

2018 IACN Annual Educational Symposium

Topics in Chiropractic & Neurosciences

Using Facts, Evidence and Experience to Enhance Chiropractic Care

Presented by: International Academy of Chiropractic Neurology

Syllabus for 2018 IACN Annual Educational Symposium

The International Academy of Chiropractic Neurology is a nonprofit organization consisting of credentialed chiropractic neurologists and electro-diagnosticians seeking to continue their education and promote the neurological sciences. This symposium is an annual event structured to accomplish one of the missions of the academy. The meeting will feature two separate educational learning tracts (on Friday and Sunday) as well as a brain dissection laboratory.

The total number of continuing education of hours offered is 26 CEU. However, due to overlapping classes, a maximum of 18 CEU may be obtained by any one participant. The outline below is structured to demonstrate the course title, instructor, and learning objectives chronologically. Instructor qualifications are maintained separately. This program will be held partially at the Residence Inn by Marriott, Daytona Beach Shores and on the campus of Palmer College of Chiropractic in Port Orange, Florida.

Friday, November 2, 2018

10 CEU. (5 CEU X 2 Educational Tracks).

Location: Residence Inn by Marriott, Daytona Beach Shores.

1:00PM - 6:00PM (Track 1)

12:00PM – 1:00PM	<u>IACN LUNCHEON/REGISTRATION</u>	Meet and greet your colleagues for lunch & business meeting.
<u>Time</u>	<u>Topic/Objectives- Track One</u>	<u>Speaker</u>
1:00PM – 3:00PM (2 CEU)	<p><i>Electrodiagnostics: Enhancing Patient Care and your Neurology Practice</i></p> <p><u>Class Objectives:</u></p> <ol style="list-style-type: none"> 1. Understand and articulate reasons for the chiropractic neurologist to fully comprehend benefits of electrodiagnosis in clinical practice. 2. List examples of disorders that can be more definitively diagnosed using electrodiagnosis. 3. Describe can assist in proper patient management 4. Explain the various modalities and what they reveal about the patient, as well as when to implement them 5. Discuss strengths and weaknesses of Edx 6. Understand the legal and regulatory aspects of Edx in Chiropractic Neurology practice 7. Describe the steps involved to implement Edx in the Chiropractic Neurology practice. 	<p>J. Donald Dishman, DC, - This is a two hour course introducing the Chiropractic Neurologist to electrodiagnostics (Edx). Although Edx is the most frequent diagnostic physiological test performed in medicine for neuromusculoskeletal complaints, it is widely underutilized in our profession. This course will demystify these tests and will clearly allow one to understand what they are, when to utilize them and what they tell us about our patient. Nerve conduction studies, EMG and evoked potentials will be discussed and case-based examples will be provided.</p>

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		Lastly, avenues to take to implement these services into and how they can enhance your practice will be discussed as well.
3:00 PM – 4:00 PM (1 CEU)	<p><i>A Review of Risk factors for Cerebrovascular Incidents and Arterial Dissection</i></p> <p><u>Class Objectives:</u></p> <ol style="list-style-type: none"> 1. List different types of Stroke. 2. Discuss the role of diagnostic imaging in stroke. 3. Perform a physical and neurological examination pre and post stroke incident. 4. 4. Describe National Institute of Health Stroke Scoring and its significance. 5. Discuss post-stroke incident behavior and protocol. 6. Itemize ways to ultimately prevent stroke. 7. Perform positional release maneuvers for the cervical spine. 	<p>Adam I. Chaifetz, DC – Dr. Chaifetz Received his DC degree from Life Chiropractic College in 1986. He became a board certified chiropractic neurologist in 2011. He serves as the program coordinator for the Comprehensive Multiple Sclerosis Center at the University of Florida @ Shands, Jacksonville-Department of Neurology and is the owner of Ponte Vedra Therapy. A full service chiropractic and massage therapy practice in Northeast Florida. He will bring his neurological experience to bear as he discusses risk factors for cerebrovascular incidents and arterial dissection.</p>
4:00 PM – 6:00 PM (2 CEU)	<p><i>DeFlame your patients with diet and supplementation</i></p> <p><u>Class Objectives:</u></p> <ol style="list-style-type: none"> 1. Describe and give examples of the expression of chronic inflammation. 2. Discuss the relationship between sugar and flour and hyperglycemia to cytokine release. 3. Recognize relationships between sugar, flour, and refined oils consumption and endotoxemia. 4. Describe how chondrocytes, pancreas beta cells, endothelial cells and immune cells create inflammation when exposed to sugar and flour calories 5. List dietary methods that reduce inflammation. 6. List dietary supplements that reduce inflammation. 7. Itemize methods to manage psychological stress and inflammation. 	<p>David R. Seaman, DC - As little as 15 years ago diet and inflammation was not a hot topic of interest. But now information abounds regarding the relationship between diet and inflammation. In this session, learn about how a dietary excess of sugar, flour, and refined oils create chronic inflammation. This occurs via postprandial hyperglycemia and endotoxemia, each which can become a chronic state in the fasting state. By addressing chronic inflammation properly, we can target the underlying cause of most chronic conditions, such as obesity, metabolic syndrome, diabetes,</p>

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	<p>8. Discuss how sleep can reduce inflammation.</p> <p>9. Describe how exercise can reduce inflammation.</p>	<p>interstitial cystitis, depression, and migraine headache and other pain syndromes.</p>
6:00 pm	<p>CLASSES CONCLUDE TRACK ONE</p>	<p><u>IACN Reception in Courtyard</u></p>

Friday, November 2, 2018

1:00PM - 6:00PM (Track 2)

12:00PM – 1:00PM	<p><u>IACN LUNCHEON/REGISTRATION</u></p>	<p>Meet and greet your colleagues for lunch & business meeting.</p>
<u>Time</u>	<u>Topic/Objectives- Track Two</u>	<u>Speaker</u>
1:00PM – 3:00PM (2 CEU)	<p><i>Grand Rounds: Cases in Electrodiagnosis: “Less Common Peripheral Entrapment Neuropathies”</i></p> <p><u>Class Objectives:</u></p> <ol style="list-style-type: none"> 1. Learner will identify abnormal nerve conduction studies in axonal and demyelinating disorders. 2. Learner will identify abnormal needle electromyography studies including increased insertional activity, Spontaneous activity, PSW, FIBS, Fasciculation, Myotonic discharge, end plate potentials, Complex repetitive discharge and abnormal recruitment patterns. 3. Learner will contrast and compare neurogenic to myopathic electrodiagnostic findings. 4. Learner will discuss electrodiagnostic aspects of cases involving CTS, Ulnar neuropathy at the elbow and Ulnar neuropathy at the wrist. 5. Learner will discuss electrodiagnostic aspects of cases involving common fibular neuropathy at the fibular head, Tarsal Tunnel Syndrome, Sensorimotor peripheral polyneuropathy and brachial plexopathy including Erb’s palsy and 	<p>Gary Smith, DC - This class will allow the student to apply knowledge of basic neurophysiology, biomechanics, neurology and history and physical examination findings to analyze, identify and quantify the location of the lesion in the electrodiagnostic report. Several cases will be presented, including a sciatic neuropathy post knee replacement, sciatic neuropathy post hip replacement and deep branch of the ulnar neuropathy in a roofer. Open clinical discussion will be enhanced to provide additional perspective.</p>

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	<p>Parsonage Turner's Syndrome.</p> <ol style="list-style-type: none"> 6. Learner will identify electrodiagnostic findings consistent with spinal stenosis, cervical and lumbar radiculopathy and vascular insufficiency. 7. Learner will list strategies for differential diagnosis. 8. Learner will state guidelines for appropriate use of electrodiagnostic testing. 9. Learner will review and describe findings itemized in a basic electrodiagnostic report. 	
<p>3:00 PM – 6:00 PM (3 CEU)</p>	<p><i>Updates In Clinical Neurophysiology 2018</i></p> <p><u>Class Objectives:</u></p>	<p>J. Donald Dishman, DC- This a three hour class that will present major advances and very recent updates in the field of clinical neurophysiology. A thorough review of major research and recent publications that effect every clinical neurophysiologist and their practice. Topics to be presented are new publications that describe new testing techniques as well as new or alternative normative data and paradigms. These reports will include conventional nerve conduction studies and late responses, needle EMG and evoked potentials. Novel uses of electrodiagnostics such as in the evaluation of the mild traumatic brain injured patient will be discussed.</p>
<p>6:00 pm</p>	<p>CLASSES CONCLUDE TRACK TWO</p>	<p><u>IACN Reception in Courtyard</u></p>

Saturday, November 3, 2018

7 CEU – One Educational Track.

Location: Residence Inn by Marriott, Daytona Beach Shores.

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10:00AM - 6:00PM

<u>Time</u>	<u>Topic/Objectives</u>	<u>Speaker</u>
10:00 am – 12:00 pm (2 CEU)	<p><i>Stroke and chiropractic neck adjustments: A brief review..</i></p> <p><u>Class Objectives:</u></p> <ol style="list-style-type: none"> 1. Outline methods used and estimations as to the incidence of cervical spinal manipulative therapy and subsequent vertebrobasilar ischemia. 2. Review and describe cerebrovascular anatomy and hemodynamics. 3. Discuss proposed patho-physiological mechanisms believed responsible for subsequent vertebrobasilar ischemia. 4. Identify radiographic signs of a vertebral artery dissection. 5. Explore issues and examination procedures related to patient assessment as well as vertebrobasilar ischemia recognition and proper diagnosis. 6. Explore various perspectives and reveal bias in both public media and biomedical journals. 7. List and describe the most common red flags for a patient “at risk” for suffering Vertebrobasilar Ischemia following cervical manipulation. 	<p>Joseph S. Ferezy, DC – People have strokes following chiropractic neck adjustments. It happens. There is no profession which should have a greater depth and breadth of knowledge on all information related to this subject. Dr. Ferezy was the first chiropractor who published correct information in the chiropractic literature about this association (1988). This presentation begins with “Chiropractic in the news, and moves through anatomy and hemodynamics of the brain, patients at risk, recognition of stroke, a plan of action, perspective on the issue and thoughts on potential new ways to determine “at risk” patients.</p>
12:00PM 1:00PM	IACN Luncheon	
1:00PM – 3:00PM (2 CEU)	<p><i>The basics of demyelinating disorders in neuroradiology</i></p> <p><u>Class Objectives:</u></p> <ol style="list-style-type: none"> 1. Understand physiological process of demyelination. 2. Differentiate different types of acquired white 	<p>Munyeong Choi, DC - The lecture covers physiology and histology of myelination which include an order of myelination in utero and throughout childhood. Demyelination can be seen on certain advanced imaging studies</p>

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	<p>matter neurodegenerative disorders</p> <ol style="list-style-type: none"> 3. Appreciate diagnostic imaging characteristics of demyelinating disorders. 4. Recognize imaging findings suggestive of demyelination. 5. Differentiate various types of demyelinating disorders that may present in a characteristic pattern on advanced diagnostic imaging studies. 6. Recite important epidemiological information and clinical presentation findings that play an important role in differentiating demyelinating disorders. 	<p>such as MRI due to alteration of composition of the myelin sheath from lipid to liquid. There are various types of demyelinating disorders that may present in a characteristic pattern on advanced diagnostic imaging studies. Epidemiological information and clinical presentation play an important role in differentiating demyelinating disorders and determining a correct diagnosis in conjunction with diagnostic imaging studies. Examples of various demyelinating disorders will be demonstrated along with MR characteristics.</p>
<p>3:00PM – 4:00PM (1 CEU)</p>	<p><i>Concussion</i></p> <p><u>Class Objectives</u></p> <ol style="list-style-type: none"> 1. Identify and discuss current return to play guidelines following a diagnosis of concussion and subsequent removal of play from athletics. 2. Discuss and review current and trending concussion diagnosis protocols. 3. Discuss how to integrate this information into daily chiropractic practice. 4. List new technologies for minimizing concussions in sports. 	<p>David Quist, DC - As the worlds of professional sports and medicine collide, interest in concussion has skyrocketed. This lecture reviews trending thoughts and literature regarding concussion, and uses a practical approach to protecting athletes which can be integrated into chiropractic practice.</p>
<p>4:00PM – 6:00PM (2 CEU)</p>	<p><i>Current Concepts in Neurorehabilitation</i></p> <p><u>Class Objectives:</u></p> <ol style="list-style-type: none"> 1. Recognize the concept of interactive metronome. 2. Recognize what patient populations that may benefit from the therapy. 3. Relate the current scientific research evidence for the use of interactive metronome. 4. Interpolation of interactive metronome and application of the technique. 5. Critically appraise the literature and the use of interactive metronome for patients w neurological disorders. 	<p>J. Donald Dishman, DC This is a two hour course that presents current concepts in the evaluation of patients with neurological dysfunction. The course will emphasize the evaluation and treatment of those patients with mild to significant traumatic brain injuries. An introduction and discussion of the importance of supranuclear control of eye movements and their utility in evaluation and treatment will be provided. Evaluation of balance using</p>

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	<ol style="list-style-type: none"> 6. Summarize the evaluation and treatment of those patients with mild to significant traumatic brain injuries. 7. Discuss the importance of supranuclear control of eye movements and their utility in evaluation and treatment. 8. Explain the evaluation of balance using computerized assessment instruments for treatment as well as outcomes 9. Describe sensorimotor integration techniques and how to formulate an optimum treatment strategy is discussed. 	<p>computerized assessment instruments for treatment as well as an outcomes instrument will be described. Lastly, sensorimotor integration techniques will be described and demonstrated. These multifaceted aspects of patient evaluation and management, and how to formulate an optimum treatment strategy is discussed.</p>
6:00 pm	<p>CLASSES CONCLUDE IACN Reception/Banquet</p>	

Sunday, November 4, 2018

10 CEU - Three Educational Tracks.

6 CEU Track One + 3 CEU Track Two + 1 CEU Dissection Track Three

Location: Lecture: Residence Inn by Marriott, Daytona Beach Shores.

Location: Dissection: Palmer College, Florida

9:00AM - 4:00PM

<u>Time</u>	<u>Topic/Objectives Track One</u>	<u>Speaker</u>
9:00AM – 11:00AM (2 CEU)	<p><i>Pre-Diabetes and Diabetes Is Slowly Killing Your Patients: What You Can Do About It.</i></p> <p><u>Class Objectives:</u></p> <ol style="list-style-type: none"> 1. The learner will come to recognize the looming epidemic of undiagnosed pre-diabetes and uncontrolled type II diabetes 2. Identify the role of insulin resistance in nearly all the chronic diseases of today 3. Understand the pivotal role of insulin resistance in neuropathy and neurodegenerative changes 4. A learner will understand why the conventional approach is missing 90% of the 	<p>Gregory Fors, DC – Recent studies show more than one in two Americans are either early diabetic or in full-blown diabetes. Worse yet, according to the CDC, 90% of those with prediabetes don't know they have it. This is primarily because their conventional doctors rely on fasting blood glucose for diagnosis, ignoring more sensitive biomarkers. Treatment then comes down to handing the patient one of many drug therapies that may come with multiple side effects and fails to correct the underlying metabolic issue. This impacts all neurologists because 70 percent of the neuropathy epidemic in the U.S. is caused by pre-diabetes and diabetes. Furthermore, Alzheimer's disease is now being referred to as type III diabetes. This talk will explain the problem, proper diagnosis, and proper treatment approach. It will be beneficial for doctors who may look to</p>

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	<p>prediabetics in their practice</p> <ol style="list-style-type: none"> A learner will appreciate and implement early diagnostic biomarkers of insulin resistance, metabolic syndrome, and pre-diabetes Understand the implementation of specific dietary and nutritional protocols to reverse insulin resistance and its sequelae. 	<p>improve their diagnosis and treatment options.</p>
<p>11:00AM– 12:00PM (1 CEU)</p>	<p><i>Professional Boundaries: What would you do?</i></p> <p><u>Class Objectives:</u></p> <ol style="list-style-type: none"> Appreciate and articulate aspects of a proper doctor-patient relationship; Define various professional boundaries; and understand the need to respect them; Explore ethical issues pertaining to the practice of chiropractic. 	<p>Amy Horton, DC – this is an interactive, presentation covering situations in professional boundaries. The class will consist of a series of slides which depict situations which might challenge professional boundaries. A discussion between the class and Dr. Horton will ensue.</p>
<p>12:00PM– 1:00PM</p>	<p>IACN Luncheon</p>	
<p>1:00PM – 2:00PM (1 CEU)</p>	<p><i>Proper diagnosis & conservative management of Autistic Spectrum Disorders.</i></p> <p><u>Class Objectives:</u></p> <ol style="list-style-type: none"> List and define basic range of Autistic Spectrum Disorders. Determine the role of conservative chiropractic measures in treatment of Autistic Spectrum Disorders. Define vaccine adjuvants and list which ones may be problematic for patients; List the most common vaccines and site literature and empirical evidence linking these with Autistic Spectrum Disorders; 	<p>Frederick Clary, DC – an autistic spectrum disorder is now said to affect one out of every 60 or so children in the United States. This alarming number requires that all Health Care professionals keep abreast of available information regarding the correct diagnosis and current management considerations regarding children with this disorder. This lecture defines the subject from a chiropractic standpoint and discusses some conservative interventions which show promise in helping children with this disorder, and by helping their family understand the nature of this disorder.</p>

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	<ol style="list-style-type: none"> 5. Articulate aspects of central serotonergic hypofunction in autism and the tryptophan challenge test. 6. Itemize and various conservative chiropractic measures in treatment of Autistic Spectrum Disorders. 	
2:00PM – 4:00PM (2 CEU)	<p><u>Glial Cells in the Human Brain: What we learned from Einstein’s brain.</u></p> <p><u>Class Objectives:</u></p> <ol style="list-style-type: none"> 1. Learner will recite the role the glial cells play in the formation of neuronal synapses. 2. Learner will discuss the role the glia play in neuropathic pain syndromes. 3. Learner will contrast and compare the communication that goes on between neurons and between neurons and glial cells. <p><u>Neuromodulation of the immune system.</u></p> <p><u>Class Objectives:</u></p> <ol style="list-style-type: none"> 1. Recite the history of the field of neuroimmunology. 2. Appreciate and explain the paradigm shift from germ theory to cytokine theory of disease. 3. Explain basic tenants of immunology, Innate vs. adaptive, & how the nervous, endocrine and immune systems communicate among themselves. 	<p>Lou Freedman DC The role of the “Glia” or “glue” cells of the nervous system has been grossly misunderstood since the advent of the compound microscope. This talk will clarify what we now know the function of glial cells to be, including their role in synaptic activity, as well as to relate their function to neuropathic pain syndromes.</p> <p>Explore the relationship between the nervous system and the immune system. This class discusses the paradigm shift from germ theory to cytokine theory of disease and review the anatomy of the autonomic nervous system. Heart rate variability is discussed as well as an explanation of the basic tenants of immunology, innate vs. adaptive, & how the nervous, endocrine and immune systems communicate among themselves.</p>
4:00 pm	<u>CLASSES CONCLUDE TRACK ONE</u>	

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3 CEU Track Two

Location: Lecture: Residence Inn by Marriott, Daytona Beach Shores.

9:00AM - 12:00PM

<u>Time</u>	<u>Topic/Objectives Track Two</u>	<u>Speaker</u>
9:00 am - 12:00 pm (3 CEU)	<p><i>Uncommon Nerve Conduction Studies. Review & Practicum</i></p> <p><u>Class Objectives:</u></p> <ol style="list-style-type: none"> 1. Learner will demonstrate ability to perform nerve conduction studies in axonal and other electrodiagnostic skills in a laboratory setting. 2. Learner will discuss electrodiagnostic aspects of cases involving common fibular neuropathy at the fibular head, Tarsal Tunnel Syndrome, Sensorimotor peripheral polyneuropathy and brachial plexopathy including Erb's palsy and Parsonage Turner's Syndrome. 3. Learner will identify electrodiagnostic findings consistent with spinal stenosis, cervical and lumbar radiculopathy and vascular insufficiency. 4. Learner will list strategies for differential diagnosis. 5. Learner will state guidelines for appropriate use of electrodiagnostic testing. 6. Learner will review and describe findings itemized in a basic electrodiagnostic report. 	<p>Gary Smith, DC - This class will allow the student to apply knowledge of basic neurophysiology, biomechanics, neurology and history and physical examination findings in a laboratory setting. Open clinical discussion will be enhanced to provide additional perspective.</p>
12:00PM- 1:00PM	<p><u>CLASSES CONCLUDE TRACK TWO</u> IACN Luncheon</p>	

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1 CEU Track Three

Location: Dissection: Palmer College, Florida

9:00AM - 12:00PM

<u>Time</u>	<u>Topic/Objectives Track Three</u>	<u>Speaker</u>
9:00AM-12:00PM	<p><i>Clinical Neuroanatomy: A laboratory Review of the Brain</i></p> <p><u>Class Objectives:</u></p> <ol style="list-style-type: none"> 1. Associate all relevant and salient structures of the peripheral nervous system (PNS). 2. Recognize all major functional components of the brachial plexus 3. Distinguish areas of the spinal cord meninges. 4. Name all relevant visible structures of the exiting nerve roots. 5. Demonstrate an understanding of anatomy and its function in the PNS. 	<p>J. Donald Dishman, DC</p> <p>This is a fifty minute laboratory course in which the human brain will be dissected and functional anatomy of the cerebral cortex, diencephalon and brainstem will be discussed.</p>
	<p>CLASSES CONCLUDE TRACK THREE</p> <p>IACN Luncheon – Residence Inn by Marriott, Daytona Beach Shores.</p>	