movement of both the anterior and posterior motor units and normal function and relationship of the intrinsic musculature to those motor units. Nomenclature in reporting normal and pathobiomechanical findings of the spine. Texas Chiropractic College, 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, New York, 2017,

Spinal Biomechanical Engineering: Lumbar Pathobiomechanics, Spinal biomechanical engineering of the lumbar spine. This includes the normal and pathobiomechanical movement of both the anterior and posterior motor units and normal function and relationship of the intrinsic musculature to those motor units. Nomenclature in reporting normal and pathobiomechanical findings of the spine. Texas Chiropractic College, 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, New York, 2017,

Spinal Biomechanics in Trauma, To utilize whiplash associated disorders in various vectors of impact and whiplash mechanisms in determining pathobiomechanics. To clinically correlate annular tears, disc herniations, fractures, ligament pathology and spinal segmental instability as sequellae to pathobiomechanics from trauma. The utilization of digital motion x-ray in diagnosing normal versus abnormal facet motion along with case studies to understand the clinical application. Texas Chiropractic College, 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, New York, 2017,

Spinal Biomechanical Engineering & Organizational Analysis , Integrating spinal biomechanics and pathobiomechanics through digitized analysis. The comparison of organized versus disorganized compensation with regional and global compensation. Correlation of the vestibular, ocular and proprioceptive neurological integration in the righting reflex as evidenced in imaging. Digital and numerical algorithm in analyzing a spine. Texas Chiropractic College, 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, New York, 2017,

Spinal Biomechanical Engineering: Cervical Digital Analysis , Digitizing and analyzing the cervical spine in neutral, flexion and extension views to diagnose pathobiomechanics. This includes alteration of motion segment integrity (AMOSI) in both angular and translational movement. Ligament instability/failure/pathology are identified all using numerical values and models. Review of case studies to analyze pathobiomechanics using a computerized/numerical algorithm. Texas Chiropractic College, 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, New York, 2017,

Spinal Biomechanical Engineering: Lumbar Digital Analysis, Digitalizing and analyzing the lumbar spine images to diagnose pathobiomechanics. This includes anterior and posterior vertebral body elements in rotational analysis with neutral, left and right lateral bending in conjunction with gate analysis. Ligament instability/failure/pathology is identified all using numerical values and models. Review of case studies for analysis of pathobiomechanics using a computerized/numerical algorithm along with corrective guidelines. Texas Chiropractic College, 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, New York, 2017,

Spinal Biomechanical Engineering: Full Spine Digital Analysis, Digitalizing and analyzing the full spine images to diagnose pathobiomechanics as sequellae to trauma in relation to ligamentous failure and disc and vertebral pathology as sequellae. This includes anterior and posterior vertebral body elements in rotational analysis with neutral, left and right lateral bending in conjunction with gate analysis. Ligament instability/failure/pathology is identified all using numerical values and models. Review of case studies for analysis of pathobiomechanics using a computerized/numerical algorithm along with corrective guidelines. Texas Chiropractic College, 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, New York, 2017,

Certification in Spinal Biomechanical Engineering, Texas Chiropractic College, 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, New York, 2017,

Evidence Based Spine Care, Epidemiology of spine care, the opioid epidemic and spinal manipulation for pain management. Functional neuroanatomy and neurochemistry of pain perception, including descending modulation of pain in the central nervous system. Review of specific research outlining spinal manipulations influence on the central nervous system in the spine pain patient. Clinical assessment and interprofessional communications relating to the diagnosis and management of the mechanical spine pain patient. Academy of Chiropractic, Academy of Chiropractic, Recognized by the PACE Program of the Federation of Chiropractic Licensing Boards, Dallas, Texas, 2017,

Evidence Based Spine Care, Spinal biomechanics and response to trauma. Detailed review of spinal instability, mechanical spine trauma and global spinal biomechanical balance. The influence of spinal sagittal curvature, pelvic incidence, sacral slope and pelvic tilt on conservative and surgical care outcomes. Clinical correlation with radiographic and advanced imaging findings specific to the spine pain patient. Academy of Chiropractic,

Academy of Chiropractic, Recognized by the PACE Program of the Federation of Chiropractic Licensing Boards, Dallas, Texas, 2017,

Evidence Based Spine Care, Coordination of care and clinical documentation associated with interprofessional communication. Focus on the safety of chiropractic management of the spine pain patient and review of research related to specific phases of care, acute intervention, corrective care and health maintenance care were reviewed. Documentation and workflows related to an interprofessional team approach focusing on compliance and delivery in the modern practice environment. Academy of Chiropractic, Academy of Chiropractic, Recognized by the PACE Program of the Federation of Chiropractic Licensing Boards, Dallas, Texas, 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. Certification in Medical-Legal-Insurance Documentation, Texas Chiropractic College, Academy of Chiropractic Post-Doctoral Division, Texas Chiropractic College, Academy of Chiropractic Post-Doctoral Division, Long Island, New York, 2017,

Spinal Trauma Pathology, Triage and Connective Tissue Injuries and Wound Repair, Triaging the injured and differentially diagnosing both the primary and secondary complaints. Connective tissue injuries and wound repair morphology focusing on the aberrant tissue replacement and permanency prognosis potential. Texas Chiropractic College, 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, 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, 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 grey matter, thalamus and cortices involvement. Texas Chiropractic College, 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 sequelae from trauma and the comorbidity of ligamentous pathology. Age-dating spinal disc pathology in accordance with Wolff's Law. Texas Chiropractic College, 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,

Certification in Spinal Trauma Pathology, Texas Chiropractic College, 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 Part 1 , Brain Vascular Anatomy, The anatomy and physiology of the brain and how blood perfusion effects brain function. A detailed analysis of the blood supply to the brain and the physiology of ischemia. Texas Chiropractic College, 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 Part 2, 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, 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, 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 & 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, 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,

Certification in Stroke Anatomy and Evaluation for Chiropractors and Manual Medicine Specialists, Texas Chiropractic College, 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,

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, New York, 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, New York, 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, New York, 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, New York, 2017,

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, Academy of Chiropractic Post-Doctoral Division, Long Island, New York, 2017,

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, Academy of Chiropractic Post-Doctoral Division, Long Island, New York, 2017,

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, Academy of Chiropractic Post-Doctoral Division, Long Island, New York, 2017,

Primary Spine Care - Contemporary Spine Research and Documentation, Central nervous system connection and the thalamus, hypothalamus connection in both ascending and descending central pat Texas Chiropractic College Graduate Doctoral Program, Academy of Chiropractic Post-Doctoral Division, Long Island, 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. Certification in Interprofessional Hospital Based Spine Care, Texas Chiropractic College, Academy of Chiropractic Post-Doctoral Division, Texas Chiropractic College, Academy of Chiropractic Post-Doctoral Division, Long Island, New York, 2017,

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, New York, 2017,

Connective Tissue Pathology and Research, Primary Spine Care, Utilization in spinal models considering the opioid abuse and various spinal models in contemporary health care. Care paths for mechanical spine pain and the evidence for conservative chiropractic care, Academy of Chiropractic Post-Doctoral Division, Texas Chiropractic College, Long Island, New York, 2017,

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, New York, 2017,

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, New York, 2017,

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. Certification in Impairment Rating, 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, New York, 2016,

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. Texas Chiropractic College, 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, New York, 2016,

Cervical Spine 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, 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, New York, 2016,

Orthopedic Testing: Lumbar Spine, 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, 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, New York, 2016,

Orthopedic Testing: Clinical Grand Rounds, 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. Texas Chiropractic College, 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, New York, 2016,

Certification in Orthopedic Testing, Texas Chiropractic College, 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, New York, 2016,

Evidenced Based Interprofessional Collaboration- Primary Spine Care, Chiropractic as Primary spine care based upon the literature conclusions and the documentation requirements to support those conclusions in an ethical collaborative environment inclusive of hospitals, emergency rooms, primary care medical doctors and medical

specialists. Academy of Chiropractic, PACE Recognized by the Federation of Chiropractic Licensing boards, Texas Chiropractic College, Las Vegas, Nevada, 2015,

MRI Spine Interpretation and Spinal Biomechanical Engineering-Primary Spine Care, Correlating spinal biomechanics secondary to trauma and MRI findings inclusive of herniation, bulging, protruded and extruded discs. Correlating co-efficient of forces translated from the bullet vehicle to the target vehicle to the occupant in determining causality of bodily injury. Academy of Chiropractic, PACE Recognized by the Federation of Chiropractic Licensing boards, Texas Chiropractic College, Las Vegas, Nevada, 2015,

Contemporary Literature Review of the Chiropractic Adjusting Mechanisms- Primary Spine Care, The latest scientific evidence of the effects of the chiropractic spinal adjustment on the central nervous system, both upper and lower motor neurons. A comparative analysis of chiropractic vs. other modalities and therapies. Academy of Chiropractic, PACE Recognized by the Federation of Chiropractic Licensing boards, Texas Chiropractic College, Las Vegas, Nevada, 2015,

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. Academy of Chiropractic Post Doctoral Division, Recognized by the PACE Program of the Federation of Chiropractic Licensing Boards, Long Island, New York, 2013,

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 Academy of Chiropractic Post Doctoral Division, Recognized by the PACE Program of the Federation of Chiropractic Licensing Boards, Long Island, New York, 2013,

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. Academy of Chiropractic Post Doctoral Division, Recognized by the PACE Program of the Federation of Chiropractic Licensing Boards, Long Island, New York, 2013,

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. Academy of Chiropractic Post Doctoral Division, Recognized by the PACE Program of the Federation of Chiropractic Licensing Boards, Long Island, 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), 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. Academy of Chiropractic Post Doctoral Division, Recognized by the PACE Program of the Federation of Chiropractic Licensing Boards, Long Island, New York, 2013,

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. Academy of Chiropractic Post Doctoral Division, Recognized by the PACE Program of the Federation of Chiropractic Licensing Boards, Long Island, New York, 2013,

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 kinesio pathology, myopathology, neuropathology, and pathophysiology in both a functional and structural

paradigm. Academy of Chiropractic Post Doctoral Division, Recognized by the PACE Program of the Federation of Chiropractic Licensing Boards, Long Island, New York, 2013,

Triaging the Trauma and Non-Trauma Patients, Correlating clinical findings and the patient history in determining the correct course of care in triaging the patient utilizing orthopedic and neurological evaluations in the clinical setting. Understanding the parameters for immediate referrals vs. following the continuum of care to determine the necessity for referrals. Academy of Chiropractic Post Doctoral Division, Recognized by the PACE Program of the Federation of Chiropractic Licensing Boards, Long Island, New York, 2013,

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. ACCME Joint Sponsorship with the State University of New York at Buffalo, School of Medicine and Biomedical Sciences, Academy of Chiropractic Post Doctoral Division, Recognized by the PACE Program of the Federation of Chiropractic Licensing Boards, Buffalo, New York, 2013,

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. ACCME Joint Sponsorship with the State University of New York at Buffalo, School of Medicine and Biomedical Sciences, Academy of Chiropractic Post Doctoral Division, Recognized by the PACE Program of the Federation of Chiropractic Licensing Boards, Buffalo, New York, 2013,

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. ACCME Joint Sponsorship with the State University of New York at Buffalo, School of Medicine and Biomedical Sciences, Academy of Chiropractic Post Doctoral Division, Recognized by the PACE Program of the Federation of Chiropractic Licensing Boards, Buffalo, New York, 2013,

MRI Spinal Pathology, 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. ACCME Joint Sponsorship with the State University of New York at Buffalo, School of Medicine and Biomedical Sciences, Academy of Chiropractic Post Doctoral Division, Recognized by the PACE Program of the Federation of Chiropractic Licensing Boards, Buffalo, New York, 2013,

MRI Methodology of Analysis, 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. ACCME Joint Sponsorship with the State University of New York at Buffalo, School of Medicine and Biomedical Sciences, Academy of Chiropractic Post Doctoral Division, Recognized by the PACE Program of the Federation of Chiropractic Licensing Boards, Buffalo, New York, 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 adjustive therapies in the patient with spinal nerve root and spinal cord insult as sequelae. ACCME Joint Sponsorship with the State University of New York at Buffalo, School of Medicine and Biomedical Sciences, Academy of Chiropractic Post Doctoral Division, Recognized by the PACE Program of the Federation of Chiropractic Licensing Boards, Buffalo, New York, 2013,

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.[ACCME Joint Sponsorship with the State University of New York at Buffalo, School of Medicine and Biomedical Sciences, Academy of Chiropractic Post Doctoral Division, Recognized by the PACE Program of the Federation of Chiropractic Licensing Boards, Buffalo, New York, 2013,

MRI Interpretation of Lumbar Bulges/Degenerative Disc Disease , 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. ACCME Joint Sponsorship with the State University of New York at Buffalo, School of Medicine and Biomedical Sciences, Academy of Chiropractic Post Doctoral Division, Recognized by the PACE Program of the Federation of Chiropractic Licensing Boards, Buffalo, New York, 2013,

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 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. ACCME Joint Sponsorship with the State University of New York at Buffalo, School of Medicine and Biomedical Sciences, Academy of Chiropractic Post Doctoral Division, Recognized by the PACE Program of the Federation of Chiropractic Licensing Boards, Buffalo, New York, 2013,

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 lumbar 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. ACCME Joint Sponsorship with the State University of New York at Buffalo, School of Medicine and Biomedical Sciences, Academy of Chiropractic Post Doctoral Division, Recognized by the PACE Program of the Federation of Chiropractic Licensing Boards, Buffalo, New York, 2013,

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 comorbidities 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. ACCME Joint Sponsorship with the State University of New York at Buffalo, School of Medicine and Biomedical Sciences, Academy of Chiropractic Post Doctoral Division, Recognized by the PACE Program of the Federation of Chiropractic Licensing Boards, Buffalo, New York, 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 spondylolesthesis, spinal canal s, ACCME Joint Sponsorship with the State University of New York at Buffalo, School of Medicine and Biomedical Sciences, Academy of Chiropractic Post Doctoral Division, Recognized by the PACE Program of the Federation of Chiropractic Licensing Boards, Buffalo, New York, 2013,

Spinal Biomechanical Engineering Principles and Application, Integrating spinal biomechanics and pathobiomechanics through digitized analysis. The comparison of organized versus disorganized compensation with regional and global compensation. Advanced analysis and integration of pathobiomechanics as sequella to trauma in clinical practice and documentation. 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, Recognized by the PACE Program of the Federation of Chiropractic Licensing Boards, Las Vegas, Nevada, 2013,

Evidenced Based Practice, Integrating indexed peer reviewed research as evidence into clinical practice related to trauma and the creation of a diagnosis, prognosis and treatment plan 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, Recognized by the PACE Program of the Federation of Chiropractic Licensing Boards, Las Vegas, Nevada, 2013,

Integrating Clinical Findings in Admissible Documentation, Combining clinical, radiographic, electrodiagnostic and MRI findings to conclude a diagnosis and reporting accurately through admissible documentation. Diagnosis includes head, spine and disc pathology as sequella to trauma 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, Recognized by the PACE Program of the Federation of Chiropractic Licensing Boards, Las Vegas, Nevada, 2013,

Certification in MRI Spine Interpretation, 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, Recognized by the PACE Program of the Federation of Chiropractic Licensing Boards, Buffalo, New York, 2013,

Certification in Chiropractic Wellness Lifestyle Practitioner, International Chiropractic Association Council on Wellness Lifestyle Science, Falls Church, Virginia, 2013,

The Scientific and Philosophical Validation of the Chiropractic Wellness Paradigm, Defining the paradigm of wellness and comparing and contrasting the wellness and allopathic paradigms with respect to research, patient analysis, and clinical intervention. The structural and neurophysiological (dysafferentation) effects of the subluxation complex in relation to adaptive (stress) physiology and illness. The structural and neurophysiological effects of the chiropractic adjustment and proper spinal motion and alignment in relation to homeostasis and health. Review of scientific evidence showing the health promoting and illness preventing benefits chiropractic and proper spinal motion. Implementing wellness into your practice International Chiropractic Association, Chicago, Illinois, 2009,

Wellness Nutrition & Natural Health, The physiological effects of the Western diet with respect to insulin resistance, metabolic acidosis, omega fatty acid deficiency, sodium toxicity, potassium deficiency, probiotic deficiency, and fiber deficiency. The toxicity of processed foods, food additives and preservatives, chemical household products, and industrial chemicals. Identifying the innate genetic requirements in terms of nutrient

sufficiency. Review of scientific evidence showing the health promoting and illness preventing benefits of The Innate Diet™. Introduction and Implementation of The Innate Diet™ & Natural Hygiene. (Nutrition according to our innate genetic requirements for homeostasis). International Chiropractic Association, Chicago, Illinois, 2009,

Wellness Physical Fitness & Spinal Hygiene, , The physiological effects of sedentary lifestyle with respect to insulin resistance, brain function, immune function, body composition, and general health and illness. Identifying the innate genetic requirements in terms of physical fitness and energy expenditure. Importance of proprioception with respect to brain function, learning, organ function, emotional health, and neuromuscular function. Introduction to spinal hygiene exercises for functional restoration and spinal health. Review of scientific evidence showing the health promoting and illness preventing benefits of exercise. Introduction and Implementation of Innate Physical Fitness™ & Spinal Hygiene (Exercise and spinal hygiene according to our genetic requirements for homeostasis). International Chiropractic Association, Chicago, Illinois, 2009,

Wellness State of Mind, Emotional Health & Eliciting Patient Lifestyle Change, The neurophysiological effects of emotional stress with respect to adaptive physiology and illness: understanding psychoneuroimmunology and psychoneurophysiology in health and illness. The neurophysiological effects of physical stress from subluxation with respect to adaptive physiology and illness: understanding somatoneuroimmunology and somatoneurophysiology in health and illness. Promoting self esteem, inner peace, and happiness and reducing stress by developing belief systems and behaviours that are congruent with your core values. Understanding human behaviour change: why focusing on belief systems rather than behaviours is the key to successful and easy personal habit change. Review of scientific evidence showing the health promoting and illness preventing benefits of positive mental attitude and congruent belief systems. Introduction and implementation of The Innate State of Mind™ & Emotional Hygiene (Belief systems and internal dialogue according to our innate genetic requirements for homeostasis). International Chiropractic Association, Chicago, Illinois, 2009,

Active Release Technique Spine, Active Release Techniques (ART) is a soft tissue system/movement-based technique developed and patented by P. Michael Leahy, DC, CCSP. It is used to treat problems with muscles, tendons, ligaments, fascia and nerves. Logan College of Chiropractic, Chesterfield, Missouri, 2008,

SELECTED MEMBERSHIPS

FTCA- Foward Thinking Chiropractic Alliance, Member, 2018 - Present

Academy of Chiropractic, Active Trauma Team Member, 2017 - Present

ACA- American Chiropractic Association, Member, 2013 - Present

OCA- Oklahoma Chiropractic Association, Member, 2012 - Present