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### **SELECTED OCCUPATIONAL HISTORY**

Clinic Director/CEO, Chiropractor, Progressive Chiropractic, Edmonds, Washington, 2015 – Present

Associate & Associate Director, Chiropractor, Yardley Institute, Kent, Washington, 2011 – 2014

Clinic Director, Chiropractor, Upper Cervical Health Centers Italia, Treviso, Italy, 2010 – 2011

Clinic Director, Chiropractor, Upper Cervical Health Centers Italia, San Marino, 2008 – 2011

### **EDUCATION AND LICENSURE**

Doctor of Chiropractic, Licensed in the State of Washington, License # CH 60272826, 2011-Present

Doctor of Chiropractic, Licensed in the State of California, License # 330712015-2016

Doctor of Chiropractic, Licensed in the State of Michigan, License # X008853-1, 2008 - 2011

Doctorate of Chiropractic, Palmer College of Chiropractic, Davenport, Iowa, 2008

National Board of Chiropractic Examiners, Part IV, 2008

National Board of Chiropractic Examiners, Physiology, 2008

National Board of Chiropractic Examiners, Part III, 2007

National Board of Chiropractic Examiners, Part II, 2006

National Board of Chiropractic Examiners, Part I, 2006

Bachelor of Science in Computer Science and Mathematics, High Point University, High Point, North Carolina, 2004

## SELECTED POST-GRADUATE EDUCATION, CERTIFICATIONS AND DIPLOMATES

Certification in Whiplash Biomechanics & Injury Traumatology, Advanced Certification, Spine Research Institute of San Diego, San Diego, CA, 2018

Trends in Spinal Treatment, *Migration of spinal care for mechanical spine issues from hospitals and medical specialists to trauma qualified chiropractors based upon published outcomes. Utilizing imaging studies in spinal biomechanics, pain models and clinical outcomes to determine a conclusive diagnosis, prognosis and treatment plan for triaging in a collaborative environment.* Cleveland University Kansas City, Chiropractic and Health Sciences, Academy of Chiropractic Post-Doctoral Division, Long Island, NY, 2019

Neurology of Spinal Biomechanics, *Understanding the normal of spinal biomechanics and the neurotransmitters required for homeostasis. The interconnected role of Pacinian Corpuscles, Ruffini Corpuscles, Golgi Organ Receptors, Nociceptors, Proprioceptors and Mechanoreceptors in maintaining sagittal and axial alignment in the presence of mechanical pathology.* Cleveland University Kansas City, Chiropractic and Health Sciences, Academy of Chiropractic Post-Doctoral Division, Long Island, NY, 2019

MRI Age-Dating of Herniated Discs, *The literature, academic and clinical standards to age-date herniated discs. The clinical correlation of the pain patterns with advanced imaging findings of bone edema, spurs based upon the Piezoelectric effect for remodeling, high signal on T2 weighted images, Vacuum Discs and disc heights in determining the time frames of the etiology of the spinal disc pathology.* Cleveland University Kansas City, Chiropractic and Health Sciences, Academy of Chiropractic Post-Doctoral Division, Long Island, NY, 2019

Creating Ethical Collaborative and Medical-Legal Relationships, *Understanding the timely triage necessities based upon clinical and imaging outcomes and the documentation required for collaborative physicians to continue care. Ensuring that the documentation is complete, reflective of services rendered and clear for third party consideration in an admissible format to be considered in a medical-legal environment.* Cleveland University Kansas City, Chiropractic and Health Sciences, Academy of Chiropractic Post-Doctoral Division, Long Island, NY, 2019

Central Innervation of Spinal Biomechanical Engineering, *Understanding the lateral and ventral horn's innervations of Pacinian Corpuscles, Ruffini Corpuscles, Golgi Organ Receptors, Nociceptors, Proprioceptors and Mechanoreceptors and the pathways through the spinal thalamic tracts through the periaqueductal region, the Thalamus into the Occipital, pre-frontal, sensory and motor cortexes and then efferently back through the Thalamus to disparate regions in creating spinal homeostasis, Pacinian Corpuscles, Ruffini Corpuscles, Golgi Organ Receptors, Nociceptors, Proprioceptors and Mechanoreceptors.* Cleveland University Kansas City, Chiropractic and Health Sciences, Academy of Chiropractic Post-Doctoral Division, Long Island, NY, 2019

Identifying Spinal Pathology of MRI, *Utilizing T1, T2, STIR and Gradient studies in determining myelomalacia, intra and extra-dural tumors and systemic disease patterns affecting the spinal cord. When to use contrast post-operatively in identifying discal structures vs. adhesions on postoperative advanced imaging. MRI Interpretation of herniated, circumferential bulges, focal bulges, protruded, extruded, comminuted, sequestered and fragmented discs. When to consider a neurosurgical consultation based upon the correlation of imaging and clinical findings.* Cleveland University Kansas City, Chiropractic and Health Sciences, Academy of Chiropractic Post-Doctoral Division, Long Island, NY, 2019

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.* Texas Chiropractic College or PACE Recognized by The Federation of Chiropractic Licensing Boards, Academy of Chiropractic Post-Doctoral Division, Long Island, New York, 2019

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.* Texas Chiropractic College or PACE Recognized by The Federation of Chiropractic Licensing Boards, Academy of Chiropractic Post-Doctoral Division, Long Island, New York, 2019

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.* Texas Chiropractic College or PACE Recognized by The Federation of Chiropractic Licensing Boards, Academy of Chiropractic Post-Doctoral Division, Long Island, New York, 2019

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*. Texas Chiropractic College or PACE Recognized by The Federation of Chiropractic Licensing Boards, Academy of Chiropractic Post-Doctoral Division, Long Island , New York, 2019

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-Electronystagmography (V-ENG) interpretation, protocols and clinical indications for the trauma patient*. Texas Chiropractic College or PACE Recognized by The Federation of Chiropractic Licensing Boards, Academy of Chiropractic Post-Doctoral Division, Long Island, New York, 2019

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*. Texas Chiropractic College or PACE Recognized by The Federation of Chiropractic Licensing Boards, Academy of Chiropractic Post-Doctoral Division, Long Island , New York, 2019

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*. Texas Chiropractic College or PACE Recognized by The Federation of Chiropractic Licensing Boards, Academy of Chiropractic Post-Doctoral Division, Long Island, New York, 2019

National Upper Cervical Chiropractic Association – Spring Conference - Standards Update, *This class reviews any Updates to the Standards & Protocol of the National Upper Cervical Chiropractic Association – NUCCA*, Life Chiropractic College West, Newport Beach, California, 2019

National Upper Cervical Chiropractic Association – Spring Conference – CT Imaging of Cervical Spine, *When to order advanced imaging of Cone Beam CT of the cranio-cervical junction and how to interpret results using NUCCA protocols*, Life Chiropractic College West, Newport Beach, California, 2019

National Upper Cervical Chiropractic Association – Spring Conference - Advanced Imaging, *Aspects of image quality like alignment, patient placement and filtration. Digital and analog radiographs. Attending doctors brought images from their office for review and evaluation and received instruction on ways to improve quality and consistency*, Life Chiropractic College West, Newport Beach, California, 2019

National Upper Cervical Chiropractic Association – Spring Conference – Concussion Protocol, *Relationship between concussion, post concussion syndrome and the upper cervical spine. Differential diagnosis with crossover of symptomatology of post concussion syndrome and biomechanical lesions of the upper cervical spine. Research findings, post-concussive CSF & blood flow patterns. Collaborative care with other providers treating post concussion syndrome* , Life Chiropractic College West, Newport Beach, California, 2019

National Upper Cervical Chiropractic Association – Spring Conference – Managing the Chiropractic Subluxation, *Instrumentation and diagnostic tools for assessing the Chiropractic Subluxation(biomechanical lesion) of the cranio-cervical junction. When new imaging is necessary to reanalyze biomechanics of the upper cervical spine*. Life Chiropractic College West, Newport Beach, California, 2019

National Upper Cervical Chiropractic Association – Spring Conference – Upper Cervical Anatomy, *Review of clinical anatomy of the cranio-cervical junction. Clinical correlation between common and more complex anatomy of the cranio-cervical junction and injury mechanisms evaluated in practice*, Life Chiropractic College West, Newport Beach, California, 2019

National Upper Cervical Chiropractic Association – Spring Conference - Research Overview/Update, *Scientific Literature Review, Summarizing ongoing research & projects by UCRF/NUCCRA(Research branch of NUCCA) as they apply to reliability and validity of NUCCA assessments, fine-tuning of NUCCA protocol, and improvements in providing NUCCA patient care as a result of conducted research*, Life Chiropractic College West, Newport Beach, California, 2019

National Upper Cervical Chiropractic Association – Spring Conference – Adjusting Concepts, *Biomechanics of the correction of the atlas subluxation complex (upper cervical biomechanical lesion). How to use the biomechanics of the upper cervical anatomy to restore proper biomechanical function of the cranio-cervical junction, Practical instruction on individual doctors technique of*

*applying the NUCCA adjustment to the patient including exercises, drills and stretches to maximize skills of doctors.* Life Chiropractic College West, Newport Beach, California, 2019

National Upper Cervical Chiropractic Association – Spring Conference – Advanced Headpiece Placement, *Practical Instruction for advanced doctors for placing patient on headpiece for the NUCCA chiropractic adjustment*, Life Chiropractic College West, Newport Beach, California, 2019

National Upper Cervical Chiropractic Association – Spring Conference – Philosophy of NUCCA, *Review of philosophical principles of NUCCA*. Life Chiropractic College West, Newport Beach, California, 2019

Module 1: Whiplash Biomechanics and Injury Traumatology, *In depth review of the current scientific literature supporting whiplash injuries, including all factors affecting clinicals and the epidemiology of whiplash injuries. Common syndromes and conditions resulting from whiplash, including brain injuries, temporomandibular disorders, muscular pain syndromes, thoracic outlet syndrome, carpal tunnel syndrome, and chronic pain disorders were discussed and reviewed with special attention being paid to the diagnosis and management of these conditions.* Spine Research Institute of San Diego, Seattle, WA, 2018

Module 2: Whiplash Biomechanics and Injury Traumatology, *Accident reconstruction principles used in low speed rear impact collisions were reviewed and discussed. Complete history taking and physical examination methods were demonstrated with a focus on the objectification of spinal injury utilizing plain film radiograph and advanced imaging modalities, including CT, MRI, scintigraphy, PET and SPECT. Electrodiagnostic testing and its applications to treatment and triage to other medical specialists. Wound repairing of soft tissue injuries and the designing of an evidence-based treatment program, with particular attention to activities of daily living advice and ancillary supportive therapeutic procedures. Detailed discussion and analysis of specific chiropractic therapeutic approaches to successfully manage whiplash disorders were presented and discussed. Maximum medical improvement.* Spine Research Institute of San Diego, Seattle, WA, 2018

Module 3: Whiplash Biomechanics and Injury Traumatology, *Comprehensive and clinically directed narrative report construction. Attention to avoiding common mistakes and pitfalls in writing reports was discussed and outlined. Special graphics, charts, and color enhanced reports to increase understanding of complex engineering accident principles was discussed.* Spine Research Institute of San Diego, Seattle, WA, 2018

Module 4: Whiplash Biomechanics and Injury Traumatology, *Clinical preparation for depositions, arbitration, and court testimony. Selection and use of demonstrative evidence tools to assist in the explanation of causality, bodily injury and persistent functional losses. In depth review of literature searches and bibliographic services was presented and discussed.* Spine Research Institute of San Diego, Seattle, WA, 2018

*Triage and Management of the Trauma and Non-Trauma Patient, differentially diagnosing spinal issues in the trauma and non-trauma patient inclusive of spinal disc pathology utilizing x-ray, MRI, CAT Scan and clinical evaluations. Collaborate triage protocols with neurologists, neurosurgeons, orthopedic surgeons, pain management and primary medical care providers with both mechanical and anatomical spine pathologies,* Academy of Chiropractic, PACE Approved for the Federation of Chiropractic Licensing Boards, Cleveland University, Kansas City Chiropractic and Health Sciences, Long Island, NY, 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,* Texas Chiropractic College or PACE Recognized by The Federation of Chiropractic Licensing Boards, Academy of Chiropractic Post-Doctoral Division, Long Island, NY, 2018

National Upper Cervical Chiropractic Association – Spring Conference – Film/Imaging Quality, *This course covers reviewing many x-rays and having the participants discover common obstacles to excellent image quality. It will also incorporate biomechanical discussions and theory as well as headpiece placement relative to the chiropractic subluxation and its reduction,* Life Chiropractic College West, Newport Beach, California, 2018

National Upper Cervical Chiropractic Association – Spring Conference – S-Line, *In depth review of the s-line, a measurement on X-rays that is significant to further accurate analysis of patient biomechanics, Identifying S-line on sagittal and frontal views, How to correct s-line measurement errors,* Life Chiropractic College West, Newport Beach, California, 2018

National Upper Cervical Chiropractic Association – Spring Conference – Review of Cases, *Doctors in the field submit imaging of cases in their clinics for review and discussion on case management and how to obtain a better reduction of the Atlas Subluxation Complex (Chiropractic Subluxation),* Life Chiropractic College West, Newport Beach, California, 2018

National Upper Cervical Chiropractic Association – Spring Conference - Standards Update, *This class reviews any Updates to the Standards & Protocol of the National Upper Cervical Chiropractic Association – NUCCA*, Life Chiropractic College West, Newport Beach, California, 2018

National Upper Cervical Chiropractic Association – Spring Conference – Cranio-cervical Junction, *Anatomy, Biomechanics, Neurology, Neurophysiology, Neuroanatomy, Use of pulse oximeter during treatment, Current evidence and ongoing investigations into CTE, CSF Flow and Glymphatics - how they impact the Cranio-cervical junction, Advanced Imaging (MRI, CBCT), Current developments in Cerebellar Tonsillar Ectopia (Understanding Chiari), CCJ Examination & Integrative Care considerations*, Life Chiropractic College West, Newport Beach, California, 2018

National Upper Cervical Chiropractic Association – Spring Conference – Objective Documentation, *Document care based on three phases of healing, clear documentation for third parties (Private insurance, Medicare, Personal Injury), How to clinically document NUCCA to be clinically supported so that third parties understand and accept as standard of care*, Life Chiropractic College West, Newport Beach, California, 2018

National Upper Cervical Chiropractic Association – Spring Conference - Research Overview/Update, *Scientific Literature Review, Summarizing ongoing research & projects by UCRF (Research branch of NUCCA) as they apply to reliability and validity of NUCCA assessments, fine-tuning of NUCCA protocol, and improvements in providing NUCCA patient care as a result of conducted research*, Life Chiropractic College West, Newport Beach, California, 2018

National Upper Cervical Chiropractic Association – Spring Conference – Understanding the Atlas Subluxation Complex, *Misalignment factors and applied biomechanics for optimal reduction of Atlas Subluxation Complex (Chiropractic Subluxation)*, Life Chiropractic College West, Newport Beach, California, 2018

National Upper Cervical Chiropractic Association – Spring Conference - Short Condyles & Osseous Malformations, *Identifying osseous malformations that impact the understanding and reduction of the Atlas Subluxation Complex, How to incorporate and understand malformations in both normal and abnormal biomechanics*, Life Chiropractic College West, Newport Beach, California, 2018

National Upper Cervical Chiropractic Association – Spring Conference – Advanced Headpiece Placement, *Practical Instruction for advanced doctors for placing patient on headpiece for the chiropractic adjustment*, Life Chiropractic College West, Newport Beach, California, 2018

Advances in Spinal Care Symposium – Brain-Gut Axis and Cranio-Cervical Junction, *Relationship between the brain and gut through vagus nerve and biochemical communication. Parasympathetic and Sympathetic influence on brain-gut relationship according to stimulus of environment. Relationship to biomechanical dysfunction of the cranio-cervical junction to conditions related to the gut. Cases studies on resolution of gut conditions like IBS, diverticulosis and constipation presented and discussed. Traumatic brain injury related to brain-gut dysfunction. Differential diagnosis between concussion and neck injuries. Polyvagal Theory*. Palmer College of Chiropractic, San Diego, California, 2018

Advances in Spinal Care Symposium – Documentation for Impairment Evaluation, *Review of AMA guides to impairment ratings. Classification Systems, classes, net adjustment formula, pain related impairments and record keeping standards were reviewed and discussed. Medical, legal and prevention of medical errors relating to impairment rating were discussed*, Palmer College of Chiropractic, San Diego, California, 2018

Advances in Spinal Care Symposium – DMX Imaging of the Atlas Orthogonal Adjustment, *Chiropractic adjustment of the cranio-cervical junction visualized with digital motion x-rays was reviewed and discussed*, Palmer College of Chiropractic, San Diego, California, 2018

Advances in Spinal Care Symposium – Cervical Alignment and Dental Malocclusion: Why We Need a Dentist in Our Back Pocket, *Analysis of biomechanical dysfunction of the cranio-cervical junction and its relationship to dental malocclusion*, Palmer College of Chiropractic, San Diego, California, 2018

Advances in Spinal Care Symposium – Emerging Upright MRI Imaging Observations at the Cranio-cervical Junction and Application of Regenerative Therapies in Patients with Head/Neck Trauma, Palmer College of Chiropractic, San Diego, California, 2018

Advances in Spinal Care Symposium – The Role of the Upper Cervical Chiropractor in Post-Concussion Symptoms, Palmer College of Chiropractic, San Diego, California, 2018

Advances in Spinal Care Symposium – Upper Cervical Biomechanical Vulnerability from a Mechanistic Standpoint, *Cranio-cervical vulnerability during whiplash. Delta V and acceleration as important factors in determining potential injury. Motor vehicle crash statistics and research was reviewed and discussed. Difference in mechanism of injury in upper vs. lower cervical spine, Crash test*

*videos viewed and discussed. Motor vehicle crash risk factors, Bumper ratings and safety features of vehicles, Palmer College of Chiropractic, San Diego, California, 2018*

*Advances in Spinal Care Symposium – Cone Beam Cat Scan (CBCT) as a Diagnostic Tool for the Upper Cervical Chiropractor, Biomechanical lesion analysis of the cranio-cervical junction using CBCT, Palmer College of Chiropractic, San Diego, California, 2018*

*Advances in Spinal Care Symposium – Advances in Dynamic Upright MRI Imaging of Misalignments at the Cranio-cervical Junction Post Head/Neck Trauma and Their Ill Effects on Brain and Central Nerve Function, Biomechanical lesion analysis of the cranio-cervical junction using upright MRI, Palmer College of Chiropractic, San Diego, California, 2018*

*Advances in Spinal Care Symposium – Cervical Spine Adjusting & Cervical Artery Issues: A Five-Year Update, Mechanism of Cervical Artery Dissection, risk factors, statistics and research was reviewed and discussed. No causation found between cervical adjusting and cervical artery dissection, Palmer College of Chiropractic, San Diego, California, 2018*

*Evidence-Based/Informed Chiropractic and Wellness Lifestyle Certification (CCWP) Module 1 - Evidence-Based Chiropractic and Lifestyle for Recovery, Wellness and Prevention, The Science, Paradigm, and Clinical Application of Evidence-Based/Informed Chiropractic, The relationship between chiropractic, Movement, NMS function, Autonomic function, Allostasis, and Health. Implementing Evidence-Based/Informed patient assessment, Reports, Intervention, and education for Recovery, Wellness, and Prevention. Chiropractic made easy and systematic for doctors, staff, and patients, Cleveland University Chiropractic & Health Sciences, Seattle, Washington, 2017*

*National Upper Cervical Chiropractic Association – Spring Conference - Standards Update, This class reviews any Updates to the Standards & Protocol of the National Upper Cervical Chiropractic Association – NUCCA, Life Chiropractic College West, Newport Beach, California, 2017*

*National Upper Cervical Chiropractic Association – Spring Conference - Certified Film Review, Reviews recently passed Level 3 certified NUCCA series of films, Reviews top criteria needed to become Board Certified, Life Chiropractic College West, Newport Beach, California, 2017*

*National Upper Cervical Chiropractic Association – Spring Conference – Cranio-cervical Junction, Anatomy, Biomechanics, Neurology, Neurophysiology, Advanced Imaging (MRI, CBCT), Current developments in Cerebellar Tonsillar Ectopia (Understanding Chiari), CCJ Examination & Integrative Care considerations, Life Chiropractic College West, Newport Beach, California, 2017*

*National Upper Cervical Chiropractic Association – Spring Conference - Concepts in Advanced Imaging, Designed for advanced NUCCA doctors reviewing technical aspects of radiographic analysis and structure identification, Imaging technique, Errors in Analysis and osseous abnormalities, Life Chiropractic College West, Newport Beach, California, 2017*

*National Upper Cervical Chiropractic Association – Spring Conference - Adjusting Phases Part 2, Development and practice of the skill of the adjusting portion of the NUCCA procedure, Hands on learning and practicing each phase with Board Certified instructors, Focusing on second half of all phases, Life Chiropractic College West, Newport Beach, California, 2017*

*National Upper Cervical Chiropractic Association – Spring Conference - Advanced Biomechanics, Case studies presentation & discussion of biomechanical rationales for difficult cases, Doctors bring their own case studies to be reviewed, Biomechanical Rationale, Life Chiropractic College West, Newport Beach, California, 2017*

*National Upper Cervical Chiropractic Association – Spring Conference - Research Overview/Update, Scientific Literature Review, Advanced Adjusting, Review of ongoing research & projects by UCRF (Research branch of NUCCA) as they apply to reliability and validity of NUCCA assessments, fine-tuning of NUCCA protocol, and improvements in providing NUCCA patient care as a result of conducted research, Life Chiropractic College West, Newport Beach, California, 2017*

*National Upper Cervical Chiropractic Association – Spring Conference - Scientific Literature Review, Discussion of elements of a suitable research paper and required components of each section. Manuscript assessment checklists for proper interpretation of findings. Examination of a controversial paper to highlight potential strengths and shortcomings, Life Chiropractic College West, Newport Beach, California, 2017*

*National Upper Cervical Chiropractic Association – Spring Conference - Advanced Adjusting, Lecture and practical techniques to assist doctors in developing their adjusting skills. Individual evaluation of strengths and weaknesses and guidance for improvement by certified doctors, Life Chiropractic College West, Newport Beach, California, 2017*

Full Recovery for Personal Injury Cases, *Phases of a PI Case, PIP Information, Insurance Medical Examinations, Responding to medical records requests*, WAC Commission, Seattle, Washington, 2017

Tension Type Headaches, *Background Information on Tension Type Headaches, Episodic vs Chronic, Epidemiology, Causes, Presentation, Differential Diagnosis, Medical Approach, Chiropractic Approach, Trigger Point Therapy, Neurofeedback*, DCHours.com/Guy Annunziata D.C., Online/Edmonds, Washington 2017

Post Traumatic Headaches, *Classification, Epidemiology, Pathophysiology, Clinical Features, Differential Diagnosis, Physical Exam, Imaging, Headache Abortive Medications, Headache Prevention Medications, Non-Pharmacological Therapies, Injections and Procedures, Chiropractic Approach*, DCHours.com/Guy Annunziata D.C., Online/Edmonds, Washington 2017

Migraine Headaches, *Understanding Migraines, Causes of Migraines, Neurovascular Involvement, Trigeminal Autonomic Reflex, Vascular Theory, Brainstem Dysfunction, Red Flags, Medical Approach, Chiropractic Approach, Trigger Points, Treating Migraines, Clinical Presentation*, DCHours.com/Guy Annunziata D.C., Online/Edmonds, Washington 2017

Understanding Whiplash Part 2, *Conditions & Symptoms Related to Whiplash Injury, Facet Involvement & Treatment, Loss of Cervical Lordosis, Disc Injuries, Nerve Involvement, Clinical Presentation, Radiculopathy, Orthopedic Exams, Post Concussion Syndrome*, DCHours.com/Guy Annunziata D.C., Online/Edmonds, Washington 2017

Understanding Whiplash Part 1, *Mechanisms of Injury During Low Speed Impact Collisions, General Magnitudes of Force During Low Speed Impact Collisions, Relationship Between Low Speed Impact Collisions & Occupant Injury, Injury Risk Factors, Nociceptive and Neuropathic Pain Syndromes*, DCHours.com/Guy Annunziata D.C., Online/Edmonds, Washington 2016

Cervicogenic Headaches, *Neck Pain as a Manifestation of Headache or Migraine, Involvement of the Trigemino-cervical Nucleus, Clinical Features, Diagnosis of Cervicogenic Headaches, Medical Approach, Physical and Manual Modes of Therapy, Research Support*, DCHours.com/Guy Annunziata D.C., Online/Edmonds, Washington 2016

National Upper Cervical Chiropractic Association – Spring Conference - Certification Testing Level 2, *Preparation of written Level 2 certification. Consistency of X-ray technique positioning and biomechanical analysis*, Life Chiropractic College West, Newport Beach, California, 2016

National Upper Cervical Chiropractic Association – Spring Conference - Digital X-ray Analysis, *Overview of Digital X-ray Analysis using Vistech software, Review of current Digital X-Ray Analysis systems and software to complete NUCCA X-ray analysis, Troubleshooting current software products*, Life Chiropractic College West, Newport Beach, California, 2016

National Upper Cervical Chiropractic Association – Spring Conference - Intermediate Biomechanics, *X-ray and schematic presentation of out of pattern four basic types of misalignments, Case studies presentation & discussion of biomechanical rationales for unusual cases, Lever systems and headpiece placement, Strategies & approaches*, Life Chiropractic College West, Newport Beach, California, 2016

National Upper Cervical Chiropractic Association – Spring Conference - Adjusting Phases Part 1, *Development and practice of the skill of the adjusting portion of the NUCCA procedure, Hands on learning and practicing each phase with Board Certified instructors, Focusing on first half of all phases*, Life Chiropractic College West, Newport Beach, California, 2016

National Upper Cervical Chiropractic Association – Spring Conference - Adjusting Phases Part 2, *Development and practice of the skill of the adjusting portion of the NUCCA procedure, Hands on learning and practicing each phase with Board Certified instructors, Focusing on second half of all phases*, Life Chiropractic College West, Newport Beach, California, 2016

National Upper Cervical Chiropractic Association – Spring Conference - NUCCA Geometry, *Observing the Chiropractic Atlas Subluxation (biomechanical lesion) through simple geometry, In depth analysis on lines and angles of the NUCCA Analysis*, Life Chiropractic College West, Newport Beach, California, 2016

National Upper Cervical Chiropractic Association – Spring Conference - Research Overview/Update, *Current Research Projects by NUCCA Research Branch, Recent Completed Research Projects by NUCCA Research Branch, Future Research Projects by NUCCA Research Branch*, Life Chiropractic College West, Newport Beach, California, 2016

National Upper Cervical Chiropractic Association – Spring Conference - Anatomy & Physiology of the Upper Cervical Spine, *Review of Anatomy, Physiology, Biomechanics, neurology and neurophysiology, Chiropractic Subluxation Hypothesis, Affects on CSF flow*,

*When advanced imaging is necessary, Ongoing investigations on CTE, CSF Flow, Glymphatics related to Craniocervical, Applying Review to Everyday Practice*, Life Chiropractic College West, Newport Beach, California, 2016

National Upper Cervical Chiropractic Association – Spring Conference - Image Quality & Corrections, *Review of Proper Parameters of Quality Imaging over several example X-rays, Problem Solving & Correcting Errors, Biomechanical discussions*, Life Chiropractic College West, Newport Beach, California, 2016

*Emergency Ambulatory Practice Considerations, Cardiovascular System, Hypertension, Electrical System, Cardiac Arrhythmias, Heart Failure, Myocardial Infarction, Office Training, Pacemakers*, Life University, Seattle, Washington, 2015

Chiropractic Management of Children With Otitis Media, *Facts About Otitis Media, Diagnosis of Otitis Media, Current Medical Management, Rationale for Chiropractic Care for Otitis Media, Research Regarding Manipulative Therapy for OM, Treatment Tools and Protocols for the Chiropractor, How to Learn More About Pediatrics*, Life University, Seattle, Washington, 2015

Full Spine Adjusting Techniques for the Young Pediatric Patient, *Safety Studies for Pediatric Chiropractic Care, Why Children Need Chiropractic Care, Causes of a Joint Dysfunction in Children, Why Children Are Often Unaware of Joint Dysfunction, Unique Aspects of the Pediatric Spine, Modifying the Adjustment for the Child, Full-Spine Adjusting Techniques for Different Age Groups, Common Technique Mistakes when Adjusting Children*, Life University, Seattle, Washington, 2015

Suicide Care for Chiropractors: Creating Connection and Hope, *Connecting with Resources, Suicide Risk Assessment and Referral, Knowledge About Suicide, Risk Factors & Warning Signs, Barriers to Assessment, Suicide Prevention*, Life University, Seattle, Washington, 2015

Radiology & Chiropractic Services, Life University, Edmonds, Washington, 2015

National Upper Cervical Chiropractic Association – Fall Conference - X-Ray Structure Identification, *Review of Upper Cervical Spine Radiographs, Identifying normal and abnormal structure, Analysis of Alignment*, Life Chiropractic College West, Newport Beach, California, 2014

National Upper Cervical Chiropractic Association – Fall Conference - Building Value Through Technical Excellence (No CE's), Life Chiropractic College West, Newport Beach, California, 2014

National Upper Cervical Chiropractic Association – Fall Conference - Advanced Adjusting Drills, *Demonstration of over 20 advanced practical drills for NUCCA Adjustment to develop proficiency*, Life Chiropractic College West, Newport Beach, California, 2014

National Upper Cervical Chiropractic Association – Fall Conference - Squaring Off, *Alternative adjusting method in difficult cases, All steps and modifications required for each circumstance*, Life Chiropractic College West, Newport Beach, California, 2014

National Upper Cervical Chiropractic Association – Fall Conference - Advanced Workshop, *Doctor's submit Pre/Post Adjustment Films prior to conference to be critiqued in this class, Discussion on improvements and Modifications necessary for each case*, Life Chiropractic College West, Newport Beach, California, 2014

National Upper Cervical Chiropractic Association – Fall Conference - Short Condyles & Other Anomalies, *Identifying anomalies & how it will affect treatment*, Life Chiropractic College West, Newport Beach, California, 2014

National Upper Cervical Chiropractic Association – Fall Conference - Visual Clues During the Adjusting Process, *Indications of alignment prior to the post x-ray, Indications for need of new biomechanical X-rays*, Life Chiropractic College West, Newport Beach, California, 2014

National Upper Cervical Chiropractic Association – Fall Conference - Advanced Biomechanics, *Case studies presentation & discussion of biomechanical rationales for difficult cases, Doctors bring their own case studies to be reviewed, Biomechanical Rationale, X-ray Quality*, Life Chiropractic College West, Newport Beach, California, 2014

National Upper Cervical Chiropractic Association – Fall Conference - Research Overview/Update, *Current Research Projects by NUCCA Research Branch, Recent Completed Research Projects by NUCCA Research Branch, Future Research Projects by NUCCA Research Branch*, Life Chiropractic College West, Newport Beach, California, 2014



National Upper Cervical Chiropractic Association – Fall Conference - How to Use Pub Med, *Searching for Journal articles to apply to everyday practice, Keywords, Mesh Terms, Saving search data, Open Access*, Life Chiropractic College West, Newport Beach, California, 2014

National Upper Cervical Chiropractic Association – Fall Conference - Reducing C1 Rotation, *Keys to correcting the rotational component of the biomechanical problem at C1*, Life Chiropractic College West, Newport Beach, California, 2014

National Upper Cervical Chiropractic Association – Fall Conference - Advanced Adjusting, *Practice session for advanced adjustors, Review of settle-back function, straight-away adjusting, unique stances for special cases*, Life Chiropractic College West, Newport Beach, California, 2014

National Upper Cervical Chiropractic Association – Spring Conference - Headpiece Placement Practical, *Practical Instruction for intermediate and advanced doctors for placing patient on headpiece for adjustment*, Life Chiropractic College West, Bloomington, Minnesota, 2014

National Upper Cervical Chiropractic Association – Spring Conference - Upper Cervical Medicare Compliant Notes, *Essentials of documentation for Upper Cervical Specific doctors, Care plan compliance, Daily SOAP notes, Audit Preventio*, Life Chiropractic College West, Bloomington, Minnesota, 2014

National Upper Cervical Chiropractic Association – Spring Conference - Advanced Adjusting Panel, *Practice Session for intermediate and advanced doctors to hone their adjusting skills*, Life Chiropractic College West, Bloomington, Minnesota, 2014

National Upper Cervical Chiropractic Association – Spring Conference - Managing the Subluxation, *Evaluation a case's percent restoration of biomechanical function, Consistency in Film Quality & Position, Consistency in Analysis, When to change directional application of force during adjustment for better results*, Life Chiropractic College West, Bloomington, Minnesota, 2014

National Upper Cervical Chiropractic Association – Spring Conference - X-Ray Image Mastery & Structure Identification, *Reviewing Upper Cervical Radiographs, Identify normal and abnormal structure and analysis of alignment/biomechanics*, Life Chiropractic College West, Bloomington, Minnesota, 2014

National Upper Cervical Chiropractic Association – Spring Conference - Visual Clues During the Adjusting Process, *Indications of alignment prior to the post x-ray, Indications for need of new biomechanical X-rays*, Life Chiropractic College West, Bloomington, Minnesota, 2014

National Upper Cervical Chiropractic Association – Spring Conference - Torque, *Understanding how torque applied in the adjustment correct biomechanical dysfunction, How to introduce torque into the adjustment*, Life Chiropractic College West, Bloomington, Minnesota, 2014

National Upper Cervical Chiropractic Association – Spring Conference - Advanced Biomechanics, *Case studies presentation & discussion of biomechanical rationales for difficult cases, Doctors bring their own case studies to be reviewed, Biomechanical Rationale*, Life Chiropractic College West, Bloomington, Minnesota, 2014

National Upper Cervical Chiropractic Association – Spring Conference - Research Overview/Update, *Current Research Projects by NUCCA Research Branch, Recent Completed Research Projects by NUCCA Research Branch, Future Research Projects by NUCCA Research Branch*, Life Chiropractic College West, Bloomington, Minnesota, 2014

National Upper Cervical Chiropractic Association – Spring Conference - X-Ray Case Management, *Use of Post X-rays and determining when subsequent X-rays are necessary, X-ray use for better management of cases*, Life Chiropractic College West, Bloomington, Minnesota, 2014

National Upper Cervical Chiropractic Association – Spring Conference - Case Studies From the Field, *Doctors bring 2 cases from their practice for review of accuracy in film taking and analysis, Biomechanical Discussion*, Life Chiropractic College West, Bloomington, Minnesota, 2014

National Upper Cervical Chiropractic Association – Spring Conference - C1 Rotation, *Keys to correcting the rotational component of the biomechanical problem at C1*, Life Chiropractic College West, Bloomington, Minnesota, 2014

National Upper Cervical Chiropractic Association – Fall Conference - Digital X-Ray Analysis, *Digital options for image capture CR & DR, Review of current Digital X-Ray Analysis systems and software to complete NUCCA X-ray analysis. Troubleshooting current software products*, Life Chiropractic College West, Newport Beach, California, 2013

National Upper Cervical Chiropractic Association – Fall Conference - Compliance & Medicare, *Essential documentation, Telling the Patients Story, Care Plan Compliance, Daily SOAP notes simplified*, Life Chiropractic College West, Newport Beach, California, 2013

National Upper Cervical Chiropractic Association – Fall Conference - Advanced Adjusting Part 1, *Development and practice of the skill of the adjusting portion of the NUCCA procedure, Hands on learning and practicing each phase with Board Certified instructors, Focusing on first half of all phases*, Life Chiropractic College West, Newport Beach, California, 2013

National Upper Cervical Chiropractic Association – Fall Conference - Advanced Adjusting Part 2, *Development and practice of the skill of the adjusting portion of the NUCCA procedure, Hands on learning and practicing each phase with Board Certified instructors, Focusing on second half of all phases*, Life Chiropractic College West, Newport Beach, California, 2013

National Upper Cervical Chiropractic Association – Fall Conference - X-Ray Structure Identification, *Review of Upper Cervical Spine Radiographs, Identifying normal and abnormal structure, Analysis of Alignment*, Life Chiropractic College West, Newport Beach, California, 2013

National Upper Cervical Chiropractic Association – Fall Conference - Certification Advancement, *Outline of requirements to achieve Board Certification, Review of common errors in recent submissions, Biomechanics, Adjusting Headpiece, Technical Excellence*, Life Chiropractic College West, Newport Beach, California, 2013

National Upper Cervical Chiropractic Association – Fall Conference - Reducing Rotation and C2 Spinous, *Keys to correcting the rotational component of the biomechanical problem at C1, Keys to correcting rotational component of C2*, Life Chiropractic College West, Newport Beach, California, 2013

National Upper Cervical Chiropractic Association – Fall Conference - Level 2 Film Quality, *Proper X-ray Patient Positioning, X-ray Exposure Technique, Proper X-ray, Biomechanical analysis*, Life Chiropractic College West, Newport Beach, California, 2013

National Upper Cervical Chiropractic Association – Fall Conference - Intermediate Biomechanics, *X-ray and schematic presentation of out of pattern four basic types of misalignments. Case studies presentation & discussion of biomechanical rationales for unusual cases, Lever systems and headpiece placement, Strategies & approaches*, Life Chiropractic College West, Newport Beach, California, 2013

National Upper Cervical Chiropractic Association – Fall Conference - Research Overview/Update, *Current Research Projects by NUCCA Research Branch, Recent Completed Research Projects by NUCCA Research Branch, Future Research Projects by NUCCA Research Branch*, Life Chiropractic College West, Newport Beach, California, 2013

National Upper Cervical Chiropractic Association – Fall Conference - Neurology of Upper Cervical Spine, *Neuroanatomy, Anatomy of brainstem cranial nerves, Intermedius nucleus and nucleus tractus solitarius, Mechanoreceptor influence, Affect of Upper Cervical Alignment on the pontomedullary reticular formation, Effect on Sympathetic Nervous System*, Life Chiropractic College West, Newport Beach, California, 2013

National Upper Cervical Chiropractic Association – Fall Conference - Headpiece Placement Biomechanics, *Use of resistance by headpiece, Creation of leverage for biomechanical correction*, Life Chiropractic College West, Newport Beach, California, 2013

National Upper Cervical Chiropractic Association – Fall Conference - Certified Panel Q&A, *Biomechanics, Adjusting Tips, Technical Issues Addressed*, Life Chiropractic College West, Newport Beach, California, 2013

National Upper Cervical Chiropractic Association – Spring Conference - Advanced Headpiece Placement, *Practice session for intermediate and advanced doctors*, Life Chiropractic College West, Bloomington, Minnesota, 2013

National Upper Cervical Chiropractic Association – Spring Conference - Imaging – Structure Identification & Analysis, *Review of Upper Cervical Spine Radiographs, Identifying normal and abnormal structure, Analysis of Alignment*, Life Chiropractic College West, Bloomington, Minnesota, 2013

National Upper Cervical Chiropractic Association – Spring Conference - X-Ray Case Management, *Use of Post X-rays and determining when subsequent X-rays are necessary, X-ray use for better management of cases*, Life Chiropractic College West, Bloomington, Minnesota, 2013

National Upper Cervical Chiropractic Association – Spring Conference - X-Ray Review For Certification Process, *Review of X-rays submitted from the field, Biomechanical Analysis*, Life Chiropractic College West, Bloomington, Minnesota, 2013

National Upper Cervical Chiropractic Association – Spring Conference - Advanced Adjusting Part 1, *Development and practice of the skill of the adjusting portion of the NUCCA procedure, Hands on learning and practicing each phase with Board Certified instructors, Focusing on first half of all phases*, Life Chiropractic College West, Bloomington, Minnesota, 2013

National Upper Cervical Chiropractic Association – Spring Conference - Certification Advancement, *Outline of requirements to achieve Board Certification, Review of common errors in recent submissions, Biomechanics, Adjusting Headpiece, Technical Excellence*, Life Chiropractic College West, Bloomington, Minnesota, 2013

National Upper Cervical Chiropractic Association – Spring Conference - Doing a Case Study in Your Office, *Step by step process to write a Case Study, Introduction, Case Description, Discussion, Conclusion, Bibliography, Patient acceptance, IRB process, effective writing*, Life Chiropractic College West, Bloomington, Minnesota, 2013

National Upper Cervical Chiropractic Association – Spring Conference - X-Ray Submissions From the Field, *Doctors bring 2 cases from their practice for review of accuracy in film taking and analysis, Biomechanical Discussion*, Life Chiropractic College West, Bloomington, Minnesota, 2013

National Upper Cervical Chiropractic Association – Spring Conference - Research Overview/Update, *Current Research Projects by NUCCA Research Branch, Recent Completed Research Projects by NUCCA Research Branch, Future Research Projects by NUCCA Research Branch*, Life Chiropractic College West, Bloomington, Minnesota, 2013

National Upper Cervical Chiropractic Association – Spring Conference - Advanced Technical Tips, *Fine tuning the adjustment, Headpiece placement, instrumentation, examination, imaging and analysis*, Life Chiropractic College West, Bloomington, Minnesota, 2013

National Upper Cervical Chiropractic Association – Spring Conference - Advanced Biomechanics, *Case studies presentation & discussion of biomechanical rationales for difficult cases, Doctors bring their own case studies to be reviewed, Biomechanical Rationale*, Life Chiropractic College West, Bloomington, Minnesota, 2013

National Upper Cervical Chiropractic Association – Spring Conference - Advanced Adjusting Part 2, *Development and practice of the skill of the adjusting portion of the NUCCA procedure, Hands on learning and practicing each phase with Board Certified instructors, Focusing on second half of all phases*, Life Chiropractic College West, Bloomington, Minnesota, 2013

National Upper Cervical Chiropractic Association – Fall Conference - Advanced Imaging Positioning, *Common problems and solutions for the advanced doctor, Positioning of difficult cases*, Life Chiropractic College West, Newport Beach, California, 2012

National Upper Cervical Chiropractic Association – Fall Conference - Imaging -Structure Identification & Analysis, *Review of Upper Cervical Spine Radiographs, Identifying normal and abnormal structure, Analysis of Alignment*, Life Chiropractic College West, Newport Beach, California, 2012

National Upper Cervical Chiropractic Association – Fall Conference - Biomechanical Theory Part 1, *Essential principles of biomechanics applied to the Upper Cervical Spine, Forces introduced, Lever systems used, Fulcrums, Reactive forces*, Life Chiropractic College West, Newport Beach, California, 2012

National Upper Cervical Chiropractic Association – Fall Conference - Advanced Adjusting Part 1, *Development and practice of the skill of the adjusting portion of the NUCCA procedure, Hands on learning and practicing each phase with Board Certified instructors, Focusing on first half of all phases*, Life Chiropractic College West, Newport Beach, California, 2012

National Upper Cervical Chiropractic Association – Fall Conference - Certification Review, *Outline of requirements to achieve Board Certification, Review of common errors in recent submissions, Biomechanics, Adjusting Headpiece, Technical Excellence*, Life Chiropractic College West, Newport Beach, California, 2012

National Upper Cervical Chiropractic Association – Fall Conference - Cervical Pathology, *Radiographic findings, Cervical Spine, Normal Variants, Common Abnormalities & Diseases*, Life Chiropractic College West, Newport Beach, California, 2012

National Upper Cervical Chiropractic Association – Fall Conference - Biomechanical Theory Part 2, *Essential principles of biomechanics applied to the Upper Cervical Spine, Forces introduced, Lever systems used, Fulcrums, Reactive forces*, Life Chiropractic College West, Newport Beach, California, 2012

National Upper Cervical Chiropractic Association – Fall Conference - Advanced Adjusting Part 2, *Development and practice of the skill of the adjusting portion of the NUCCA procedure, Hands on learning and practicing each phase with Board Certified instructors, Focusing on second half of all phases*, Life Chiropractic College West, Newport Beach, California, 2012

National Upper Cervical Chiropractic Association – Fall Conference - Upper Cervical Neurology, *Neuroanatomy, Anatomy of brainstem cranial nerves, Intermedius nucleus and nucleus tractus solitarius, Mechanoreceptor influence, Affect of Upper Cervical Alignment on the pontomedullary reticular formation, Effect on Sympathetic Nervous System*, Life Chiropractic College West, Newport Beach, California, 2012

National Upper Cervical Chiropractic Association – Fall Conference - Research Overview/Update, *Current Research Projects by NUCCA Research Branch, Recent Completed Research Projects by NUCCA Research Branch, Future Research Projects by NUCCA Research Branch*, Life Chiropractic College West, Newport Beach, California, 2012

National Upper Cervical Chiropractic Association – Fall Conference - Torque, *Understanding how torque applied in the adjustment correct biomechanical dysfunction, How to introduce torque into the adjustment*, Life Chiropractic College West, Newport Beach, California, 2012

National Upper Cervical Chiropractic Association – Fall Conference - Leg Check, *Pelvic Distortion in supine position, Neurological ramifications in relation to the Upper Cervical Spine*, Life Chiropractic College West, Newport Beach, California, 2012

National Upper Cervical Chiropractic Association – Fall Conference - Anameter, *Pelvic Distortion standing in the frontal and transverse planes, Neurological ramifications in relation to the Upper Cervical Spine*, Life Chiropractic College West, Newport Beach, California, 2012

National Upper Cervical Chiropractic Association – Fall Conference - Advanced Image Positioning, *Common problems and solutions for the advanced doctor, Positioning of difficult cases*, Life Chiropractic College West, Newport Beach, California, 2012

National Upper Cervical Chiropractic Association – Spring Conference - NUCCA History & Overview, *Development of Upper Cervical Specific Chiropractic over the decades, Differentiation of techniques, Differentiate biomechanical types of misalignments*, Life Chiropractic College West, Orlando, Florida, 2012

National Upper Cervical Chiropractic Association – Spring Conference - Leg Check, *Pelvic Distortion in supine position, Neurological ramifications in relation to the Upper Cervical Spine*, Life Chiropractic College West, Orlando, Florida, 2012

National Upper Cervical Chiropractic Association – Spring Conference - Structural Analysis Part 1, *Intro to Upper Cervical Biomechanics, Relationship between skull/atlas/lower cervical spine*, Life Chiropractic College West, Orlando, Florida, 2012

National Upper Cervical Chiropractic Association – Spring Conference - Introduction to Biomechanics, *4 basic types of misalignments, biomechanics of each type*, Life Chiropractic College West, Orlando, Florida, 2012

National Upper Cervical Chiropractic Association – Spring Conference - Structural Analysis Part 2, *Intro to Upper Cervical Biomechanics, Relationship between skull/atlas/lower cervical spine*, Life Chiropractic College West, Orlando, Florida, 2012

National Upper Cervical Chiropractic Association – Spring Conference - Headpiece Placement, *Demonstration of patient positioning on headpiece for adjusting*, Life Chiropractic College West, Orlando, Florida, 2012

National Upper Cervical Chiropractic Association – Spring Conference - Adjusting Part 1, *Development and practice of the skill of the adjusting portion of the NUCCA procedure, Hands on learning and practicing each phase with Board Certified instructors, Focusing on first half of all phases*, Life Chiropractic College West, Orlando, Florida, 2012

National Upper Cervical Chiropractic Association – Spring Conference - Image Positioning, *Setting patient in proper position for accurate analysis*, Life Chiropractic College West, Orlando, Florida, 2012

National Upper Cervical Chiropractic Association – Spring Conference - Research Overview & Update, *Current Research Projects by NUCCA Research Branch, Recent Completed Research Projects by NUCCA Research Branch, Future Research Projects by NUCCA Research Branch*, Life Chiropractic College West, Orlando, Florida, 2012

National Upper Cervical Chiropractic Association – Spring Conference - X-Ray Alignment, *Proper patient positioning procedures*, Life Chiropractic College West, Orlando, Florida, 2012

National Upper Cervical Chiropractic Association – Spring Conference - Adjusting Part 2, *Development and practice of the skill of the adjusting portion of the NUCCA procedure, Hands on learning and practicing each phase with Board Certified instructors, Focusing on second half of all phases*, Life Chiropractic College West, Orlando, Florida, 2012

National Upper Cervical Chiropractic Association – Spring Conference - Triceps Pull Adjustment, *Exercises & Drills to develop the physical skill of the upper cervical adjustment*, Life Chiropractic College West, Orlando, Florida, 2012

CPR / 1<sup>st</sup> Aid Certification, Life University, SeaTac, Washington, 2012

Communicable Diseases Training, *Etiology and Epidemiology, Transmission and Infection Control, Clinical manifestations and Treatment, Testing and Counseling, Legal and Ethical Issues, Psychosocial Issues including Special Populations, Bloodborne Pathogens, Lice, Scabies, Meningitis, Tuberculosis, SARS and influenza*, State of Washington Department of Health, Richland, Washington 2011

## **SELECTED MEMBERSHIPS**

National Upper Cervical Chiropractic Association - NUCCA, Member, 2011 – Present

Academy of Chiropractic, Member, 2017 – Present

Washington State Chiropractic Association - WSCA, Member, 2014 - 2015