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Selected Occupational History

Co-Clinic Director, Chiropractor, Champion Chiropractic, Shrewsbury, New Jersey,
1994-Present

Education and Licensure

Doctor of Chiropractic, Licensed in the State of New Jersey, License #38MC00452000,
1993-Present

Doctor of Chiropractic, Licensed in the State of New York, License # X007520, 1993

Doctorate of Chiropractic, New York Chiropractic College, Seneca Falls, New York,
1993

National Board of Chiropractic Examiners, Part 1, 1992, certificate # 47814

National Board of Chiropractic Examiners, Part 2, 1992, certificate # 47814

National Board of Chiropractic Examiners, Part 3, 1992, certificate # 47814

Bachelor of Science in Biology, University of Notre Dame, South Bend, Indiana, 1982

Selected Post Graduate Education and Certificates

MRI Spine Interpretation Certificate, *qualifies as primary expert witness to testify in court concerning MRI findings*, credentialed by New Jersey Office of Attorney General, Division of consumer Affairs, State Board of Chiropractic Examiners, accreditation Council for Continuing Medical Education (ACCME) in joint sponsorship with the State University of New York at Buffalo, School of Medicine and Biomedical Sciences, 2012

MRI History and Physics, *Magnetic fields, T1 and T2 relaxations, nuclear spins, phase encoding, spin echo, T1 and T2 contrast, magnetic properties of metals and the historical perspective of the creation of NMR and MRI*. New Jersey State Board of Chiropractic Examiners, ACCME Joint Sponsorship with the State University of New York at Buffalo, School of Medicine and Biomedical Sciences and CMCS Post Doctoral Division,

Buffalo, NY, 2012

MRI Spinal Anatomy and Protocols, *Normal anatomy of axial and sagittal views utilizing T1, T2, 3D gradient and STIR sequences of imaging. Standardized and desired protocols in views and sequencing of MRI examination to create an accurate diagnosis in MRI.* New Jersey State Board of Chiropractic Examiners, ACCME Joint Sponsorship with the State University of New York at Buffalo, School of Medicine and Biomedical Sciences and CMCS Post Doctoral Division, Buffalo, New York, 2012

MRI Disc Pathology and Spinal Stenosis, *MRI interpretation of bulged, herniated, protruded, extruded, sequestered and fragmented disc pathologies in etiology and neurological sequelae in relationship to the spinal cord and spinal nerve roots.* New Jersey State Board of Chiropractic Examiners, ACCME Joint Sponsorship with the State University of New York at Buffalo, School of Medicine and Biomedical Sciences and CMCS Post Doctoral Division, Buffalo, New York, 2012

MRI Spinal Pathology, *MRI interpretation of bone, intradural, extradural, cord and neural sleeve lesions. Tuberculosis, drop lesions, metastasis, ependymoma, schwannoma and numerous other spinal related tumors and lesions.* New Jersey State Board of Chiropractic Examiners, ACCME Joint Sponsorship with the State University of New York at Buffalo, School of Medicine and Biomedical Sciences and CMCS Post Doctoral Division, Buffalo, New York, 2012

MRI Methodology of Analysis, *MRI interpretation sequencing of the cervical, thoracic and lumbar spine inclusive of T1, T2, STIR and 3D gradient studies to ensure the accurate diagnosis of the region visualized.* New Jersey State Board of Chiropractic Examiners, ACCME Joint Sponsorship with the State University of New York at Buffalo, School of Medicine and Biomedical Sciences and CMCS Post Doctoral Division, Buffalo, New York, 2012

MRI Clinical Application, *The clinical application of the results of space occupying lesions. Disc and tumor pathologies and the clinical indications of manual and adjustive therapies in the patient with spinal nerve root and spinal cord insult as sequelae.* New Jersey State Board of Chiropractic Examiners, ACCME Joint Sponsorship with the State University of New York at Buffalo, School of Medicine and Biomedical Sciences and CMCS Post Doctoral Division, Buffalo, New York, 2012

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 sequella, including bulge, herniation, protrusion, extrusion and sequestration,* New Jersey State Board of Chiropractic Examiners, ACCME Joint Sponsorship with the State University of New York at Buffalo, School of Medicine and Biomedical Sciences, Academy of Chiropractic Post Doctoral Division, Long Island, New York, 2012

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, schmorl's nodes and herniations. Central canal and cauda equina compromise interpretation with management.* New Jersey State Board of Chiropractic Examiners, ACCME Joint Sponsorship with the State University of New York at Buffalo, School of Medicine and Biomedical Sciences, Academy of Chiropractic Post Doctoral Division, Long Island, New York, 2012

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, schmorl's 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.* New Jersey State Board of Chiropractic Examiners, ACCME Joint Sponsorship with the State University of New York at Buffalo, School of Medicine and Biomedical Sciences, Academy of Chiropractic Post Doctoral Division, Long Island, New York, 2012

MRI Interpretation of Cervical 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, schmorl's nodes and herniations. Spinal cord and canal compromise interpretation with management.* New Jersey State Board of Chiropractic Examiners, ACCME Joint Sponsorship with the State University of New York at Buffalo, School of Medicine and Biomedical Sciences, Academy of Chiropractic Post Doctoral Division, Long Island, New York, 2012

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, schmorl's 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.* New Jersey State Board of Chiropractic Examiners, ACCME Joint Sponsorship with the State University of New York at Buffalo, School of Medicine and Biomedical Sciences, Academy of Chiropractic Post Doctoral Division, Long Island, New York, 2012

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. New Jersey State Board of Chiropractic Examiners ,CCME Joint Sponsorship with the State University of New York at Buffalo, School of Medicine and Biomedical Sciences, Academy of Chiropractic Post Doctoral Division, Long Island, New York, 2012

MRI Spine Interpretation, *Spinal MRI findings related to degenerative changes vs. traumatic changes of the intervertebral disc by using definitions provided by the American Society of Neuroradiology. Anatomy of the intervertebral disc, spinal cord, nerve roots and spinal ligaments correlated to T1, T2, STIR sagittal, stacking and axial images. Anatomical MRI differentiation of normal, degenerative and traumatic changes.* New Jersey State Board of Examiners, CMCS Management, Inc., Parsippany, New Jersey, 2012

First Line Therapy, *Detailed specific nutritional treatment protocols for early onset diabetes, heart disease, high cholesterol and body fat. Utilization of a variety of scientific based nutraceuticals to reduce risk factors that contribute to early death.* Metagenics, New York City, New York, 2010

Certification in Manipulation Under Anesthesia, National Manipulation Under Anesthesia Association, Jersey City, New Jersey, 2010

Spinal Decompression Protocols and Indications, *Review of specific conditions and patients that would benefit from spinal decompression, including patient positioning and decompression table function, MRI review of bulging discs, herniated discs, spinal stenosis and sciatica.* K-Med Services, 3-D Active Trac, Summit, New Jersey, 2006

Treatment of Lumbar Disc Herniation with Flexion Distraction Protocols, *Acquired practical knowledge in the treatment and rehabilitation of degenerative and herniated disc disease of the lower back with flexion/distraction techniques.* New York Chiropractic College, Seneca Falls, New York, 1993

Extremity Adjusting, *Extremity adjusting including shoulder, elbow, wrist, hip, knee and ankle. Patient indications for evaluation, adjustment and follow up.* New York Chiropractic College, Seneca Falls, New York, 1993

Selected Memberships

American Academy of Medical Legal Professionals, Member, 2012-Present

Association of New Jersey Chiropractors, Member, 2004-Present

International Chiropractic Association, Member, 2011-Present

Monmouth County Chiropractic Association, Member 1993-2004

Selected Community Service

World Trade Center, 9/11 Chiropractic Volunteer, New York, New York, 2001

Monmouth County, Red Bank Rotary, Member, Red Bank, New Jersey, 1994-2001

Eastern Monmouth County Chamber of Commerce, Member, Monmouth County, New Jersey, 1994-2001