

**Brandon R. Burkley, DC**  
Curriculum Vitae  
Raleigh Center for Spine and Trauma  
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919-845-0200 Office  
DrBurkley@SpineandTrauma.com  
www.endyourpain.com

## **SELECTED OCCUPATIONAL HISTORY**

Academy of Chiropractic – Active Trauma Team Member, 2018-present

Clinical Director, Raleigh Center for Spine and Trauma, P.C., Raleigh, North Carolina  
May 2017 – Present

Clinical Consultant, The Joint Chiropractic Clinics Triangle Chiropractic, P.C., Cary,  
North Carolina *6 locations in the Triangle, Raleigh, North Carolina.*  
March 2017 – Present

Chief Operating Officer, Resolution Training (The EFT Group) *an outsourced personal  
training company operating 85 locations in 14 states*, Raleigh, North Carolina,  
April 2015 –January 2017

Chief Operating Officer, Triumph Group Management *an outsourced personal training  
company operating 35 locations in 7 states*, Raleigh, North Carolina  
February 2013 – April 2016

Executive Board, Legacy supplements, LLC dba: FitStrong Supplements, Raleigh, North  
Carolina  
October 2014 – January 2016

Executive Board, StrongFit, LLC dba: FitStrong Fitness *an online personal training  
company*, Raleigh, North Carolina  
March 2014 – January 2016

Senior Vice President, Resolution Training (The EFT Group), Raleigh, North Carolina,  
January 2013 – March 2015

Associate Physician/Partner, Montvale Surgical Center, Montvale, New Jersey  
January 2011 – December 2012

Health and Wellness Consultant, The EFT Group, LLC, Raleigh, North Carolina  
January 2009 – December 2012

Clinical Director, Burkley Chiropractic, P.C., Red Hook, New York  
January 2003 – December 2012



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Clinical Director, Avenue Medical, P.C., Queens, New York, NY

January 2001 – December 2002

Associate Chiropractor, Avenue Medical, P.C., Queens, New York, NY

January 2000 – December 2000

**EDUCATION and LICENSURE**

Doctor of Chiropractic, Licensed in the State of North Carolina, License # 4738, 2017-Present

Doctor of Chiropractic, Licensed in the State of New York, License # X009296, 1999-Present

Doctor of Chiropractic, Licensed in the State of New Jersey, License # 38MC00677200, 2009-2013

Doctor of Chiropractic, National College of Chiropractic, Lombard, Illinois, 1998

Internship National College of Chiropractic Outpatient Clinic, Chicago, Illinois, 1997-1998

National Board of Chiropractic Examiners, Part IV, 2016

National Board of Chiropractic Examiners, Part IV, 1998

National Board of Chiropractic Examiners, Part III, 1998

National Board of Chiropractic Examiners, Part II, 1997

National Board of Chiropractic Examiners, Part I, 1996

Bachelor of Science in Human Biology, National College of Chiropractic, Lombard, Illinois, 1996

**SELECTED POST-GRADUATE EDUCATION, CERTIFICATIONS**

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.* [Texas Chiropractic College or PACE Recognized by The Federation of Chiropractic Licensing Boards>, 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, 2018

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 in stroke inclusive of diabetes, coagulopathy, acquired and hereditary deficiencies.* [Texas Chiropractic College or PACE Recognized by The Federation of Chiropractic Licensing Boards], 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, 2018



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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.* [Texas Chiropractic College or PACE Recognized by The Federation of Chiropractic Licensing Boards], 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, 2018

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.*[Texas Chiropractic College or PACE Recognized by The Federation of Chiropractic Licensing Boards], 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, 2018

Orthopedic Testing: Clinical Grand Rounds, *Integration of 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.* [Texas Chiropractic College or PACE Recognized by The Federation of Chiropractic Licensing Boards], 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, 2017

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.* [Texas Chiropractic College or PACE Recognized by The Federation of Chiropractic Licensing Boards], 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, 2018

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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.* [Texas Chiropractic College or PACE Recognized by The Federation of Chiropractic Licensing Boards], 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, 2018

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.* [Texas Chiropractic College or PACE Recognized by The Federation of Chiropractic Licensing Boards], 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, 2018

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.* [Texas Chiropractic College or PACE Recognized by The Federation of Chiropractic Licensing Boards], 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, 2018

Head Trauma, Brain Injury and Concussion, *Brain and head physiology, brain mapping and pathology as a sequella to trauma. Traumatic brain injury, mild traumatic brain injury, axonal shearing, diffuse axonal injury and concussion are detailed in etiology and clinically. Clinical presentation, advanced diagnostic imaging and electrodiagnostics are detailed in analysis to create a differential diagnosis. Balance disorders that often occur as a result of trauma are also explored from clinical presentation to advanced imaging and differential diagnosis.* [Texas Chiropractic College or PACE Recognized by The Federation of Chiropractic Licensing Boards], Academy of Chiropractic Post Doctoral Division, Long Island, NY, 2018

Impairment Rating, *The understanding and utilization of the protocols and parameters of the AMA Guide to the Evaluation of Permanent Impairment 6th Edition. Spine, neurological sequelae, migraine, sexual dysfunction, sleep and arousal disorders, station and gait disorders and consciousness are detailed for impairment rating. Herniated discs, radiculopathy, fracture, dislocations and functional loss are also detailed in relation to impairment ratings.* [Texas Chiropractic College or PACE Recognized by The Federation of Chiropractic Licensing Boards'], ACCME Joint Providership with the State University of New York at Buffalo Jacobs School of Medicine



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*and Biomedical Sciences, Academy of Chiropractic Post-Doctoral Division, Buffalo, NY, 2018*

Accident Reconstruction: Research, Causality and Bodily Injury, *Delta V issues correlated to injury and mortality, side impact crashes and severity of injuries, event data recorder reports correlated to injury, frontal impact kinematics, crash injury metrics with many variables and inquiries related to head restraints.* [Texas Chiropractic College or PACE Recognized by The Federation of Chiropractic Licensing Boards], Academy of Chiropractic Post Doctoral Division, Long Island, NY, 2018

Accident Reconstruction: Skid Marks, Time, Distance, Velocity, Speed Formulas and Road Surfaces, *The mathematical calculations necessary utilizing time, distance, speed, coefficients of friction and acceleration in reconstructing an accident. The application of the critical documentation acquired from an accident site.* [Texas Chiropractic College or PACE Recognized by The Federation of Chiropractic Licensing Boards], Academy of Chiropractic Post Doctoral Division, Long Island, NY, 2018

Accident Reconstruction: Causality, Bodily Injury, Negative Acceleration Forces, Crumple Zones and Critical Documentation, *Factors that cause negative acceleration to zero and the subsequent forces created for the vehicle that get translated to the occupant. Understanding critical documentation of hospitals, ambulance reports, doctors and the legal profession in reconstructing an accident.* [Texas Chiropractic College or PACE Recognized by The Federation of Chiropractic Licensing Boards}, Academy of Chiropractic Post Doctoral Division, Long Island, NY, 2018

Accident Reconstruction: Terms, Concepts and Definitions, *The forces in physics that prevail in accidents to cause bodily injury. Quantifying the force coefficients of vehicle mass and force vectors that can be translated to the occupant and subsequently cause serious injury.* [Texas Chiropractic College or PACE Recognized by The Federation of Chiropractic Licensing Boards], Academy of Chiropractic Post Doctoral Division, Long Island, NY, 2018

Triage and Management of the Trauma and Non-Trauma Patient, *differentially diagnosing spinal issues in the trauma and non-trauma patient inclusive of spinal disc pathology utilizing x-ray, MRI, CAT Scan and clinical evaluations. Collaborate triage protocols with neurologists, neurosurgeons, orthopedic surgeons, pain management and primary medical care providers with both mechanical and anatomical spine pathologies, Academy of Chiropractic, PACE Approved for the Federation of Chiropractic Licensing Boards, Cleveland University, Kansas City Chiropractic and Health Sciences, 2018*

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.* [Texas Chiropractic College, PACE Recognized by The Federation of Chiropractic Licensing Boards,] ACCME Joint Providership with the State University of New York at Buffalo Jacobs School of





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Medicine and Biomedical Sciences, Academy of Chiropractic Post-Doctoral Division, Buffalo, NY, 2018

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.* [Texas Chiropractic College, PACE Recognized by The Federation of Chiropractic Licensing Boards,] 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, 2018

Spinal Trauma Pathology: Biomechanics of Traumatic Disc Bulge and Age Dating Herniated Disc Pathology, *The biomechanics of traumatic disc bulges as sequella from trauma and the comorbidity of ligamentous pathology. Age-dating spinal disc pathology in accordance with Wolff's Law.* [Texas Chiropractic College, PACE Recognized by The Federation of Chiropractic Licensing Boards,] 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, 2018

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 gray matter, thalamus and cortices involvement.* [Texas Chiropractic College, PACE Recognized The by Federation of Chiropractic Licensing Boards,] 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, 2018

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.* [Texas Chiropractic College, PACE Recognized by The Federation of Chiropractic Licensing Boards,] 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, 2018

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.* [Texas Chiropractic College, PACE Recognized by The Federation of Chiropractic Licensing Boards] 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, 2018

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Spinal Biomechanical Engineering: Full Spine Digital Analysis, *Digitalizing and analyzing the full spine images to diagnose pathobiomechanics as sequellae to trauma in relation to ligamentous failure and disc and vertebral pathology as sequellae. 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.* [Texas Chiropractic College or PACE Recognized by The Federation of Chiropractic Licensing Boards], 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, 2018

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.* [Texas Chiropractic College or PACE Recognized by The Federation of Chiropractic Licensing Boards], 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, 2018

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.* [Texas Chiropractic College or PACE Recognized by The Federation of Chiropractic Licensing Boards], 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, 2018

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.* [Texas Chiropractic College or PACE Recognized by The Federation of Chiropractic Licensing Boards], 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, 2018



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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 sequellae 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.* [Texas Chiropractic College or PACE Recognized by The Federation of Chiropractic Licensing Boards], 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, 2018

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.* [Texas Chiropractic College or PACE Recognized by The Federation of Chiropractic Licensing Boards], 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, 2018

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.* [Texas Chiropractic College or PACE Recognized by The Federation of Chiropractic Licensing Boards], 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, 2018

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.* [Texas Chiropractic College or PACE Recognized by The Federation of Chiropractic Licensing Boards], 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, 2018

MRI Spine Interpretation and Spinal Biomechanics, *Bulging, herniated, protruded and extruded disc contemporary nomenclature, analysis and differential diagnosis. Connective tissue physiology and pathology with aberrant biomechanical permanent sequellae,* Texas Chiropractic College, Academy of Chiropractic, Melville NY, 2017





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Contemporary Literature in Spinal Biomechanics, *Normal vs. pathological biomechanical spinal motion both in a single motor unit and coupling actions. Interdisciplinary approach to mechanical spine issues and evidenced based care paths*, Texas Chiropractic College, Academy of Chiropractic, Melville NY, 2017

Documentation of Spinal Trauma, *Interdisciplinary approaches in documentation of spinal related injuries inclusive of connective tissue disorders and biomechanical failure. Clinically correlating history, imaging, advanced imaging and clinical findings to conclude an accurate diagnosis, prognosis and treatment plan*, Texas Chiropractic College, Academy of Chiropractic, Melville NY, 2017

Contemporary Literature of the Chiropractic Spinal Adjustment, *The bio-neuro-mechanical scientific foundation of spinal lesion and the neurological pathways, both in the lower and upper motor neuron pathways. The autonomic sequella of the vertebral subluxation and the effects of the correction and maintenance of those lesions*, Texas Chiropractic College, Academy of Chiropractic, Melville NY, 2017

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*. [Texas Chiropractic College or PACE Recognized by The Federation of Chiropractic Licensing Boards], 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, 2017

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*. [Texas Chiropractic College or PACE Recognized by The Federation of Chiropractic Licensing Boards], 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, 2017

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*. [Texas Chiropractic College or PACE Recognized by The Federation of Chiropractic Licensing Boards], 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, 2017

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*. [Texas Chiropractic College or PACE Recognized by The Federation of Chiropractic Licensing Boards], ACCME Joint Providership with the State University of New York at Buffalo Jacobs School of



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Medicine and Biomedical Sciences, Academy of Chiropractic Post-Doctoral Division,  
Buffalo, NY, 2017

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 York Chiropractic Council, ACCME Joint Sponsorship with the State University of New York at Buffalo, School of Medicine and Biomedical Sciences, [Texas Chiropractic College or PACE Recognized by The Federation of Chiropractic Licensing Boards], 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, 2017

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.* [Texas Chiropractic College or PACE Recognized by The Federation of Chiropractic Licensing Boards], 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, 2017

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 sequellae, including bulge, herniation, protrusion, extrusion and sequestration.* [Texas Chiropractic College or PACE Recognized by The Federation of Chiropractic Licensing Boards], 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, 2017

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 vertebrae, Schmorl's nodes and herniations. Central canal and cauda equina compromise interpretation with management.* [Texas Chiropractic College or PACE Recognized by The Federation of Chiropractic Licensing Boards], 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, 2017

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 vertebrae, 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.* [Texas Chiropractic College or PACE Recognized by The Federation of Chiropractic Licensing Boards], ACCME Joint



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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, 2017

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, Schmorl's nodes and herniations. Spinal cord and canal compromise interpretation with management.* [Texas Chiropractic College or PACE Recognized by The Federation of Chiropractic Licensing Boards], 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, 2017

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.* [Texas Chiropractic College or PACE Recognized by The Federation of Chiropractic Licensing Boards], 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, 2017

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.* [Texas Chiropractic College or PACE Recognized by The Federation of Chiropractic Licensing Boards], 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, 2017

Documenting Clinically Correlated Bodily Injury to Causality, *Understanding the necessity for accurate documentation, diagnosis and clinical correlation to the injury when reporting injuries in the medical-legal community. Documenting the kinesiopathology, myopathology, neuropathology, and pathophysiology in both a functional and structural paradigm.* [Texas Chiropractic College or PACE Recognized by The Federation of Chiropractic Licensing Boards], Academy of Chiropractic Post Doctoral Division, Long Island, NY, 2017

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Documentation and Reporting for the Trauma Victim, *Understanding the necessity for accurate documentation and diagnosis utilizing the ICD-9 and the CPT to accurately describe the injury through diagnosis. Understanding and utilizing state regulations on reimbursement issues pertaining to healthcare.* [Texas Chiropractic College or PACE Recognized by The Federation of Chiropractic Licensing Boards], Academy of Chiropractic Post Doctoral Division, Long Island, NY, 2017

Neurodiagnostic Testing Protocols, Physiology and Indications for the Trauma Patient, *Electromyography (EMG), Nerve Conduction Velocity (NCV), Somato Sensory Evoked Potential (SSEP), Visual Evoked Potential (VEP), Brain Stem Auditory Evoked Potential (BAER) and Visual-Electronystagmosgraphy (V-ENG) interpretation, protocols and clinical indications for the trauma patient.* [Texas Chiropractic College or PACE Recognized by The Federation of Chiropractic Licensing Boards], Academy of Chiropractic Post Doctoral Division, Long Island, NY, 2017

MRI, Bone Scan and X-Ray Protocols, Physiology and Indications for the Trauma Patient, *MRI interpretation, physiology, history and clinical indications, bone scan interpretation, physiology and clinical indications, x-ray clinical indications for the trauma patient.* [Texas Chiropractic College or PACE Recognized by The Federation of Chiropractic Licensing Boards], Academy of Chiropractic Post Doctoral Division, Long Island, NY, 2017

Crash Dynamics and Its Relationship to Causality, *An extensive understanding of the physics involved in the transference of energy from the bullet car to the target car. This includes G's of force, newtons, gravity, energy, skid marks, crumple zones, spring factors, event data recorder and the graphing of the movement of the vehicle before, during and after the crash. Determining the clinical correlation of forces and bodily injury.* [Texas Chiropractic College or PACE Recognized by The Federation of Chiropractic Licensing Boards], Academy of Chiropractic Post Doctoral Division, Long Island, NY, 2017

Diagnostics, Risk Factors, Clinical Presentation and Triaging the Trauma Patient, *An extensive understanding of the injured with clinically coordinating the history, physical findings and when to integrate neurodiagnostics. An understanding on how to utilize emergency room records in creating an accurate diagnosis and the significance of "risk factors" in spinal injury.* [Texas Chiropractic College or PACE Recognized by The Federation of Chiropractic Licensing Boards], Academy of Chiropractic Post Doctoral Division, Long Island, NY, 2017

Neurodiagnostics, Imaging Protocols and Pathology of the Trauma Patient, *An in-depth understanding of the protocols in triaging and reporting the clinical findings of the trauma patient. Maintaining ethical relationships with the medical-legal community.* [Texas Chiropractic College or PACE Recognized by The Federation of Chiropractic Licensing Boards], Academy of Chiropractic Post Doctoral Division, Long Island, NY, 2017



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Curriculum Vitae

Raleigh Center for Spine and Trauma

Imaging- MRI “*Anatomy, Physiology and Pathology of the Spine using MRI*”, Accredited by The International Society of Radiographers and Radiological Technologists, Royal Philips Electronics of the Netherlands (Phillips Learning center), Amsterdam, Netherlands, 2017

Imaging- MRI Interpretation “Utilizing MRI (II), common imaging modalities and advanced clinical approaches”, *The physiology and systemic effects of spinal complaints that are common in the chiropractic office*, National Chiropractic Mutual Insurance Company, North Carolina Chiropractic Association, Cary, NC, 2017

Neurology and Trauma "Introduction to the Identification, Assessment, and Chiropractic Treatment of Post-Concussion Syndrome", *Identify, grade, and advise the post-concussive patient. Select most appropriate testing to measure cognitive function. Evaluate brain dysfunction. Deliver Receptor Based Therapies to restore proper neurological integrity* North Carolina Chiropractic Association, Cary, NC, 2017

Imaging- Introduction to MRI" Utilizing MRI (I), common imaging modalities and advanced clinical approaches”, *The physiology and systemic effects of spinal complaints that are common in the chiropractic office*, National Chiropractic Mutual Insurance Company, North Carolina Chiropractic Association, Cary, NC, 2017

Ethics- Railroad Medicare’s Review of Chiropractic Services, *Railroad Medicare. What is a Medicare Administrative Contractor. Structural outline of how Medicare is administered in Jurisdiction M and throughout the country. How and why Medicare manually reviews claims. The outcome of the Railroad Medicare claim reviews for chiropractic services*, North Carolina Chiropractic Association, Cary, NC, 2017

Radiology- Plain X-ray film clinical review *spine and extremities*, Sherman College of Chiropractic, Spartanburg, SC, 2016

Radiology- X-ray interpretation and diagnosis of the *spine and extremities*, Life College of Chiropractic, Marietta, GA, 2016

Chiropractic Technique- Sherman College of Chiropractic, Spartanburg, SC, 2016

Case Management- Sherman College of Chiropractic, Spartanburg, SC, 2016

Primary Spine Care- Central Nervous System Processing of Pain and Physiology, *Central neural pathways of pain and higher cortical responses to pain and the effect of high amplitude-low velocity forces on mechanoreceptors and proprioceptors. The effects of neuropeptides on the hypothalamus, pituitary and adrenal axis when treating patients*. Texas Chiropractic College, Academy of Chiropractic, Academy of Chiropractic, PACE Recognized by the Federation of Chiropractic Licensing Boards, Melville NY, 2016





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Primary Spine Care- Hospital and Emergency Room Care, *Identifying spinal lesions inclusive of cord and root lesion through examination and advanced imaging in creating an accurate diagnosis, prognosis and treatment plan to effectively triage in collaboration and coordination with medical specialists and emergency department physicians.*

*Differentially diagnosing and triaging disc degenerative bulges, traumatic disc bulges, protrusion herniations, extrusion herniations and fragmented herniations along with managing traumatically induced pain as sequella to degenerative disc trauma, Texas Chiropractic College, Academy of Chiropractic, Academy of Chiropractic, PACE Recognized by the Federation of Chiropractic Licensing Boards, Melville NY, 2016*

Connective Tissue Pathology and Trauma- *Wound repair of axial connective tissue and the negative spinal biomechanical engineering sequella. Determining causality from an accident reconstruction perspective inclusive of transference of forces and G's of energy realized by automobile occupants, Academy of Chiropractic, PACE Recognized by the Federation of Chiropractic Licensing Boards, Melville NY, 2016*

Ethics- No Fault: *No Fault and the arbitration process, Ethics*

New York Chiropractic College, New York State Chiropractic Association, Uncasville CT, 2013

Ethics- Medicare: Proper Documentation, *Ethics*

New York Chiropractic College, New York State Chiropractic Association, Uncasville CT, 2013

Ethics- Workers Compensation: Maintenance care guidelines, *Ethics*

New York Chiropractic College, New York State Chiropractic Association, Uncasville CT, 2013

Chiropractic Practice- Medicare: Medicare EHR

New York Chiropractic College, New York State Chiropractic Association, Uncasville CT, 2013

Chiropractic practice- Active Care and Postural Correction

New York Chiropractic College, New York State Chiropractic Association, Uncasville CT, 2013

Ethics- Medicare: Billing and Coding, *Ethics*

New York Chiropractic College, New York State Chiropractic Association, Uncasville CT, 2012

Ethics- No Fault: Arbitration Process, *Ethics*

New York Chiropractic College, New York State Chiropractic Association, Uncasville CT, 2012



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Ethics- Workers Compensation: Proper Documentation of Exacerbations, *Ethics*  
New York Chiropractic College, New York State Chiropractic Association, Uncasville  
CT, 2012

Ethics- Medicare: Documentation  
New York Chiropractic College, New York State Chiropractic Association, Uncasville  
CT, 2012

Chiropractic practice- Differential Diagnosis Using Foundational Lab Analysis  
New York Chiropractic College, New York State Chiropractic Association, Uncasville  
CT, 2012

Chiropractic practice- Theory and Clinical Application of Therapeutic Medical Lasers  
New York Chiropractic College, New York State Chiropractic Association, Uncasville  
CT, 2012

Ethics- Medicare: Chiropractic Billing and Coding and Medical Review, *Ethics*  
New York Chiropractic College, New York State Chiropractic Association, Uncasville  
CT, 2011

Sports injuries- Chiropractic in the World of Sports Injuries, *Chiropractic practice*  
New York Chiropractic College, New York State Chiropractic Association, Uncasville  
CT, 2011

Ethics- Overview of Rules, Intent & Content of New York Workers Compensation  
Medical Treatment Guidelines, New York Chiropractic College, New York State  
Chiropractic Association, Uncasville CT, 2011

Ethics- Documentation and completion of records, New York Chiropractic College, New  
York State Chiropractic Association, Uncasville CT, 2011

Ethics- Documentation of Functional Measures, New York Chiropractic College, New  
York State Chiropractic Association, Uncasville CT, 2011

Primary Spine Care- Intro to Active care, New York Chiropractic College, New York  
State Chiropractic Association, Uncasville CT, 2011

Primary Spine Care- Lumbar Spine Active Care, New York Chiropractic College, New  
York State Chiropractic Association, Uncasville CT, 2011

Primary Spine Care- Cervical/Thoracic/Scapular Active Care, New York Chiropractic  
College, New York State Chiropractic Association, Uncasville CT, 2011

Ethics- Active care Documentation and Coding, New York Chiropractic College, New  
York State Chiropractic Association, Uncasville CT, 2011



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Ethics- Medicare: Policy Update, *Ethics*  
New York Chiropractic College, New York State Chiropractic Association, Lake George,  
NY, 2011

Ethics- Health Insurance Audits and Billing, *Ethics*  
New York Chiropractic College, New York State Chiropractic Association, Uncasville  
CT, 2011

Ethics- Overview of the National Committee for Quality Assurance Back Pain  
Recognition Program, New York Chiropractic College, New York State Chiropractic  
Association, Lake George, NY, 2011

Ethics- Documentation and completion of NYS Workers Compensation Variance, New  
York Chiropractic College, New York State Chiropractic Association, Lake George, NY,  
2011

Certification: Manipulation Under Anesthesia, Certification in Manipulation Under  
Anesthesia, Texas Chiropractic College division of postgraduate studies, Pasadena Texas,  
2011

Ethics- Workers Compensation Guidelines Changes, New York State Chiropractic  
Association, Newburgh, NY, 2010

Ethics- Advanced Comprehensive Insurance Seminar, Southern California University of  
Health Sciences School of Professional Studies, Whittier, CA, 2009

Ethics- Ethics for Professionals II, University of Bridgeport College of Chiropractic,  
Division of Post Graduate and Continuing Education, Bridgeport, CT, 2007

Ethics- Risk Assessment IV, University of Bridgeport College of Chiropractic, Division  
of Post Graduate and Continuing Education, Bridgeport, CT, 2007

Ethics- Risk Assessment III, University of Bridgeport College of Chiropractic, Division  
of Post Graduate and Continuing Education, Bridgeport, CT, 2007

Ethics- Risk Assessment II, University of Bridgeport College of Chiropractic, Division of  
Post Graduate and Continuing Education, Bridgeport, CT, 2007

Ethics- Risk Assessment I, University of Bridgeport College of Chiropractic, Division of  
Post Graduate and Continuing Education, Bridgeport, CT, 2007

Chiropractic Practice- Myofacial Pain Syndromes: Trigger Point Therapy, University of  
Bridgeport College of Chiropractic, Division of Post Graduate and Continuing Education,  
Great Neck, NY, 2007

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Curriculum Vitae

Raleigh Center for Spine and Trauma

Imaging - Essentials of MRI: *Spine, brain and extremity*

New York Chiropractic College, Department of Post Graduate and Continuing Ed.,  
Levittown, NY, 2007

Chiropractic Practice- Physical Therapy, New York Chiropractic College, Department of  
Post Graduate and Continuing Ed., Levittown, NY, 2006

Ethics- Gender and Sensitivity II, University of Bridgeport College of Chiropractic,  
Division of Post Graduate and Continuing Education, Bridgeport, CT, 2006

Ethics- Gender and Sensitivity I, University of Bridgeport College of Chiropractic,  
Division of Post Graduate and Continuing Education, Bridgeport, CT, 2006

Ethics- Emergency Procedures, University of Bridgeport College of Chiropractic,  
Division of Post Graduate and Continuing Education, Bridgeport, CT, 2006

Ethics- Boundary Training, University of Bridgeport College of Chiropractic, Division of  
Post Graduate and Continuing Education, Bridgeport, CT, 2006

Ethics- Documentation III, University of Bridgeport College of Chiropractic, Division of  
Post Graduate and Continuing Education, Bridgeport, CT, 2006

Ethics- Documentation II, University of Bridgeport College of Chiropractic, Division of  
Post Graduate and Continuing Education, Bridgeport, CT, 2006

Ethics- Documentation I, University of Bridgeport College of Chiropractic, Division of  
Post Graduate and Continuing Education, Bridgeport, CT, 2006

Chiropractic Technique- Activator Methods, Activator Methods, Inc., Phoenix, AZ, 1997

Chiropractic Technique- SORSI/Sacral Occipital Technique, Logan College of  
Chiropractic Division of Postdoctoral and Related Professional Education, Chesterfield,  
Missouri, 1997

Chiropractic Technique- SORSI/Cranial, Logan College of Chiropractic Division of  
Postdoctoral and Related Professional Education, Chesterfield, Missouri, 1997

**SELECTED MEMBERSHIPS**

The Patriot Project, 2017-present

North Carolina Chiropractic Association, 2017-present

Academy of Chiropractic, 2012-present

New York State Chiropractic Association, 2001-2013

American Chiropractic Association, 1997-2001



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**SELECTED HONORS & AWARDS**

Victory Coin and Flag Insignia, Army National Guard, *Presented to an American Patriot*, Raleigh, NC, 2017

MVP Award, Resolution Training, LLC, Raleigh, NC, 2014

Master Monumental Masonic Lodge, Tivoli, NY, 2011 & 2012

Master Hendrick Hudson Masonic Lodge, Red Hook, NY, 2008 & 2009

National College of Chiropractic Clinical Achievement Award, *for clinical excellence*, National College of Chiropractic, Lombard IL, 1998

National College of Chiropractic Class of April 1998, President, National College of Chiropractic, Lombard IL, 1997-1998

National College of Chiropractic Sigma Phi Kappa, President, National College of Chiropractic, Lombard IL, 1996

Who's Who Among Students in American Colleges and Universities, *In recognition of outstanding merit and accomplishment as a student at National College of Chiropractic*, National College of Chiropractic, 1997, 1998

**SELECTED COMMUNITY SERVICE**

Volunteer physician: The Patriot Project, *The Patriot Project is a grass roots movement to provide complementary chiropractic care to all active military, disabled veterans and all gold star dependents*. North Canton, Ohio 2017- present.  
Member: Public Safety Advisory Committee (PSAC), Town of Morrisville, NC, term (2017-2019).

Volunteer: Brown bag ministry, St Andrew the Apostle, *Lunches are prepared and distributed to the homeless, those at risk of homelessness, and those living in poverty*, Cary, NC, 2017

Chairman Dutchess County, New York Masonic District, *Fellowship and Family involvement*, Red Hook, NY, 2006-2012

Chairman Columbia County, New York Masonic District, *Fellowship and Family involvement*, Tivoli, NY, 2004-2010

League Coordinator, Red Hook Little League, Red Hook, NY, 2005-2009