



## UltraEMG Course Schedule 2014

Saturday February 8                      **Travel Date**  
5:00-6:00                      **Early Onsite Registration**

### **ULTRA EMG I: Neuromuscular Emphasis** **Sunday February 9                      Introduction and Fundamentals**

6:15am	Registration and Sign-In. Distribution of EMG Assessment	
7:00	Welcome and Introduction to Course and Faculty	Strakowski
7:10	Anatomy and Terminology	Pease
7:40	EDX Instrumentation	Stålberg
8:00	Analysis of the Motor Unit Action Potential	Stålberg
8:45	Pathophysiology of Nerve Conduction Studies	Kimura
9:30	<b>BREAK</b>	
9:45	Introduction to Neuromuscular Ultrasound	Strakowski
10:15	Ultrasound Needle Guidance for Chemodenervation and Assistance with Electrodiagnostic Techniques	Strakowski
10:45	The Needle EMG Examination	Kimura
11:15	Formal Question and Answer Period	All Faculty
11:30	Surface Anatomy Exam and Answers	Johnson/Clairmont
12:00	<b>BREAK FOR LUNCH (on your own)</b>	
1:30	Waveform Assessment I	Clairmont
2:15	Neuromuscular Ultrasound Instrumentation	Walker
2:45	<b>BREAK</b>	
3:00	<b>Practice</b> (NCS, Ultrasound, Single Fiber EMG, Injections)	All Faculty
4:30	Adjourn	

#### **Room 2:**

9:45-10:30:	Workshop: Carpal tunnel nerve conduction techniques	Johnson/Pease
2:15-2:45:	Workshop: Other upper limb nerve conduction techniques	Pease/Johnson
3:00	<b>Practice Sessions</b>	

## Monday February 10      Fundamentals and Peripheral Neuropathies

6:45am	Registration and Sign-In	
7:00	Panel Discussion: Challenging Cases - Interactive	All Faculty
7:30	Late Responses: F-waves, H-reflex, Blink Reflex	Kimura
8:15	Integration of EMG and Neurography	Stålberg
8:45	EDX of Generalized Peripheral Neuropathies	Kimura
9:30	<b>BREAK</b>	
9:45	Ultrasound of Generalized Peripheral Neuropathies	Strakowski
10:15	ALS, Post-Polio, Multi-focal Block	Stålberg
11:00	Ultrasound in Motor Neuron Disease	Walker
11:30	Electrodiagnosis in the Pediatric Population	Clairmont
12:00	<b>BREAK FOR LUNCH (on your own)</b>	
1:30	Autonomic Testing	Walker
2:00	Common Sources of Error in EDx	Pease
2:30	Panel Discussion: Q&A – Interactive	All Faculty
2:45	<b>BREAK</b>	
3:00	<b>Practice</b> (NCS, Ultrasound, Single Fiber EMG, Injections)	All Faculty
4:30	Adjourn	

### Room 2: (Monday)

7:30-8:15:	Workshop: Introduction to Ultrasound Scanning and Instrumentation	Walker
9:45-10:15:	Workshop: Lower Limb Nerve Conduction Studies	Pease/Johnson
1:30-2:00:	Workshop: Injection Techniques for Chemodenervation	Clairmont
3:00:	<b>Practice Sessions</b>	

## Tuesday February 11      Movement Disorders and Myopathies

6:45	Registration and sign-in	
7:00	Panel: Challenging Cases (Submitted) - Interactive	All Faculty
7:30	Botulinum Toxin for Movement Disorders	Clairmont
8:00	Clinical Uses of Botulinum Toxin	Clairmont
8:30	Dystonia	Walker
9:00	<b>BREAK</b>	
9:15	EDX of Myopathies	Stålberg
10:00	Ultrasound Evaluation of Muscle and Myopathies	Walker

10:30	Neuomuscular Junction Evaluation, Single Fiber	Stålberg
11:15	Myotonia and Myotonic Dystrophy	Kimura
11:45	Panel: Q&A - Interactive	All Faculty
12:00	<b>BREAK FOR LUNCH (on your own)</b>	
1:30	Emerging Technologies in Neuromuscular Ultrasound	Walker
2:00	Review of the Neuromuscular Written Examination	Pease/Johnson
2:30	Review of Waveform Examination 1	Clairmont
3:00	<b>BREAK</b>	
3:15	<b>Practice</b> (NCS, Ultrasound, Single Fiber EMG, Injections)	All Faculty
4:30	Adjourn	

### Room 2: (Tuesday)

7:30-8:15:	Workshop: Ultrasound Evaluation of the Brachial Plexus	Strakowski
815-9:00:	Workshop: Advanced Nerve Conduction Studies	Kimura
10:30-11:15	Workshop: Ultrasound of Upper Limb Entrapments	Walker
3:15	<b>Practice Sessions</b>	

## ULTRA EMG II: Musculoskeletal Emphasis

### Wednesday February 12      Cranial, Neck and Shoulder Region

6:45	Registration and sign-in	
7:00	Welcome –Orientation – Introduction of Faculty	Strakowski
7:15	Upper limb entrapments (Excluding CTS)	Kimura
8:00	Cervical radiculopathy- EDX	Pease
8:30	Brachial Plexopathy and Thoracic Outlet EDX	Kimura
9:00	<b>BREAK</b>	
9:15	Introduction to Musculoskeletal Ultrasound	Strakowski
10:00	Ultrasound Evaluation of the Normal Shoulder	Jacobson
10:20	Ultrasound Live Demonstration of the Shoulder	Strakowski
10:40	Ultrasound Evaluation of Shoulder Pathology	Jacobson
11:00	Determining Motor Unit Recruitment on Needle EMG	Stålberg
11:30	Waveform Assessment II	Clairmont
12:00	<b>BREAK FOR LUNCH (on your own)</b>	
1:30	Ultrasound Evaluation of the Brachial Plexus	Strakowski

2:00	EDx of Focal Entrapment Neuropathies About the Shoulder	Pease
2:30	EDx of Cranial Neuropathies	Kimura
3:00	<b>Break</b>	
3:15	<b>Practice</b> (NCS, Ultrasound, Single Fiber EMG, Injections)	All Faculty
4:30	Adjourn	

### **Room 2: (Wednesday)**

7:15-8:00	Workshop: MSK Ultrasound Evaluation of the Shoulder	Jacobson
8:30-9:00:	Workshop: Upper Limb Entrapment Neuropathies	Johnson/Pease
10:00-10:45	Workshop: Facial, Blink Reflex and Other Cranial Studies	Kimura
1:30-2:15	Workshop: Single Fiber and Other Needle EMG Techniques	Stålberg

### 315: **Practice Sessions**

## **Thursday February 13 Carpal Tunnel Syndrome Hand and Wrist**

6:45	Registration and sign-in	
7:00	Panel Discussion: Challenging Cases - Interactive	All Faculty
7:30	Carpal Tunnel Syndrome – Anatomy and EDX	Strakowski
8:00	CTS –Inching Technique – Kimura Approach	Kimura
8:30	Post-Operative CTS EDX and CTS ergonomics	Pease
9:00	Ultrasound Evaluation of CTS	Strakowski
9:30	<b>BREAK</b>	
9:45	Ultrasound Evaluation of the Hand and Wrist Normals	Jacobson
10:15	US LiveDemonstration of the Hand and Wrist	Strakowski
10:45	Ultrasound Evaluation of Hand and Wrist Pathology	Jacobson
11:15	Running an Effective Electrodiagnostic Laboratory	Stålberg

### 12:00 **BREAK FOR LUNCH (on your own)**

1:30	Panel Discussion: CTS concepts – Q&A – Interactive	All Faculty
2:00	EDX: Spontaneous Activity	Kimura
2:45	<b>Break</b>	
3:00	<b>Practice</b> (NCS, Ultrasound, Single Fiber EMG, Injections)	

### **Room 2: (Thursday)**

8:00-8:45:	Workshop: US Evaluation of the Hand and Wrist	Jacobson
9:45-10:30:	Workshop: Nerve conduction studies for CTS	Johnson/Pease
11:00-11:45:	Workshop: Muscle Selection for Chemodeneration	Clairmont

2:00-2:45: Workshop: US of the Nerves of the upper limb

Strakowski

## **Friday Feb 14      Lumbar and Lower Limb EDx , Elbow and Wrap Up**

6:45	Registration and Sign-In	
7:00	Panel Discussion: Challenging Cases (submitted)	All Faculty
7:30	EDx of Lumbar radiculopathy	Pease
8:00	EDx of Lumbosacral Plexus and Sciatic Nerve	Kimura
8:30	Introduction to Needle Guidance with Ultrasound	Strakowski
9:00	<b>BREAK</b>	
9:15	Ultrasound of the Normal Elbow	Jacobson
9:45	Live Ultrasound Demonstration of the Elbow	Strakowski
10:00	Ultrasound Evaluation of Elbow Pathology	Jacobson
10:30	EDX of Lower Limb Neuropathies	Pease
11:15	Putting It all Together: The EDx Report	Stålberg
11:45	Panel Discussion: Final Questions and Clinical Pearls	All Faculty
12:00	<b>BREAK FOR LUNCH (on your own)</b>	
1:30	Review of the Musculoskeletal Written Examination	Pease/Johnson
2:15	Review of the Waveform Assessment II	Clairmont
3:00	<b>Break</b>	
3:15	<b>Final Practice</b> (NCS, Ultrasound, Single Fiber EMG, Injections)	
4:30	Adjourn	

### **Room 2: (Friday)**

7:30-8:15:	Workshop: MSK US Evaluation of the Elbow	Jacobson
9:15-10:00	Workshop: Lower Limb NCS	Kimura
10:30-11:15	Workshop: Needle guidance with Ultrasound	Strakowski
3:15:	<b>Final Practice Sessions</b>	All Faculty



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