

Edward M. Covelli, Jr., DC

Chiropractor

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Curriculum Vitae

SELECTED OCCUPATIONAL HISTORY

Chiropractor/Clinic Director, Advanced Health NY/Carmel Medical Care, PC, Carmel, NY 10512, 2016 to present

Chiropractor/Clinic Director, Advanced Health & Injury/Gleneida Medical Care, PC, Carmel, NY 10512 2009 to 2016

Chiropractor/Private Practice, Covelli Chiropractic, Mahopac, NY 10512 2005 to 2009

Professional Workshop Designer, Writer, Presenter, Healthy Workshops, healthyworkshops.com, 2002 to 2020

Independent Chiropractic Examiner, Medical Evaluation Specialists, Hauppauge, NY 11788, 2003 to 2009

Independent Chiropractic Examiner, Global Review Services, Inc., Pearl River, NY 10965, 2003 to 2008

Independent Chiropractic Examiner, ViewPoint - Exams International, Inc., Melville, NY 11747, 2002 to 2008

Independent Chiropractic Examiner, MDL, Franklin Square, NY 11010, 1997 to 2001

Chiropractor/Private Practice, Covelli Chiropractic, Scarsdale, NY 10512 1996 to 2005

Professional Speaker, Lois Lazar Speaker's Bureau, Scarsdale, NY 10512 1996 to 1999

Independent Chiropractic Examiner, Concentra, Inc., Woodbury, NY 11797, 1995 to 2008

Chiropractor/ Director of Chiropractic Services, NY Hotel Trades Health Center, New York, NY 10019 1999 to 2002

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Computer Consultant, MacTechnologies Consulting, New York, NY 1998 to 2020

Chiropractor/ Director of Public Relations, Whitestone Chiropractic, Whitestone, NY 11357 1994 to 1995

Associate Chiropractor, Cross Island Chiropractic Center, Whitestone, NY 11357 1994

Chiropractor/Private Practice, Centro Medico Privato, s.r.l., Savignano s/Rubicone, Italy 47039 1992 to 1994

Public Health Care Chiropractor, Centro S. Petronio, s.r.l., Bologna, Italy 40133 1992 to 1994

Associate Chiropractor, Whitestone Family Chiropractic, Whitestone, NY 11357 1990 to 1992

Chiropractic Intern, New York Chiropractic College Outpatient Facilities, Levittown, NY 11756 1990

EDUCATION & LICENSURE

Doctor of Chiropractic and IME, New York State Workers Comp Certification # C006750-B, 1995 to present

Doctor of Chiropractic, New York State Chiropractic License # X006750, 1991 to present

Diplomate National Board of Chiropractic Examiners #42453, 1990

Doctor of Chiropractic, New York Chiropractic College, 1991

Bachelor of Science, New York State Regents College, 1990

Undergrad, C.W. Post Long Island Campus, 1987 to 1987

Undergrad, Queensborough Community College, 1985 to 1987

Undergrad, Queens College, 1984 to 1985

Advanced Placement Program, St. Francis College, 1983 to 1984

SELECTED CERTIFICATIONS, QUALIFICATION, & DIPLOMATES

HIPAA Privacy and Security, Annual Training

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OSHA, Annual Training

Sexual Harassment, Annual Training

Fraud, Waste and Abuse, Annual Training

Basic life Support BLS – HCP/CPR/AED/First Aid, National CPR Foundation, Biannually

Stop the Bleed Training, Biannual training

Certified Fitness Trainer, International Sports Science Association, 2006

IME Certification Course, College of Forensic Sciences, 2004

Peer Review Certification, University of Bridgeport, CT, 2004

Surface EMG Certification, 1994

SELECTED POST-GRADUATE EDUCATION

Stroke Anatomy and Physiology Credentialing

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, 2023

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. 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, 2023

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

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Jacobs School of Medicine and Biomedical Sciences, Academy of Chiropractic Post-Doctoral Division, Buffalo, NY, 2023

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 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, 2023

Traumatic Brain Injury and Concussion Credentialing

Traumatic Brain Injury and Concussion Overview: This section is an in-depth overview of traumatic brain injury in concussion. It discusses that all brain injuries are traumatic and dispels the myth of a “mild traumatic brain injury.” Also, this covers triage protocols and the potential sequela of patients with traumatic brain injuries. Cleveland University, Kansas City, Academy of Chiropractic, Post-Doctoral Division, Long Island, NY, 2023

Head Trauma and Traumatic Brain Injury Part 1: This section discusses gross traumatic brain injuries from trauma and significant bleeding with both epidural and subdural hematomas. There are numerous case studies reviewed inclusive of neurosurgical intervention and postsurgical outcomes. Cleveland University, Kansas City, Academy of Chiropractic, Post- Doctoral Division, Long Island, NY, 2023

Head Trauma and Traumatic Brain Injury Part 2: This section continues with multiple case studies of gross traumatic brain injuries from trauma requiring neurosurgical intervention and also discusses recovery sequela based upon the significance of brain trauma. This module also concludes with concussion protocols in traumatic brain injury short of demonstrable bleeding on advanced imaging. Cleveland University, Kansas City, Academy of Chiropractic, Post-Doctoral Division, Long Island, NY, 2023

Concussion And Electroencephalogram Testing: This this section covers concussion etiology and cognitive sequela where gross bleeding has not been identified on advanced imaging. It discusses the significance of electroencephalogram testing in determining brain function and pathology (if present). This module also covers the understanding of waveforms in electroencephalogram testing in both normal and abnormal scenarios. Cleveland University, Kansas City, Academy of Chiropractic, Post-Doctoral Division, Long Island, NY, 2023

Concussion And Electroencephalogram Testing Pathological Results: This module covers amplitude, conduction and conduction delays as sequela to traumatic brain injury to diagnose concussion and traumatic brain injury in the absence of gross bleeding and

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advanced imaging. This section covers electroencephalograms and event-related potentials which measures the brain response that is a direct result of specific sensory or motor events. It is a stereotype electrophysiological response to a stimulus and provides a noninvasive means of evaluating brain function. In this module multiple case studies are discussed with ensuing triage protocols pending the results. Cleveland University, Kansas City, Academy of Chiropractic, Post-Doctoral Division, Long Island, NY, 2023

Lumbar Spine Instability and its Relation to Chronic Low Back Pain. Northeast College of Health Sciences, Levittown, NY 2023

Learn To Talk Back: **Clinical Communication of Conservative Spine.** Northeast College of Health Sciences, Levittown, NY 2023

Unique Clinical Anatomy: The Spine, Beyond the Spine and Anatomical Justification for Treatment. Northeast College of Health Sciences, Levittown, NY 2023

Treatment Guidelines, Documentation, and Coding Compliance: Workers' Compensation and Beyond. Northeast College of Health Sciences, Levittown, NY 2023

Orthopedic Testing Credentialing

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, 2023

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, 2023

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, 2023

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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

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, 2023

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, dislocation and functional loss are also detailed in relation to impairment ratings. 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, 2023

Neurology of Ligament Pathology Credentialing

Neurology of Ligament Pathology- Normal Morphology and Tissue Damage, Connective tissue morphology, embryology and wound repair as sequelae to trauma. Full components of strain-sprain models and permanency implications with wound repair and osseous aberration with aberrant structural integrity. Academy of Chiropractic, Post-Doctoral Division, Cleveland University- Kansas City, College of Chiropractic, Long Island, NY, 2023

Neurology of Ligament Pathology- Spinal Biomechanics and Disc Pathology, Disc pathology as sequella to trauma; herniation, extrusion, protrusion, sequestration and how the spinal unit as one system creates homeostasis to balance the pathology. Academy of Chiropractic, Post-Doctoral Division, Cleveland University-Kansas City, College of Chiropractic, Long Island, NY, 2023

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Neurology of Ligament Pathology- Neurological Innervation, The peripheral and central innervation of the disc and spinal ligaments of the dorsal root ganglion, spinal thalamic tracts, periaqueductal gray areas innervating the Thalamus and multiple regions of the brain. The efferent neurological distribution to disparate areas of the spine to create homeostatis until tetanus ensues creating osseous changes under the effect of Wolff's Law. Academy of Chiropractic, Post-Doctoral Division, Cleveland University-Kansas City, College of Chiropractic, Long Island, NY, 2023

Electrodiagnostics Credentialing

Electrodiagnostics: Electromyogram/Nerve Conduction Velocity (EMG/NCV), Diagnosis & Interpretation: Anatomy and Physiology of Electrodiagnostics: An in-depth review of basic neuro-anatomy and physiology dermatomes and myotomes to both the upper and lower extremities and the neurophysiology of axons and dendrites along with the myelin and function of saltatory for conduction. The sodium and potassium pump's function in action potentials. Cleveland University, Kansas City, Academy of Chiropractic, Post-Doctoral Division, Long Island NY, 2023

Electrodiagnostics: Electromyogram/Nerve Conduction Velocity (EMG/NCV), Diagnosis & Interpretation: Nerve Conduction Velocity (NCV) Part 1: Nerve conduction velocity testing, the equipment required and the specifics of motor and sensory testing. This section covers the motor and sensory NCV procedures and interpretation including latency, amplitude (CMAP) physiology and interpretation including the understanding of the various nuances of the wave forms. Cleveland University, Kansas City, Academy of Chiropractic, Post-Doctoral Division, Long Island NY, 2023

Electrodiagnostics: Electromyogram/Nerve Conduction Velocity (EMG/NCV), Diagnosis & Interpretation: Nerve Conduction Velocity (NCV) Part 2: Compound motor action potentials (CMAP) and sensory nerve action potentials (SNAP) testing and interpretation including the analysis and diagnosis of the wave forms. It also covers compressive neuropathies of the median, ulnar and posterior tibial nerves; known as carpal tunnel, cubital tunnel and tarsal tunnel syndromes. This section offers interpretation algorithms to help understand the neurodiagnostic conclusions. Cleveland University, Kansas City, Academy of Chiropractic, Post-Doctoral Division, Long Island NY, 2023

Electrodiagnostics: Electromyogram/Nerve Conduction Velocity (EMG/NCV), Diagnosis & Interpretation: Needle Electromyogram (EMG) Studies: The EMG process, inclusive of how the test is performed and the steps required in planning and electromyographic study. This covers the spontaneous activity of a motor unit action potential, positive sharp waves and fibrillations. The insertional activity (both normal and abnormal), recruitment activity in a broad polyphasic presentation and satellite potentials. This covers the diagnosing of patterns of motor unit abnormalities including neuropathic demyelinated neuropathies along with acute myopathic neuropathies. This section also covers the ruling out of false positive and false negative results. Cleveland University, Kansas City, Academy of Chiropractic, Post-Doctoral Division, Long Island NY, 2023

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Electrodiagnostics: Electromyogram/Nerve Conduction Velocity (EMG/NCV), Diagnosis & Interpretation: Overview of EMG and NCV Procedures, Results, Diagnoses and Documentation. The clinical incorporation of electrodiagnostic studies as part of a care plan where neuropathology is suspected. It also covers how to use electrodiagnostics in a collaborative environment between the chiropractor as the primary spine care provider and the surgeon, when clinically indicated. This section covers sample cases and health conclude and accurate treatment plans based upon electro-neurodiagnostic findings when clinically indicated. Cleveland University, Kansas City, Academy of Chiropractic, Post-Doctoral Division, Long Island NY, 2023

Spinal MRI Credentialing

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. 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, 2023

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, 2023

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, 2023

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, 2023

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, 2023

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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, 2023

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, 2023

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. 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, 2023

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. 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, 2023

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. 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, 2023

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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. 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, 2023

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, 2023

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, 2023

Spinal Biomechanical Engineering Credentialing

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, 2023

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

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School of Medicine and Biomedical Sciences, Academy of Chiropractic Post-Doctoral Division, Buffalo, NY, 2023

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. 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, 2023

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, 2023

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, 2023

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, 2023

Spinal Biomechanical Engineering: Full Spine Digital Analysis, Digitalizing and analyzing the full spine images to diagnose pathobiomechanics as sequellae to trauma

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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, 2023

Coding and Care Plan from Acute through Rehabilitation: Validating the necessity of care through demonstrable documentation. This encompasses x-ray digitizing, ranges of motion, muscle testing, and the comparative assessment of global dysfunction vs. motor unit dysfunction. - Academy of Chiropractic Post-Doctoral Division, Long Island, NY, 2023

Accident Reconstruction Credentialing

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, 2022

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, 2022

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, 2022

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, 2022

Spinal Trauma Pathology Credentialing

Spinal Trauma Pathology, Research Perspectives, *The review of current literature*

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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, 2022

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, 2022

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 Post-Doctoral Division, Buffalo, New York, 2022

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, 2022

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, 2022

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

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Buffalo Jacobs School of Medicine and Biomedical Sciences, Academy of Chiropractic Post-Doctoral Division, Buffalo, New York, 2022

Suicide Prevention Gatekeeper Program, QPR Institute, 2022

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, 2022

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, 2022

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, 2022

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, 2022

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, 2022

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, 2022

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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, 2022

How to Handle Medical Record Requests, Subpoenas, and Testifying, Handling medical record requests, subpoenas, testimony, efficiently and compliantly, Northeast College of Health Services, 2022

Suicide Awareness and Intervention, NCMIC, 2022

Pragmatic MRI of the Spine & Extremities: Imaging for Daily Practice, This course is to familiarize the doctor with the imaging findings of conditions frequently seen in clinical practice. Identifying disc herniations, evaluation of spinal stenosis, determination of bone marrow disease, common muscle, tendon, ligament, cartilage problems of the extremities. Identify and apply standard nomenclature of disc herniations, evaluate for spinal stenosis, determine the presence of malignant marrow replacement, diagnose common extremity complaints, e.g. supraspinatus tears, labral injuries, Northeast College of Health Services, 2022

Identifying and Managing the Sports-Trauma Concussive Patient Presenting to Your Office, Recognize and identify the cellular and biochemical mechanisms of concussion: The Neurometabolic Cascade, Northeast College of Health Services, 2022

Risk Management: A Practical Guide to Protecting You, Your Practice, and Your Patient, The practical applications of risk management. Focus on issues relating to effective malpractice strategies, professional negligence, recordkeeping, standards of care, over utilization, and policies and procedures. The learning objectives are to ensure appropriate compliance and safety for the doctor, the staff, and the patient, Northeast College of Health Services, 2022

NYSDOH Registered Opioid Overdose Program including the use of naloxone, 2022

NY No-Fault Insurance and Dispute Resolution, Overview of NY's No Fault Insurance Regulation and its impact on reimbursement of medical expenses for eligible injured parties and assignee medical providers. Covers practical matters parties face when resolving related insurance disputes, Northeast College of Health Services, 2022

Case Management, Documentation, and Diagnosis, Clinically correlating history and clinical findings to biomechanical connective tissue pathology and advanced imaging with herniated, protrude, extruded, and bulging discs. Triaging trauma and chronic

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patients based upon clinical presentation and testing results. Academy of Chiropractic Post-Doctoral Division, Long Island, NY, 2022

Medical Treatment Guidelines for Hand, Wrist and Forearm Injuries, New York State Workers' Compensation, 2021

Medical Treatment Guidelines for Ankle and Foot Injuries, New York State Workers' Compensation, 2021

Medical Treatment Guidelines for Shoulder Injuries, New York State Workers' Compensation, 2021

Medical Treatment Guidelines for Elbow Injuries, New York State Workers' Compensation, 2021

Medical Treatment Guidelines for Hip and Groin Injuries, New York State Workers' Compensation, 2020

Medical Treatment Guidelines for Back Injuries, New York State Workers' Compensation, 2020

Medical Treatment Guidelines for Carpal Tunnel Syndrome, New York State Workers' Compensation, 2020

Medical Treatment Guidelines for Neck Injuries, New York State Workers' Compensation, 2020

Medical Treatment Guidelines Update Overview, New York State Workers' Compensation, 2020

Introduction to the Medical Treatment Guidelines, New York State Workers' Compensation, 2020

Medical Treatment Guidelines General Principles, New York State Workers' Compensation, 2020

Overview of Forms and Processes, New York State Workers' Compensation, 2020

Physical Therapy and Targeted Probe and Educate Reviews, New York State Workers' Compensation, 2019

Sports Nutrition for Improved Performance, how to utilize sport specific nutritional interventions for the improvement of athletic performance and recovery. Macronutrient needs of the competition and recreational athlete, micronutrient needs for athletes, and

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supplement considerations for improved performance and recovery, New York Chiropractic College, 2018

Proper Documentation and Procedures for Reimbursement, Texas Chiropractic College, 2017

Shoulder Rehabilitation Using ShoulderSphere, New York University Hospital for Joint Diseases, 2017

Foundational Laboratory Analysis, Texas Chiropractic College, 2016

Neurofacilitation for Improving Movement Dysfunction, The American College of Sports Medicine, 2016

Rehabilitation of the Athlete, University of Western States, 2015

The Ultimate Sports Nutrition Performance Seminar, University of Bridgeport, 2012

Medical Treatment Guidelines for Neck Injuries, New York State Workers' Compensation, 2011

Radiology Search & Rescue, Parker College of Chiropractic, 2011

Medical Treatment Guidelines for Back Injuries, New York State Workers' Compensation, 2011

Overview of Forms and Processes, New York State Workers' Compensation, 2011

Partner Agency Sheltering Overview, The American Red Cross in Greater New York, 2011

Case Study: Chronic Leg Pain in a 13-Year-Old -Boy, Medscape, Inc (ACCME), 2011

Case Study: Back Pain and New-Onset Weakness in a 61-year-old-Woman, Medscape, Inc (ACCME), 2011

Medical Treatment Guidelines General Principles, New York State Workers' Compensation, 2011

Introduction to the Medical Treatment Guidelines, New York State Workers' Compensation, 2011

Psychological First Aid in Practice, Putnam County Department of Mental Health, 2010

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Documentation Coding Compliance and Post Payment Reviews, New York Chiropractic College, 2009

Case Study: The Missing Shaving Blade, Medscape, Inc (ACCME), 2008

Case Study 33-year-old Woman with Sudden-Onset Severe Headache and Vomiting, Medscape, Inc (ACCME), 2008

Case Study: 39-year-old Man with Back Pain from Guatemala, Medscape, Inc (ACCME), 2008

Care and Prevention of Sports Injuries, The International Sports Sciences Association, 2007

Exercise Physiology, University of Nebraska Medical Center, 2007

Myofascial Pain in Athletes, University of Nebraska Medical Center, 2007

Physical Therapy 101, University of Bridgeport, 2006

Certified Fitness Trainer, New York Chiropractic College, 2006

Certified Fitness Trainer, International Sports Science Association, 2006

Best Practice: Using Evidence Based Health Care Measures to Improve Patient Care II, New York Chiropractic College, 2004

Best Practice: Using Evidence Based Health Care Measures to Improve Patient Care I, New York Chiropractic College, 2004

Bullet Proof your Documentation, New York Chiropractic College, 2004

Codeology 102: CMT Codes, New York Chiropractic College, 2004

Vertebral Subluxation Complex, New York Chiropractic College, 2004

Issues to Consider When Treating Children, New York Chiropractic College, 2004

Federal Guidelines – IME Exams - Disabilities, New York Chiropractic College, 2004

The IME Game – I Didn't Know That, New York Chiropractic College, 2004

What You Need to Know About Workers' Compensation in New York, New York Chiropractic College, 2004

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What You Need to Know About No Fault Insurance in New York, New York
Chiropractic College, 2004

What You Need to Know About Medicare, New York Chiropractic College, 2004

Management of Whiplash Injuries, New York Chiropractic College, 2003

Nutritional Applications for Chiropractic Practice, New York Chiropractic College,
2002

Integrative Care of Low Back, Conservative and Surgical Movement, New York
Chiropractic College, 2002

Natural Superiority of Chiropractic, New York Chiropractic College, 1999

The New Millennium, New York Chiropractic College, 1999

Benefit Oriented Long Term Chiropractic, New York Chiropractic College, 1999

DABCO Program Modules 1 to 5, New York Chiropractic College, 1995 to 1996

CCSP Program, Modules 1 to 10, New York Chiropractic College, 1991

SELECTED MEDICAL TEACHING, LECTURING, CONSULTING

Adult Education Instructor, Nutrition and Wellness, Carmel Central School District,
Carmel, NY, 2012 to 2103

Instructor, HIPAA Compliance, New York Chiropractic Council, 1997

SELECTED BOOK PUBLICATIONS

Covelli, Edward M., Jr., (2022), **When All Else Fails, Read the Directions**, ISBN:
9798783557958

Covelli, Edward M., Jr., DC (2018), **Lean for Keeps: Your Body Wants to Burn Fat
and Build Muscle**, ISBN: B07B8B4BY3

Covelli, Edward M., Jr., DC (2011), **Lean After Forty: Awaken Your Natural Instincts
To Burn Fat And Build Muscle**, ISBN: B07B8B4BY3

SELECTED JOURNAL PUBLICATIONS

Covelli, Edward M., Jr., DC, HIPAA... **The Civil Side**, New Directions, 2003

Edward M. Covelli, Jr., DC

Covelli, Edward M., Jr., DC, **HIPAA Compliance**, New Directions, 2003

Covelli, Edward M., Jr., DC, Bennett, Maria, **Alternative Medicine Goes Mainstream**, Westchester Magazine, 2003

Covelli, Edward M., Jr., DC, **Fit or Fat... ?**, Westchester Journal, 2002

SELECTED MEMBERSHIPS

NYS Chiropractic Association, 2004 to Present

International Chiropractic Association, 1992 to 2005

New York Chiropractic Council, 1994 to 2006

Italian Chiropractic Association, 1992 to 1994

American Chiropractic Association, 1992 to 2005

Markson Management Services, 1991 to 1992

American Natural Hygiene Society, 1991 to 2005

SELECTED JOURNAL SUBSCRIPTIONS

Journal of Manipulative & Physiological Therapeutics

BMC Journal Series

Spine

Strategic Chiropractor

NYS Chiropractic Association

Chiropractic Economics

The Chiropractic Journal

American Chiropractor

SELECTED HONORS & AWARDS

Best of Putnam Medical, Dental or Physical Therapy Office, Putnam Business Council 2022

Edward M. Covelli, Jr., DC

Rotary Leadership Program, Rotary International, 2009

Paul Harris Fellow, Rotary International, March 2004

Chiromaster Web Site Award, chiroweb.com, 2002

Distinguished Service Award, New York Chiropractic Council, 1997

9-11 Service Award, American Red Cross, 2002

SELECTED COMMUNITY SERVICE

Member, Putnam County Medical Reserve Corp, 2005 to present

Member/Officer/NRA Instructor, Dutchess County Pistol Association, 2017 to present

Member/Officer, Rotary Club of Millbrook, 2015 to 2018

Member/Officer, Rotary Club of Carmel, 2005 to 2015

Chiropractor, American Red Cross, 2001 to 2002

Webmaster, New York Chiropractic College, 1996 to 2005

Member/Officer, Rotary Club of Hartsdale, 1995 to 2005

Member, BNI, 1995 to 2005

Chiropractic Club President, Queensborough Community College, 1986 to 1987

SELECTED SKILLS

Italian Speaking

IT Skills: Macintosh, Windows, Networking, Troubleshooting, Database, Office