

Mayo Clinic Electroencephalography (EEG), Electromyography (EMG)
and Neurophysiology in Clinical Practice
Mayo Clinic Education Center/Phoenix, Arizona
Sunday, February 28 – Friday, March 4, 2016

Sunday, February 28, 2016

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| 7:30 a.m. | Registration & Continental Breakfast |
| 8:00 | Welcome & Pre-test |
| 8:15 | Pediatric EEG: Normal/Normal Variants Lily Wong-Kisiel, M.D. |
| 9:00 | Pediatric EEG: Abnormal/Epileptiform Raj D. Sheth, M.D. |
| 10:00 | Break |
| 10:15 | Adult EEG: Normal/Normal Variants Matthew T. Hoerth, M.D. |
| 11:00 | Adult EEG Abnormal Jeffrey W. Britton, M.D. |
| 11:45 | Questions & Answers |
| Noon | Break (pick up lunch) |
| 12:30 | EEG Misadventures (Lunch and learn) William O. Tatum, D.O. |
| 1:30 | Long Term EEG Recording Skills Amy Z. Crepeau, M.D. |
| 2:30 | Break |
| 2:45 – 4:15 | EEG Skills Workshop Workshop I Adult EEG Interpretation Report Generation – (Room A) Jerry J. Shih, M.D. Workshop II Pediatric EEG Interpretation – (Room B) Elaine C. Wirrell, M.D. |
| 4:15 | EEG Billing and Coding Jeffrey W. Britton, M.D. |
| 4:45 p.m. | Adjourn |

Program schedule is subject to change without notice.

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Monday, February 29, 2016 (Leap Year)

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| 7:30 a.m. | Continental Breakfast |
| 8:00 | Routine EEG in the Epilepsy Evaluation: Specificity Utility /Effectiveness Joseph I. Sirven, M.D. |
| 8:45 | EEG in the ICU: Coma/Encephalopathy/Brain Death Elson L. So, M.D. |
| 9:30 | EEG in Status Epilepticus Katherine H. Noe, M.D., Ph.D. |
| 10:15 | Break |
| 10:30 | Pitfalls and Confounders in Long-term EEG Recordings Amy Z. Crepeau, M.D. |
| 11:00 | Advanced/Boutique EEG: Intracranial recordings/ECOG and HFO's/Devices for Epilepsy Matthew Hoerth, M.D. |
| 11:45 | Questions & Answers |
| Noon | Break (pick up lunch) |
| 12:30 | Essentials of the Neurophysiology of Sleep (Lunch and learn) Michael H. Silber, M.B., Ch.B. |
| 1:30 | Break |
| 1:45 | Workshop I EMU Skills: Adult – (Room A) Joseph F. Drazkowski, M.D. |
| | Workshop II EMU Skills: Peds – (Room B) Elaine C. Wirrell, M.D. |
| 3:45 | Post-test |
| 4:00 | Adjourn |

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Tuesday, March 1, 2016
Clinical Neurophysiology Fundamentals

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| 7:30 a.m. | Continental Breakfast |
| 8:00 | Essentials of Electricity, Filters and Circuit Analysis: Electrical Safety & Cortical Physiology “What do I need to for the Boards?” Terrence D. Lagerlund, M.D. |
| 9:15 | Quiz on Technical Aspects EEG Faculty |
| 10:00 | Break |
| 10:15 | Autonomic Disorders Brent P. Goodman, M.D. |
| 11:15 | Lunch (pick up lunch) |
| 11 :45 | Visual and Brainstem Evoked Potentials (Lunch and learn) Jonathan L. Carter, M.D. |
| 12 :30 | Somatosensory Evoked Potentials James C. Watson, M.D. |
| 1:15 | Intraoperative Monitoring Spinal/Cranial/Peripheral Brian A. Crum, M.D. |
| 2 :00 | Neurophysiology of Balance Jamie M. Bogle, Ph.D. |
| 2 :45 | EMG Billing and Coding Andrea J. Boon, M.D. |
| 3 :30 | Ultrasound as a Complement to Electrodiagnosis (using ultrasound machine and subject) Andrea J. Boon, M.D. |
| 4 :30 | Ultrasonography Demonstration (using ultrasound machine and subject) James C. Watson, M.D. and Andrea J. Boon, M.D. |
| 5:30 p.m. | Adjourn |

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Wednesday, March 2, 2016

EMG

- 7:15 a.m. Registration & Continental Breakfast
- 7:45 a.m. Welcome, Introductions and Pre-Test
Benn E. Smith, M.D.
- 8:00 Nerve Conduction Studies Basics:
Localization & Recognition Tools
Brent P. Goodman, M.D.
- 8:45 Uncommon Motor Nerve Conduction Studies,
Including F Waves and H Reflexes
Sarah E. Berini, M.D.
- 9:30 Uncommon Sensory Studies – Technique and Utility
Mark A. Ross, M.D.
- 10:15 Neuromuscular Junction Physiology and Electrodiagnostic Testing
Brent P. Goodman, M.D.
- 11:15 Pitfalls of Nerve Conduction Studies: Technical and Physiologic
Devon I. Rubin, M.D.
- 12:15 p.m. Break (pick up food)
- 12:30 Lumbosacral Radiculoplexus Neuropathies **(lunch and Learn)**
P. James B. Dyck, M.D.
- 1:30-4:00 **Workshop I – Common Nerve Conduction Studies (Room A)**
Motors = Median, Ulnar, Peroneal (EDB), Tibial with Fwaves, Facial
Sensories = Median, Ulnar (anti and palmars), Sural, Superficial Peroneal, Plantars
Others: Blink Reflex, H-reflex
- Workshop II – Uncommon Nerve Conduction Studies (Room B)**
Somatosensory Evoked Potentials (Meidan and Tibial)
Motors = 4 point Ulnar, Ulnar/FDI, Radial, Accessory, Musculocutaneous, Peroneal/AT, Facial
Sensories = Dorsal Ulnar Cutaneous, Radial, Medial and Lateral Cutaneous, Medial and Lateral Plantars

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Others: Repetitive Stimulation techniques, Blink Reflexes

4:00 Question & Answer

4:30 p.m. Adjourn

Thursday, March 3, 2016

EMG

7:00 a.m. Continental Breakfast

7:30 Technique of Needle Examination
Devon I. Rubin, M.D.

8:30 Unusual Muscles and EMG
Eric J. Sorenson, M.D.

9:30 Break

9:45 EMG Waveform Analysis: Introduction
Devon I. Rubin, M.D.

11:30 Crafting the EMG Report
Benn E. Smith, M.D.

Noon Break (pick up food)

12:30 p.m. Electrophysiology-Pathology Correlates (**Lunch and learn**)
P. James B. Dyck, M.D.

1:30 – 4:30 **Workshop I – Needle EMG Common Muscles (Room A)**
Needle Technique
Upper and Lower Common Muscles
Ultrasound Technique

Workshop II – Needle EMG Uncommon Muscles and Techniques (Room B)
Needle Technique
Upper and Lower Uncommon Muscles
Quantitative Electromyography (QEMG)
Single Fiber EMG (SFEMG)

5:00 Dinner

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- 5:30 An Evening of EMG Waveforms: Food, Fun, and Fibrillations
Devon I. Rubin, M.D. and Elliot L. Dimberg, M.D.
- 9:30 p.m. Adjourn

Friday, March 4, 2016
EMG

- 7:00 a.m. Continental Breakfast
7:30 Carpal Tunnel Syndrome
James C. Watson, M.D.
- 8:30 Electrodiagnostic Approach to Brachial Plexopathy
Sarah E. Berini, M.D.
- 9:30 Break
- 9:45 EMG Approach to Muscle Diseases
Elliot L. Dimberg, M.D.
- 10:45 Lower Limb Mononeuropathies
Elliot L. Dimberg, M.D.
- 11:45 Ulnar Neuropathy
Ruple S. Laughlin, M.D.
- 12:45 p.m. Break (pick up lunch)
1:00 Electrophysiology of Radiculopathies (**Lunch and learn**)
Eric J. Sorenson, M.D.
- 1:45 Cranial Mononeuropathies
Charles Gervais, M.D.
- 2:30 Neurophysiology of the Motor Neuron Diseases
Mark A. Ross, M.D.
- 3:15 Nerve Conduction Studies and Electromyography in the Pediatric Population
Randa G. Jarrar, M.D.
- 4:00 Break

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- 4:15 Electrodiagnostic Approach to Neuromuscular Junction Disorders
Brent P. Goodman, M.D.
- 5:00 Clinical Utility of Epidermal Skin Biopsy: An Evidence Based Approach
Charlene R. Hoffman-Snyder, C.N.P., D.N.P., R.N.
- 5:45 Evaluation of Peripheral Neuropathies
Ruple S. Laughlin, M.D.
- 6:30 Post-test
- 6:45 Adjourn