COURSE HIGHLIGHTS
• Lectures dedicated to approaches and interpretation of nerve conduction study and needle EMG findings in a variety of focal and generalized neuromuscular disorders
• Extensive, interactive sessions and practice on recognition and interpretation of EMG waveform
• 4 days of small group demonstrations and workshops on common and uncommon nerve conduction studies and needle examination
• Opportunity for “hands on” nerve conduction study practice with faculty supervision
• Exposure to neuromuscular ultrasound
• Unusual or difficult EEG case discussions

TARGET AUDIENCE
This course is intended for neurologists, physiatrists and physicians specializing in and practicing clinical neurophysiology.

LEARNING OBJECTIVES
Upon conclusion of this program, participants should be able to:
• Develop a logical approach to the use of standard clinical electrophysiological techniques in the evaluation of common and uncommon neuromuscular disorders
• Identify technical pitfalls associated with NCS and needle EMG and understand methods to correct and minimize technical problems
• Interpret the findings and clinical significance of abnormalities on nerve conduction studies
• Recognize and interpret the significance of EMG waveforms on needle EMG
• Identify technical pitfalls associated with EEG and the normal and variant patterns of pediatric and adult patients
• Interpret the findings and clinical significance of abnormalities on EEG studies
• Integrate the various clinical neurophysiology studies (evoked potentials, sleep studies) in the evaluation of patients with disorders of the central nervous system

Attendance at this Mayo Clinic course does not indicate nor guarantee competence or proficiency in the performance of any procedures which may be discussed or taught in this course.

COURSE DIRECTORS
Devon I. Rubin, M.D.
Jeffrey W. Britton, M.D.

ONLINE REGISTRATION

REGISTRATION FEE(S):

<table>
<thead>
<tr>
<th>Three Options are Offered for Registration</th>
<th></th>
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</thead>
<tbody>
<tr>
<td>February 24- March 2, 2019 - EMG, EEG and Neurophysiology in Clinical Practice</td>
<td>$1,495.00</td>
</tr>
<tr>
<td>February 24-28, 2019 - EMG and Neurophysiology in Clinical Practice</td>
<td>$950.00</td>
</tr>
<tr>
<td>February 28- March 2, 2019 - EEG and Neurophysiology in Clinical Practice</td>
<td>$750.00</td>
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<tr>
<th>Additional Options</th>
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<tbody>
<tr>
<td>American Board of Psychiatry and Neurology MOC - EMG Post Course Self-Assessment</td>
<td>$75.00</td>
</tr>
<tr>
<td>American Board of Psychiatry and Neurology MOC - EEG Post Course Self-Assessment</td>
<td>$75.00</td>
</tr>
<tr>
<td>Printed Course Syllabus (Must be pre-ordered by 1/15/2019)</td>
<td>$150.00</td>
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</table>
MEETING LOCATION
The Ritz-Carlton Amelia Island
Amelia Island, Florida

LODGING & ACCOMMODATIONS
A block of coastal view rooms single/double/triple/quad occupancy is reserved at a special course rate of $259 per night, plus tax, until January 21, 2019, or until the room block is filled. Call reservations at 904-277-1100 and identify yourself as a participant of the Mayo Clinic EMG/EEG course. Group rates will be extended to conference attendees three days prior to and three days after the conference based on availability. All parking at the resort is provided by valet service. Overnight parking at the resort is $12 per night. Day guest parking is complimentary. Guest room high-speed internet access is complimentary.

CANCELLATION POLICY
Please visit ce.mayo.edu/cancellation for more information.

CREDIT
In support of improving patient care, Mayo Clinic College of Medicine and Science is jointly accredited by the Accreditation Council for Continuing Medical Education (ACCME), the Accreditation Council for Pharmacy Education (ACPE), and the American Nurses Credentialing Center (ANCC) to provide continuing education for the healthcare team.

Mayo Clinic College of Medicine and Science designates this live activity for a maximum of 54.5 AMA PRA Category 1 Credits™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

MOC/SAM
The American Board of Psychiatry and Neurology has reviewed the Electromyography (EMG), Electroencephalography (EEG), and Neuropysiology in Clinical Practice 2019 course and has approved this program as part of a comprehensive Self-Assessment Part II program, which is mandated by the ABMS as a necessary component of Maintenance of Certification.

Session Breakdown Total - MOC/SAM: 8.00 credits (4.00 credits for each - EMG and EEG)

AOA
This program has been accredited by the American Osteopathic Association for 54.5 credits of AOA Category 2-A.

Other Healthcare Professionals
A certificate of attendance will be provided to other healthcare professionals for requesting credits in accordance with state nursing boards, specialty societies, or other professional associations.

PROGRAM AGENDA
Sunday, February 24, 2019
EMG

7:00 a.m.  Registration, Continental Breakfast and Exhibits
7:45   Welcome, Introductions and Pre-Test – Devon I. Rubin, M.D.
8:00   Nerve Conduction Studies: Basics – Brian A. Crum, M.D.
8:45   Uncommon Motor Nerve Conduction Studies, Including F Waves and H Reflexes - Sarah E. Berini, M.D.
9:30   Break and Exhibits
10:00  Uncommon Sensory Studies – Technique and Utility – Mark A. Ross, M.D.
10:45  Repetitive Nerve Stimulation – Brent P. Goodman, M.D.
# Pitfalls of Nerve Conduction Studies – Devon I. Rubin, M.D.

**Monday, February 25, 2019**

**EMG**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>7:30 a.m.</td>
<td>Continental Breakfast and Exhibits</td>
</tr>
<tr>
<td>8:00</td>
<td>Technique of Needle Examination – Devon I. Rubin, M.D.</td>
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<tr>
<td>8:30</td>
<td>EMG of Uncommon Muscles – Eric J. Sorenson, M.D.</td>
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<tr>
<td>9:30</td>
<td>Break</td>
</tr>
<tr>
<td>9:45</td>
<td>EMG Waveform Analysis: Introduction – Devon I. Rubin, M.D.</td>
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<tr>
<td>11:30</td>
<td>EMG Report Writing; What is Important in a Report?</td>
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<tr>
<td>Noon</td>
<td>Lunch and Exhibits</td>
</tr>
<tr>
<td>1 – 5:30</td>
<td>Workshops – Needle EMG (All attendees participate in every workshop)</td>
</tr>
<tr>
<td>5:30 p.m.</td>
<td>Adjourn</td>
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</table>

**Tuesday, February 26, 2019**

**EMG Waveforms and Ultrasound**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>7:15 a.m.</td>
<td>Continental Breakfast and Exhibits</td>
</tr>
<tr>
<td>8:00</td>
<td>A Morning of EMG Waveforms: Food, Fun, and Fibrillations</td>
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<tr>
<td>12:15</td>
<td>Break and Exhibits</td>
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<tr>
<td>12:30 p.m.</td>
<td>(Lunch and Learn) Neuromuscular Ultrasound in the EMG Lab: Basics and Demo – James C. Watson, M.D. and Eric J. Sorenson, M.D.</td>
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<tr>
<td>1:30 – 4:30</td>
<td>Workshop – Miscellaneous NCS</td>
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<td>4:30 p.m.</td>
<td>Adjourn</td>
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**Wednesday, February 27, 2019**

**EMG Approaches to Neuromuscular Disorders**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>7:30 a.m.</td>
<td>Continental Breakfast and Exhibits</td>
</tr>
<tr>
<td>7:45</td>
<td>Carpal Tunnel Syndrome – James C. Watson, M.D.</td>
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<tr>
<td>8:30</td>
<td>Ulnar Neuropathy – Ruple S. Laughlin, M.D.</td>
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<tr>
<td>9:15</td>
<td>Break and Exhibits</td>
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<tr>
<td>9:30</td>
<td>Brachial Plexopathies – Devon I. Rubin, M.D.</td>
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<tr>
<td>10:30</td>
<td>Radiculopathies – Jaimin S. Shah, M.D.</td>
</tr>
<tr>
<td>11:30</td>
<td>Lower Limb Mononeuropathies – Julie A. Khoury, M.D.</td>
</tr>
<tr>
<td>Noon</td>
<td>Lunch and Exhibits</td>
</tr>
<tr>
<td>12:15</td>
<td>(Lunch and Learn) Pathological Correlates of EMG Findings in Neuropathy – P. James Dyck, M.D.</td>
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<tr>
<td>1:15</td>
<td>Evaluation of Common, Distal Sensorimotor Peripheral Neuropathies</td>
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<tr>
<td>2:15</td>
<td>Evaluation of Uncommon and Atypical Peripheral Neuropathies</td>
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<tr>
<td>3:15</td>
<td>Optional Workshop – NCS Skills Practice</td>
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<tr>
<td>5:15 p.m.</td>
<td>Adjourn</td>
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</tbody>
</table>
Thursday, February 28, 2019
EMG, Evoked Potentials, Sleep, Intraoperative Monitoring

7:30 a.m. Continental Breakfast and Exhibits
8:00 Motor Neuron Diseases – Eric J. Sorenson, M.D.
9:00 Neuromuscular Junction Disorders – Kathleen D. Kennelly, M.D., Ph.D.
10:00 Break and Exhibits
10:15 Myopathies – Elliot L. Dimberg, M.D.
11:15 Cranial Neuropathies – Benn E. Smith, M.D.
Noon Lunch and Exhibits
1:00 Somatosensory Evoked Potentials – Ernest (Matt) M. Hoffman, D.O., Ph.D.
2:00 Visual Evoked Potentials and Brainstem Auditory Evoked Responses (BAERs) – Jonathan L. Carter, M.D.
3:00 Break and Exhibits
3:15 Intraoperative Monitoring – Ernest (Matt) M. Hoffman, D.O., Ph.D.
4:15 Basics of Sleep Neurophysiology and Polysomnography
   Michael H. Silber, M.B., Ch.B.
5:30 p.m. Adjourn

Friday, March 1, 2019
EEG

7:30 a.m. Continental Breakfast and Exhibits
8:00 Introduction and Pre-test – Jeffrey W. Britton, M.D.
8:10 Normal EEG and Benign Variants in Adults – Jeffrey W. Britton, M.D.
8:45 Normal EEGs in Infants and Children – Katherine C. Nickels, M.D.
9:35 Montages, Filters and Polarity, Oh my! – Brian N. Lundstrom, M.D., Ph.D.
10:15 Break and Exhibits
10:30 Abnormal EEGs in Pediatric Epilepsies – Katherine C. Nickels, M.D.
12:05 p.m. Lunch and Exhibits
1:15 EEG in Adult Epilepsies – Elson L. So, M.D.
2:05 Mission Critical: EEG in Coma and Encephalopathies – Eric T. Payne, M.D.
2:50 Break and Exhibits
3:00 Breakout Sessions (Attendees rotate through all 3 sessions)
   1. Basics in EEG Interpretation and Reporting
      Approach to orderly analysis of routine EEGs
      Common pitfalls for the beginning reader
      Elements of a complete and useful report
      Katherine H. Noe, M.D., Ph.D. and Joseph F. Drazkowski, M.D.
   2. EEG Reading Session – Hands on EEG Cases
      Jeffrey W. Britton, M.D. and Katherine C. Nickels, M.D.
   3. EEG Quiz Session – You Make the Call
      William O. Tatum, D.O. and Eric T. Payne, M.D.
4:45 p.m. Adjourn

Saturday, March 2, 2019
EEG Monitoring and Video EEG

7:30 a.m. Continental Breakfast and Exhibits
8:00 EEG in Focal Lesions – Joseph F. Drazkowski, M.D.
8:30 Ambulatory EEG – William O. Tatum, D.O.
9:30 Video EEG for Spells and Seizures (Adults) – Gregory D. Cascino, M.D.
10:20 Break and Exhibits
10:35 Video EEG for Spells and Seizures (Pediatrics) – Raj D. Sheth, M.D.
11:15 EEG Evaluation of Seizure Mimickers – Joseph F. Drazkowski, M.D.
12:15 p.m. Lunch and Exhibits
1:30 EEG in Status Epilepticus – Katherine H. Noe, M.D., Ph.D.
2:20 EEG in Prognostication of Anoxic Brain Injury – Jeffrey W. Britton, M.D.
3:05 EEG Misadventures – William O. Tatum, D.O.
3:40 Post-test
4:00 p.m. Adjourn
THE RITZ-CARLTON AMELIA ISLAND
AMELIA ISLAND, FLORIDA
FEBRUARY 24–MARCH 2, 2019

ELECTROMYOGRAPHY (EMG), ELECTROENCEPHALOGRAPHY (EEG), & NEUROPHYSIOLOGY in Clinical Practice

CE.MAYO.EDU/EMGEEG2019