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www.KellerSpine.com

www.My1Liter.com

www.UltimateSpinalAnalysis.com

SELECTED OCCUPATIONAL HISTORY

Owner/Registered Nurse, 1 Liter LLC, Keller, TX, 2023

Owner, Ultimate Spinal Analysis, Keller, TX, 2010-Present

Clinic Director/Owner, Chiropractor, Keller Spine and Auto Injury. Keller, TX, 1997-Present

Licensed Vocational Nurse, Nurse Finders, Dallas Fort Worth, TX, 1990-2005

U.S. Army, Combat Medic, 8th Infantry. Germany, Texas, 1983-1986

SELECTED EDUCATION AND LICENSURE

Registered Nurse, Texas Board of Nursing, License # 1101783, Austin, TX 2023-Present.

Bachelor of Science in Nursing, Suma Cum Laude 4.0 gpa, Texas Tech University Health Sciences Center, Lubbock, TX. 2022

Bachelor of Science in Anatomy, Parker University, Dallas, TX. 2021

Digital Radiographic Imaging Technologist, International Digital Technologies and Texas Chiropractic College, Pasadena, TX. 2010

Doctor of Chiropractic, Licensed in the State of Texas, License #DC7229, 1997-Present

Doctorate of Chiropractic, Parker College of Chiropractic, Dallas, TX. 1997 Certified in

Exercise Physiology, Parker College of Chiropractic, Dallas, TX. 1996 National Board of

Chiropractic Examiners, Physiotherapy, 1996 National Board of Chiropractic Examiners, Part IV, 1996

National Board of Chiropractic Examiners, Part III, 1995

National Board of Chiropractic Examiners, Part II, 1995

National Board of Chiropractic Examiners, Part I, 1994

Undergraduate Studies in Pre-Medicine, University of Texas at Arlington, Arlington, TX. 1991-1993

Undergraduate Studies in Pre-Medicine, Brookhaven Junior College, Richardson, TX. 1990-1991

Licensed Vocational Nurse, Texas Board of Nursing, Austin, TX. 1990-2005 Associate

Degree in Applied Science, New Mexico Junior College, Hobbs, N.M. 1990 Associate

Degree in Nursing, New Mexico Junior College, Hobbs, N.M. 1990 Emergency Medical

Technician, Central Texas College-Europe Campus, Germany, 1985 U.S. Army Diploma,

Combat Medical Specialist, Fort Sam Houston, TX. 1983

SELECTED POST-GRADUATE EDUCATION, CERTIFICATIONS and DIPLOMATES

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 sequela to trauma in relationship to bulges, herniations, protrusions, extrusions and sequestrations. Aberrant spinal biomechanics and negative sequela to trauma*, Texas Chiropractic College, Academy of Chiropractic, Setauket NY, 2016

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 NY, 2016

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, Setauket NY, 2016

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 bod in both pain and systemic stimulation*, Texas Chiropractic College, Academy of Chiropractic, Setauket NY, 2016

Certified in Vestibular Rehabilitation. *The Vestibular Rehab Cookbook: How to successfully evaluate, diagnose, & treat your patients. Accurately assess positional vertigo, cervicogenic vertigo, and other peripheral and central causes to properly treat "dizziness." Utilizing the most current evidence-based practice to create progressive vestibular rehabilitation treatment plans for various conditions.* Cross Country Education, Dallas, TX, 2016

Head Trauma, Brain Injury and Concussion, *Brain and head physiology, brain mapping and pathology as a sequela to trauma. Traumatic brain injury, mild traumatic brain injury, axonal shearing, diffuse axonal injury and concussion are detailed in etiology and clinically. Clinical presentation advanced diagnostic imaging and electro diagnostics are detailed in analysis to create a differential diagnosis. Balance disorders that often occur as a result of trauma are also explored from clinical presentation to advanced imaging and differential diagnosis.* CMCS Post-Doctoral Division, New York Chiropractic Council, New York State Department of Education, Board for Chiropractic, Long Island, NY, 2012

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.* CMCS Post-Doctoral Division, New York Chiropractic Council, New York State Department of Education, Board for Chiropractic, Long Island, NY, 2012

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.* CMCS Post-Doctoral Division, New York Chiropractic Council, New York State Department of Education, Board for Chiropractic, Long Island, NY, 2012

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. CMCS Post-Doctoral Division, New York Chiropractic Council, New York State Department of Education, Board for Chiropractic, Long Island, NY, 2012

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.* CMCS Post-Doctoral Division, New York Chiropractic Council, New York State Department of Education, Board for Chiropractic, Long Island, NY, 2012

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.* CMCS Post-Doctoral Division, New York Chiropractic Council, New York State Education Department, Board for Chiropractic, Long Island, NY, 2012

Credentials and Clinically Correlating Causality, *The significance documentation and credentials in the personal injury field with a focus on clinically correlating causality, bodily injury and persistent functional loss as sequelae.* Academy of Chiropractic Post-Doctoral Division, New York Chiropractic Council, New York State Department of Education, Board for Chiropractic, Long Island, NY, 2012

Utilization of Research in the Clinical Setting, *utilizing peer reviewed scientific literature in creating a diagnosis, prognosis and treatment plan for the chronic and acute patient. How to implement and stay current on techniques and technology in healthcare,* CMCS Post-Doctoral Division, New York Chiropractic Council, New York State Education Department, Board for Chiropractic, Long Island, NY, 2012

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 patient.* CMCS Post-Doctoral

Division, New York Chiropractic Council, New York State Education Department, Long Island, NY, 2012

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.* CMCS Post-Doctoral Division, New York Chiropractic Council, New York State Education Department, Board for Chiropractic, Long Island, NY, 2011

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.* CMCS Post-Doctoral Division, New York Chiropractic Council, New York State Education Department, Board for Chiropractic, Long Island, NY, 2011

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.* CMCS Post-Doctoral Division, New York Chiropractic Council, New York State Education Department, Board for Chiropractic, Long Island, NY, 2011

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.* CMCS Post-Doctoral Division, New York Chiropractic Council, New York State Education Department Board for Chiropractic, Long Island, NY, 2011

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.* CMCS Post-Doctoral Division, New York Chiropractic Council, New York State Education Department Board for Chiropractic, Long Island, NY, 2011

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. CMCS Post-Doctoral Division, New York Chiropractic Council, New York State Education Department Board for Chiropractic, Long Island, NY, 2011

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.* CMCS Post-Doctoral Division, New York Chiropractic Council, New York State Department of Education Board for Chiropractic, Long Island, NY, 2011

Certified as a Digital Radiographic Imaging Technologist (D.R.I.T.), *utilizing the DXAnalyzer™, provide computerized digital analysis and biomechanical mensuration reports of radiographs. Provides objective evidence that identifies proves, measures, and quantifies “soft tissue” injury and motion segment integrity in relation to spinal trauma.* Evidence based technology. *Follows the American Medical Association Guides to the Evaluation of Permanent Impairment 4th, 5th, and 6th edition.* International Digital Technologies, Plano, TX, 2010

Impairment Rating Certification, *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.* CMCS Post-Doctoral Education Division, New York Chiropractic Council, New York State Education Department, Long Island, NY, 2010

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.* CMCS Post-Doctoral Division, New York Chiropractic Council, New York State Department of Education, Board for Chiropractic, Long Island, NY, 2010

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.* CMCS Post-Doctoral Division, New York Chiropractic Council, New York State Department of Education, Board for Chiropractic, Robert Peyster MD, Neuroradiologist, Long Island, NY, 2010

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.* CMCS Post-Doctoral Division, New York Chiropractic Council, New York State Department of

Education, Board for Chiropractic, Robert Peyster MD, Neuroradiologist, Long Island, NY, 2010

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. CMCS Post-Doctoral Division, New York Chiropractic Council, New York State Department of Education, Board for Chiropractic, Robert Peyster MD, Neuroradiologist, Long Island, NY, 2010

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. CMCS Post-Doctoral Division, New York Chiropractic Council, New York State Department of Education, Board for Chiropractic, Robert Peyster MD, Neuroradiologist, Long Island, NY, 2010

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. CMCS Post-Doctoral Division, New York Chiropractic Council, New York State Department of Education, Board for Chiropractic, Magdy Shady MD, Neurosurgeon, Long Island, NY, 2010

Diplomate, American Academy of Medical Legal Professionals, 2009

Certification as a Powerlift Instructor, Powerlift System applied training on safe material handling (including lifting, bending and twisting) techniques for preventing neuromusculoskeletal injuries at home and in the workplace. Northwestern Health Sciences University, Minneapolis, MN, 2009

Certification as a True Spinal Decompression Therapist, Cervical and lumbar non-surgical spinal decompression utilizing the DRX 9000 and DRX 9000c. Axiom Worldwide, Tampa, FL, 2005

Digital Motion X-Ray, Using digital x-ray to diagnosis the personal injury patient. An understanding of the ligamentous injuries associated with motor vehicle crash victims. DRX Works, Tampa, FL, 2003

Whiplash and Brain Injury Traumatology, the entire year of scientific research and publication from the diverse fields of clinical medicine and automotive safety engineering, as well as research coming directly from SRISD and its research affiliate, the Center for Research into Automotive Safety and Health. Spine Research Institute of San Diego, San Diego, CA, 2002

Whiplash and Brain Injury Traumatology, Module 4, Medicolegal Issues, Fundamentals for Practitioners and Forensic Experts, *Foundations for successful outcome in medicolegal cases. Preparing for depositions, arbitration in court and the use of demonstrative evidence.* Spine Research Institute of San Diego, Chicago, IL, 2002

Whiplash and Brain Injury Traumatology, Module 3, Narrative Report Writing and Practice Development, Principles of Impairment Rating and Forensic Documentation, *Comprehensive and compelling narrative report construction. Critical forensic documentation skills, impairment requirements and rebuttal strategies.* Spine Research Institute of San Diego, Chicago, IL, 2002

Whiplash and Brain Injury Traumatology, Module 2, Advanced Diagnostics, Treatment and Auto Crash Reconstruction, Management Principles in Personal Injury, *Critical history taking and physical examination skills. Radiographic and advanced imaging, including, CT, MRI, scintigraphy, PET, SPECT, and others. Electrodiagnostic testing and their applications in whiplash. Therapeutic approaches to successful management of whiplash and mild traumatic brain injuries.* Spine Research Institute of San Diego, Chicago, IL, 2002

Whiplash and Brain Injury Traumatology, Module 1, Advanced Topics: The Fundamental Science, *the current state of knowledge of whiplash phenomenon, including all factors affecting injury risk and outcome. In-depth biomechanics, traumatology epidemiology, review of outcome studies, and common sequelae of whiplash, including brain injuries, pain syndromes, thoracic outlet syndrome, carpal tunnel syndrome, and chronic pain disorders.* Spine Research Institute of San Diego, Chicago, IL, 2002

Certification in the Cox® Technique, *Spinal manipulation that is non-surgical, established, and evidence-based treatment for spine pain. Used to attain the highest positive clinical outcomes for acute and chronic back pain as well as failed back surgical syndromes.* National Chiropractic College, Lombard, IL, 2001

Protect Your Back, *Basic anatomy, methods for protecting the back for overall fitness, correct posture, ergonomics, and practice in moving objects properly and exercises to strengthen muscles and increase flexibility.* American Red Cross, Fort Worth, TX, 1998

SELECTED PUBLICATIONS

Fernandez, P.G. (2007). The neck pain prevention secrets of over 100 chiropractors. *Neck Pain Neck Pain You Don't Want It You Don't Need It* (pages 3-273). South Carolina: Fernandez Press (contributing author).

SELECTED MEMBERSHIPS & ORGANIZATIONAL ACTIVITIES

Phi Kappa Phi, National Honor Society, member, 2023.

Sigma Theta Tau, International Honor Society of Nurses, member, 2022-present.

Tarrant County Bar Association, Member, 2012-present.

American Academy of Medical Legal Professionals, President, Texas Chapter, 2012-present.

American Academy of Medical Legal Professionals, Member, 2009-Present
American Academy of Pain Management, Member, 2009-Present

Texas Chiropractic Association, Member, 1997-2000

SELECTED HONORS & AWARDS

Suma Cum Laude, Texas Tech University Health Sciences Center, Lubbock, TX 2022

Chiropractor of the Year, Consumer Business Review, 2002

SELECTED COMMUNITY SERVICE

Scottish Rite Masonic Lodge, 32nd Degree Scottish Rite Mason, Fort Worth and Keller, TX, 2002-Present

Keller and Fossil Ridge High School Ice Hockey Team, Coach, Trainer, Chiropractor, Keller, TX, 1998-2003