

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

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

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Monday, February 29, 2016 (Leap Year)

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

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