Rick Junnila, D.C., D.A.A.P.M. Curriculum Vitae

Doctor of Chiropractic
Former Director Manual & Physical Medicine, Sutter Occupational Health
Certified Spinal MRI Interpretation
Certified Spinal Biomechanical Engineering
Certified Accident Reconstructionist
Diplomat American Academy of Pain Management
Chiropractic Orthopedic and Neurological Rehabilitation
Industrial Medical Evaluator
Certified Manipulation Under Anesthesia
Certified X-Ray Proficiency

SELECTED OCCUPATIONAL HISTORY

Owner, LifeStyle Health & Fitness Center, Oakley, CA, 2006 - Present

Director Manual and Physical Medicine, Sutter Occupational Health, Oakland, CA, 1999 - 2006

CEO, Castro Valley Medical Center, Castro Valley, CA, 1997 - 1999

Director Manual and Physical Medicine, Focused Rehab, Castro Valley, CA, 1994 - 1997

Owner-Partner, Delta Spine & Sportcare, Brentwood, CA, 1992 - 1994

Exam Doctor Rehabilitation Assistant, Dan Murphy, DC, DACBO, Pleasanton, CA, 1991 - 1993

Physical Therapy Aide, Institute for Physical Medicine, Pleasanton, CA, 1989 - 1991

EDUCATION AND LICENSURE

Doctor of Chiropractic, Licensed in the State of California, License # 22554, 1992

X-Ray Supervisor and Operator Licensed

Doctorate of Chiropractic, Life Chiropractic College West, Hayward, California, 1992

Internship, Life Chiropractic College, Hayward, California

SELECTED POST-GRADUATE EDUCATION, CERTIFICATIONS AND DIPLOMATES

Accident Reconstruction: Terms, Concepts and Definitions*, The forces in physics that prevail in accidents to cause bodily injury. Quantifying the force coefficients of vehicle mass and force vectors that can be translated to the occupant and subsequently cause serious injury.* [Texas Chiropractic College or PACE Recognized by The Federation of Chiropractic Licensing Boards], Academy of Chiropractic Post Doctoral Division, Long Island, NY, 2017

Accident Reconstruction*: Causality, Bodily Injury, Negative Acceleration Forces, Crumple Zones and Critical Documentation*, *Factors that cause negative acceleration to zero and the subsequent forces created for the vehicle that get translated to the occupant. Understanding critical documentation of hospitals, ambulance reports, doctors and the legal profession in reconstructing an accident.* [Texas Chiropractic College or PACE Recognized by The Federation of Chiropractic Licensing Boards}, Academy of Chiropractic Post Doctoral Division, Long Island, NY, 2017

Accident Reconstruction: *Skid Marks, Time, Distance, Velocity, Speed Formulas and Road Surfaces*, *The mathematical calculations necessary utilizing time, distance, speed, coefficients of friction and acceleration in reconstructing an accident. The application of the critical documentation acquired from an accident site.* [Texas Chiropractic College or PACE Recognized by The Federation of Chiropractic Licensing Boards], Academy of Chiropractic Post Doctoral Division, Long Island, NY, 2017

Accident Reconstruction*: Research, Causality and Bodily Injury*, *Delta V issues correlated to injury and mortality, side impact crashes and severity of injuries, event data recorder reports correlated to injury, frontal impact kinematics, crash injury metrics with many variables and inquiries related to head restraints.* [Texas Chiropractic College or PACE Recognized by The Federation of Chiropractic Licensing Boards], Academy of Chiropractic Post Doctoral Division, Long Island, NY, 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 NY 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 NY 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 NY 2017

Ethics, Documentation and Research, Primary Spine Care, *Maintaining ethical Inter-professional relationships based upon an evidenced based practice inclusive of triage, diagnostics and reporting. Creating thorough documentation that reflects your complete findings encompassing descriptive ICD-10 codes and concludes the presence or absence of pathology.* Academy of Chiropractic Post-Doctoral Division, Texas Chiropractic College, Long Island NY 2017

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, Academy of Chiropractic Post-Doctoral Division, Long Island, NY, 2017

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, Academy of Chiropractic Post-Doctoral Division, Long Island, NY, 2017

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, Academy of Chiropractic Post-Doctoral Division,

Long Island, NY, 2017

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, Academy of Chiropractic Post-Doctoral Division, Long Island, NY, 2017

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.* Texas Chiropractic College, Academy of Chiropractic Post-Doctoral Division, Long Island, NY, 2017

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, Academy of Chiropractic Post-Doctoral Division, Long Island, NY, 2017

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, Academy of Chiropractic Post-Doctoral Division, Long Island, NY, 2017

Mild Traumatic Brain Injury/Traumatic Brain Injury/Concussion, *Differentially diagnosing mild traumatic brain injury vs. traumatic brain injury and the clinical and imaging protocols required to conclude an accurate diagnosis for head trauma.* Texas Chiropractic College or PACE Recognized by The Federation of Chiropractic Licensing Boards], Academy of Chiropractic Post Doctoral Division, Long Island, NY, 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 reimburser's requirements for complete documentation.* Texas Chiropractic College or PACE Recognized by The Federation of Chiropractic

Licensing Boards], Academy of Chiropractic Post-Doctoral Division, Long Island, NY, 2017

Primary Spine Care, *Neurophysiological central and peripheral nervous systems mechanisms of pain with integrated higher cortical functions of the thalamus, cingulate, amygdala, pre-frontal, motor and sensory cortexes. Trauma and chronic pain care affecting mechanoreceptors, nociceptors and proprioceptors through adjustive therapy based upon evidenced based care and current literature verification* Texas Chiropractic College, New York State Department of Education Board for Chiropractic, Academy of Chiropractic, Academy of Chiropractic, Recognized by the PACE Program of the Federation of Chiropractic Licensing Boards, 2015

Primary Spine Care with Interdisciplinary Collaborative Care, *Triage of patients based upon MRI findings of disc herniation, disc bulge, protrusion, extrusion or sequestrations and spinal cord or nerve root negative sequella, clinical findings of neuro-compressive pathologies and neurodiagnostic findings of EMG-NCV, SSEP, VEP, BAER, VEP and V-ENG findings.* Texas Chiropractic College, New York State Department of Education Board for Chiropractic, Academy of Chiropractic, Academy of Chiropractic, Recognized by the PACE Program of the Federation of Chiropractic Licensing Boards, Islandia NY, 2015

MRI Physics and History, *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.* Accreditation Council for Continuing Medical Education (ACCME) in joint sponsorship with the State University of New York at Buffalo, School of Medicine and Biomedical Sciences, 2015

MRI Normal Anatomy and Protocols, *Spinal anatomy of all MRI views utilizing T1, T2, 3D Gradient, stacking and STIR sequences of imaging. Advanced protocols of MRI examination with multiple sequences to create concurrent diagnostic findings* Accreditation Council for Continuing Medical Education (ACCME) in joint sponsorship with the State University of New York at Buffalo, School of Medicine and Biomedical Sciences, 2015

MRI Disc & Spinal Cord and Spinal Canal Pathology, *MRI interpretation of spinal disc pathologies as a result of trauma and degenerative factors and resultant neurological compromise. Spinal Cord and Spinal canal pathologies and space occupying lesion interpretation.* Accreditation Council for Continuing Medical Education (ACCME) in joint sponsorship with the State University of New York at

Buffalo, School of Medicine and Biomedical Sciences, 2015

MRI Anatomy & History, *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.* Accreditation Council for Continuing Medical Education (ACCME) in joint sponsorship with the State University of New York at Buffalo, School of Medicine and Biomedical Sciences, 2015

MRI Disc Pathology and Spinal Stenosis, *MRI interpretation of bulged, herniated, protruded, extruded sequestered and fragmented disc pathologies in etiology and neurological sequellae in relationship to the spinal cord and spinal nerve roots.* Accreditation Council for Continuing Medical Education (ACCME) in joint sponsorship with the State University of New York at Buffalo, School of Medicine and Biomedical Sciences, 2015

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.* Accreditation Council for Continuing Medical Education (ACCME) in joint sponsorship with the State University of New York at Buffalo, School of Medicine and Biomedical Sciences, 2015

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.* Accreditation Council for Continuing Medical Education (ACCME) in joint sponsorship with the State University of New York at Buffalo, School of Medicine and Biomedical Sciences, 2015

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 sequellae.* Accreditation Council for Continuing Medical Education (ACCME) in joint sponsorship with the State University of New York at Buffalo, School of Medicine and Biomedical Sciences, 2015

MRI Interpretation of Spinal Cord, *Spinal Disc and Spinal Canal Disorders, MRI interpretation of herniated, protruded, extruded, bulged and sequestered discs & spinal stenosis as sequelae of ligamentous hypertrophy, congenital malformation,*

spinal cord pathology. Accreditation Council for Continuing Medical Education (ACCME) in joint sponsorship with the State University of New York at Buffalo, School of Medicine and Biomedical Sciences, 2015

MRI Interpretation of Herniated Disc and Spinal Cord and Root Encroachment, *MRI interpretation of herniated, protruded, extruded, bulged and sequestered discs and their relationship to the spinal cord and spinal nerve roots and the clinical correlation to spinal adjustments, manual spinal therapy and joint mobilization.* Accreditation Council for Continuing Medical Education (ACCME) in joint sponsorship with the State University of New York at Buffalo, School of Medicine and Biomedical Sciences, 2015

Spinal Biomechanical Engineering, *Cartesian Coordinate System, Cervical Pathobiomechanics, Lumbar Pathobiomechanics, Spinal Biomechanics in Trauma, Organizational Analysis, Cervical Digital Analysis, Lumbar Digital Analysis, Full Spine Digital Analysis* Accreditation Council for Continuing Medical Education (ACCME) in joint sponsorship with the State University of New York at Buffalo, School of Medicine and Biomedical Sciences, 2015

Laser Therapy, *Characteristics of Laser, Laser Physics, Safety, Mechanisms of Therapy. Dose, Time and Power. Treatment Procedures, Wound Healing, Tendinopathies, Myofascial Pain, Muscular Injury, Osteoarthritis, Sports Injury and Fatigue, Tinnitus, TMJ and Other Indications* Irradia, 2010

Hospital Protocols, *Review of Medical Staff and Committees, Admitting Procedures and Criteria, Discharge Procedures, Medical-Surgical Records, Surgical Dictation, Differential Diagnosis, Out Patient Work-Up, X-Ray, EMG, Lab Studies, and Surgical Protocols.* American Academy Manual & Physical Medicine, Doctors Hospital of New Boston, 1998

Manipulation Under General Anesthesia, *MUA Certification: Review of Anesthesiologist Procedures, Indications, Contraindications, Admitting, Techniques for the Cervical, Thoracic and Lumbar Spines, Extremities, Fibrotic Tissue Stretching Techniques, Patient Safety, Discharge, Charting and Review of Literature.* Certification in Manipulation Under Anesthesia, American Academy Manual & Physical Medicine, Doctors Hospital of New Boston, 1998

Clinical Nutrition, *Intestinal and Systemic Detoxification, Gastrointestinal Nutrition, Liver Metabolism, Immune Function, Cardiovascular, Glucose Tolerance, Pulmonary*

Function, Urological Nutrients, Musculoskeletal Nutrition, Urinalysis, Fasting, Hair Analysis, Fecal Analysis, Modified Elimination Diets, etc. Certification in Clinical Nutrition, IPS, 1997

Industrial Disability Examiner, *Medical History, Injury Mechanics, Employment History, Activities of Daily Living, Occupational Requirements, Reasonable and Necessary Treatment, Clinical Assessment, Review of Records, Causation, Apportionment, Disability Rating, etc.* International Chiropractic Association, 1997

Chiropractic Rehabilitation, *Physical Therapy Methods and Concepts: Passive Motion, Active Exercise, Strengthening Exercise, Dynamic Neuromuscular Stabilization, Soft Tissue Mobilization, Dry Needling for Muscular Fibrosis.* Canadian Memorial College of Chiropractic, 1996

Chiropractic Rehabilitation, *Neurophysiological Foundation of Physical Therapy Approaches: Neuroplasticity, Evolutionary Plasticity, Repair Placidity, Neuroplastic and Sensorimotor Programs, Training and Exercises, etc.* Canadian Memorial College of Chiropractic, 1996

Chiropractic Rehabilitation, *Entrapment Syndromes: Etiology, Manifestation, Pathogenesis, Treatment and Diagnosis. Entrapment of; Upper Thoracic Aperture, Scalenus, Costoclavicular, Hyper-Abduction, Supra Clavicular, Median Nerve, Ulnar Nerve, Radial Nerve, Femoral Nerve, Sciatic Nerve, Peronial Nerve, Tibial Nerve, etc. Treatment and Rehabilitation.* Canadian Memorial College of Chiropractic, 1996

Chiropractic Rehabilitation, *Deficits in Cerebellar Function: Vestibular System Disturbances, Unilateral Vestibular Lesion, Benign Proxismal Positional Vertigo, Bilateral Vestibular Deficit, Deficits due to Cervical Spine, Central Balance Deficits, Vertebral Artery Syndrome, Psychogenic Vertigo. Extrapyramidal Deficits; Hypokinetic and Hyperkinetic Deficits, Bradykinesia, Akinesia, Rigidity, Tremor and Postural Deficits.* Canadian Memorial College of Chiropractic, 1996

Chiropractic Rehabilitation, *Influence of Function on Morphological Tissue Restructuring: Functional Changes in Soft Tissue, Motion Restrictions, Hypermobility, Change in Afferentation from Receptors, Motor Learning from Central Regulation, Overloading causing Tendonitis, Enthesopathy, Paratenonitis, Paritendinitis and Tenosynovitis. Post-Surgical Rehabilitation. Treatment Rehabilitation and Strategies.* Canadian Memorial College of Chiropractic, 1996

Chiropractic Rehabilitation, *Degenerative Joint Diseases: Primary OA, Secondary OA, Coxarthrosis, Gonarthrosis, Surgical Procedures, Rehabilitation following Arthroplasty. Traumatology of the Movement System; Contusion, Tendon Injury, Muscle Injury, Bone Injury Joint Injury, Treatment Options, Rehabilitation.* Canadian Memorial College of Chiropractic, 1996

Roentgenology, *Shoulder - Knee - Paraspinal Soft Tissue Findings: Shoulder Disorders, Shoulder Dislocations, Shoulder Fractures, Knee Disorders, Knee Dislocations, Knee Fractures, Abdominal Aortic Aneurism Calcification in; Arteries, Prostate, Lymph Nodes, Gallstones, Urinary Calculi, Teratomas, Heart and Chest Studies, Pneumothorax, etc.* Life Chiropractic College West, 1995

Roentgenology, *Fractures of the Upper and Lower Extremities: Pott's Fracture, Jones, Calcaneal Fractures, Tibial Plateau, Patella, Toddler's, Fender Fractures. Radial Head Fractures, Supracondylar, Olecranon, Manteggia' s, Collie's, Bennett's, Smith's, Scaphoid, Gamekeeper's Thumb, etc.* Palmer Chiropractic College, 1995

Roentgenology, *Principals of Magnetic Resonance Imaging: Tendons and Muscles: Degeneration, Tenosynovitis, Tears, Subluxation/Dislocation, Indirect and Indirect Muscle Injury, Muscle Trauma. TMJ, Shoulder, Elbow, Wrist, Hand, Hip, Knee, Foot and Spine: Normal Anatomy, Tendon, Ligament, Nerve and Bone Injury both Traumatic and Non-Traumatic* Palmer College of Chiropractic, 1995

Roentgenology, *Chest Imaging: MRIiography, Scintigraphy, Bronchography, Fluoroscopy. Radiographic Signs of Chest Disease: Rosette Pattern, Silhouette Sign, Atelectasis, Interstitial Disease, Calcifications, Alterations in Lung Volume, HRTC patterns of Airway Disease, Lung Disease, Congenital Malformations, etc.* Palmer Chiropractic College, 1995

Chiropractic Rehabilitation, *Functional and Neurologic Symptomology: Postural Stability, Stabilization, Reactibility, Disturbances. Gait Cycle, Typology of Gait Dysfunctions Neurological, Examination of Postural Stabilization and Postural Reactibility. Trigger Points, Muscular Disturbances, Myotatic Reflexes, Involuntary movements, Tremor, Spasm, Clonus, Fibrillar Twitches. Chorelic and Athenoid Hyperkensesis.* Canadian Memorial College of Chiropractic, 1995

Chiropractic Rehabilitation, *Neurologic Syndromology: Myasthenia Gravis, Lambert-Eaton Myasthenic Syndrome. Peripheral Nerve Deficits. Spinal Cord: Transverse (sudden/gradual) Cord Lesions, Pseudoparetic, Spastic, Mixed Cord Lesions. Conus*

Medularis, Cauda Equina, Posterior Cord. Cerebellar Syndrome, Flaccidity, Hypermetria, Diadochokinesia, Extrapyramidal, Thalamic and Brain Stem Syndromes. Meningeal Irritation, Intracranial Hypotension and Ventricular Syndromes, etc. Canadian Memorial College of Chiropractic, 1995

Chiropractic Rehabilitation, *Kinesiology and Clinical Examination of the Joint System: Kinesiology of the Spine, Thorax, Pelvis, Shoulder Girdle, Elbow Joint, Wrist, Hand, Hip, Knee, Lower leg and Foot.* Canadian Memorial College of Chiropractic, 1995

Roentgenology, *Lumbar Spine: Low Back Syndromes and their Related X-Ray Scanning Lines and Angles, Spondylolesthesis, Spondylolysis, Retrolesthesis, Block Vertabrae, Coronal and Sagittal Tropism, Lumbar Stenosis, Spina Bifida, Lumbosacral Transitional Vertebrae, Knife Clasp Deformity, Hemi and Butterfly Vertebrae, etc.* Life Chiropractic College West, 1994

Roentgenology, *Pelvic - Sacroiliac _ Hip Roentgenology: Hip Fractures, Stenton's Line, Protrusio Acetabuli, Osteitis Condensans Ilii, Osteitis Pubis, Sacroiliac Alterations, Congenital Structural Faults, Aknalosing Spondylitis, Infections, Congenital Hip Displasia, Slipped Femoral Capital Ephysis, Osteochondrosis, etc.* Life Chiropractic College West, 1994

Roentgenology, *Cervical Spine: Whiplash Syndromes and their Related X-Ray Scanning Lines and Angles, Whiplash Syndromes, Joints of Luschka, Posterior Joint Arthrosis, Basilar Impression, Klippel-Feil Syndrome, Cervical Ribs, Twelve Indirect Signs of Cervical Spine Trauma, Cervical Fractures, etc.* Life Chiropractic College West, 1994

Roentgenology, *Primary Characteristics and Sites: Benign vs. Malignant, Infection vs. Malignant, Osteoporosis, Paget's, Target Areas of Bone Disorders* Life Chiropractic College West, CA, 1993

Roentgenology, *Bone Tumors - Benign and Malignant: Bone Tumor Characteristics - Contrast between Benign and Malignant, Neoplasms, Metastatic Carcinoma, and Sarcoma.* Life Chiropractic College West, 1993

Roentgenology, *Arthritis and Osteochondrosis: Osteoarthritis, Infective Arthritis, Inflammatory Arthritis and Gout. Non-Articular Rheumatism. Legg-Calve-Perthes', Scheuermann's disease, Traumatic Epiphysitis, Osgood Schlatter's, Sever's Disease, Kohler's, Kienbock's Disease, etc.* Life Chiropractic College West, 1993

Roentgenology, *The Vertebral Motor Unit: Degeneration of Motion Segments, Effects of Subluxation, Vertebral Body Fractures, Congenital/Developmental/Pathological Vertebral Body Alterations, Schmoral's Nodes, Persistent Notochord, Bone-Within-A-Bone, Ivory Vertebrae, Ruptured Disc, Disc Bulge, Herniation, Circumferential Tears, etc.* 1993

SCHOLARLY PRESENTATIONS

Hart, J., Junnila, R. (2004). ***Anesthesia Assisted Traction and Fibrosis Procedures Including Manipulation*** Topics: Safety, Cost Effectiveness, MUA vs Laminectomy, Literature Review 1952-2002, Fibrosis of Repair, Techniques, Out Patient Surgical Center Protocols. presented at the Seminar, Sutter Occupational Sacramento, CA.

Junnila, R. (2001, October). ***Science of Manipulation, Chiropractic's Role in Modern Healthcare*** Topics Covered: The Neurophysiology of an Adjustment, Kinesiopathomechanics, Afferent and Efferent Neurophysiology, Fibrosis of Repair, Indications and Contraindications to Treatment, Disc Injury Types, Neurological Deficits, Myofascial Release, Protocols presented at the Seminar, Sutter Symposium, Vallejo, CA.

SELECTED TEACHING/INSTRUCTING/LECTURING/CONSULTING

Lecturer, Treatment and Diagnosis of Spinal Injury, Spinal MRI, Spinal Biomechanics and Neurophysiological Pathways of Manipulation. Accreditation Council for Continuing Medical Education (ACCME) in joint sponsorship with the State University of New York at Buffalo, School of Medicine and Biomedical Sciences, 2015 - Present

Lecturer, Current Clinical Concepts in Chiropractic, Brentwood , CA, 2013- Present

Lecturer, Industrial Injury Prevention, CA, 2008- Present

Instructor, Anesthesia Assisted Traction and Fibrosis Procedures Including Manipulation, Sutter, Sacramento, CA, 2004