

## **Mark Fredrick DC, DABCO DABCI**

3930 Washington St, Suite B, Gurnee, Illinois, 60031

Phone: (847) 662-1600

Cell: (847) 912-5176

Fax: (847) 662-1612

markfredrick2@gmail.com

### **Curriculum Vitae**

#### **SELECTED OCCUPATIONAL HISTORY**

- **Owner and Head Clinician, Fredrick Chiropractic Plus, Gurnee, Il, 1988 - Present**
- **Chiropractic Physician, Lake County Health Department, Waukegan, IL, 2007 - Present**
- **Team Physician, Christian Life School, Kenosha, IL, 2012 - Present**
- **Team Physician, Robert Morris College, 2004 - 2012**
- **Team Physician, Waukegan East High School, Waukegan, IL, 1985 – 1990**

#### **EDUCATION AND LICENSURE**

- **Doctor of Chiropractic, Licensed in the State of Illinois, License # 038.005092, 1983-Present**
- **Doctorate of Chiropractic, National College of Chiropractic, Lombard, IL, 1982**
- **National Board of Chiropractic Examiners, Part I, 1983**
- **National Board of Chiropractic Examiners, Part II, 1983**
- **National Board of Chiropractic Examiners, Part III, 1988**
- **National Board of Chiropractic Examiners, Physiotherapy, 1983**
- **DABCO, 1991**
- **DABCI, 1993**

## **SELECTED POST-GRADUATE EDUCATION, CERTIFICATIONS AND DIPLOMATES**

**Orthopedics: Clinical Neurology I, II, III & IV, Diplomate, National University of Health Services**

**Chicago, Illinois, 1984**

**Orthopedics: Cervical Spine I, II, III, IV & V, Diplomate, National University of Health Services**

**Chicago, Illinois, 1985**

**Orthopedics: Shoulder, Elbow, Wrist, Hand I, II, III, Diplomate, National University of Health Services**

**Chicago, Illinois, 1986**

**Orthopedics: Knee, Ankle, Foot I, II & III, Diplomate, National University of Health Services**

**Chicago, Illinois, 1986**

**Orthopedics: Clinical Diagnosis I, II, III, Diplomate, National University of Health Services**

**Chicago, Illinois, 1987**

**Orthopedics: Immobilization I, II, III, Diplomate, National University of Health Services**

**Chicago, Illinois, 1987**

**Orthopedics: Physio Therapy I & II, Diplomate, National University of Health Services**

**Chicago, Illinois, 1987**

**Orthopedics: Roetgenology I, II & III, Diplomate, National University of Health Services**

**Chicago, Illinois, 1987**

**Orthopedics: Correlative Orthopedics I, II & III, Diplomate, National University of Health Services**

**Chicago, Illinois, 1988**

**Orthopedics: Lumbar, Spine, Pelvis, Hip I & II, Diplomate, National University of Health Services**

**Chicago, Illinois, 1988**

**Neurology: Lower Motion Neuron Disease, Diplomate, New York Chiropractic College**

**Seneca, New York, 1989**

**Neurology: Lower Motion Neuron Disease, Diplomate, New York Chiropractic College**

**Seneca, New York, 1989**

**Neurology: Clinical Applications, Diplomate, New York Chiropractic College**

**Seneca, New York, 1989**

**Neurology: Head and Face Pain, Diplomate, New York Chiropractic College**

**Seneca, New York, 1989**

**Module 1: Session 2, History Taking. Conducting the Doctor- Patient Interview. Diplomate, Texas Chiropractic College: The America Board of Chiropractic Internists**

**Chicago, Illinois, 1991**

**Module 2: Session 3, The General Examination and Associated Pathology. Diplomate, Texas Chiropractic College: The America Board of Chiropractic Internists**

**Chicago, Illinois, 1991**

**Module 2: Session 4, Male- Examination and Associated Pathology. Diplomate, Texas Chiropractic College: The America Board of Chiropractic Internists**

**Chicago, Illinois, 1991**

**Module 3: Session 5, Blood Applications in an Internal Disorder Practice. Diplomate, Texas Chiropractic College: The America Board of Chiropractic Internists**

**Chicago, Illinois, 1991**

**Module 3: Session 6, Additional Blood Tests for Internal Disorder Patients. Diplomate, Texas Chiropractic College: The America Board of Chiropractic Internists**

**Chicago, Illinois, 1991**

**Module 3: Session #7 & #8 "Hands-On" Practical Evaluation of Blood Panels Diplomate, Texas  
Chiropractic College: The American Board of Chiropractic Internists**

**Chicago, Illinois, 1992**

**Module 1: Session 1, Introduction to Chiropractic Internal Disorders. Diplomate, Texas Chiropractic  
College: The America Board of Chiropractic Internists**

**Chicago, Illinois, 1992**

**Module 4: Session 9, Cardiovascular Disease: Examination of the cardiovascular patient. Diplomate,  
Texas Chiropractic College: The America Board of Chiropractic Internists**

**Chicago, Illinois, 1992**

**Module 4: Session 10, Analyzing the ECG. Diplomate, Texas Chiropractic College: The America Board of  
Chiropractic Internists**

**Chicago, Illinois, 1992**

**Module 5: Session 11, The Acute Traumatic Patient. Diplomate, Texas Chiropractic College: The America  
Board of Chiropractic Internists**

**Chicago, Illinois, 1992**

**Module 5: Session 12, Chronic Degenerative Disease. Diplomate, Texas Chiropractic College: The  
America Board of Chiropractic Internists**

**Chicago, Illinois, 1992**

**Module 5: Session 13, Sports Injuries. Diplomate, Texas Chiropractic College: The America Board of  
Chiropractic Internists**

**Chicago, Illinois, 1992**

**Module 6: Session 14, Spirometry and the Lung Disorders. Evaluation and Computerized Interpretation.  
Diplomate, Texas Chiropractic College: The America Board of Chiropractic Internists**

**Chicago, Illinois, 1992**

**Module 6: Session 15, Radiology of the Chest. Diplomate, Texas Chiropractic College: The America Board of Chiropractic Internists**

**Chicago, Illinois, 1992**

**Module 6: Session 16, Urinary Disorders and Hair Biopsy Assessment. Diplomate, Texas Chiropractic College: The America Board of Chiropractic Internists**

**Chicago, Illinois, 1992**

**Module 7: Session 17, Immunology and Allergy. Diplomate, Texas Chiropractic College: The America Board of Chiropractic Internists**

**Chicago, Illinois, 1992**

**Module 7: Session 18, Management of the Hypersensitive Patient. Diplomate, Texas Chiropractic College: The America Board of Chiropractic Internists**

**Chicago, Illinois, 1992**

**Module 8: Session 19, Common Diseases Affecting the Arterial System. Diplomate, Texas Chiropractic College: The America Board of Chiropractic Internists**

**Chicago, Illinois, 1993**

**Module 8: Session 20, Evaluating Vascular Disorders by instrumentation. Diplomate, Texas Chiropractic College: The America Board of Chiropractic Internists**

**Chicago, Illinois, 1993**

**Module 9: Session 21, Historical and Etiological Facts of Neoplastic Processes. Diplomate, Texas Chiropractic College: The America Board of Chiropractic Internists**

**Chicago, Illinois, 1993**

**Module 9: Session 22, Examining the Cancer Patient. Diplomate, Texas Chiropractic College: The America Board of Chiropractic Internists**

**Chicago, Illinois, 1993**

**Module 9: Session 23, Common Malignant Diseases. Diplomate, Texas Chiropractic College: The America Board of Chiropractic Internists**

**Chicago, Illinois, 1993**

**Module 10: Session 24, Upper Gastrointestinal Disease. Diplomate, Texas Chiropractic College: The America Board of Chiropractic Internists**

**Chicago, Illinois, 1993**

**Module 10: Session 25, Lower Gastrointestinal Disease. Diplomate, Texas Chiropractic College: The America Board of Chiropractic Internists**

**Chicago, Illinois, 1993**

**Patient Reports and Clinical Documentation, Module 10: Session #26 Diplomate, Texas Chiropractic College: The American Board of Chiropractic Internists**

**Chicago, Illinois, 1993**

**Patient Reports and Clinical Documentation, Module 10: Session #26 Diplomate, Texas Chiropractic College: The American Board of Chiropractic Internists**

**Chicago, Illinois, 1993**

**Whiplash Injury Biomechanics & Traumatology, Module 1, 2, 3 & 4 Diplomate, Spine Research Institute of San Diego**

**San Diego, California, 1994**

**Mastering Adjustive Skills, Session 1, 2, 3, & 5 Diplomate, National University of Health Services**

**Chicago, Illinois, 1995**

**Extremity Adjusting, Diplomate, National University of Health Services**

**Chicago, Illinois, 1996**

**Mastering Adjusting Skills, Cervical Spine, Thoracic Spine & Ribs, Lumbar Spine & Pelvis, Lower Extremity & Joints, and Upper Extremity & TMJ Diplomate, National University of Health Services**

**Chicago, Illinois, 1996**

**Musculoskeletal Epidemic 2000 Dr. Scott Banks, Diplomate, CME Committee Report**

**Chicago, Illinois, 1997**

**The Impending Musculoskeletal Epidemic of 2000, Diplomate, Illinois Chiropractic Society**

**Chicago, Illinois, 1997**

**Clinical Nutrition Dr. Swenson / Varnas, Dr. Cullum / Strehl / Richardson, Diplomate, National-Lincoln School Of Postgraduate Education**

**Chicago, Illinois, 1998**

**Correction of Faulty Movement Patterns, ACES Module 1: Session #3Diplomate, Canadian Memorial Chiropractic College**

**Chicago, Illinois, 1998**

**Practical Integration of High Tech and Low Tech Rehabilitation Protocols, Module #1Diplomate, Canadian Memorial Chiropractic College**

**Chicago, Illinois, 1998**

**Muscle Energy / Facilitation Technique - Correction of Muscle Dysfunction Workshop, ACES Module 1: Session #4 Diplomate, Canadian Memorial Chiropractic College**

**Chicago, Illinois, 1998**

**Identifying Lower Extremity Dysfunction and Locomotor Pain Assessment / Correction, ACES Module 1: Session #5 Diplomate, Canadian Memorial Chiropractic College,**

**Chicago, Illinois, 1998**

**Chiropractic Clinical Care, ACES Module 1: Session #8 Diplomate, Canadian Memorial Chiropractic College,**

**Chicago, Illinois, 1998**

**Diagnosis, Treatment, & Rehab of Common Cervical Spine Disorders, ACES Module 1: Session #9 Diplome, Canadian Memorial Chiropractic College**

**Chicago, Illinois, 1998**

**Hands-On, Non-Nonsense, Need-To-Know, Diplome, National University of Health Services**

**Chicago, Illinois, 1998**

**Clinical Nutrition, Diplome, National University of Health Services**

**Chicago, Illinois, 1998**

**The Science behind the Immunology of Food, Diplome, ACA Council on Family Practice Symposium,**

**Chicago, Illinois, 1999**

**Oral Interventional Procedures vs. Immune and (CNS) central nervous system Morbidity, Diplome, ACA Council on Family Practice Symposium,**

**Chicago, Illinois, 1999**

**ART: Upper Extremity Seminar, Diplome, New York Chiropractic College,**

**Seneca, New York, 1999**

**Functional Pathology of the Locomotor System, Diplome, Charles University of Prague**

**Prague, Czechoslovakia, 1999**

**The Role of Posture in Musculoskeletal Dysfunction, Diplome, Charles University of Prague**

**Prague, Czechoslovakia, 1999**

**The Role of Muscle Dysfunction in Chronic Pain Syndromes, Diplome, Charles University of Prague**

**Prague, Czechoclovakia, 1999**

**Clinic Patient Evaluations, Diplome, Charles University of Prague,**

**Prague, Czechoslovakia, 1999**

**Muscle Energy Techniques, Diplome, Charles University of Prague**

**Prague, Czechoslovakia, 1999**



**Assessment of Faulty Movement Patterns, Diplomate, Charles University of Prague,  
Prague, Czechoslovakia, 1999**

**Assessment of Faulty Movement Patterns, Diplomate, Charles University of Prague  
Prague, Czechoslovakia, 1999**

**Lower Extremity Dysfunction and Active Care, Session #4Diplomate, Los Angeles College of Chiropractic  
Chicago, Illinois, 1999**

**Nutritional Pharmacology of the Brain: Enhancing structure, Function & Repair, Diplomate, ACA Council  
on Family Practice Symposium**

**Chicago, Illinois, 1999**

**Pharmacology of Natural Medicine, Diplomate, ACA Council of Family Practice Symposium**

**Chicago, Illinois, 1999**

**Current Trends in Anti-Aging Medicine & HGH Products, Diplomate, ACA Council of Family Practice  
Symposium**

**Chicago, Illinois, 1999**

**The Bottom Block Dr. Glaser Sole Supports, Diplomate, CME Committee Report**

**Chicago, Illinois, 1999**

**Chicago. Session #5, *To learn Lewit's joint mobilization for the lower extremity.* Diplomate, Los Angeles  
College of Chiropractic**

**Chicago, Illinois, 2000**

**Chicago, Session #7, *To learn that the fundamental role of the spine is posture.* Diplomate, Los Angeles  
College of Chiropractic**

**Chicago, Illinois, 2000**

**Chicago, Session #8, *Cumulative Trauma Disorders.* Diplomate, Los Angeles College of Chiropractic**

**Chicago, Illinois, 2000**

**Spring Convention 2001: Dr. Amaro, Diplomate, Illinois Chiropractic Society**

**Springfield, Illinois, 2001**

**Acupuncture In the Management of Soft Tissues, Diplomate, Logan University: Postgraduate Dept.**

**Chesterfield, Missouri, 2001**

**Acupuncture Session #2, *Blood Bone Pathogen Awareness and Sterile Needle Procedures*. Diplomate, New York Chiropractic College**

**Seneca, New York, 2001**

**Acupuncture Session #3, *Contemporary Acupuncture Diagnosis* Diplomate, New York Chiropractic College**

**Seneca, New York, 2001**

**Acupuncture Session #4, *Acupuncture Orthopedics*. Diplomate, New York Chiropractic College**

**Seneca, New York, 2001**

**Acupuncture Session #5, *Introduction to and the Basics of TCM*. Diplomate, New York Chiropractic College**

**Seneca, New York, 2001**

**Acupuncture Session #6, *What You Really Need To Know About Acupuncture To Be Very Effective*. Diplomate, New York Chiropractic College**

**Seneca, New York, 2001**

**ERISA for Physicians, Diplomate, Illinois Chiropractic Society**

**Springfield, Illinois, 2002**

**Advanced Modern Acupuncture, Diplomate, Charles University of Prague**

**Czechoslovakia, 2002**

**Balancing Human Hormones, Diplomate, Logan University: Postgraduate Dept.**

**Chesterfield, Missouri, 2002**

**2001 NVD Seminar Series: Advanced: Dr. Richards, Diplomate, Lincoln College of Post Professional, Graduate, and Continuing Education**

**Lombard, Illinois, 2002**

**2001 NVD Seminar Series: Dr. Richards, Diplomate, Lincoln College of Post Professional, Graduate, and Continuing Education**

**Lombard, Illinois, 2002**

**2001 NVD Seminar Series: Basic: Dr. Richards, Diplomate, Lincoln College of Post Professional, Graduate, and Continuing Education**

**Lombard, Illinois, 2002**

**Advanced Meridian Style Acupuncture: Intro, Diplomate, National University of Health Services**

**Chicago, Illinois, 2002**

**Advanced Meridian Style Acupuncture: Acupuncture for Pain Control, Diplomate, National University of Health Services**

**Chicago, Illinois, 2002**

**Advanced Meridian Style Acupuncture: Acu. Treatment for 10 Most Common Conditions Seen in Practice, Diplomate, National University Of Health Services**

**Chicago, Illinois, 2002**

**Clinical Documentation, Diplomate, Illinois Chiropractic Society**

**Chicago, Illinois, 2003**

**Clinical Documentation: Dr. Mario Fucinari, Diplomate, Illinois Chiropractic Society**

**Chicago, Illinois, 2003**

**The Diagnosis and Treatment of Knee Disorders: Dr. Prodromos, Diplomate, Lincoln College of Post Professional, Graduate, and Continuing Education**

**Lombard, Illinois, 2004**

**2004 Fall Convention: Dr. Yeoman, Diplomate, Illinois Chiropractic Society**

**Chicago, Illinois, 2004**

**Outcomes Assessment, Diplomate, Illinois Chiropractic Society**

**Chicago, Illinois, 2004**

**Acupuncture Diplomate Program: Fibromyalgia, Diplomate, National University of Health Services**

**Chicago, Illinois, 2005**

**Acupuncture Diplomate Program: Women's Issues, Diplomate, National University of Health Services**

**Chicago, Illinois, 2005**

**Acupuncture Diplomate Program: Pediatric Conditions, Diplomate, National University of Health Services**

**Chicago, Illinois, 2005**

**Acupuncture Diplomate Program: Digestive System & Dermatology Issues, Diplomate, National University of Health Services**

**Chicago, Illinois, 2005**

**Mastering Adjustive Skills: Session 6, Diplomate, National University of Health Services**

**Chicago, Illinois, 2005**

**Acupuncture Diplomate Program: Neurological Based Conditions, Diplomate, National University of Health Services**

**Chicago, Illinois, 2005**

**Acupuncture Diplomate Program: Accessory Acupuncture Techniques, Diplomate, National University of Health Services**

**Chicago, Illinois, 2005**

**Acupuncture Diplomate Program: Case Studies and Final Exam, Diplomate, National University of Health Services**

**Chicago, Illinois, 2005**

**Acupuncture Diplomate Program: Intro & Overview of Traditional Chinese Medicine, Diplomate,  
National University of Health Services**

**Chicago, Illinois, 2006**

**Acupuncture Diplomate Program: Intro & Overview of Traditional Chinese Medicine, Diplomate,  
National University of Health Services**

**Chicago, Illinois, 2006**

**Traditional Chinese Medicine: Session 1, Diplomate, National University of Health Services**

**Chicago, Illinois, 2006**

**Acupuncture Diplomate Program: Meridians and Acupoints, Diplomate, National University of Health  
Services**

**Chicago, Illinois, 2006**

**Cosmetic Acupuncture and Facial Rejuvenation, Diplomate, National University of Health Services**

**Chicago, Illinois, 2006**

**Rehabilitation of the Spine, Diplomate, University of Bridgeport**

**Bridgeport, Connecticut, 2006**

**Basic Rehab Principals: Dr. Annuziata, Diplomate, University of Bridgeport,**

**Bridgeport, Connecticut, 2006**

**Acupuncture Diplomate Program: Differentiation of Syndromes II, Diagnosis & Treatment, Diplomate,  
National University of Health Services**

**Chicago, Illinois, 2006**

**Acupuncture Diplomate Program: Pulse Diagnosis, Diplomate, National University of Health Services**

**Chicago, Illinois, 2006**

**Acupuncture Diplomat Program: Microsystems of Acupuncture, Diplomat, National University of Health Services**

**Chicago, Illinois, 2006**

**Acupuncture Diplomat Program: Review and Final Exam, Diplomat, National University of Health Services**

**Chicago, Illinois, 2006**

**Acupuncture Diplomat Program: Meridians II, Diplomat, National University of Health Services**

**Chicago, Illinois, 2006**

**Traditional Chinese Medicine: Session 2, Diplomat, National University of Health Services**

**Chicago, Illinois, 2006**

**Acupuncture Diplomat Program: Auriculotherapy, Diplomat, National University of Health Services**

**Chicago, Illinois, 2006**

**Acupuncture Diplomat Program: Adjunctive Patterns II, Diplomat, National University of Health Services**

**Chicago, Illinois, 2007**

**Acupuncture Diplomat Program: Tongue Diagnosis, Treatments, Protocol, & Related Issues, Diplomat, National University of Health Services**

**Chicago, Illinois, 2007**

**Acupuncture Diplomat Program: Adjunctive Patterns I, Diplomat, National University of Health Services**

**Chicago, Illinois, 2007**

**ABC's of Lumbar Spine MRI, Diplomat, National University of Health Services**

**Chicago, Illinois, 2007**

**Traditional Chinese Medicine: Session 3, Diplomate, National University of Health Services**

**Chicago, Illinois, 2007**

**Acupuncture: Research, Review, Diplomate, National University of Health Services**

**Chicago, Illinois, 2007**

**Nogler Phases & VAS in Auricular Acupuncture, Diplomate, Logan University: Postgraduate Dept.**

**Lombard, Illinois, 2007**

**Detoxification and Weight Loss, Diplomate, Texas Chiropractic College: The America Board of Chiropractic Internists**

**Chicago, Illinois, 2009**

**Active Release Techniques, Diplomate, New York Chiropractic College,**

**Seneca, New York, 2010**

**Active Release Techniques, Diplomate, New York Chiropractic College**

**Seneca, New York, 2010**

**Foundational Laboratory Analysis, Diplomate, Texas Chiropractic College: The America Board of Chiropractic Internists**

**Chicago, Illinois, 2011**

**2013 ICS Chicago National Convention & Expo, Diplomate, Texas Chiropractic College: The America Board of Chiropractic Internists**

**Chicago, Illinois, 2013**

**Advanced Decompression Therapy: Finding the Right Protocols for Successful O, Diplomate, Illinois Chiropractic Society**

**Chicago, Illinois, 2013**

**Proper Nutrition, Posture and Rehab Protocols for Disc Decompression Patient, Diplomate, Illinois Chiropractic Society**

**Chicago, Illinois, 2013**

**Blueprint to Results: Decompression and MRI Technology, Diplomate, Illinois Chiropractic Society**

**Chicago, Illinois, 2013**

**Advanced Decompression Therapy: Finding the Right Protocols for Successful O, Diplomate, Illinois Chiropractic Society**

**Chicago, Illinois, 2013**

**Marketing to MDs, Diplomate, Illinois Chiropractic Society**

**Chicago, Illinois, 2013**

**2013 Heartland (Spinal Disc Pathology), Diplomate, Illinois Chiropractic Society**

**Chicago, Illinois, 2013**

**2013 Heartland (Personal Injury), Diplomate, Illinois Chiropractic Society**

**Chicago, Illinois, 2013**

**2013 Heartland (Electronic Healthcare Record), Diplomate, Illinois Chiropractic Society**

**Chicago, Illinois, 2013**

**2013 Heartland (Workers Compensation Part I), Diplomate, Illinois Chiropractic Society**

**Chicago, Illinois, 2013**

**2013 Heartland (Workers Compensation Part II), Diplomate, Illinois Chiropractic Society**

**Chicago, Illinois, 2013**

**Physician Quality Reporting Services (PQRS), Diplomate, Illinois Chiropractic Society**

**Chicago, Illinois, 2013**

**2014 ICS Chicago National Convention & Expo, Diplomate, Logan University: Postgraduate Dept.**

**Chesterfield, Missouri, 2014**



**Disc Injury and Whiplash, Diplome, Illinois Chiropractic Society**

**Chicago, Illinois, 2014**

**Whiplash Associated Disorders Cont. Diplome, Illinois Chiropractic Society**

**Chicago, Illinois, 2014**

**Whiplash Associated Disorders Cont. Diplome, Illinois Chiropractic Society**

**Chicago, Illinois, 2014**

**Whiplash Associated Disorders Cont. Diplome, Illinois Chiropractic Society**

**Chicago, Illinois, 2014**

**ICD 10 Transition, Diplome, Illinois Chiropractic Society**

**Chicago, Illinois, 2014**

**New 1500 Claim Form, Diplome, Illinois Chiropractic Society**

**Chicago, Illinois, 2014**

**New 1500 Claim Form, Diplome, Illinois Chiropractic Society**

**Chicago, Illinois, 2014**

**Health Path Online, *Functional Assessment and Chiropractic Treatment for Golf* Diplome, Palmer College of Chiropractic**

**Davenport, Iowa, 2014**

**Health Path Online, *Thompson Technique Approach to Pelvis and The Lumbar Spine* Diplome, Palmer College of Chiropractic**

**Davenport, Iowa, 2014**

**Health Path Online, *The Seasons of Your Chiropractic Career* Diplome, Palmer College of Chiropractic**

**Davenport, Iowa, 2014**

**Health Path Online, *The Lumbar MRI in Clinical Practice Part B.* Diplomate, Palmer College of Chiropractic**

**Davenport, Iowa, 2014**

**Health Path Online, *The Manual Treatment of the Foot and Ankle* Diplomate, Palmer College of Chiropractic**

**Davenport, Iowa, 2014**

**Health Path Online, *The Manual Treatment of the Foot and Ankle* Diplomate, Palmer College of Chiropractic**

**Davenport, Iowa, 2014**

**Health Path Online, *Principals of Strong Posture Part A.* Diplomate, Palmer College of Chiropractic**

**Davenport, Iowa, 2014**

**Health Path Online, *Movement Dysfunction* Diplomate, Palmer College of Chiropractic**

**Davenport, Iowa, 2014**

**Health Path Online, *Principles of Strong Posture Part B.* Diplomate, Palmer College of Chiropractic**

**Davenport, Iowa, 2014**

**Cox, Yochum & Yochum Spine Symposium; , *Imaging the Problematic Disc, Spondylolisthesis & Contact Sports*, National Univ. of Health Science, *Cox Technic System for Spine Pain Management: Research Leads the way, Anatomy & Neuroanatomy of Spine*, *Research Studies' Outcomes*, *Grand Rounds: Patient Cases*,**

**Lombard, Illinois 2015**

***Foot/Ankle/Knee Conditions, Injuries & Syndromes*, Dr. Mitch Mally , *The Epidemiology of Foot & Ankle in Sports, Common Injuries in Runners: Diagnosis, Rehab & Prevention*, *Effect of Axial Load & Ankle Position on Ankle Stability.***

**Naperville, Illinois 2015**

**A new approach to leg length, the kinetic chain, orthopedics and posture, Dr. Mitch Mally**

**Lombard, Illinois 2015**

**Texas Chiropractic College – Division of Postgraduate Studies**

**Subluxation/Biomechanical Failure Causes Permanent Damage if Not Fixed Age-Related Herniated Discs**

**Discs Bulge from Trauma**

**Physiology of Ligament Trauma and why strain/strains are permanent**

**MRI Interpretation of Discs/Bone Pathology**

**Conclusive Testing for Concussion and MTBI**

**CHIROPRACTIC RESEARCH**

**The Adjustment-Brain Connection**

**The Adjustment-Brain Connection in Pain Pathways**

**How the Adjustment Causes Brain Enzyme to Change**

**What Those Brain Enzyme Changes Do to Organ Function and Diseases**

**Chiropractic as a large Solution for the Opiate Epidemic**

**June 18-19, 2016**

**Clinical Biomechanics and Spine Rehabilitation: Overview**

**Academy of Chiropractic POST DOCTORAL DIVISION**

**Restoring Structural Integrity and Functional Efficiency as Determined by Computer Spinal Modeling**

**Raymond Wiegand, DC**

**August 20-21, 2016**

**Illinois Chiropractic Society**

**Chicago National Convention**

**Review of spinal MRI: physics and pathology**

**Presented by: Douglas M. Gregerson, DC, DACBR**

**October 7 2016**

**Illinois Chiropractic Society**

**Chicago national Convention**

**Evidence based practices- Where are we now?**

**Presented by: Bill Moreau DC, DACBSO, FACSM, CSCS**

**October 8 2016**

**Texas Chiropractic College- Primary Spine Care**

**January 21 – 22, 2017 New York City, New York**

**What is Vertebral Subluxation? Is it a valid scientific entity?**

**The chiropractic adjustment – central nervous system / brain connection**

**The chiropractic connection to systemic disease**

**Subluxation/Biomechanical Failure Causes Permanent Damage if Not Fixed**

**Age-Dating Herniated Discs**

**Disc Bulges from Trauma**

**Spine Research Institute of San Diego**

**March 25 – 26 2017**

**Chicago, Illinois 2017**

**Basic and Special Concepts of Biomechanics**

**Grading Systems, Injury & Impairment Scales**

**Epidemiology of Whiplash**

**Brain, Neck, and Cervical Spine Trauma Mechanisms**

**Soft Tissue Injuries**

**Common Syndromes**

**Conditions Affecting Muscles**

**Pain Syndromes**

**Risk & Outcome & Forensic Risk Analysis**

**Chicago, IL – Foot Levelers**

**April 22-23, 2017**

**Biomechanics for the Athlete Seminar ft. Dr. Tim Maggs**

**Spine Research Institute of San Diego  
May 6 – 7, 2017**

**Chicago, Illinois 2017**

**AN ACCIDENT RECONSTRUCTION PRIMER**  
General Objectives of Auto Crash Reconstruction,  
Vehicle Dynamics

Vector Analysis and Mathematical Solutions  
Computer – Based Solutions to LOSRIC  
Occupant Kinematic Analysis

**MRI EXAMINATION**

When is MRI the Right Study?  
Forensic Value of MRI; New Technology

**ELECTRODIAGNOSTICS**

Logical Order of Diagnostic Tests  
EEG, BAER, VEP, ENG, EMG, sEMG, NCV, and SEP

**SOFT TISSUE HEALING**

Inflammatory, Repair, and Remodeling Stages

**DRUG USE AND INCASIVE PROCEDURES**

Drugs; Epidural Steroid Injections (ESI)

**Spine Research Institute of San Diego  
July 15 – 16, 2017**

**Chicago, Illinois 2017**

**Introduction**

Disability and Impairment Issues  
Maximizing the use of Computers

**INTAKE FORMS**

**SOAP NOTES**

Medical Shorthand  
Alternative to SOAP Notes

**BEYOND SOAP NOTES**

**REEXAMINATIONS**

Acute, Subacute, and Chronic Stage  
Patient Questionnaires

**THE AMA GUIDES AND PERSONAL INJURY  
CLAIMS**

Why Use the Guides in Personal Injury Claims?  
Converting Whole Personal Impairments

**SPECIAL PROCEDURES FOR NARRATIVE  
REPORTS**

Charts; Importing Graphics

**DISABILITY QUESTIONNAIRES****Hard vs. Soft Data****Disability Instruments****Work Status: How Important?****REBUTTAL****Paper Reviews; IMEs, DMEs****Reconstructionist and Biomechanical Engineers****Witnesses, Videotape, and Tape Recorders****INSURANCE CLAIMS PRACTICES****A Briefs Overview of Colossus****Software Based Bodily Injury Analysis: How Does It Work?****Got Documentation Seminar****Sept 30 – Oct 1, 2017****Chicago, IL – Westin Chicago Northwest****Got Documentation? Clinical and Practical Documentation of Chiropractic****Gregg Friedman, DC, CCSP, FIACA**

- Soap Notes
- Examination
- IME

**Learn indepth Protocols for Regular Patients****Adding a New Patient****Documenting New Patient History and Review of Systems****Documenting Outcome Questionnaire Scores****Documenting the E/M Exam****Documenting the PART Exam on Daily Visit****Documenting Assessments and Diagnoses****Documenting Treatment Performed on Daily Visits****Documenting Treatment Plan and Goals****Documenting Subsequent Visits****Documenting Re-Exams****Personal Injury and Workers Comp****Illinois Chiropractic Society****Oct 6, 2017****Naperville, IL****Illinois Chiropractic Society CNC Chicago National Convention****Patterns put your practice at risk for audits.****Get inside the heads of the auditors who are looking for weaknesses in your records.****Know how to review your records, find and correct problematic issues.**

**Illinois Chiropractic Society  
Oct 7 – 8, 2017**

**Naperville, IL**

**Current evidence- based evaluation and management of common lumbopelvic structural pathology. The discussion will progress to review five commonly overlooked “functional” problems that delay NMS recovery.**

**In one way or another, these functional diagnoses contribute**

**The presentation concludes by sharing current knowledge about the classification of low back pain.**

**The highly practical presentation will review the current standard of care, including the conditions responsible for LBP.**

**Identify the underlying functional deficits that delay recovery and direct your treatment based upon a specific diagnosis and classification**

**Spinal Bio-Engineering Seminar  
November 18 – 19, 2017**

**Raymond Wiegand, D.C In cooperation with the Academy of Chiropractic  
12 CE credits through PACE**

**Arlington Heights, IL**

**Demonstrates how a spine model can be used to determine corrective spine adjustments. Using Computer assisted methods Dr. Wiegand developed a coherent spinal model that describes an Optimum spine, an organized spine in ideal compensation and a disorganized spine with subluxation. The Model is based on the geometric analysis of over 100,000 radiographs. Clinical application demonstrates the majority of patients report 90% improvement in 10 treatments or less.**

**Fundamental and advanced concepts on spinal biomechanics describing normal segmental coupling, regional adaptation and global compensation. The normal movements of gait are integrated in this total biomechanical approach to explain pelvic compensation , predictable functional scoliosis and lumbar disc failure. These concepts are demonstrated to radiographic analyses and physical findings. Adjusting techniques will be demonstrated to integrate this information with your adjusting techniques. Soft tissue rehabilitation will be presented in consideration to the structural and functional analysis.**

**Illinois Chiropractic Society 8Hours  
Oct 5<sup>th</sup>, 2018**

**Best Practice’s Academy  
Effective Strategies for Prevention,  
Evaluation and Management of the  
Opioid Use Disorder  
Dr. Scott Munsterman, DC, FICC  
CEO Best Practices Academy**

**Dr. Karen K Korth NCC, PCMH CCE, CPHPA, CMQP**  
**Director of Quality Performance**

**Findings and recommendations from the  
IOM report guided the development of the National Pain Strategy**

- **Explain the complex multidimensional and individual specific nature of pain**
- **Present theories and science for understanding pain**
- **Define terminology for describing pain and associated conditions**
- **Describe the impact of pain on society**
- **Explain how cultural, institutional, societal and regulatory influences affect  
Assessment and management of pain**

**Risk Evaluation and Mitigation Strategy (REMS)  
For Opioid Analgesics**

**Extended Release Opioids**

**Extended – Release and Long – Acting Opioid Products Required to Have an Opioid REMS**

**Immediate release opioids**

**Short – acting opioids analgesics are often referred to immediate – release (IR) opioids**

**Short acting opioids are the opioids analgesics of used for acute  
Or subacute outpatient opioid therapy and include: codeine,  
Hydrocodone, oxycodone, oxymorphone, and morphine**

**Updated Medicare Part D Opioid Drug Mapping Tool**

**Musculoskeletal Assessment: Plan**

**Musculoskeletal Assessment: Function**

**Neck Bournemouth**

**Neck Disability**

**Back Bournemouth**

**Keele StartBack**

**Inflammation**

**Depression**

**Anxiety Disorder**

**Post Traumatic Stress Disorder**

**Fear Avoidance Assessment**

**Quality of life Assessment**



**Saturday, October 6<sup>th</sup>, 2018 4Hours**

**Functional Assessment of Spine  
(Dr. Green)**

**Basic Movement Patterns**

**Hip Extension Coordination Test**

**Hip Abduction coordination Test**

**Trunk Flexion Coordination & Strength Test**

**Push up Test for Scapular Stabilization**

**Shoulder Abduction Coordination Test**

**Head/Neck Flexion Coordination & Strength Test**

**Respiration Coordination Test**

**Common Syndromes Associated with Muscle Imbalance & Abnormal Movement Patterns**

**The Upper (Proximal) Crossed Syndrome**

**Upper Crossed Syndrome**

**Postural Findings/Dysfunction**

**The Pelvic Crossed Syndrome**

**Layer Syndrome**

**Kinesiology Taping for Performance 4 Hours**

**(Dr. Campione)**

**Performance Outline**

**Tape/Movement Science**

**Taping For:**

**Pain**

**Decompression**

**Neurosensory Stimulus**

**Tweak Taping – Pain/Movement Control**

**Alternate Method of Navigating the Body**

**Fascial Taping**

**Sports Applications**

**Principles of Neuroplasticity**

**Effects of Tape on the Brain**

**Human GPS System Fascial Anatomy**

**Athletic Performance Criteria**

**Performance Lateral Chain**

**Sunday, October 7th, 2018 4Hours**  
**Rehabilitation of the Injured Runner**  
**(Dr. Green)**

**Gait related Issues in Runners**

**Phases of Healing**

- **Phase I: Acute Inflammatory**  
Generally last 4-6 days
- **Phase II: Repair (Regeneration)**  
>72 Hours 6-8 Weeks
- **Phase III: Remodeling (3 weeks to 1Year)**

**Exercise Guidelines for Soreness**

**Rehabilitative Exercise for the Runner**

**Ankle Mobilization**

**Posterior hip capsule mobilization**

- **Supine...also known as piriformis stretch**

**Credentials For Course: Primary Spine Care 6 Live Seminar 12 hours**

**Credential: Cleveland**

**Approval Number: AUTO**

**State: IL**

**Type: Chiropractic**

**Valid From 10/27/2018 to 10/28/2019**

**Connective Tissue Pathology, Spinal Biomechanics as Sequella to Trauma, MRI Spine Interpretation, Ordering Protocols & Triaging the Injure, *The latest research on the 6 ways to age-date disc herniations and bulges from trauma inclusive of disc pathology nomenclature. MRI ordering protocols, inclusive of Dixon format and fat-suppressed images. The neurology and pathology of connective tissue and the sequella of trauma at the biomechanical level leading to bio-neuro-mechanical failure. Contemporary u201cevidenced-based building blocksu201d for triaging and in a collaborative environment.* Cleveland University Kansas City, Chiropractic and Health Sciences, Academy of Chiropractic Post-Doctoral Division, Long Island NY, 2018**

**Spinal Biomechanical Engineering Digitizing, *integrating automated mensuration into creating treatment plans and determining maximum medical improvement. A literature-based study of normal vs. abnormal motor until function. Determining ligamentous laxity, alteration of motion segment integrity and pathological stress units and whole person impairments based upon the literature and academic standards,* Cleveland University Kansas City, Chiropractic and Health Sciences, Academy of Chiropractic Post-Doctoral Division, Long Island NY, 2018**

**Best Practice's Academy**  
**Effective Strategies for Prevention,**  
**Evaluation and Management of the**  
**Opioid Use Disorder**  
**Dr. Scott Munsterman, DC, FICC**  
**CEO Best Practices Academy**

**Dr. Karen K Korth NCC, PCMH CCE, CPHPA, CMQP**  
**Director of Quality Performance**

**Findings and recommendations from the**  
**IOM report guided the development of the National Pain Strategy**

- **Explain the complex multidimensional and individual specific nature of pain**
- **Present theories and science for understanding pain**
- **Define terminology for describing pain and associated conditions**
- **Describe the impact of pain on society**
- **Explain how cultural, institutional, societal and regulatory influences affect Assessment and management of pain**

**Risk Evaluation and Mitigation Strategy (REMS)**  
**For Opioid Analgesics**

**Extended Release Opioids**  
**Extended – Release and Long – Acting Opioid Products Required to Have an Opioid REMS**

**Immediate release opioids**  
**Short – acting opioids analgesics are often referred to immediate – release (IR) opioids**

**Short acting opioids are the opioids analgesics of used for acute**  
**Or subacute outpatient opioid therapy and include: codeine,**  
**Hydrocodone, oxycodone, oxymorphone, and morphine**

**Updated Medicare Part D Opioid Drug Mapping Tool**

**Musculoskeletal Assessment: Plan**

**Musculoskeletal Assessment: Function**  
**Neck Bournemouth**  
**Neck Disability**  
**Back Bournemouth**  
**Keele StartBack**

**Inflammation**  
**Depression**

**Anxiety Disorder**  
**Post Traumatic Stress Disorder**

**Fear Avoidance Assessment**  
**Quality of Life Assessment**

**Saturday, October 6<sup>th</sup>, 2018 4Hours**

**Functional Assessment of Spine**  
**(Dr. Green)**

**Basic Movement Patterns**

**Hip Extension Coordination Test**  
**Hip Abduction coordination Test**  
**Trunk Flexion Coordination & Strength Test**  
**Push up Test for Scapular Stabilization**  
**Shoulder Abduction Coordination Test**

**Head/Neck Flexion Coordination & Strength Test**

**Respiration Coordination Test**

**Common Syndromes Associated with Muscle Imbalance & Abnormal Movement Patterns**

**The Upper (Proximal) Crossed Syndrome**

**Upper Crossed Syndrome**

**Postural Findings/Dysfunction**

**The Pelvic Crossed Syndrome**

**Layer Syndrome**

**Kinesiology Taping for Performance 4 Hours**  
**(Dr. Campione)**

**Performance Outline**

**Tape/Movement Science**

**Taping For:**

**Pain**

**Decompression**

**Neurosensory Stimulus**

**Tweak Taping – Pain/Movement Control**

**Alternate Method of Navigating the Body**

**Fascial Taping**

**Sports Applications**

**Principles of Neuroplasticity**

**Effects of Tape on the Brain**

**Human GPS System Fascial Anatomy**

**Athletic Performance Criteria**

**Performance Lateral Chain**

**Sunday, October 7th, 2018 4Hours  
Rehabilitation of the Injured Runner  
(Dr. Green)**

**Gait related Issues in Runners**

**Phases of Healing**

- **Phase I: Acute Inflammatory**  
Generally last 4-6 days
- **Phase II: Repair (Regeneration)**  
>72 Hours 6-8 Weeks
- **Phase III: Remodeling (3 weeks to 1Year)**

**Exercise Guidelines for Soreness**

**Rehabilitative Exercise for the Runner**

**Ankle Mobilization**

**Posterior hip capsule mobilization**

- **Supine...also known as piriformis stretch**

**Credentials For Course: Primary Spine Care 6 Live Seminar 12 hours**

**Credential: Cleveland**

**Approval Number: AUTO**

**State: IL**

**Type: Chiropractic**

**Valid From 10/27/2018 to 10/28/2019**

**Connective Tissue Pathology, Spinal Biomechanics as Sequella to Trauma, MRI Spine Interpretation, Ordering Protocols & Triaging the Injure, *The latest research on the 6 ways to age-date disc herniations and bulges from trauma inclusive of disc pathology nomenclature. MRI***

*ordering protocols, inclusive of Dixon format and fat-suppressed images. The neurology and pathology of connective tissue and the sequella of trauma at the biomechanical level leading to bio-neuro-mechanical failure. Contemporary evidenced-based building blocks for triaging and in a collaborative environment.* Cleveland University Kansas City, Chiropractic and Health Sciences, Academy of Chiropractic Post-Doctoral Division, Long Island NY, 2018

*Spinal Biomechanical Engineering Digitizing, integrating automated mensuration into creating treatment plans and determining maximum medical improvement. A literature-based study of normal vs. abnormal motor until function. Determining ligamentous laxity, alteration of motion segment integrity and pathological stress units and whole person impairments based upon the literature and academic standards,* Cleveland University Kansas City, Chiropractic and Health Sciences, Academy of Chiropractic Post-Doctoral Division, Long Island NY, 2018

*Science of the Chiropractic Spinal Adjustment and Vertebral Subluxation, The literature-based definitions of both the mechanisms the chiropractic adjustment and how it affects the central nervous system in pain pathways and systemic issues that is the arbiter for normal vs. abnormal function. The physiological mechanisms of how the chiropractic spinal adjustment affects the peripheral and central nervous systems. Subluxation degeneration/Wolffu Law will be detailed from a literature perspective combined with the mechanism of subluxation (bio-neuro-mechanical lesion). A literature perspective why long-term chiropractic care is clinically indicated as usual and customary to effectuate demonstrable biomechanical changes in the spine. An evidenced-based perspective of why physical therapy is a poor choice for spine as a 1<sup>st</sup> referral option for any provider inclusive of the literature.* Cleveland University Kansas City, Chiropractic and Health Sciences, Academy of Chiropractic Post-Doctoral Division, Long Island NY, 2018

*Documentation, Collaboration, and Primary Spine Care, An academic basis for documentation that is usual and customary across professions in collaborative care. Maintaining ethical medical-legal relationships based upon Voir Dire and Duabert standards with ensuring a 4-corners inclusive report. Ensuring Primary Care Status based upon an academic standards.* Cleveland University Kansas City, Chiropractic and Health Sciences, Academy of Chiropractic Post-Doctoral Division, Long Island NY, 2018

**LIFE University**

**Lisle, Illinois**

**October 18<sup>th</sup> , 2018**

**2018 Advanced Chiropractic Insurance Billing and Coding Seminar**

**Spinal Bio-Engineering Seminar**

**November 17<sup>th</sup> & 18<sup>th</sup> , 2018**

**Raymond Wiegand, D.C In cooperation with the Academy of Chiropractic  
12 CE credits through PACE**

## **Arlington Heights, IL**

**Demonstrates how a spine model can be used to determine corrective spine adjustments. Using Computer assisted methods Dr. Wiegand developed a coherent spinal model that describes an Optimum spine, an organized spine in ideal compensation and a disorganized spine with subluxation.**

**The Model is based on the geometric analysis of over 100,000 radiographs. Clinical application demonstrates the majority of patients report 90% improvement in 10 treatments or less.**

**Fundamental and advanced concepts on spinal biomechanics describing normal segmental coupling, regional adaptation and global compensation. The normal movements of gait are integrated**

**in this total biomechanical approach to explain pelvic compensation , predictable functional scoliosis and lumbar disc failure. These concepts are demonstrated to radiographic analyses and physical findings. Adjusting techniques will be demonstrated to integrate this information with your adjusting techniques. Soft tissue rehabilitation will be presented in consideration to the structural and functional analysis.**

### **2019 ICS Heartland Symposium**

**April 12 – 13, 2019**

#### **Friday, April 12<sup>th</sup>**

##### **Recognizing Threatening Conditions that Mimic Common Complaints**

*Presented by Dr. Brandon Steele and Sponsored by ChiroUp*

**Repeatedly hearing familiar presentations for common diagnoses can lull clinicians into a false sense of security. Even astute clinicians develop a bias towards statically probable benign neuromusculoskeletal diagnoses. Unfortunately, this complacency can lead to disastrous outcomes when a more threatening problem masquerades as something less serious. Participants of this class will refresh their skills for diagnosing both benign and threatening causes of common complaints including headache, vertigo, chest pain, back pain, hip pain, arthritis, and many others.**

**This presentation will cover the characteristics of non-musculoskeletal pain and provide differential diagnosis skills for avoiding medical errors related to following the outlined conditions.**

#### **Saturday, April 13<sup>th</sup>**

##### **Kinetic Chain Evaluation from the Ground Up: Lower and Upper Extremity Assessment and Management**

*Presented by Dr Jennifer Illes and Sponsored by Foot Levelers*

**Dr. Jennifer Illes will discuss the kinetic chain and its effects on the extremities. Attendees will be able to skillfully perform an define basic physical, neurological, and orthopedic exams related to the extremities, perform a gait and postural evaluation, with a special focus starting from the feet up kinetic chain, perform evaluation procedures for the soft tissue and joints in the extremities, perform selected soft tissue and joint manipulative procedure for the extremities, and apply appropriate basic corrective and preventative measures to disturbances affecting the health of the extremities.**

#### **Academy of Chiropractic**

#### **Mild Traumatic Brain Injury/Traumatic Brain Injury Concussion (MTBI) May 26<sup>th</sup>, 2019**

**Mild Traumatic Brain Injury/Concussion, Differentially diagnosing mild traumatic brain injury vs. traumatic brian injury and the clinical and imaging protocols required to conclude an accurate diagnosis for head trauma. Cleveland University – Kansas City, Academy of Chiropractic Post - Doctorial Division, Long Island, NY 2019**

#### **Module I-Stroke Anatomy and Physiology Part 1**

**June 14<sup>th</sup>, 2019**

#### **Chiropractors**

**Stroke Anatomy and Physiology: Brain Vascular Anatomy, The anatomy and physiology of the brain and how blood perfusion effects brain function. A detailed analysis of the blood supply to the brain and the physiology of ischemia. Cleveland University — Kansas City, ACCME Joint Providership with the State University of New York at Buffalo Jacobs School of Medicine and Biomedical Sciences, Academy of Chiropractic Post-Doctoral Division, Buffalo, NY, 2019**

#### **Module 2-Stroke Anatomy and Physiology Part 2**

**June 14<sup>th</sup>, 2019**

#### **Chiropractors**

**Stroke Anatomy and Physiology: Stroke Types and Blood Flow, Various types of stroke identifying ischemia, hypoperfusion, infarct and penumbra zones and emboli. Cardiac etiologies and clinical features as precursor to stroke with associated paradoxical emboli and thrombotic etiologies. Historical and co-morbidities that have etiology instroke inclusive of diabetes, coagulopathy, acquired and hereditary deficiencies. Cleveland University — Kansas City, ACCME Joint Providership with the**

**State University of New York at Buffalo Jacobs School of Medicine and Biomedical Sciences,**



**Academy of Chiropractic Post-Doctoral Division, Buffalo, NY, 2019**

**Module 3-Stroke Principles of Treatment an Overview for the Primary Care Provider**

**June 14<sup>th</sup>, 2019**

**Chiropractors**

**Stroke Principles of Treatment an Overview for the Primary Care Provider, Stroke type and treatments performed by vascular specialists. The goals of treatment with the physiology of the infarct and penumbra zones and the role of immediate triage in the primary care setting. Detailing the complications of stroke and future care in the chiropractic, primary care or manual medicine clinical setting. Cleveland University — Kansas City, ACCME Joint Providership with the State University of New York at Buffalo Jacobs School of Medicine and Biomedical Sciences, Academy of Chiropractic Post-Doctoral Division, Buffalo, NY, 2019**

**Module 4-Clinical Evaluation & Protocols for Identifying Stroke Risk**

**June 14<sup>th</sup>, 2019**

**Chiropractors**

**Clinical Evaluation and Protocols for Identifying Stroke Risk, the neurological history and examination for identifying stroke risks with a focus on supra and infratentorial regions, upper and lower motor lesions, cranial nerve signs, spinal cord pathology, motor and sensory pathology and gait abnormalities. Examining genetic and family histories along with dissection risk factors. Stroke orthopedic testing and clinical guidelines pertaining to triage for the primary care provider. Cleveland University — Kansas City,**

**ACCME Joint Provider-ship with the State University of New York at Buffalo Jacobs School of Medicine and Biomedical Sciences, Academy of Chiropractic Post-Doctoral Division, Buffalo, NY, 2019**

**Credentials for Course: Impairment Rating**

**July 7<sup>th</sup>, 2019**

**Chiropractors**

**Impairment Rating, The understanding and utilization of the protocols and parameters of the AMA Guide to the Evaluations Permanent Impairment 6<sup>th</sup> Edition. Spine, neurological sequelae, migraine, sexual dysfunction, sleep and arousal disorders, station and gait disorders and consciousness are detailed for impairment rating. Cleveland University – Kansas City, ACCME Joint Provider-ship with the State University of New York At Buffalo Jacobs School of Medicine and Biomedical Sciences, Academy of Chiropractic Post-Doctoral Division, Buffalo, NY, 2019**

**Academy of Chiropractic  
Cleveland University Kansas City  
Spinal Biomechanical Engineering**

**July 7<sup>th</sup>, 2019**

**Part 1-Module #1: Spinal Biomechanical Engineering: Cartesian Coordinate System**

Spinal Biomechanical Engineering: Cartesian System, The Cartesian Coordinate System from the history to the application in the human body. Explanation of the x, y and z axes in both translation and rotations (thetas) and how they are applicable to human biomechanics. Cleveland University Kansas City, ACCME Joint Providership with the State University of New York at Buffalo Jacobs School of Medicine and Biomedical Sciences, Academy of Chiropractic Post-Doctoral Division, Buffalo, NY, 2019

**Part 1-Module #2: Spinal Biomechanical Engineering: Cervical Pathobiomechanics**

Spinal Biomechanical Engineering: Cervical Pathobiomechanics, Spinal biomechanical engineering of the cervical and upper thoracic spine. This includes the normal and pathobiomechanical movement of both the anterior and posterior motor units and normal function and relationship of the intrinsic musculature to those motor units. Nomenclature in reporting normal and pathobiomechanical findings of the spine. Cleveland University Kansas City, ACCME Joint Providership with the State University of New York at Buffalo Jacobs School of Medicine and Biomedical Sciences. Academy of Chiropractic Post-Doctoral Division, Buffalo, NY, 2019

**Part 1-Module #3: Spinal Biomechanical Engineering: Lumbar Pathobiomechanics**

Spinal Biomechanical Engineering: Lumbar Pathobiomechanics, Spinal biomechanical engineering of the lumbar spine. This includes the normal and pathobiomechanical movement of both the anterior and posterior motor units and normal function and relationship of the intrinsic musculature to those motor units. Nomenclature in reporting normal and pathobiomechanical findings of the spine. Cleveland University Kansas City, ACCME Joint Providership with the State University of New York at Buffalo Jacobs School of Medicine and Biomedical Sciences, Academy of Chiropractic Post-Doctoral Division, Buffalo, NY, 2019

**Part 1-Module #4: Spinal Biomechanics in Trauma**

Spinal Biomechanics in Trauma, To utilize whiplash associated disorders in various vectors of impact and whiplash mechanisms in determining pathobiomechanics. To clinically correlate annular tears, disc herniations, fractures, ligament pathology and spinal segmental instability as sequelae to pathobiomechanics from trauma. The utilization of digital motion x-ray in diagnosing normal versus abnormal facet motion along with case studies to understand the clinical application. Cleveland University Kansas City, ACCME Joint Providership with the State University of New York at Buffalo Jacobs School of Medicine and Biomedical Sciences, Academy of Chiropractic Post-Doctoral Division, Buffalo, NY, 2019

**Part 2-Module #1: Spinal Biomechanical Engineering & Organizational Analysis**

Spinal Biomechanical Engineering & Organizational Analysis, Integrating spinal biomechanics and pathobiomechanics through digitized analysis. The comparison of organized versus disorganized compensation with regional and global compensation. Correlation of the

vestibular, ocular and proprioceptive neurological integration in the righting reflex as evidenced in imaging. Digital and numerical algorithm in analyzing a spine. Cleveland University Kansas City, ACCME Joint Providership with the State University of New York at Buffalo Jacobs School of Medicine and Biomedical Sciences, Academy of Chiropractic Post-Doctoral Division, Buffalo, NY, 2019

**Part 2-Module #2: Spinal Biomechanical Engineering: Cervical Digital Analysis**

Spinal Biomechanical Engineering: Cervical Digital Analysis, Digitizing and analyzing the cervical spine in neutral, flexion and extension views to diagnose pathobiomechanics. This includes alteration of motion segment integrity (AMOSI) in both angular and translational movement. Ligament instability/failure/pathology are identified all using numerical values and models. Review of case studies to analyze pathobiomechanics using a computerized/numerical algorithm. Cleveland University Kansas City, ACCME Joint Providership with the State University of New York at Buffalo Jacobs School of Medicine and Biomedical Sciences, Academy of Chiropractic Post-Doctoral Division, Buffalo, NY, 2019

**Part 2-Module #3: Spinal Biomechanical Engineering: Lumbar Digital Analysis**

Spinal Biomechanical Engineering: Lumbar Digital Analysis, Digitalizing and analyzing the lumbar spine images to diagnose pathobiomechanics. This includes anterior and posterior vertebral body elements in rotational analysis with neutral, left and right lateral bending in conjunction with gate analysis. Ligament instability/failure/pathology is identified all using numerical values and models. Review of case studies for analysis of pathobiomechanics using a computerized/numerical algorithm along with corrective guidelines. Cleveland University Kansas City, ACCME Joint Providership with the State University of New York at Buffalo Jacobs School of Medicine and Biomedical Sciences, Academy of Chiropractic Post Doctoral Division, Buffalo, NY, 2019

**Part 2-Module #4: Spinal Biomechanical Engineering: Full Spine Digital Analysis**

Spinal Biomechanical Engineering: Full Spine Digital Analysis, Digitalizing and analyzing the full spine images to diagnose pathobiomechanics as sequelae to trauma in relation to ligamentous failure and disc and vertebral pathology as sequelae. This includes anterior and posterior vertebral body elements in rotational analysis with neutral, left and right lateral bending in conjunction with gate analysis. Ligament instability/failure/pathology is identified all using numerical values and models. Review of case studies for analysis of pathobiomechanics using a computerized/numerical algorithm along with corrective guidelines. Cleveland University Kansas City, ACCME Joint Providership with the State University of New York at Buffalo Jacobs School of Medicine and Biomedical Sciences, Academy of Chiropractic Post-Doctoral Division, Buffalo, NY, 2019

**Academy of Chiropractic  
Cleveland University Kansas City  
October 3<sup>rd</sup>, 2019**

**Medical- Legal- Insurance Documentation: Colossus of the Courtroom**

Medical-Legal-Insurance Documentation, Accurate and complaint documentation of history and clinical findings inclusive of functional losses, loss of activities of daily living, duties under duress and permanent loss of enjoyment of life. Prognosing static vs. stable care, gaps in care both in

the onset and in the middle of passive care with a focus on detailed diagnosing. The integration of chiropractic academia, the court system and the insurance reimbursers' requirements for complete documentation. Cleveland University – Kansas City, Academy of Chiropractic Post – Doctoral Division, Long Island, NY, 2019

**Illinois Chiropractic Society**

**October 11<sup>th</sup> 2019**

**Legal sessions, (2hrs)**

**Presented by Thomas L. O'Corroll, JD**

**Legal Responses to Billing Appeals and Audits**

- Basic Steps to reduce denials and audits
- Appeal process/ suggestions
- Audits – Process & Expectations
- CMS Audits.

**Recent Legal Issues involving Chiropractic Medicine**

- Liens,
- Defenses in Vertebral Artery Dissection Following Cervical Manipulation
- Informed Consent and Charting from the Lawyer's Perspective.

**Common Sense in the Workplace: Harassment Policies and Prevention (2hrs)**

**Presented by: Tom Luetkemeyer, JD**

**Program Objectives**

- Understand your obligations under the law and the need for a written policy.
- Identify unlawful or inappropriate workplace conduct
- Learn practical tools to avoid and prevent workplace harassment and other inappropriate conduct.

**Academy of Chiropractic**

**Cleveland University Kansas City**  
**October 14<sup>th</sup>, 2019**

### **Spinal Trauma Pathology**

#### **Module 1: Diagnostic dilemmas and connective tissue Morphology**

**Spinal Trauma Pathology, Triage and Connective Tissue Injuries and Wound Repair, Triaging the injured and differentially diagnosing both the primary and secondary complaints. Connective tissue injuries and wound repair morphology focusing on the aberrant tissue replacement and permanency prognosis potential. Cleveland University — Kansas City, ACCME Joint Providership with the State University of New York at Buffalo Jacobs School of Medicine and Biomedical Sciences, Academy of Chiropractic Post-Doctoral Division, Buffalo, New York, 2019**

#### **Module 2: Ligament anatomy and injury research and spinal kinematics**

**Spinal Trauma Pathology, Ligament Anatomy and Injury Research and Spinal Kinematics, Spinal ligamentous anatomy and research focusing on wound repair, future negative sequelae of abnormal tissue replacement and the resultant aberrant kinematics and spinal biomechanics of the spine. Cleveland University — Kansas City, ACCME Joint Providership with the State University of New York at Buffalo Jacobs School of Medicine and Biomedical Sciences, Academy of Chiropractic Post-Doctoral Division, Buffalo, New York, 2019**

#### **Module 3: Spinal Biomechanics, Central Nervous System and Spinal Disc Nomenclature**

**Spinal Trauma Pathology, Spinal Biomechanics, Central Nervous System and Spinal Disc Nomenclature,**

**The application of spinal biomechanical engineering models in trauma and the negative sequelae it has on the central nervous system inclusive of the lateral horn, periaqueductal grey matter, thalamus and cortices involvement. Cleveland University — Kansas City, ACCME Joint Providership with the State University of New York at Buffalo Jacobs School of Medicine and Biomedical Sciences, Academy of Chiropractic Post-Doctoral Division, Buffalo, New York, 2019**

#### **Module 4: Biomechanics of Traumatic Disc Bulge and Age Dating Herniated Disc Pathology**

**Spinal Trauma Pathology, Biomechanics of Traumatic Disc Bulge and Age Dating Herniated Disc Pathology, The biomechanics of traumatic disc bulges as sequelae from trauma and the comorbidity of ligamentous pathology. Age-dating spinal disc pathology in accordance with Wolff's Law. Cleveland University — Kansas City, ACCME Joint Providership with the State University of New York at Buffalo Jacobs School of Medicine and Biomedical Sciences, Academy of Chiropractic PostDoctoral Division, Buffalo, New York, 2019**

#### **Module 5: Spinal trauma pathology, clinical grand rounds**

**Spinal Trauma Pathology, Clinical Grand Rounds, The review of case histories of mechanical spine pathology and biomechanical failures inclusive of case histories, clinical findings and x-ray and advanced imaging studies. Assessing comorbidities in the triage and prognosis of the injured. Cleveland University — Kansas City, ACCME Joint Providership with the State University of New York at Buffalo Jacobs School of Medicine and Biomedical Sciences, Academy of Chiropractic Post-Doctoral Division, Buffalo, New York, 2019**

**Module 6: Spinal trauma pathology, Research and documentation Review**

Spinal Trauma Pathology, Research Perspectives, The review of current literature standards in spinal trauma pathology and documentation review of biomechanical failure, ligamentous failure and age-dating disc pathology. Cleveland University — Kansas City, ACCME Joint Providership with the State University of New York at Buffalo Jacobs School of Medicine and Biomedical Sciences, Academy of Chiropractic Post-Doctoral Division, Buffalo, New York, 2019

**Illinois Chiropractic Society**

**October 13<sup>th</sup>, 2019**

**Rehabilitation of the Endurance Athlete (4hrs)**

**Presented by: Bart Green, DC. MEd, PhD, DACBSP**

**Overview**

- Age- related factors and endurance athletes
- Effects of years of training and training load
- Differential diagnosis of hip pain
- Clinical tests for femoroacetabular impingement
- Corrective exercise for hip disorders
- Manipulation and soft tissue treatments for some hip disorder
- Gear, Nutrition, hydration, supplements, and doping

**Academy of Chiropractic**

**Cleveland University Kansas City**

**Orthopedic Testing**

**October 16<sup>th</sup>, 2019**

**Module 1: The Basics of Orthopedic Testing**

Orthopedic Testing: Principles, Clinical Application and Triage, Integration of orthopedic testing in the clinical setting to develop a differential diagnosis. Utilizing radiographic and advanced imaging inclusive of MRI and CAT scan findings to verify tissue pathology suspected by orthopedic testing conclusions and developing a treatment plan as sequelae. Cleveland University Kansas City, ACCME Joint Providership with the State University of New York at Buffalo Jacobs School of Medicine and Biomedical Sciences, Academy of Chiropractic Post-Doctoral Division, Buffalo, NY, 2019

**Module 2: Cervical Spine Orthopedic Testing**

Orthopedic Testing: Cervical Spine, Integration of cervical orthopedic testing in the clinical

setting to develop a differential diagnosis. Utilizing radiographic and advanced imaging inclusive of MRI and CAT scan findings to verify tissue pathology suspected by orthopedic testing conclusions and developing a treatment plan as sequelae. Cleveland University Kansas City, ACCME Joint Providership with the State University of New York at Buffalo Jacobs School of Medicine and Biomedical Sciences, Academy of Chiropractic Post-Doctoral Division, Buffalo, NY, 2019

**Module 3: Cervical Spine Part 2**

Orthopedic Testing: Cervical Spine, Integration of cervical orthopedic testing in the clinical setting to develop a differential diagnosis. Utilizing radiographic and advanced imaging inclusive of MRI and CAT scan findings to verify tissue pathology suspected by orthopedic testing conclusions and developing a treatment plan as sequelae. Cleveland University Kansas City, ACCME Joint Providership with the State University of New York at Buffalo Jacobs School of Medicine and Biomedical Sciences, Academy of Chiropractic Post-Doctoral Division, Buffalo, NY, 2019

**Module 4: Lumbar Spine**

Orthopedic Testing: Lumbar Spine, Integration of lumbar orthopedic testing in the clinical setting to develop a differential diagnosis. Utilizing radiographic and advanced imaging inclusive of MRI and CAT scan findings to verify tissue pathology suspected by orthopedic testing conclusions and developing a treatment plan as sequelae. Cleveland University Kansas City, ACCME Joint Providership with the State University of New York at Buffalo Jacobs School of Medicine and Biomedical Sciences, Academy of Chiropractic Post-Doctoral Division, Buffalo, NY, 2019

**Module 5: Clinical Grand Rounds**

Orthopedic Testing: Clinical Grand Rounds, how to integrate orthopedic testing in the clinical setting utilizing both simple and complex patient scenarios. It includes potential stroke, or vertebrobasilar insufficient patients and understanding the nuances in a clinical evaluation with orthopedic testing as a critical part of the evaluation and screening process. How to integrate orthopedic testing in the clinical setting utilizing both simple and complex patient scenarios. It includes potential stroke, or vertebrobasilar insufficient patients and understanding the nuances in a clinical evaluation with orthopedic testing as a critical part of the evaluation and screening process. Cleveland University Kansas City, ACCME Joint Providership with the State University of New York at Buffalo Jacobs School of Medicine and Biomedical Sciences, Academy of Chiropractic Post-Doctoral Division, Buffalo, NY, 2019

**Academy of Chiropractic  
Cleveland University Kansas City  
Chiropractic and Health Science**

**October 18<sup>th</sup>, 2019**

**Primary Spine Care 5: Biomechanics, Neurology of the Chiropractic Spinal Adjustment & Documentation in Collaborative Relationships.**

**Evidenced Based Care in a Collaborative Setting; Primary Spine Care 5, A literature based model**

for collaborating with hospitals, medical primary care providers and specialists. Reviewing the documentation requirements to communicate the diagnosis, prognosis and treatment plans with medical entities and having the evidence as a basis for those recommendations. Academy of Chiropractic Post-Doctoral Division, Cleveland University- Kansas City, Long Island, NY, 2019

**Current Literature Standards of MRI Spine Interpretation; Primary Spine Care 5 MRI Spine Interpretation of the spine. How to triage a trauma and non-trauma with advanced imaging and document the necessity. We will also cover the basics of MRI Spine Interpretations inclusive of all types of herniations, bulges, Academy Of Chiropractic Post-Doctoral Division. Academy of Chiropractic Pos-Docotral Division, Cleveland University- Kansas City, Long Island, NY, 2019**

**Spine Brain Connection in Pain Pathways; Primary Spine Care 5, MRI Spine The spine-brain connection in managing chronic pain patients. Understanding how chronic pain negatively effects brain morphology and potential pathology as sequella. The role of chiropractic in preventing the loss of gray matter and the most recent evidence as outlined indexed peer reviewed literature over the last 10 years verifying chiropractic's role. Academy of Chiropractic Post-Doctoral Division, Cleveland University- Kansas City, Long Island, NY, 2019**

**Bio-Neuro-Mechanical Mechanism of the Chiropractic Spinal Adjustment; Primary Spine Care 5, The biological, neurological and mechanical mechanisms and pathways from the thrust to the dorsal horn and brain connection and how the brain processes the chiropractic spinal adjustment based upon the literature. Care path of chiropractic and physical and physical therapy from an outcome basis, Academy of Chiropractic Post-Doctoral Division. Academy of Chiropractic Post-Doctoral Division, Cleveland University-Kansas City, Long Island, NY, 2019**

**Academy of Chiropractic  
Cleveland University Kansas City  
October 20<sup>th</sup>, 2019**

**Primary Spine Care 8: D vs. PT vs. MD vs. Drugs as 1<sup>st</sup> option for Spine 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 the pain patters with advanced imaging finings 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 the 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 extradural 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**

**Academy of Chiropractic  
Cleveland University Kansas City  
October 28<sup>th</sup>, 2019  
Interprofessional Hospital Based Spine Care**

**Interprofessional Hospital Based Spine Care, Trends in hospital and emergent care in the healthcare delivery system inclusive of policies, hospital staffing and current care paths for mechanical spine issues. Cleveland University Kansas City, Academy of Chiropractic Post – Doctoral Division, Long Island, NY, 2019**

**Academy of Chiropractic  
Cleveland University Kansas City  
November 17<sup>th</sup>, 2019**

## **Testifying: Documentation & Ethical Medical- Legal Relationships**

### **Module #1:**

**Medical-Legal Ethical Relationships, Documentation and Legal Testimony, Report writing for legal cases, the 4 corners of a narrative and documenting damages with understanding defense medical documentation and consistent reporting of bodily injuries. Academy of Chiropractic, Post-Doctoral Division, Cleveland University-Kansas City, College of Chiropractic, Long Island, NY, 2019**

### **Module #2:**

**Medical-Legal Ethical Relationships, Documentation and Legal Testimony, Part 2, Understanding report writing and the types of medical reports required for court inclusive of diagnosis, prognosis and treatment plans with requirements of reporting causality and permanency. Academy of Chiropractic, Post-Doctoral Division, Cleveland University-Kansas City, College of Chiropractic, Long Island, NY, 2019**

### **Module #3:**

**Medical-Legal Ethical Relationships, Documentation and Direct Testimony, Organizing your documentation and understanding all collaborative documentation and how it fits into your diagnosis, prognosis and treatment plan, Understanding the nuances of the functional losses of your patients related to their bodily injuries, Academy of Chiropractic, Post-Doctoral Division. Academy of Chiropractic, Post-Doctoral Division, Cleveland University-Kansas City, College of Chiropractic, Long Island, NY, 2019**

### **Module #4:**

**Medical-Legal Ethical Relationships, Documentation and Direct Testimony Part 2, Utilizing demonstrative documentation in direct examination and communicating the results of your care concurrently with the written documentation and reporting an accurate diagnosis for all images. Academy of Chiropractic, Post-Doctoral Division, Cleveland University-Kansas City, College of Chiropractic, Long Island, NY, 2019**

### **Module #5:**

**Medical-Legal Ethical Relationships, Documentation and Direct Testimony Part 3, The evaluation, interpretation and reporting of collaborative medical specialists results and concluding an accurate diagnosis inclusive of all findings and reviewing all images to ensure an accurate diagnosis. Academy of Chiropractic, Post-Doctoral Division, Cleveland University-Kansas City, College of Chiropractic, Long Island, NY, 2019**

**Module #6:**

**Medical-Legal Ethical Relationships, Documentation and Direct Testimony Part 4, Determining and documenting disabilities and impairments inclusive of loss of enjoyment of life and duties under duress and the evaluation and validation of pain and suffering. Academy of Chiropractic, Post-Doctoral Division, Cleveland University-Kansas City, College of Chiropractic, Long Island, NY, 2019**

**Module #7:**

**Medical-Legal Ethical Relationships, Documentation and Cross Examination Testimony, Reporting your documentation factually and staying within the 4 corners of your medical report and scope of practice inclusive of understanding how your credentials allow you to report your documentation. Academy of Chiropractic, Post-Doctoral Division, Cleveland University-Kansas City, College of Chiropractic, Long Island, NY, 2019**

**Module #8:**

**Medical-Legal Ethical Relationships, A Documentation Relationship Between the Doctor and Lawyer, The level of organization required in a medical-legal case that accurately reflects the bodily injuries of your patients and the time constraints in rendering an accurate report. Academy of Chiropractic, Post-Doctoral Division, Cleveland University-Kansas City, College of Chiropractic, Long Island, NY, 2019**

**Module #9:**

**Medical-Legal Ethical Relationships, Report Writing and Preparing for a Legal Case, Reviewing the facts of the case inclusive of your documentation, the defense medical examiner, medical specialists and the attorney to ensure accurate and consistent reporting. Academy of Chiropractic, Post-Doctoral Division, Cleveland University-Kansas City, College of Chiropractic, Long Island, NY, 2019**

**Module #10:**

**Medical-Legal Ethical Relationships, Report Writing and Preparing for a Legal Case, Creating demonstrative evidence, visuals of your patient's bodily injuries inclusive of x-rays, MRI's, CAT Scans and electrodiagnostic findings, the spinal biomechanics of herniated disc with ipsilateral findings and contralateral symptomatology. Academy of Chiropractic, Post-Doctoral Division, Cleveland University-Kansas City, College of Chiropractic, Long Island, NY, 2019**

**Academy of Chiropractic**

**Cleveland University Kansas City  
November 27<sup>th</sup>, 2019**

**Primary Spine Care 3 – The Neurology of Chiropractic Care and Ligament Pathology From Trauma**

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, Cleveland University — Kansas City, Long Island, NY 2019

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, Cleveland University — Kansas City, Long Island, NY 2019

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, Cleveland University — Kansas City, Long Island, NY 2019

Ethics, Documentation and Research, Primary Spine Care, Maintaining ethical Interprofessional relationships based upon an evidenced based practice inclusive of triage, diagnostics and reporting. Creating thorough documentation that reflects your complete findings encompassing descriptive ICD-10 codes and concludes the presence or absence of pathology. Academy of Chiropractic Post-Doctoral Division, Cleveland University — Kansas City, Long Island, NY 2019

**Academy of Chiropractic  
Cleveland University Kansas City  
February 10<sup>th</sup>, 2020**

**Credentials For Course : MRI Spine Credentialing**

**PART 1 Syllabus**

**Module #1: MRI History and Physics**

MRI History and Physics, Magnetic fields, T 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. Cleveland University - Kansas City, ACCME Joint Providership with the State University of New York at Buffalo Jacobs School of Medicine and Biomedical Sciences, Academy of Chiropractic Post-Doctoral Division, Buffalo, NY, 2020

**Module #2: MRI Spinal Anatomy and Protocols**

MRI Spinal Anatomy and Protocols, Normal anatomy of axial and sagittal views utilizing T1, T2, 3D gradient and STIR sequences of imaging. Standardized and desired protocols in views and sequencing of MRI examination to create an accurate diagnosis in MRI. Cleveland University - Kansas City, ACCME Joint Providership with the State University of New York at Buffalo Jacobs School of Medicine and Biomedical Sciences, Academy of Chiropractic Post-Doctoral Division, Buffalo, NY, 2020

**Module #3: MRI Disc Pathology and Spinal Stenosis**

MRI Disc Pathology and Spinal Stenosis, MRI interpretation of bulged, herniated, protruded, extruded, sequestered and fragmented disc pathologies in etiology and neurological sequelae in relationship to the spinal cord and spinal nerve roots. Cleveland University - Kansas City, ACCME Joint Providership with the State University of New York at Buffalo Jacobs School of Medicine and Biomedical Sciences, Academy of Chiropractic Post-Doctoral Division, Buffalo, NY, 2020

**Module #4: MRI Spinal Pathology**

MRI Spinal Pathology, MRI interpretation of bone, intradural, extradural, cord and neural sleeve lesions. Tuberculosis, drop lesions, metastasis, ependymoma, schwannoma and numerous other spinal related tumors and lesions. Cleveland University - Kansas City, ACCME Joint Providership with the State University of New York at Buffalo Jacobs School of Medicine and Biomedical Sciences, Academy of Chiropractic Post-Doctoral Division, Buffalo, NY, 2020

**Module #5: MRI Methodology of Analysis**

MRI Methodology of Analysis, MRI interpretation sequencing of the cervical, thoracic and lumbar spine inclusive of T1, T2, STIR and 3D gradient studies to ensure the accurate diagnosis of the region visualized. Cleveland University - Kansas City, ACCME Joint Providership with the State University of New York at Buffalo Jacobs School of Medicine and Biomedical Sciences, Academy of Chiropractic Post-Doctoral Division, Buffalo, NY, 2020

**Module #6: MRI Clinical Application**

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. Cleveland University - Kansas City, ACCME Joint Providership with the State University of New York at Buffalo Jacobs School of Medicine and Biomedical Sciences, Academy of Chiropractic Post-Doctoral Division, Buffalo, NY, 2020

**PART 2 Syllabus****Module #1: MRI Disc Overview & Imaging Protocols**

MRI Protocols Clinical Necessity, MRI slices, views, T1, T2, STIR axial, stacking, FFE, FSE and sagittal images. Clinical indication for the utilization of MRI and pathologies of disc in both trauma and non-trauma sequelae, including bulge, herniation, protrusion, extrusion and sequestration. Cleveland University - Kansas City, ACCME Joint Providership with the State University of New York at Buffalo Jacobs School of Medicine and Biomedical Sciences, Academy of Chiropractic Post-Doctoral Division, Buffalo, NY, 2020

**Module #2: MRI Interpretation of Lumbar Bulges/Degenerative Disc Disease**

MRI Interpretation of Lumbar Degeneration/Bulges, MRI slices, views, T1, T2, STIR axial, stacking, FFE, FSE and sagittal images in the interpretation of lumbar degeneration. With the co-morbidities and complications of stenosis, pseudo-protrusions, cantilevered vertebrate, Schmorls nodes and herniations. Central canal and cauda equina compromise interpretation with management. Cleveland University - Kansas City, ACCME Joint Providership with the State University of New York at Buffalo Jacobs School of Medicine and Biomedical Sciences, Academy of Chiropractic Post-Doctoral Division, Buffalo, NY, 2020

**Module #3: MRI Interpretation of Lumbar Herniated Discs**

MRI Interpretation of Lumbar Herniations, MRI slices, views, T1, T2, STIR axial, stacking, FFE, FSE and sagittal images in the interpretation of lumbar herniations. With the co-morbidities and complications of stenosis, pseudo-protrusions, cantilevered vertebrate, Schmorls nodes and herniations. Morphology of lumbar disc pathologies of central and lateral herniations, protrusions, extrusions, sequestration, focal and broad based herniations are defined and illustrated. Central canal and cauda equina compromise interpretation with management. Cleveland University - Kansas City, ACCME Joint Providership with the State University of New York at Buffalo Jacobs School of Medicine and Biomedical Sciences, Academy of Chiropractic PostDoctoral Division, Buffalo, NY, 2020

**Module #4: MRI Interpretation of Cervical Bulges/Degenerative Disc Disease**

MRI Interpretation of Cervical Degeneration/Bulges, MRI slices, views, T1, T2, STIR axial, stacking, FFE, FSE and sagittal images in the interpretation of cervical degeneration. With the co-morbidities and complications of stenosis, pseudo-protrusions, cantilevered vertebrate, Schmorls nodes and herniations. Spinal cord and canal compromise interpretation with management. Cleveland University - Kansas City, ACCME Joint Providership with the State University of New York at Buffalo Jacobs School of Medicine and Biomedical Sciences, Academy of Chiropractic Post-Doctoral Division, Buffalo, NY, 2020

**Module #5: MRI Interpretation of Cervical Herniated Discs**

MRI Interpretation of Cervical Herniations, MRI slices, views, T1, T2, STIR Axial, FFE, FSE and sagittal images in the interpretation of lumbar herniations. With the co-morbidities and complications of stenosis, pseudo-protrusions, cantilevered vertebrate, Schmorls nodes and herniations. morphology of lumbar disc pathologies of central and lateral herniations, protrusions, extrusions, sequestration, focal and broad based herniations are defined and illustrated. Spinal cord and canal compromise interpretation with management. Cleveland University - Kansas City, ACCME Joint Providership with the State University of New York at Buffalo Jacobs School of Medicine and Biomedical Sciences, Academy of Chiropractic Post-Doctoral Division, Buffalo, NY, 2020

**MRI Interpretation of Degenerative Spine and Disc Disease with Overlapping Traumatic Insult to Both Spine and Disc, MRI slices, views, T1, T2, STIR Axial, FFE, FSE and sagittal images in the interpretation of degenerative spondylolesthesis, spinal canal stenosis, Modic type 3 changes, central herniations, extrusions, compressions, nerve root compressions, advanced spurring and thecal sac involvement from an orthopedic, emergency room, chiropractic, neurological, neurosurgical, physical medicine perspective. Cleveland University - Kansas City, ACCME Joint Providership with the State University of New York at Buffalo Jacobs School of Medicine and Biomedical Sciences, Academy of Chiropractic Post-Doctoral Division, Buffalo, NY, 2020**

**Academy of Chiropractic  
Cleveland University Kansas City  
February 12<sup>th</sup>, 2020**

### **Accident Reconstruction**

#### **Module 1: Terms, Concepts & Definitions**

**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 Cleveland University — Kansas City, Academy of Chiropractic Post-Doctoral Division, Long Island, NY, 2020**

**Module 2: Causality, Bodily Injury, Crumple Zones, Force & Critical Documentation 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. Cleveland University — Kansas City, Academy of Chiropractic Post-Doctoral Division, Long Island, NY, 2020**

#### **Module 3: Skid Marks, Time, Distance, Velocity & Speed Formulas**

**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. Cleveland University — Kansas City, Academy of Chiropractic Post-Doctoral Division, Long Island, NY, 2020**

#### **Module 4: Research, Causality & Bodily Injury**

**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. Cleveland University — Kansas City, Academy of Chiropractic Post-Doctoral Division, Long Island, NY, 2020**

**Academy of Chiropractic  
Cleveland University Kansas City**

**February 13<sup>th</sup>, 2020**

**Personal Injury Bootcamp**

**Module #1: Personal Injury 101**

**Triaging and reporting while maintaining ethical medical-legal relationships**

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. Cleveland University - Kansas City, Academy of Chiropractic Post-Doctoral Division, Long Island, NY, 2020

**Module #2: Physical Examination & Documentation for the Trauma Patient**

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. Cleveland University - Kansas City, Academy of Chiropractic Post-Doctoral Division, Long Island, NY, 2020

**Module #3: Crash Dynamics and Its Relationship to Causality**

Crash Dynamics and Its Relationship to Causality, an extensive understanding of the physics involved in the transference of energy from the bullet car to the target car. This includes G's of force, newtons, gravity, energy, skid marks, crumple zones, spring factors, event data recorder and the graphing of the movement of the vehicle before, during and after the crash. Determining the clinical correlation of forces and bodily injury. Cleveland University - Kansas City, Academy of Chiropractic Post-Doctoral Division, Long Island, NY, 2020

**Module #4: MRI, Bone Scan and X-Ray Protocols, Physiology and Indications for the Trauma Patient**

MRI, Bone Scan and X-Ray Protocols, Physiology and Indications for the Trauma Patient, MRI interpretation, physiology, history and clinical indications, bone scan interpretation, physiology and clinical indications, x-ray clinical indications for the trauma patient. Cleveland University - Kansas City, Academy of Chiropractic Post-Doctoral Division, Long Island, NY, 2020

**Module #5: Neurodiagnostics Testing: EMG/NCV, VEP, BAER, V-ENG and SSEP, Clinical Indications and Interpretation**

Neurodiagnostic Testing Protocols, Physiology and Indications for the Trauma Patient, Electromyography (EMG), Nerve Conduction Velocity (NCV), Somato Sensory Evoked Potential (SSEP), Visual Evoked Potential (VEP), Brain Stem Auditory Evoked Potential (BAER) and Visual-Electronystagmosgraphy (V-ENG) interpretation, protocols and clinical indications for the trauma patient. Cleveland University - Kansas City, Academy of Chiropractic Post-Doctoral Division, Long Island, NY, 2020

**Module #6: Documentation and Working within Your State Laws to Ensure Compliant Paperwork and Reimbursement**

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. Cleveland University - Kansas City, Academy of Chiropractic Post-Doctoral Division, Long Island, NY, 2020

**Module #7: Strategic Plan**

Documenting Clinically Correlated Bodily Injury to Causality, Understanding the necessity for accurate documentation, diagnosis and clinical correlation to the injury when reporting injuries in the medical-legal community. Documenting the kinesio pathology, myopathology, neuropathology, and pathophysiology in both a functional and structural paradigm. Cleveland University – Kansas City, Academy of Chiropractic Post-Doctoral Division, Long Island, NY, 2020

**National Spine Conference – East Coast – 2021**

February 12, 13,14, 2021

Fort Lauderdale, Florida

***Spine Management Clinical Workflows- in-depth review and discussion of the Doctor of Chiropractic as a Spine Management Physician with specific focus on the diagnosis and management of spine pain of mechanical origin. Details were outlined in relation to triage of anatomical causes of spine pain such as fracture, tumor, infection. National Spine Management Group, Cleveland University Kansa City, Chiropractic and Health sciences, Federation of Chiropractic Licensing Boards, Buffalo, NY, Lehi, UT 2021.***

***Pain Management and the Chiropractic Adjustment – Current peer review indexed research demonstrating the chiropractic adjustment’s effect on the central nervous system and pain threshold was outlined and reviewed. Anatomical review and contemporary supportive research were discussed. Details of central nervous system response to the chiropractic adjustment was reviewed and demonstrated. National Spine Management Group, Cleveland University Kansas City, Chiropractic and Health Sciences, Federation of Chiropractic Licensing Boards, NY, Lehi, UT 2021.***

***Corrective Spinal Care and Chiropractic Case Management – Current peer reviewed indexed research demonstrating the chiropractic adjustment’s effect on the biomechanical structure of the human spine during the corrective/rehabilitative phase of care. Basic outline of biomechanical parameters in symptomatic and asymptomatic patients was reviewed with particular focus on pathobiomechanics in chiropractic practice. National Spine Management Group, Cleveland University Kansas City, Chiropractic and Health Sciences, Federation of Chiropractic Licensing Boards, Buffalo, NY, Lehi, UT 2021.***

***Health Maintenance Care and Chiropractic Case Management – Current peer reviewed***

***indexed research demonstrating the chiropractic adjustment's effect on the maintenance of the human spine. Details of indexed research reviewing Chiropractic's role in the reduction of narcotic utilization and decreased absenteeism from work due to disability. Communicating Healthy Maintenance Care to the medical profession and the public was emphasize. National Spine Management Group, Cleveland University Kansas City, Chiropractic and Health Sciences, Federation of Chiropractic Licensing Boards, Buffalo, NY, Lehi, UT 2021.***

**Evidence Based Clinical Reporting – overview of current CPT and ICD-10 coding guidelines pertaining to the evaluation and management of spine pain patients was presented. Timed codes, relevant diagnosis related to injured tissue was presented. Specific discussion of proper format of the Assessment portion of clinical documentation was presented. Review of the difference between daily progress notes and Evaluation and Management [E/M] reporting was provided. National Spine Management Group, Cleveland University Kansas City, Chiropractic and Health Sciences, Federation of Chiropractic Licensing Boards, Buffalo, NY, Lehi, UT 2021.**

**Cervical Spine Clinical Workflows – detailed review of workflows of a thorough patient history and identification of clinical red flags related to relative and absolute contraindications to chiropractic care was presented. Outline of neurological examination including pathological reflexes present during spinal cord compression, cervical stenosis and cervical myelomalacia was discussed. Normal vs abnormal measurement of range of motion objectifying spinal dysfunction was presented. Specific orthopedic testing related to specific muscle, nerve or intervertebral disc injury was discussed. Review of interprofessional triage and imaging decision tree was outlined with specific focus on the pain management physician and spinal surgeon. National Spine Management Group, Cleveland University Kansas City, Chiropractic and Health Sciences, Federation of Chiropractic Licensing Boards, Buffalo, NY, Lehi, UT 2021.**

**Lumbar Spine Clinical Workflows – detailed review of workflows of a thorough patient history and identification of clinical red flags related to relative and absolute contraindications to chiropractic care was presented. Outline of neurological examination including pathological reflexes present during cervical and lumbar stenosis was discussed. Normal vs abnormal measurement of range of motion objectifying spinal dysfunction was presented. Specific orthopedic testing related to muscle, nerve or intervertebral disc injury was discussed. Review of interprofessional triage and imaging decision tree was outlined with specific focus on the pain management physician and spinal surgeon. National Spine Management Group, Cleveland University Kansas City, Chiropractic and Health Sciences, Federation of Chiropractic Licensing Boards, Buffalo, NY, Lehi, UT 2021.**

**Interprofessional Clinical Documentation for the Primary Care Physician – contemporary techniques to best communicate chiropractic care to the Primary Care Physician was discussed and presented. Analysis of the depth and scope of communication was emphasized with direct focus on the proper documentation management system**

**including demographic sheet, imaging reports, most recent evaluation and management reports. Discussion of appropriate timing for phone consultation was presented. National Spine Management Group, Cleveland University Kansas City, Chiropractic and Health Sciences, Federation of Chiropractic Licensing Boards, Buffalo, NY, Lehi, UT 2021.**

**Clinical Documentation for the Spine Surgeon- contemporary techniques to best communicate chiropractic care to the spine surgeon was discussed and presented. Analysis of the depth and scope of communication was emphasized with direct focus on the proper documentation management system including demographic sheet, imaging reports, most recent evaluation and management reports. Discussion of appropriate timing for phone consultation was presented.**

**National Spine Management Group, Cleveland University Kansas City, Chiropractic and Health Sciences, Federation of Chiropractic Licensing Boards, Buffalo, NY, Lehi, UT 2021.**

**Clinical Documentation for the Pain Management Physician – contemporary techniques to best communicate chiropractic care to the pain management physician was discussed and presented. Analysis of the depth and scope of communication was emphasized with direct focus on the proper documentation management system including demographic sheet, imaging reports, most recent evaluation and management reports. Discussion of appropriate timing for phone consultation was presented. National Spine Management Group, Cleveland University Kansas City, Chiropractic and Health Sciences, Federation of Chiropractic Licensing Boards, Buffalo, NY, Lehi, UT 2021.**

**Clinical Documentation for Attorney - contemporary techniques to best communicate chiropractic care and permanent injury to the personal injury attorney was discussed and presented. Analysis of the depth and scope of communication was emphasized with direct focus on the proper documentation management system including diagnosis, response to treatment, causality and persistent functional loss was outlined. Discussion of appropriate timing for phone consultation was presented. National Spine Management Group, Cleveland University Kansas City, Chiropractic and Health Sciences, Federation of Chiropractic Licensing Boards, Buffalo, NY, Lehi, UT 2021.**

**Spinal Biomechanical Engineering – detailed presentation of the progression of laboratory-based biomechanics into the clinical realm was outlined. Evidence based view of Pelvic incidence and other sagittal balance parameters was presented. Regional sagittal balance and communication with the spine surgeon in the spine management practice was reviewed. Specific discussions were related to spinal sagittal balance and the non-surgical spine pain patient and correlated to the Corrective Care Phase of Chiropractic Care. Outline of the future of full spine biomechanical modeling was presented in relation to symptomatic and asymptomatic patients. National Spine Management Group, Cleveland University Kansas City, Chiropractic and Health Sciences,**

**Federation of Chiropractic Licensing Boards, Buffalo, NY, Lehi, UT 2021.**

**Objectifying the Biomechanical Spine Lesion – review of ligament laxity and alternation of motion segment integrity was presented with specific correlation to the AMA Guides to the Evaluation of Permanent Impairment 5<sup>th</sup> and 6<sup>th</sup> Edition. Correlation to bodily injury, causality and persistent functional losses in the personal injury patient and communication with the attorney was outlined. Attention was paid to the difference between vertebral body translation and angular motion deficits between adjacent motor units was presented. Specific details on measurement tools and analysis of the injured cervical and lumbar spines were discussed. National Spine Management Group, Cleveland University Kansas City, Chiropractic and Health Sciences, Federation of Chiropractic Licensing Boards, NY, Lehi, UT 2021.**

## **2021 Spine Management Conference – West**

**August 6, 7, 8, 2021**

**Lehi, Utah**

**2021 Spine Management Conference – West – The Spine Management Physician – discussion of the spine Management Physician concept utilizing evidence was presented. Outline of trends in Spinal pain management versus a curative model was discussed. Credentials, training, and triage methods were demonstrated for the Doctor of Chiropractic to increase proficiency in spine management. Scientific evidence supporting the need for a portal of entry physician dedicated to spine management oversight was outlined. Key differences between Spine Management Physician and Primary Spine Care were discussed. National Spine Management Group, LLC, Federation of Chiropractic Licensing Boards, Cleveland University of Health Sciences, College of Chiropractic, Kansas City 2021**

**2021 Spine Management Conference – West – Chiropractic Evidence – Pain Management Care – Outline of neurological mechanisms of central nervous system modulation of pain in the human body was demonstrated. Specific peer- reviewed, medically indexed evidence was presented starting with 2012 Systematic Review outlining spinal manipulation’s effectiveness in pain management. Current evidence as well as future trends were discussed and presented. Neurological downregulation was discussed including afferent and efferent neurological pathways regulated by the dorsal horn of the spinal cord. Interprofessional communication and compliant documentation of the pain management phase of care was emphasized. National Spine Management**

**Group, LLC, Federation of Chiropractic Licensing Boards, Cleveland University of Health Sciences, College of Chiropractic, Kansas City 2021**

**2021 Spine Management Conference – West – Chiropractic Evidence – Corrective Care – specific trends in the biomechanical assessment of the human spine were provided and discussed. Emphasis was placed on the transfer of laboratory based biomechanical science and clinical utilization of biomechanical parameters in the diagnosis and correction of spinal biomechanical pathology. Peer reviewed medically indexed publications defining symptomatic vs asymptomatic were presented and discussed. Sagittal alignment and its relation to pelvic incidence was reviewed in relation to asymptomatic parameters. Interprofessional communication relating to biomechanical stabilization and spinal rehabilitation was outlined and reviewed. Review of a regional versus whole spine model of spine management was presented emphasizing the needs of the patient, primary care physician, pain management physician and spine surgeon. National Spine Management Group, LLC, Federation of Chiropractic Licensing Boards, Cleveland University of Health Sciences, College of Chiropractic, Kansas City 2021**

**2021 Spine Management Conference – West- Physical Examination Workflows – Cervical Spine – detailed review of cervical spinal physical examination with emphasis on clinical triage between anatomical and biomechanical sources of spine pain. Neurological evaluation of the neck and surrounding structures was reviewed including pathological reflexes, assessment of vascular compromise and myelopathic findings. Detailed patient screening was stressed and its correlation to physical examination, red flags and relative vs absolute contraindications to chiropractic care was presented. Patient positioning and efficient processes were reviewed and demonstrated. Details relating to cervical spine and orthopedic testing was discussed. National Spine Management Group, LLC, Federation of Chiropractic Licensing Boards, Cleveland University of Health Sciences, College of Chiropractic, Kansas City 2021**

**2021 Spine Management Conference – West – Physical Examination Workflows – Thoracic and Lumbar Spine and Pelvis – outlines of thoracic, lumbar and pelvis physical examination were presented. Neurological evaluation of the lumbar spine and surrounding structures was reviewed including pathological reflexes, assessment of cauda equina syndrome and triage processes for neurologically compromised patients. Detailed screening was stressed and its correlation to physical examination, red flags and relative vs absolute contraindications to chiropractic care was reviewed. Patient positioning and efficient processes was reviewed and demonstrated. Details relating to lumbar spine and pelvic orthopedic testing was discussed. National Spine Management Group, LLC, Federation of Chiropractic Licensing Boards, Cleveland University of Health Sciences, College of Chiropractic, Kansas City 2021**

**2021 Spine Management Conference – West – Interprofessional Communication and Reporting – review of electronic health record workflows was presented and discussed**

**with emphasis on CPT compliant and efficient reporting. The importance of communication with the patient's other healthcare providers was outlined and discussed. Specific needs of the primary care physician, pain management physician and spine surgeon were outlined and reviewed. Details of simplified vocabulary and necessity of thoroughness were emphasized. Administrative workflows ensuring regular and continued communication of clinical documentation was provided. National Spine Management Group, LLC, Federation of Chiropractic Licensing Boards, Cleveland University of Health Sciences, College of Chiropractic, Kansas City 2021**

**2021 Spine Management Conference – West – Patient Communication – communication techniques were discussed with emphasis on patient comprehension to increase compliance and reduce patient anxiety. Details were presented on simplification of complex medical reduce patient anxiety. Details were presented on simplification of complex medical terminology to ensure understanding at the initial visitation as well throughout the patient's care plan. Conversational interaction and dissemination of health information at the appropriate comprehension level was provided. Proper reporting and interprofessional communication were emphasized in a wholistic approach to supporting the patient's needs. National Spine Management Group, LLC, Federation of Chiropractic Licensing Boards, Cleveland University of Health Sciences, College of Chiropractic, Kansas City 2021**

**2021 Spine Management Conference – West – Intervertebral Disc Morphology- detailed discussion of the morphological descriptions of intervertebral disc pathology in the cervical, thoracic, and lumbar spine was presented. Differential diagnosis of disc bulge, herniation, protrusion, extrusion, and sequestration were presented. Attention was given to the five grades of annular fissure association circumferential, radial, and transverse morphology. High intensity zone (HIZ) was discussed in detail as well as its correlation to acute inflammatory fluid. Specific MRI images were presented and correlated to consensus driven definitions of intervertebral disc pathology. Pre-existing degenerative changes in the human spine such as a disc osteophyte complex, spondylosis, increased innervation of the intervertebral disc and endplate changes were discussed and correlated to acute findings on MRI. In depth discussion of the difference between morphology and etiology of intervertebral disc pathology was outlined. National Spine Management Group, LLC, Federation of Chiropractic Licensing Boards, Cleveland University of Health Sciences, College of Chiropractic, Kansas City 2021**

**2021 Spine Management Conference – West – Ligamentous Response to Traumatic Injury – anatomical review of spinal ligaments including nerve supply and formation of scar tissue post injury was presented. Function and histological composition were detailed and clinically correlated to physiological thresholds. Injury thresholds were also outlined and compared to the AMA Guides to the Evaluation of Permanent Impairment 5<sup>th</sup> and 6<sup>th</sup> edition. Detailed review of radiographic findings in the cervical and lumbar spine in the presence of ligamentous injury was reviewed and presented. Clinical criteria supporting the diagnosis of ligament injury and ligament laxity including patient**

history, physical examination, radiographic findings, Federation of Chiropractic Licensing Boards, Cleveland University of Health Sciences, College of Chiropractic, Kansas City 2021

2021 Spine Management Conference – West – Causality and Spinal Ligamentous Injury – detailed outline of acute versus chronic spine injury findings were presented. Reliable grading systems for phases of spinal degeneration was reviewed and discussed. Scientifically validate4d measuring process for

### **SELECTED MEMBERSHIPS**

- Illinois Chiropractic Society, Member, 1988-Present
- Midwestern Regional Hospital, Member of Chiropractic Staff, 1985-2013
- American Chiropractic Association, 1984-2012
- Illinois Chiropractic Society, Claims Review Committee, 1993-1999
- Foundation for Wellness Professionals, 2010-2016
- **SELECTED COMMUNITY SERVICE**
- Lions Club Member, Gurnee, Illinois, 1988-2012
- Lions Club President, Gurnee, Illinois, 1992-1993