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SELECTED OCCUPATIONAL HISTORY

Clinic Director, Chiropractor, Orange Spine & Disc Rehabilitation Center, Orange, California, 1988 - Present

Initial Clinical Reviewer, CID Management, Inc., Westlake Village, California, 2016 – 2018

Chiropractor, Anaheim Hills Chiropractic Clinic, Anaheim Hills, California, 1986 - 1988

EDUCATION AND LICENSURE

Doctor of Chiropractic, Licensed in the State of California, License #DC17706, 1986-Present

Doctorate of Chiropractic, Los Angeles College of Chiropractic, Whittier, California 1986

Internship, Whittier Health Center, Whittier, California, 1985 - 1986

National Board of Chiropractic Examiners, Part I, 1984

National Board of Chiropractic Examiners, Part II, 1985

Pre-Chiropractic Education, California State University at Fullerton, Fullerton, California, 1982-1983

Pre-Chiropractic Education, Fullerton College, Fullerton, California, 1980-1982

SELECTED POST-GRADUATE EDUCATION, CERTIFICATIONS AND DIPLOMATES

MRI of the Lumbar Spine Criteria for ordering MRI, *How do xrays, MRI and CT differ? Ordering MRI: With or without contrast, Anatomy shown on the sagittal, parasagittal and axial images, Nomenclature of disc pathology, What is the disc doing to the nerves, How does the information on MRI affect my treatment plan/protocol?* Back to Chiropractic CE Seminars, December 2021

Differential Diagnosis of Head & Neck Conditions *Recognize the red flags of the conditions for proper referral, Differentiate common head and neck conditions seen in a chiropractic office, Review anatomy and physiology of the cervical spine, Provide lists of key questions in history taking, demographics, and classic presentation of each condition, and Review lists of positive physical exam findings and suggested management on each condition.* Back to Chiropractic CE Seminars, December 2021

Radiology of the Cervical Spine *Radiology positioning, Evaluating xrays, Case studies of the cervical spine with topics of congenital anomalies, degenerative changes & trauma.* Back to Chiropractic CE Seminars, November 2021

Health Care Provider CPR, BLS Re-Certification *Basic life support, CPR course for health professionals: Adult, Child and Infant CPR, AED use.* SureFire CPR, Orange CA, American Heart Assoc. March 2021

Radiology of the Cervical spine, *Radiographic Anatomy of, Identifying and Diagnosing Common Cervical spine Disorders on Plain film x-rays.* Back to Chiropractic CE Seminars, December, 2020

Personal Injury Legal Issues and Ethics, *Ethical considerations and laws governing personal injury practice.* Back to Chiropractic CE Seminars, December, 2020

Neurology Made Easy, *Clinical neurology. How to recognize and evaluate the very common neurological deficits seen in a chiropractic practice. What tests mean, when each test should be done and why it is the chiropractor's ethical responsibility to perform these tests or screen for these neurological conditions.* Back to Chiropractic CE Seminars, December, 2020

Radiology of the Cervical spine, *Radiographic Anatomy of, Identifying and Diagnosing Common Cervical spine Disorders on Plain film x-rays.* Back to Chiropractic CE Seminars, November, 2019

History and Exam of the Shoulder, Anatomy and Physiology of, *Identifying, Diagnosing and Managing Common Shoulder Injuries.* Back to Chiropractic CE Seminars, November, 2019

History and Exam of Post Traumatic Stress Disorder, *Causes of, Identifying, Diagnosing and Managing PTSD.* Back to Chiropractic CE Seminars, November, 2019

Health Care Provider CPR, BLS Re-Certification *Basic life support, CPR course for health professionals: Adult, Child and Infant CPR, AED use.* SureFire CPR, Orange CA, American Heart Assoc. March 2019

History and Examination of Concussion and Neurological Injuries, *Proper history of concussion symptoms and how to examine those symptoms using questionnaires from the Centers for Disease Control, the Epworth Hospital in Australia and the Rivermead Head*

Injury Center in Aberdeen, England. Common neurological injuries that occur in trauma cases afflicting the central nervous system and the peripheral nervous system. International Chiropractic Association, Santa Ana, CA, December 2018

QME AMA Impairment Rating; *Use of the AMA Guides to Permanent Impairment, 5th Edition, DRE and ROM methods for calculating permanent impairments from injuries.* Back to Chiropractic CE Seminars, December, 2018

Worker's Compensation Billing and Coding; *Proper reporting and coding for CA worker's compensation billing.* Back to Chiropractic CE Seminars, December, 2018

Dept of Transportation Federal Motor Carrier Safety Administration Commercial Driver Medical Examiner certification training. Innercalm Associates, Glendale, CA, December 2017

History and Exam of Concussions, *The difference between Mild Traumatic Brain Injury (MTBI) and Traumatic Brain Injury (TBI) and the six different categories of MTBI symptoms. Proper history of concussion symptoms and how to examine those symptoms using questionnaires from the Centers for Disease Control, the Epworth Hospital in Australia and the Rivermead Head Injury Center in Aberdeen, England.* Back to Chiropractic CE Seminars, December, 2017

History and Exam Neurology of Trauma, *Common neurological injuries that occur in trauma cases afflicting the central nervous system and the peripheral nervous system.* Back to Chiropractic CE Seminars, December, 2017

Personal Injury Ethics and Law, *Ethical pitfalls and common errors of omission made by chiropractors in the treatment of personal injury patients such as failure to diagnose many traumatic injuries that commonly occur in car accidents. How to conduct a proper consultation of a patient who has been in car accident so that injuries are not overlooked or missed.* Back to Chiropractic CE Seminars, December, 2017

Personal Injury Narrative Writing, *Teaching and demonstrating the degree of competence necessary to prove a personal injury case to both claims adjusters and in court, avoid negligence, and being able to prove that no insurance fraud has occurred. Information needed to be obtained from the patient pertaining to the history, physical exam, radiology, management, and treatment of a personal injury case.* Back to Chiropractic CE Seminars, December, 2017

Gonstead Chiropractic technique, *Overview of Gonstead subluxation listings, analysis and corrective treatment.* International Chiropractic Association, Costa Mesa, CA, December 2016

Clinical Laboratory Testing, *Overview of Standard Blood Tests, Understanding Lab Reporting; Reference Ranges, Normal, Abnormal Results, Understanding Lab Results*

with nutritional considerations, high risk values and referral protocols. Back to Chiropractic CE Seminars, November 2016

Radiology of the Abdomen, Online Study, Chapter 1-- Introduction and Methods of Examination, Chapter 2--Radiographic Anatomy, Chapter 3--Organomegaly, Chapter 4--Calcifications, Pt.1, Chapter 4b--Calcifications, Pt. 2, Chapter 5--Abnormal Air. Northwestern Health Sciences University, Bloomington, MN. May 2016

Health Care Provider CPR, BLS Certification Basic life support, CPR course for health professionals: Adult, Child and Infant CPR, AED use. American Academy of CPR and First Aid, Inc. April 2016

Impairment Rating of the Spine and Extremities using the 5th Edition AMA Guides. Module 1: Claim Core Process; Claim Segmentation; Colossus history, current usage, value drivers, impairment rating; AMA Guides 5th Edition; The Assessment: History, Physical Exam, Range of Motion, Neurological Assessment, Diagnostic studies: AOMSI, CT/MRI, EMG/NCV Provider Compliance Solutions, Inc., Dallas, Texas. 2016

Impairment Rating of the Spine and Extremities using the 5th Edition AMA Guides Module 2: Impairment terms: Muscle spasm, Muscle Guarding, Asymmetry of Spinal Motion, Non-verifiable Radicular Root pain, Reflexes, Weakness/Loss of Sensation, Atrophy, Radiculopathy, Alteration of Motion Segment Integrity; LMSI Cervical spine; Cauda Equina syndrome; Methods of Impairment: Diagnosis related Estimate (DRE), Range of Motion (ROM), DRE vs. ROM; When to use ROM Provider Compliance Solutions, Inc., Dallas, Texas. 2016

Performing an Impairment Rating of the Spine and Extremities using the 5th Edition AMA Guides Module 3, 4: Methods of Impairment: Diagnosis related Estimate (DRE), Range of Motion (ROM), DRE vs. ROM; When to use ROM; How to assign cervical, thoracic and lumbar spine impairment using DRE tables; How to determine Translation and Angulation of Loss of Motion Segment Integrity in cervical, thoracic and lumbar spine Provider Compliance Solutions, Inc., Dallas, Texas. 2016

Performing an Impairment Rating of the Spine and Extremities using the 5th Edition AMA Guides Module 5: Permanent impairment rating of upper extremities (UE); ROM impairment of upper extremity; Sensory impairment of upper extremity; Motor impairment of upper extremity; Combining impairments of multiple joints in the UE; Converting impairment of digits to extremity, converting upper extremity impairment to Whole Person Impairment, Provider Compliance Solutions, Inc., Dallas, Texas. 2016

Performing an Impairment Rating of the Spine and Extremities using the 5th Edition AMA Guides Module 6: Permanent impairment rating of lower extremities (LE); ROM impairment of lower extremity; Sensory impairment of lower extremity; Motor impairment of lower extremity; Combining impairments of multiple joints in the LE; Converting impairment of digits to extremity, converting lower extremity impairment to Whole Person Impairment, Provider Compliance Solutions, Inc., Dallas, Texas. 2016

Performing an Impairment Rating of the Spine and Extremities using the 5th Edition AMA Guides *Module 7: Review of Colossus, Use of AMA Guides 5th Edition, Impairment Rating terms, Methods of rating impairment: DRE vs ROM for spine and extremities*, Provider Compliance Solutions, Inc., Dallas, Texas. 2016

Performing an Impairment Rating of the Spine and Extremities using the 5th Edition AMA Guides *Module 8: Case studies of impairment ratings of various patients using DRE and ROM methods for spine and extremities; How to prepare Permanent Impairment Rating Report using software*, Provider Compliance Solutions, Inc., Dallas, Texas. 2016

MRI, *Overview of technology, T1, T2, STIR sequences, Clinical analysis, Common disorders of the spine* Back to Chiropractic CE Seminars, 2015

Physiotherapy, *soft tissue injury, repair and remodeling, physiotherapy principles, physiotherapy modalities to alleviate pain, improve healing*. Back to Chiropractic CE Seminars, 2015

Skeletal Imaging, *Clinical case studies of skeletal conditions using plain film radiography (X-ray), computed tomography (CT) and magnetic resonance imaging (MRI)*. International Chiropractic Association, Torrance, CA, 2015

Lifestyle Medicine: Acute Low Back Pain., *Reviewing lifestyle factors that influence acute back pain: physical activity, BMI, smoking, recreational sports, and heavy lifting and the use of imaging and various therapeutic approaches to manage acute low back pain*, Harvard Medical School, Department of Continuing Education, 2015

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*. New Jersey State Board of Chiropractic Examiners, AACME Joint Sponsorship with the State University of New York at Buffalo, School of Medicine and Biomedical Sciences and CMCS Post-Doctoral Division, Buffalo, NY, 2014

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*. New Jersey State Board of Chiropractic Examiners, AACME Joint Sponsorship with the State University of New York at Buffalo, School of Medicine and Biomedical Sciences and CMCS Post-Doctoral Division, Buffalo, NY, 2014

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*. New Jersey State Board of Chiropractic Examiners, AACME Joint Sponsorship with the State

University of New York at Buffalo, School of Medicine and Biomedical Sciences and CMCS Post-Doctoral Division, Buffalo, NY, 2014

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.* New Jersey State Board of Chiropractic Examiners, AACME Joint Sponsorship with the State University of New York at Buffalo, School of Medicine and Biomedical Sciences and CMCS Post-Doctoral Division, Buffalo, NY, 2014

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.* New Jersey State Board of Chiropractic Examiners, AACME Joint Sponsorship with the State University of New York at Buffalo, School of Medicine and Biomedical Sciences and CMCS Post-Doctoral Division, Buffalo, NY, 2014

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.* New Jersey State Board of Chiropractic Examiners, AACME Joint Sponsorship with the State University of New York at Buffalo, School of Medicine and Biomedical Sciences and CMCS Post-Doctoral Division, Buffalo, NY, 2014

Neurology: *Brain and spinal anatomy, nerve plexuses, disc and nerve/muscle physiology. Differential diagnosis with respect to common chiropractic cases such as; disc syndrome, nerve root vs peripheral lesions. Hemisphericity and how it affects musculoskeletal and visceral structures. Neuro-rehabilitative therapies for greater patient outcome and patient retention. Commonly ingested chemicals and their affects on neurophysiology.* Back to Chiropractic CE Seminars, 2014

Differential Diagnosis: *Skeletal Conditions Using Plain Film Radiography. Normal variants, fractures, infection, tumors.* International Chiropractic Association of California, Irvine, California, 2014

Imaging in Skeletal Trauma, *Clinical review of skeletal radiological findings associated with trauma. Protocols for ordering and interpreting plain film radiography, Computed Tomography (CT), Magnetic Resonance Imaging (MRI) and Bone Scintigraphy (Bone Scan).* International Chiropractic Association of California, Irvine, California, 2013

Assessing Medical Fitness to Return to Work, *Essential fitness to work definitions such as impairment or restrictions, disability, functional capacity examinations, systematic approach to fitness to work assessments using the American Medical Association publication Guides to the Evaluation of Work Ability and Return to Work and the American College of Occupational and Environmental Medicine (ACOEM) guidelines,* Harvard Medical School, Department of Continuing Education, 2013

Personal Injury, *History taking, physical examination, diagnosing and proper documentation of auto accident injuries*. International Chiropractic Association of California, Irvine, California, 2012

Personal Injury Update, *Latest medical research and legislative changes affecting the care of personal injury patients*. International Chiropractic Association of California, Irvine, California, 2011

Corrective Exercises for Common Injuries, *Active and passive exercises for spine and extremity injuries after trauma*. Innercalm Associates, Burbank, California, 2010

11th Annual SRISD Scientific Conference, *A review of important new literature and research in whiplash and brain injury from automobile collisions from the past year*. Spine Research Institute of San Diego, Coronado, California, 2009

Clinical Mastery of the Cold Laser, *Understanding the fundamentals and characteristics of laser physics and the biological basis of low level laser light therapy. This course demonstrated the implementation of laser as a pain management tool and to achieve treatment goals of stabilization of the injured area, improvement of range of motion, increase muscle strength/endurance/flexibility, and reduction of inflammation* Erchonia, Inc Clinical Seminars, Newport Beach, California, 2007

Pediatric Radiology & Infant Physical Examination of the Spine & Extremities, *Normal pediatric spine and extremity radiography, common pathologies of the pediatric spine and extremities*. Palmer Institute for Professional Advancement, Anaheim, California, 2005

Advanced Certification of Competency Whiplash and Brain Injury Traumatology, *Science-based training program designed to provide treating physicians with the critical tools they need to successfully manage victims of motor vehicle trauma in order to achieve optimal clinical outcomes*. Spine Research Institute of San Diego, Coronado, California, 2004

Whiplash and Brain Injury Traumatology Program, *Module 4, Foundations for successful outcome in medicolegal cases. Preparing for depositions, arbitration, and court. Use of demonstrative evidence. Learn to avoid pitfalls, take advantage of your opponent's weaknesses, and gain total confidence in all medicolegal proceedings*. Spine Research Institute of San Diego, Newport Beach, California, 2004

Whiplash and Brain Injury Traumatology Program, *Module 3, Critical documentation from day 1; What every personal injury and forensic expert needs to know, the fundamental of expository, scientific writing you were never taught; common dos and don'ts, the essential craft of narrative report preparation from A-Z; style, strategy, methods, organization, and common pitfalls, incorporating outcomes assessment and disability instruments into your reports (SCL-90-R, Oswestry, Roland-Morris, Rivermead PCS, and more), the application of AMA guidelines in personal injury and forensic*

practice, modern guidelines and best practices (Presley Reed, Mercy, QTF, ACOEM, Croft); how they are commonly abused and how and when to use them correctly Spine Research Institute of San Diego, Newport Beach, California, 2004

Whiplash and Brain Injury Traumatology Program, *Module 2, In-depth training on all aspects of management of trauma, from beginning to end; a comprehensive primer on crash reconstruction. Auto crash reconstruction in low speed crashes: critical knowledge for today's forensic practitioners, historical documentation in personal injury and forensic medicine applications, comprehensive physical examination of whiplash and traumatic brain injury, special laboratory methods, such as the S-100 protein, the latest techniques, special diagnostic imaging modalities (SPECT, PET, MRI, MRA, VF, etc.); how and when to use, electro diagnostics (EMG, SEMG, SSEP, VEP, ETC...); how to use, rendering a diagnosis/impression in the personal injury or forensic setting; pearls and pitfalls, soft tissue healing times and implications for successful case management. The state of the injury and implications for case management: designing a treatment plan and living with guidelines, important applications of activities of daily living; optimizing outcomes, chiropractic manipulation, deep tissue massage, and PT Modalities for best outcomes.* Spine Research Institute of San Diego, Newport Beach, California, 2004

Whiplash and Brain Injury Traumatology Program, *Module 1, Requisite and comprehensive biomechanics knowledge for forensic experts Whiplash and brain injuries: the real reasons they are on the rise, the minimal property damage = minimal injury risk myth exposed, In-depth analysis of brain, neck, and cervical spine trauma mechanisms, soft tissue injuries: a comprehensive and cutting edge analysis, all clinical syndromes and conditions resulting from Whiplash (WAD/CAD), forensic experts need to know about the various pain syndromes risk assessment: the fundamental key to modern forensic practice..* Spine Research Institute of San Diego, Newport Beach, California, 2004

Practice Guidelines Workshop *Understanding and applying the American College of Occupational & Environmental Medicine Occupational Medicine guidelines to injured workers.* Palmer Institute for Professional Advancement, Irvine, California, 2004

9th Annual SRISD Scientific Conference, *A review of important new literature and research in whiplash and brain injury from automobile collisions from the past year.* Spine Research Institute of San Diego, Coronado, California, 2004

Physical Diagnosis Online Clinical Lectures, *Patient interviewing, acquiring a medical data base, and performing a comprehensive physical examination.* University Health Sciences Antigua, School of Medicine, St. John's, Antigua, 2003

Physical Diagnosis 72 Hours Clinical Internship, *Performed triage, history taking, physical examination, rendered diagnoses and created treatment plans for urgent care patients as part of Physical Diagnosis online course, Southland Family Urgent Care,*

Mission Viejo, CA July – August 2003. University Health Sciences Antigua, School of Medicine, St. John's, Antigua, 2003

Pathology Online Clinical Lectures, *Correlation of the clinical and anatomical manifestations of systemic pathologies*. University Health Sciences Antigua, School of Medicine, St. John's Antigua, California, 2003

Pharmacology Online Clinical Lectures, *Pharmacological principles and the therapeutic and toxic actions of important drugs and poisons, principles of drug absorption, metabolism and pharmacodynamics, drug-drug interaction, and drug interactions with diet*. University Health Sciences Antigua, School of Medicine, St. John's, Antigua, 2003

New Era in Whiplash & Spinal Trauma, *The Literature with respect to duration of pain, natural history of tissue healing, functional recovery rate and probability of chronic pain syndrome from motor vehicle soft tissue trauma. The literature and principles of hyperextension soft tissue trauma with respect to myofascial pain syndromes, articular dysfunctions, and myofascial pain syndromes, the treatment of chronic and/or disabling spine pain with spinal manipulative therapy*. Life College of Chiropractic/ International Chiropractic Association, Irvine, California, 2001

Whiplash & Spinal Trauma II, *The literature as to the tissue source of chronic back and neck pain, and how they relate to motor vehicle collisions, the body response to tissue trauma, tissue differentiation, types and quality of tissue healing; principles of healing by regeneration, repair and fibrosis. The role of chiropractic adjustments in accelerating tissue healing, restoration of motion, improved joint mechanics and higher quality scar tissue. The referred pain syndrome of spinal pain and its clinical presentation, the principles of the double crush syndrome as it relates to spinal trauma*. Life College of Chiropractic/International Chiropractic Association, Anaheim, California, 1999

Whiplash & Spinal Trauma I, *The principles of inertia, acceleration, velocity, mass and friction as they relate to spinal trauma and motor vehicle collisions. Specific aspects of hyperextension injury and the tissue injuries sustained, aspects of rebound flexion injury and the tissue injuries sustained. The neuroanatomy of the intervertebral disc and facet articulations, the effects of osseous adjusting on the pain afferents and mechanoreceptors of the intervertebral disc and facet articulations* Life College of Chiropractic/ International Chiropractic Association, Irvine, California, 1999

Medico-Legal Preparation: Auto Injury Mechanics, *Comprehensive record keeping and reporting for whiplash, spinal trauma and soft tissue injury cases. Protocols of testing for spinal evaluations and documenting "medical necessity," including the Mercy Conference Document*. Life College of Chiropractic/ International Chiropractic Association, Buena Park, California, 1999

Chiropractic Orthopedic Assessment and Treatment, *Physical examination and diagnostic imaging of common spine and extremity bone, joint, muscle, tendon, ligament*

and disc disorders and injuries. Cleveland Chiropractic College, Riverside, California, 1998

Automobile Accident Reconstruction, Physics involved in the transference of energy from the bullet car to the target car including G's of force, Newton's, gravity, skid marks, crumple zones, spring factors, and event data recorders. Determining the clinical correlation of forces and bodily injury. California Chiropractic Association, Irvine, California, 1997

Certification in Industrial Disability Evaluator, Medical/Legal Consultants Association, San Diego, California, 1996

Certification as an Industrial Disability Evaluator, International Chiropractic Association, Irvine, California, 1995

Certification as an Industrial Disability Evaluator, International Chiropractic Association, Irvine, California, 1994

Certification as an Industrial Disability Evaluator, International Chiropractic Association, Irvine, California, 1993

Qualified Medical Evaluator, State of California, Industrial Medical Council, Los Angeles, California, 1992

Board Eligible, Chiropractic Orthopedist, Los Angeles College of Chiropractic Post Graduate School – Department of Orthopedics, Whittier, California, 1986-1989

Certification in Applied Spinal Disability/Spinal Impairment Rating Proficiency, LACC Post Graduate School - Department of Orthopedics, San Diego, California, 1987

Certification in Supervising and Operating Radiology Equipment, State of California, Department of Health Services, Radiological Branch, Sacramento, California, 1986

SELECTED TEACHING/INSTRUCTING/LECTURING/CONSULTING

Associate Clinical Professor, Whittier Health Center, Los Angeles College of Chiropractic, Whittier, California, 1989 - 1991

SELECTED HONORS AND AWARDS

Member, Delta Sigma Honorary Scholastic Society of the Healing Arts, 1986

SELECTED MEMBERSHIPS

Academy of Chiropractic, Member, 2012-2017