American Association of Neuromuscular & Electrodiagnostic Medicine
Including sessions by the Myasthenia Gravis Foundation of America, Peripheral Nerve Society, & Dysautonomia International
“This year’s meeting will offer valuable in-person sessions, hands-on workshops, and social events in Nashville, as well as an option to participate virtually. Every item will be focused on the needs and education of physicians, technologists, researchers, and allied healthcare professionals whose practices include NM, MSK, EDX, and NMUS.”

Holli A. Horak
2022 AANEM President
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President’s Message

We are thrilled to be able to host another in-person AANEM Annual Meeting, this year from Nashville, Tennessee. Despite significant personal and professional challenges over the last 2.5 years, physicians and allied health professionals have continued to provide high-quality patient care, pursue groundbreaking research, and advocate for important professional standards in NM and EDX medicine. We have made incredible progress and I am excited to celebrate with you at the 2022 AANEM Annual Meeting.

This year’s meeting will offer valuable in-person sessions, hands-on workshops, and social events in Nashville, as well as an option to participate virtually. Every item will be focused on the needs and education of physicians, technologists, researchers, and allied healthcare professionals whose practices include NM, MSK, EDX, and NMUS.

I’ve chosen *The Status of Inherited Muscle Diseases in 2022* as this year’s plenary topic to highlight the dramatic changes in how we assess and treat patients with muscle diseases. Whether you are just starting your career or you are well established, I’m confident you will learn something new from our plenary speakers about genetic evaluations, therapeutics, or rehabilitation strategies. This is an exciting time in NM medicine.

I am also looking forward to more courses focusing on the rehabilitation needs of patients and assessment of peripheral nerve and muscle injuries. This is on top of our already wonderful educational offerings in EDX and US.

I encourage everyone to not only enjoy all of the educational offerings, but to also attend the social events, make new connections, and have fun with old friends in Music City, USA. I can’t wait to see you there.

Warm Regards,

Holli A. Horak
2022 AANEM President
What does the AANEM meeting mean to you?

“This is the best neuromuscular-oriented meeting. It is not too big, so it enables you to actually talk to the speakers and gather learnings that you need for your practice or future research.”
Robert W. Irwin, MD

“This unique event is where PM&R, neurology, and other specialties come together to learn and collaborate.”
Bonnie J. Weigert, MD

“This is such a superb venue in order to learn, not only from other technologists, but also from doctors. The atmosphere here - it is just amazing.”
Jerry Morris, CNCT, MS, R.NCS.T.

“Meeting people who have published resources that I have used and who have advanced the field - and finding that we can connect casually, over a cup of coffee or glass of wine - has been a pivotal experience.”
Sandra L. Hearn, MD
Plenary Speakers

This year’s plenary topic, *The Status of Inherited Muscle Diseases in 2022*, will highlight the dramatic changes in how we assess and treat persons with muscle diseases. As physiatrists, neurologists, and health care professionals, we all want to perform the most accurate evaluations and provide the best, latest treatment options to our patients. Meeting attendees will learn about new assessment techniques and treatments by attending this year’s plenary sessions.

**Wednesday’s Plenary Session | 4:00 – 5:30 pm**

**From Histologic Harpoons to Genetic Scissors: A Journey Through the Muscular Dystrophies**  
*Olney Lecture*

**Pushpa Narayanaswami, MD**  
Associate Professor of Neurology at Harvard Medical School  
Vice Chair (Clinical Operations), Department of Neurology at Beth Israel Deaconess Medical Center

**Thursday’s Plenary Session | 1:00 – 3:00 pm**

**Novel Therapeutic Approaches to LGMD**  
*Lambert Lecture*

**Kevin M. Flanigan, MD**  
Professor of Pediatrics and Neurology at The Ohio State University College of Medicine  
Director, Center for Gene Therapy, Abigail Wexner Research Institute at Nationwide Children’s Hospital  
Robert F. and Edgar T. Wolfe Foundation Endowed Chair in Neuromuscular Research at Nationwide Children’s Hospital

**Diagnosis and Management of LGMD**

**Teerin Liewluck, MD**  
Associate Professor of Neurology at Mayo Clinic College of Medicine and Science  
Consultant, Muscle Pathology Laboratory and Division of Neuromuscular Medicine, Department of Neurology at Mayo Clinic
Friday’s Plenary Session | 1:00 – 3:00 pm

The Current Approach to Management of Inherited Muscle Disease

Aloysia L. Schwabe, MD
Associate Professor, Departments of PM&R and Pediatrics at Baylor College of Medicine
Division Chief of Pediatric PM&R at Texas Children’s Hospital
Co-Director, Motion Lab at Texas Children’s Hospital
Advisory Board Member, Texas A&M Department of Biomedical Engineering

New Treatments for Duchenne Muscular Dystrophy
Reiner Lecture

Emma Ciafaloni, MD
Professor of Neurology, Pediatrics, and Obstetrics and Gynecology at the University of Rochester Medical Center
Robert C. and Rosalyne H. Griggs Professor in Experimental Therapeutics of Neurologic Disease at the University of Rochester Medical Center

Saturday’s Plenary Session | 10:00 – 11:30 am

Applying Equity Frameworks in Inherited Neuromuscular Disorders
Surinderjit Singh Young Lecture

Molly M. Fuentes, MD, MS
Assistant Professor, Department of Rehabilitation Medicine at the University of Washington
Attending Physician at Seattle Children’s Hospital
Consulting Physician at Alaska Native Medical Center
### Session Overview

#### Wednesday, September 21
- MGFA Session
- NM Complications of Cancer Treatment With Checkpoint Inhibitors and Chemotherapy
- Roundtable: Case Discussions
- Basics of NCS and Needle EMG - Part 1 & 2
- Diagnosis and Treatment: Breakthrough Genetic Testing
- Challenging Imaging Cases
- Rheumatologic and Hematologic Complications and Involvement in NMD
- Designing Your EMG for the Nerve Surgeon
- Cardiac and Pulmonary Manifestations of NMDs
- Gene Impact of Muscular Dystrophies
- Recent Advances in Nerve Surgery: Changing the Game for Nerve and Spinal Cord Injury
- Management of Pain in NM Disease
- EDX of Neuropathies in the Leg
- The Changing Landscape of SMA: Caring for Patients With SMA
- Plenary 1: The Status of Inherited Muscle Diseases in 2022

#### Thursday, September 22
- Recent Guidelines on the Treatment of Diabetic and Inflammatory Neuropathies
- 2022 Update on ALS - Part 1 & 2
- EDX and US Evaluation of Neuropathies Affecting the Foot and Ankle - Part 1 & 2
- MG Treatments: The PROMISE - MG Study and Novel Therapies
- Myalgia and Muscle Stiffness: Approach and Management - Part 1 & 2
- Planning NCSs
- NM Complications of Cancer
- Muscular Dystrophies: From Bedside Diagnosis to Genetic Therapy
- How to Integrate NM Pathology Into Your Everyday Practice - Muscle
- EMG Reports
- EDX Evaluation of CIDP and MMN
- Recent Advances in Nerve Surgery: New Treatments for Brachial Plexopathy and Facial Neuropathy
- Video NM Cases
- NM Medicine in the Federal Healthcare System
- MSK Mimics of Cervical Radiculopathy and Plexopathies/ Mononeuropathies
- NMUS Evaluation in Polynuropathies
- NM Sports Medicine Case-Based Presentations: A Mechanisms Approach
- Building a Successful EDX/NMUS Practice: A Case-Based Approach
- Basic Physiology - Axonal or Anomalies
- History of EDX and NM Diseases
- Plenary 3: The Status of Inherited Muscle Diseases in 2022

#### Friday, September 23
- EDX NM Challenging Cases - Part 1 & 2
- Hot Topics in NM Literature - Part 1 & 2
- US Evaluation of Post-Surgical Ulnar Neuropathy of the Elbow
- Clinician's Approach to MG Therapies
- Peripheral Nerve Conditions in the Running Athlete
- Infections and Immunizations in NMD
- How to Integrate NM Pathology Into Your Everyday Practice - Nerve/Skin
- EMG & NCS Approach in ICU
- Ancillary Testing for Diagnosis of Myopathies
- Academic Faculty Development: Pathways to Promote, Demystifying What Goes on in Promotion Committees
- MSK US for MSK Conditions Encountered During a NM Evaluation
- Autoantibodies and the Evolving MG Treatment Landscape
- Diagnosing & Treating POTS in the Neurology Clinic
- Cutting Edge US and NM Imaging
- MSK Complications in Patients with NMD
- Peripheral Nerve and Muscle Pathology
- Antibody Testing and NMDs
- When Something Doesn't Look Right: A Case-Based Approach to Technical Anomalies on NCSs
- Pearls & Pitfalls: Using Immunosuppressive Medications in NM Medicine
- Plenary 3: The Status of Inherited Muscle Diseases in 2022

#### Saturday, September 24
- MUAP Recruitment Analysis Made Simple
- Neuropathies Associated With Monoclonal Gammopathy
- Inflammatory Myopathies
- Approach to the Rapidly Progressive NMD
- Impact of COVID-19 on NM Care
- An Update on MSK Injections and Injectables
- Plenary 4: The Status of Inherited Muscle Diseases in 2022
- Neurodiagnostic Family Feud: Let Us Get on Your Nerves!
**Workshop Overview**

**Wednesday, September 21**
- EDX Evaluation of the Lower Cranial Nerves
- US Basics - Systems and Scanning
- EMG Needle Basics
- EMG Laryngeal
- Anatomy & Kinesiology of the Shoulder/Upper Limb
- Autonomic Testing Using Live Demonstration
- EDX Approach to Myopathies: Needle EMG of Unusual Muscles
- EDX Evaluation of Proximal Upper and Lower Limb Mononeuropathies
- SFEMG Using Axonal Stimulation
- SFEMG and Measuring Jitter Using Concentric Needle
- Advanced US Guidance for Neurotoxins
- Advanced US of the Brachial Plexus
- Needle EMG of the Foot
- Cervical Radiculopathy/Brachial Plexopathy
- Basic US of Upper Limb Nerves
- Skin Biopsy Technique & Applications
- NMUS Anatomy of the Head and Neck
- Advanced US-Guided Treatment of Peripheral Mononeuropathies
- Advanced EMG and US of Respiratory System
- Basic NMUS
- Facial NCS and Blink Reflexes
- Myopathies: EDX Approach
- Advanced Sonographic Needle Guidance for Carpal Tunnel Injections
- Advanced US of Upper Limb Nerves
- Basic US of the Lower Limb Nerves
- Basic US of Upper Limb Nerves – Median and Ulnar From Elbow to Wrist

**Thursday, September 22**
- Unusual NCS – Resident/Fellow/Technologist/Medical Student
- Basic MSK and Muscle US - Resident/Fellow/Medical Student
- EDX Evaluation of the NMJ Transmission Disorder - Resident/Fellow/Medical Student

**Friday, September 23**
- Pearls and Pitfalls in Performing NCS - Resident/Fellow/Technologist/Medical Student
- Basic Nerve US - Resident/Fellow/Medical Student
- Unusual NCS - Resident/Fellow/Technologist/Medical Student
- You Make the Call: An Interactive Approach to EMG Waveform Recognition Skills - BASIC
- Advanced Nerve US - Resident/Fellow
- NCS Pitfalls - Resident/Fellow/Technologist/Medical Student
- You Make the Call: An Interactive Approach to EMG Waveform Recognition Skills - ADVANCED
- NCS in the Foot - Resident/Fellow/Technologist/Medical Student

**Saturday, September 24**
- Late Responses: F Wave Responses and H Reflexes
- Expert US
- US of the Posterior Thigh
- Entrapment of the Lower Limb
- Cervical Radiculopathy/Brachial Plexopathy
- Basic NMUS
- Advanced US Lower Limb Nerves
- Repetitive Nerve Stimulation
- MUP Quantitation
Two Ways to Participate

The AANEM Annual Meeting offers two ways for you to participate – virtually or in person. Both options offer opportunities for physicians, technologists, and other healthcare professionals to learn about the latest in NM, US, and EDX medicine; earn CME/CEUs; and network with colleagues from around the world.

The 2022 annual meeting will offer up to 22 **AMA PRA Category 1 Credits™** for physicians and 22 CEUs for technologists and other healthcare professionals. Physicians who attend the annual meeting will also receive free access to 12 Self-Assessment CME after the meeting. All ABEM certified technologists will receive 1 free checkpoint credit for attending the annual meeting and have access to 2 additional checkpoint credits after the meeting.

1) Virtual Meeting Option

The virtual meeting option is offered for those unable to join us in Nashville, TN. This option includes access to both the 2022 Annual Meeting Video Collection and an interactive livestream of specific featured sessions.

The 2022 Annual Meeting Video Collection includes recordings from most of the in-person meeting sessions, available in an easy-to-access, on-demand format. Registration gives you access to all content in the video collection forever and the option to claim up to 92.5 **AMA PRA Category 1 Credits™** or CEUs for 3 years.

You can also join featured sessions via livestream and chat with other virtual attendees, connect with the live audience, and have questions answered by the presenters.

### Virtual Meeting Stream + Collection

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<th>Early Bird</th>
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AANEM members and nonmembers receive the same great low price, thanks to a generous grant from ABPN.
2) In-Person Meeting Option

Registering for the in-person meeting option offers experiences that are not available through the virtual option, such as admission to your choice of concurrent in-person sessions, participation in hands-on workshops, access to the Exhibit Hall and the Poster Hall, and opportunities to connect with friends and colleagues through various social events.

<table>
<thead>
<tr>
<th>Full Attendance (Sept. 21 - 24)</th>
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<td>Residents &amp; Fellows</td>
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<td>Technologists, Collaborators, Researchers</td>
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In-Person Meeting Add-Ons

Annual Meeting Video Collection
AANEM records the audio and video from most of the sessions at the annual meeting. Recordings of the presentations and the discussions that occur during the sessions are combined into one easy-to-access collection. The Annual Meeting Video Collection gives you access to content from the annual meeting forever and the option to claim up to 92.5 AMA PRA Category 1 Credits™ or CEUs for 3 years.*

When you register for the in-person meeting option, you can add the Annual Meeting Video Collection during the registration process for only $145. The cost of the Annual Meeting Video Collection after the meeting is $295.

*The Annual Meeting Video Collection contains recordings of most of the sessions; however, it does not include Ask the Experts sessions, sessions that experience technical difficulty during recording, and workshops. Workshop materials are available in the Workshop Bundle.

Annual Meeting Workshop Bundle
Due to the nature of the workshop setting (e.g. hands-on demonstrations), AANEM encourages in-person attendance. However, if in-person attendance is not possible for all of the workshops you are interested in, AANEM offers the Annual Meeting Workshop Bundle.

You can add the Annual Meeting Workshop Bundle during the meeting registration process for only $50. When you add this bundle, you will receive handouts from all workshops that provide them. These handouts contain the teaching points of the workshops; however, the workshops are not recorded and audio/video is not available.*

*Workshop CME/CEUs are only available for in-person attendance. Workshop CME/CEUs cannot be obtained by purchasing the 2022 Workshop Bundle.

Guests
You can add guests to your registration for only $25 per guest. This allows your guests to join you at all social events throughout the meeting. Guests cannot attend sessions or workshops; however, they can enjoy the one-of-a-kind Gaylord Opryland Resort. Guests can explore 9 acres of airy, indoor garden atriums; a wide selection of award-winning restaurants & bars; the world-class Relâche Spa; and a state-of-the-art fitness center. They’ll also be able to explore Nashville and the surrounding area.

Workshops
To customize your meeting experience, add workshops to your registration. Most workshops involve learning in small groups, led by experts in the field. Some workshops involve larger group discussions and provide information through demonstrations by experts in the field. Check out the great lineup of available workshops offered this year, and add selections to your registration.
Social Events

The 2022 AANEM Annual Meeting offers plenty of chances to connect with colleagues outside of sessions and workshops. Make the most of the in-person experience by adding these social events to your plans.

Networking Activity | Wednesday 3:00 pm – 3:45 pm
Build your professional relationships by connecting with peers, leaders, innovators, and other healthcare professionals from around the world on Wednesday afternoon at this networking event. No pre-registration is required.

Exhibit Hall | Wednesday 5:45 pm – 7:15 pm | Thursday 9:00 am – 4:00 pm | Friday 9:00 am – 4:00 pm
Learn about the latest medical advancements and trends in NM and EDX medicine at our Exhibit Hall. Stop by Wednesday, Thursday, or Friday between sessions and workshops to discuss innovations with industry professionals. You will meet representatives from technology, pharmaceutical, and equipment companies.

President’s Reception | Wednesday 5:45 pm – 7:15 pm
Join us in the Exhibit Hall for the official kickoff to the annual meeting. Alcoholic and non-alcoholic beverages will be provided, along with appetizers and other refreshments. All meeting registrants are welcome and encouraged to attend.

Poster Hall | Thursday 7:30 am – 9:00 pm | Friday 7:30 am – 4:00 pm
Walk through the Poster Hall to see the latest cutting-edge research. Authors will be present to answer questions and discuss findings during specific times of the day.

Abstract Award Reception | Thursday 5:30 pm – 7:00 pm
Celebrate the advancements of research in the field of NM and EDX medicine by joining our abstract authors for cocktails and appetizers. All authors will be available to discuss their research. Be sure to visit the winners and runner-up candidates for the Golseth Young Investigator Award, the Best Abstract Award, and the President’s Research Award.

EMG Talk | Thursday 7:00 pm – 9:00 pm
Drs. Bill Litchy and Larry Robinson are on stage once again for their highly anticipated EMG Talk featuring Spike and Wave. Sit back and enjoy an entertaining and educational evening while relaxing with a beverage. Alcoholic and non-alcoholic beverages will be provided.

Resident & Fellow Lunch | Friday 11:45 am - 12:45 pm
Network with the leadership of AANEM and other peers at this unique opportunity dedicated to residents and fellows in training. A free lunch will be provided to those who attend, but pre-registration is required. You will not want to miss this chance to chat with the great minds in neurology and PM&R!

Happy Hour | Friday 5:30 pm – 6:30 pm
Enjoy music and good company on Friday evening. Reunite with peers and colleagues from around the world in a fun, intimate setting. Enjoy refreshments, cocktails, wine, and more during this fun social event.
Situated in the heart of Nashville, the Gaylord Opryland Resort & Convention Center welcomes guests to a stunning, one-of-a-kind resort experience. From SoundWaves, the city’s premier aquatic attraction open on the weekend, to an exciting lineup of family-friendly activities and entertainment, there’s something for the entire family to enjoy. Guests can explore 9 acres of airy, indoor garden atriums; a wide selection of award-winning restaurants and bars; the world-class Relâche Spa; and a state-of-the-art fitness center.

The restaurants at Gaylord Opryland Resort & Convention Center offer something for everyone, with upscale menus inspired by the tastes, aromas, sights, and sounds of some of your favorite destinations. Their beverages play in perfect harmony with the food; they include local craft brews, premium wine on tap, cold-pressed juices, and the finest spirits.

The resort is conveniently located 10-15 minutes from downtown Nashville and attractions like the Grand Ole Opry and Ryman Auditorium for guests wishing to explore Music City. Complimentary shuttle service is available for overnight guests between the Gaylord Opryland Resort & Convention Center, The Inn at Opryland, General Jackson Showboat, Grand Ole Opry House (only on show nights), and Opry Mills. Shuttle service begins at 10 am and runs continuously from the Opry Mills Food Court until last pick up at 7 pm.

Visit the entertainment page on the Gaylord Opryland Resort & Convention Center website for details on these activities and more.
Accommodations
Make your reservation at the elite Gaylord Opryland Resort & Convention Center in AANEM’s official room block. Book online for rates starting at $249 per night. Booking through our link will credit AANEM for your stay. Remember that staying at the Gaylord Resort helps AANEM meet our guaranteed room limit, which helps keep conference costs lower.

Gaylord Opryland Resort & Convention Center
2800 Opryland Drive
Nashville, Tennessee 37214

The Gaylord Opryland Resort & Convention Center has a smoke-free policy.

Transportation
The Nashville International Airport is 8.3 miles from the Gaylord Opryland Resort & Convention Center. AANEM does not provide discounts or assistance on airfare.

Hotel parking starts at $33 per nights. Uber, Lyft, and rental car services are also available in the area.

AANEM has partnered with Hertz to provide a discounted rate on rental cars. Enter discount code CDP 2188961 when making your reservation online (hertz.com) or via telephone (1-800-654-2240) to receive a 20% discount.
Plan Your Schedule

**SESSIONS**

Sessions are included in the cost of your annual meeting registration. They offer learning opportunities and a chance for you to grow in your area of practice. Create your own curriculum by choosing topics that meet your interests and needs for career development. Whether you are just starting out, or are advanced in your profession, physicians, technologists, and other healthcare providers will find sessions with valuable information in NM, EDX, US, and other practice areas.

Sessions labeled CME are only for physicians, and sessions labeled CEU are only for technologists and other healthcare providers. Everyone is welcome to sessions labeled as CME/CEU.

*Dr. Bashar Katirji’s Roundtable: Case Discussions is the only session that require a no-cost pre-registration. Limited to 60 participants.*

**WORKSHOPS**

Workshops provide you with opportunities to learn from the experts in NM, US, and EDX medicine via hands-on demonstrations in a small group setting. Develop your personal skills and techniques by adding workshops to your registration. Review the great lineup of workshops offered this year, and add selections during registration.

Workshop prices are not included in your registration fee and will vary from $25 to $165 depending on the workshop and the date that you register. All workshops are available for physicians. Workshops labeled CEU are available to technologists and other healthcare professionals. Please keep in mind that space is limited. Register before July 14 for the best price on workshops.

**SOCIAL EVENTS**

Mingle with colleagues and experts from around the world at our social events. Events are included in the cost of registration and do not have an additional fee.

Kick off the meeting at the President’s Reception on Wednesday evening, where food and beverages will be available. Meet the individuals who contribute to cutting-edge research at the Exhibit Hall or the Abstract Poster Presentations. Residents and fellows are invited to attend our Resident & Fellow Lunch, where a free lunch will be provided. Connect in-person with peers at networking activities or grab a beverage on Friday night at our Happy Hour. Join Spike and Wave (Drs. Bill Litchy and Larry Robinson) for a laugh as they return to the stage with their performance of their long standing EMG Talk.

*The Resident & Fellow Lunch requires a no-cost pre-registration.*
Wednesday | September 21

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<tr>
<th>Time</th>
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<td>08:00 AM -</td>
<td><strong>W08A EMG Laryngeal</strong></td>
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| 09:30 AM      | Develop skills in the clinical and EDX evaluation of vocal cord dysfunction, including performance of specific EDX testing of the larynx and discuss how to evaluate which tests to perform on patients presenting with hoarseness and laryngeal dysfunction.  
**Michael C. Munin, MD**  
1.50 CME |
|               | **W10A EMG Needle Basics**                                                 |
|               | Utilize electrophysiologic techniques related to needle EMG; apply a problem-directed approach to the study; identify insertional and spontaneous activity; and identify the characterization of MUAP morphology and recruitment in normal and diseased states.  
**Atul T. Patel, MD, MHSA**  
1.50 CME |
| 08:00 AM -    | **W18A Basic NMUS**                                                       |
| 09:30 AM      | Obtain images with transverse and longitudinal transducer positions; describe how to manipulate basic US instrumentation to include focal depth, Doppler flow, and transducer frequency; describe how muscle, nerve, and tendon appear with US; and discuss the principle of anisotropy.  
**Vanessa Baute Penny, MD**  
1.50 CME |
|               | **W44A Anatomy & Kinesiology of the Shoulder/Upper Limb**                  |
|               | Identify the normal anatomy and the normal and abnormal kinesiology resulting from paralysis of key upper limb muscles; perform the neurological examination on each other to localize root from peripheral nerve lesions; differentiate winging from serratus anterior versus trapezius muscle weakness; and localize lesions to specific peripheral nerve sites based on the motor and key components of the sensory and reflex examination and integrate with EDX and US findings.  
**John W. Norbury, MD**  
1.50 CME |
|               | **W55A EDX Approach to Myopathies: Needle EMG of Unusual Muscles**         |
|               | Discuss the role of EDX testing in myopathies; identify EDX findings in muscle disorders; determine muscle selection criteria for EDX in patients with suspected myopathy; and use the EDX findings to generate a differential diagnosis.  
**Elie Naddaf, MD**  
1.50 CME |

American Board of Electrodiagnostic Medicine

Setting High Standards for Quality Medical Care and Demonstrating Professional Accountability

Visit abemexam.org to learn about certification opportunities for physicians and technologists.
Wednesday | September 21

08:00 AM - 09:30 AM
W81A Basic US of the Lower Limb Nerves
Explain optimal transducer frequencies for imaging lower extremity nerves and appropriate choice of transducers; describe echogenicity and methods of demonstrating Morton’s neuroma in the foot; identify and trace the sciatic nerve from the ischiofemoral outlet into the posterior thigh; identify common muscles for EMG and chemodenervation and methods of safe approaches with needle; describe and demonstrate the branching patterns of sciatic, tibial, fibular and sural nerves in the lower extremities; list expected findings of nerve entrapment as may be seen on US and findings in structures other than nerve that may be significant. This workshop will focus on the sciatic nerve at bifurcation, fibular nerve at fibular head and the tibial at ankle.

Jeffrey A. Strakowski, MD

08:00 AM - 09:30 AM
W88A EDX Evaluation of Proximal Upper and Lower Limb Mononeuropathies
EDX evaluation of proximal limb nerves is often challenging given the potential of under-stimulation during NCSs. Demonstrate the best practices in order to obtain reliable responses and address the technical challenges faced during performing and analyzing NCSs of these nerves.

William J. Litchy, MD

08:00 AM - 09:30 AM
W89A EDX Evaluation of the Lower Cranial Nerves
Lower cranial neuropathy evaluation in the EDX lab is an informative complement to the clinical evaluation and exam. Discuss a methodical approach to the EDX evaluation of cranial nerves XI and XII, with particular emphasis on topics pertaining to electrode placement, stimulation site, needle insertion site, side to side testing, and the proper interpretation of normal and abnormal findings; use such findings to then support or refute diagnoses encountered in clinic.

Hani A. Kushlaf, MD | Amro M. Stino, MD

08:00 AM - 09:30 AM
W97A SFEMG Using Axonal Stimulation
The techniques of single fiber EMG obtained with axonal stimulation will be demonstrated, along with demonstrating technique on the extensor digitorum communis with stimulation of the posterior interosseous nerve and in the orbicularis oculi with stimulation of the facial motor nerve. Participants will gain an understanding of how stimulated single fiber is performed along with its advantages and limitations as compared to volitional single fiber EMG.

Eric J. Sorenson, MD

08:00 AM - 09:30 AM
W98A US Basics - Systems and Scanning
Review the basics of how US systems work and the system settings needed to perform NMUS. Demonstrate the basics of obtaining nerve and muscle images, along with potential pitfalls. Discuss how basic NMUS is applied in EDX laboratories.

Lisa D. Hobson-Webb, MD
### Wednesday | September 21

#### 08:00 AM - 09:30 AM
**Basics of NCS and Needle EMG - Part 1**

Articulate the basic concepts underlying NCSs and how to approach NCSs; conduct and interpret NCSs in the upper and lower extremities and identify anomalous innervations; use specialized studies including RNS, cranial nerve studies, and blink reflex; apply needle EMG for the diagnosis of NMDs; and recognize common pitfalls, explain technical factors and important safety considerations affecting the study.

Mohammad K. Salajegheh, MD | Kelly G. Gwathmey, MD

1.50 CME/CEU

#### 08:00 AM - 09:30 AM
**Diagnosis and Treatment: Breakthrough Genetic Testing**

Discuss how current testing platforms lead to the latest advances in population genomic-driven drug discovery; apply the principles of genetic diagnosis/interpretation in the NM clinic and discuss the transition of novel molecular therapeutics into practice; and review ongoing technological advances and clinical trial data utilizing gene therapies for NM disease to identify therapeutics that are likely to be in the clinic within the next 5 years.

Zhyv N. Niu, PhD | Jennifer M. Martinez-Thompson, MD | Nicolas N. Madigan, MBCh, PhD

1.50 CME/CEU

#### 08:00 AM - 12:45 PM
**MGFA Session**

The Myasthenia Gravis Foundation of America (MGFA) Medical/Scientific Advisory Board presents a scientific session highlighting research in the area of MG and myasthenic disorders. This session is the premier annual event around the US and world related to the pathogenesis, immunology, diagnosis, and treatment of MG and related disorders of the NMJ. Included in the program will be leaders in MG research from the scientific and clinical areas.

#### 08:00 AM - 09:30 AM
**NM Complications of Cancer Treatment With Checkpoint Inhibitors and Chemotherapy**

Familiarize participants with the common NM complications of cancer care, including chemotherapy induced peripheral neuropathy and NM immune related adverse events such as MG, myositis, etc.; review diagnosis, prevention, treatment, and use of current guidelines for these disorders. The session will include real world cases to provide examples of how these principles work in practice.

Noah A. Kolb, MD | Amanda C. Guidon, MD

1.50 CME/CEU

#### 08:00 AM - 09:30 AM
**Roundtable: Case Discussions**

Confer with experts in a smaller one-on-one setting to improve your performance and interpretation of clinical studies and add clinical input. This session will improve your use of quality EDX studies in the diagnosis and treatment of patients. Participants are encouraged to bring their own cases to the session.

Pre-registration required. Limited to 60 participants.

David C. Preston, MD | Bryan E. Tsao, MD | Mark A. Ferrante, MD | Said R. Beydoun, MD | Kamal R. Chemali, MD | Bashar Katriji, MD

1.50 CME

#### 08:00 AM - 08:00 PM
**Silent Auction**

The Silent Auction is open and items are on display. Let the bidding begin.

All money raised from the auction goes to the American Neuromuscular Foundation to provide funds for scientific research on NMDs.
### Wednesday | September 21

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<tr>
<th>Time</th>
<th>Event</th>
<th>Description</th>
<th>Speaker</th>
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<tbody>
<tr>
<td>09:30 AM -</td>
<td><strong>Coffee Break</strong></td>
<td>Enjoy free coffee and use break time to network and socialize with your colleagues.</td>
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<tr>
<td>10:00 AM -</td>
<td><strong>W02B Autonomic Testing Using Live Demonstration</strong></td>
<td>Familiarize participants with three quantitative tests of autonomic function using specialized equipment designed for autonomic reflex function testing including sudomotor testing; cardiovagal testing with heart-rate response to deep breathing; and Valsalva maneuver testing to evaluate cardiovagal and adrenergic function.</td>
<td>Mohamed Kazamel, MD</td>
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<tr>
<td>10:00 AM -</td>
<td><strong>W07B SFEMG and Measuring Jitter Using Concentric Needle</strong></td>
<td>Demonstrate how jitter can be measured using CNE, and identify machine settings and limitations. Must be familiar with the basic concepts of SFEMG techniques.</td>
<td>Janice M. Massey, MD</td>
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<td>10:00 AM -</td>
<td><strong>W22B Skin Biopsy Technique &amp; Applications</strong></td>
<td>Discuss the development of skin biopsy as a clinical technique; describe its current applications and limitations in clinical practice; and discuss the technique involved in obtaining skin specimens to increase your comfort level in performing this billable procedure in your office.</td>
<td>David W. Polston, MD</td>
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<td>10:00 AM -</td>
<td><strong>W35B Needle EMG of the Foot</strong></td>
<td>Discuss the anatomy of the tibial nerve branches in the foot (including the medial plantar nerve, lateral plantar nerve, and Baxter's nerve) and the deep peroneal nerve branches in the foot; identify the potential entrapment sites for these nerve branches; distinguish the anatomic basis for needle placement; discuss special considerations for the technique in each muscle; and identify how to develop a meaningful interpretation of findings.</td>
<td>Tracy A. Park, MD</td>
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<td>10:00 AM -</td>
<td><strong>W45B Cervical Radiculopathy/Brachial Plexopathy</strong></td>
<td>Discuss the anatomy of the cervical roots and the brachial plexus; describe the role of the sensory NCS in the initial localization of axon loss processes to preganglionic versus ganglionic/postganglionic; illustrate the role of the sensory NCS in localizing focal lesions to specific regions of the brachial plexus (root, trunk, division, cord, terminal nerve); discuss the role of motor NCS in further localizing the lesion and in defining its severity; describe the role of the needle EMG in confirming the NCS findings and in defining the temporal features of the disorder (slowly progressive, rapidly progressive, acute, subacute, chronic); demonstrate this information using illustrative cases.</td>
<td>Ghazala R. Hayat, MD</td>
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**1.50 CME**
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<tr>
<td>10:00 AM - 11:30 AM</td>
<td><strong>Workshop</strong></td>
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<td><strong>W51B NMUS Anatomy of the Head and Neck</strong></td>
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|                    | Review functional and NM anatomy of the cranio-cervical region including a review of complex structural and functional anatomy in the cranio-cervical region. Learn how to correctly identifying abnormal postures and the contributing muscles, discuss the benefits and limitations of NMUS. Use US to identify muscles, nerves and other key structures including the following concepts; US pattern recognition and key regional structures.  
Katharine E. Alter, MD |
| 1.50 CME           |
|                    | **Workshop**                                                        |
|                    | **W58B Basic US of Upper Limb Nerves - Median and Ulnar From Elbow to Wrist**  
Describe basic principles of US imaging and equipment requirement; demonstrate scanning technique of the median and ulnar nerves, dynamic testing and measurements; and discuss sonographic findings of common entrapment neuropathies. This workshop will focus on the median and ulnar nerves from the elbow to wrist.  
Elena Shanina, MD, PhD |
| 1.50 CME           |
|                    | **Workshop**                                                        |
|                    | **W59B Advanced US Guidance for Neurotoxins**                       |
|                    | Discuss the pros and cons of using in-plane and out-of-plane US views to guide needle placement; compare and contrast the use of EMG needle guidance, nerve stimulation, and US for identifying neurotoxin targets in patients; and identify common targets for needle-guided injections using US.  
Michael C. Munin, MD |
| 1.50 CME           |
|                    | **Workshop**                                                        |
|                    | **W76B Basic US of Upper Limb Nerves**                              |
|                    | Describe basic principles of US imaging and equipment requirement; demonstrate scanning technique of the median and ulnar nerves, dynamic testing and measurements; and discuss sonographic findings of common entrapment neuropathies. This workshop will focus on the median and ulnar nerves from the elbow to wrist.  
Lester S. Duplechan, MD |
| 1.50 CME           |
|                    | **Workshop**                                                        |
|                    | **W84B Advanced US of the Brachial Plexus**                        |
|                    | Explain recommended transducer frequencies and image optimization methods for imaging of brachial plexus; explain sono-anatomy of the brachial plexus and adjacent structures; demonstrate scanning technique of the brachial plexus in the interscalene groove as well as supraclavicular, infraclavicular, and axillary areas; demonstrate sonographic identification of the following nerves: vagus, phrenic, dorsal scapular, long thoracic, suprascapular, and spinal accessory; and summarize expected findings of brachial plexopathies as may be seen on US and findings in structures other than the nerve that may be significant.  
Monika Krzesniak-Swinarska, MD |
| 1.50 CME           |
|                    | **Session**                                                         |
|                    | **Basics of NCS and Needle EMG - Part 2**                           |
|                    | Articulate the basic concepts underlying nerve conduction and approach to the study; conduct and interpret NCSs in the upper and lower extremities and identify anomalous innervations; use specialized studies including RNS, cranial nerve studies, and blink reflex; apply needle EMG for the diagnosis of NMDs; and recognize common pitfalls, explain technical factors, and important safety considerations affecting the study.  
Aaron Izenberg, MD | Joseph M. Choi, MD |
<p>| 1.50 CME/CEU       |</p>
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<tr>
<td>10:00 AM -</td>
<td>Challenging Imaging Cases</td>
<td>Identify challenging imaging findings encountered on NMUS including anomalies of nerve, muscle, and bone; neoplastic lesions of nerve and nearby structures; and unusual pathologies of nerve and muscle.</td>
<td>Monika Krzesniak-Swinarska, MD</td>
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<td>10:00 AM -</td>
<td>Designing Your EMG for the Nerve Surgeon</td>
<td>Recognize needs of the referring surgeon when designing an EMG study and writing a report; discuss the differences between traditional diagnostic EMGs and those required for surgical decision making; and integrate knowledge from surgical and EDX perspectives to optimize patient care.</td>
<td>Lawrence R. Robinson, MD</td>
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<tr>
<td>10:00 AM -</td>
<td>Rheumatologic and Hematologic Complications and Involvement in NMD</td>
<td>Identify clinical examination findings and laboratory markers that should raise suspicion for underlying rheumatologic or hematologic disorder; describe how and when to screen for an underlying rheumatologic or hematologic disorder in patients presenting with a NM condition; and define the clinical phenotype and laboratory characteristics of various NMD associated with such conditions.</td>
<td>Elle Naddaf, MD</td>
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<td>01:30 PM -</td>
<td>W02A Autonomic Testing Using Live Demonstration</td>
<td>Familiarize participants with three quantitative tests of autonomic function using specialized equipment designed for autonomic reflex function testing including sudomotor testing; cardiovagal testing with heart-rate response to deep breathing; and Valsalva maneuver testing to evaluate cardiovagal and adrenergic function.</td>
<td>Amanda C. Peltier, MD</td>
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<td>01:30 PM -</td>
<td>W10C EMG Needle Basics</td>
<td>Utilize electrophysiologic techniques related to needle EMG; apply a problem-directed approach to the study; identify insertional and spontaneous activity; and identify the characterization of MUAP morphology and recruitment in normal and diseased states.</td>
<td>Atul T. Patel, MD</td>
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<td>01:30 PM -</td>
<td>W11C Advanced EMG and US of Respiratory System</td>
<td>Perform phrenic NCSs; utilize techniques for safe needle EMG of the diaphragm (including US assisted); localize and perform needle EMG of chest wall muscles, which are helpful in the diagnosis of respiratory failure; and utilize US for evaluating thickness and contractility of the diaphragm.</td>
<td>Andrea J. Boon, MD</td>
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W55C Myopathies: EDX Approach
Discuss the role of EDX testing in myopathies; identify EDX findings in muscle disorders; determine muscle selection criteria for EDX in patients with suspected myopathy; and use the EDX findings to generate a differential diagnosis.

Hani A. Kushlaf, MD

W59C Advanced US Guidance for Neurotoxins
Discuss the pros and cons of using in-plane and out-of-plane US views to guide needle placement; compare and contrast the use of EMG needle guidance, nerve stimulation, and US for identifying neurotoxin targets in patients; and identify common targets for needle-guided injections using US.

Katharine E. Alter, MD

W67C Advanced US-Guided Treatment of Peripheral Mononeuropathies
Describe the technical aspects of US-guided needle placement; utilize US-guided procedures to treat common peripheral neuropathies; and demonstrate the ability to track a needle under real-time US guidance in order to quickly and accurately target a structure through a hands-on approach.

John W. Norbury, MD

W74C Advanced Sonographic Needle Guidance for Carpal Tunnel Injections
Explain sono-anatomy of the carpal tunnel and adjacent structures; discuss approaches for sonographic needle imaging; compare US-guided and "blind method" injections for treatment of CTS; and distinguish structural abnormalities and common anatomic variations that may affect the procedure.

Elena Shanna, MD, PhD

W81C Basic US of the Lower Limb Nerves
Explain optimal transducer frequencies for imaging lower extremity nerves and appropriate choice of transducers; describe echogenicity and methods of demonstrating Morton’s neuroma in the foot; identify and trace the sciatic nerve from the ischiofemoral outlet into the posterior thigh; identify common muscles for EMG and chemodenervation and methods of safe approaches with needle; describe and demonstrate the branching patterns of sciatic, tibial, fibular, and sural nerves in the lower extremities; and list expected findings of nerve entrapment as may be seen on US and findings in structures other than nerve that may be significant. This workshop will focus on the sciatic nerve at bifurcation, fibular nerve at fibular head and the tibial at ankle.

Lester S. Duplechan, MD
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<td>01:30 PM -</td>
<td><strong>W86C Advanced US of Upper Limb Nerves</strong></td>
<td>Monika Krzesniak-Swinarska, MD</td>
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<td></td>
<td>Explain recommended transducer frequencies and image optimization</td>
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<td>methods for imaging of upper extremity nerves; demonstrate</td>
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<td>scanning technique and measurement of the following nerves:</td>
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<td>musculocutaneous, MAC and LAC; describe and demonstrate the</td>
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<td>branching pattern of radial nerve from arm to wrist including</td>
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<td>PIN and superficial radial sensory; discuss sonographic findings</td>
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<td>of the most frequent abnormalities affecting these nerves;</td>
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<td>and list expected findings in structures other than nerve that</td>
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<td><strong>W99C Facial NCS and Blink Reflexes</strong></td>
<td>Bashar Katirji, MD</td>
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<td>Perform neurophysiological testing of the facial nerve and blink</td>
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<td>reflexes. Discuss the principles and practice of studying the</td>
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<td>facial NCS and the blink reflex with electric stimulation and</td>
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<td>identify the clinical values and limitations of the blink reflex</td>
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<td><strong>Cardiac and Pulmonary Manifestations of NMDs</strong></td>
<td>Michael K. Hehir, MD</td>
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<td>Confidently diagnose and manage common cardiac manifestations</td>
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<td>that commonly occur in association with NMDs including motor</td>
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<td>neuron disorders, neuropathies, NMJ</td>
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<td>disorders and myopathies; confidently diagnose and manage common</td>
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<td>with NMDs including motor neuron disorders, neuropathies, NMJ</td>
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<td>and myopathies; and describe which NMDs commonly feature comorbid</td>
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<td>cardiac and pulmonary manifestations, and the evidence-based</td>
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<td>recommendations for diagnostic evaluation and treatment.</td>
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<td><strong>EDX of Neuropathies in the Leg</strong></td>
<td>Vikram Narula, MD</td>
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<td>Design EDX testing for the most common mononeuropathies in the leg:</td>
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<td>femoral, fibular (3 branches), tibial, sciatic, saphenous, lateral,</td>
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<td>femoral cutaneous nerves; describe the EDX options available to</td>
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<td>accurately diagnose tarsal tunnel syndrome; differentiate polyneuropathy from tarsal tunnel syndrome; and identify EDX techniques to separate or diagnose mononeuropathies and other conditions.</td>
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<td><strong>Gene Impact of Muscular Dystrophies</strong></td>
<td>Georgios Manousakis, MD</td>
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<td>Appraise recent developments in the genetics of dystrophinopathies</td>
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<td>and their impact in development of new treatments; describe the</td>
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<td>genetic mechanisms of facioscapulohumeral and myotonic dystrophy;</td>
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<td>and recognize the utility and the limitations of advanced</td>
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<td>sequencing techniques for the diagnosis of limb girdle muscular</td>
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### Management of Pain in NM Disease

Identify in a systematic approach the most common etiologies of MSK pain and their mimics in NM disease; examine and compare the clinical indications and efficacy of oral pharmacologic therapies versus more invasive procedures for spasticity treatment in NM disease; and discuss the role of new technology in the evaluation and treatment of chronic pain in advanced NM disease.

This course is designed to be an interactive group discussion of several cases highlighting a systematic approach to the evaluation and treatment of pain in NM disorders. We will review the role of multidisciplinary pain management programs while discussing the financial barriers and healthcare disparities in the NM disease population.

*Ileana Howard, MD | Robert W. Irwin, MD | Elba Y. Gerena, MD | Christopher Alessia, DO | Laura Y. Huang, MD*

### Recent Advances in Nerve Surgery: Changing the Game for Nerve and Spinal Cord Injury

Utilize EMG/NCS to precisely assess severity of nerve injuries; adjust your EMG/NCS approach to more effectively assist with surgical decision making; recognize surgical options for severe nerve and plexus injuries; describe surgical options for spinal cord injuries; and recognize when to refer patients for surgical evaluation.

*Jana Dengler, MD | Lawrence R. Robinson, MD*

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<tr>
<td>Management of Pain in NM Disease</td>
<td>Wednesday</td>
<td>01:30 PM - 03:00 PM</td>
<td>Identify in a systematic approach the most common etiologies of MSK pain and their mimics in NM disease; examine and compare the clinical indications and efficacy of oral pharmacologic therapies versus more invasive procedures for spasticity treatment in NM disease; and discuss the role of new technology in the evaluation and treatment of chronic pain in advanced NM disease. This course is designed to be an interactive group discussion of several cases highlighting a systematic approach to the evaluation and treatment of pain in NM disorders. We will review the role of multidisciplinary pain management programs while discussing the financial barriers and healthcare disparities in the NM disease population. *Ileana Howard, MD</td>
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<td>Recent Advances in Nerve Surgery: Changing the Game for Nerve and Spinal Cord Injury</td>
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<td>Utilize EMG/NCS to precisely assess severity of nerve injuries; adjust your EMG/NCS approach to more effectively assist with surgical decision making; recognize surgical options for severe nerve and plexus injuries; describe surgical options for spinal cord injuries; and recognize when to refer patients for surgical evaluation. *Jana Dengler, MD</td>
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<tr>
<td>The Changing Landscape of SMA: Caring for Patients With SMA</td>
<td>Wednesday</td>
<td>01:30 PM - 03:00 PM</td>
<td>Recognize how the availability of gene transfer therapy and SMN2 splice modifying therapies are changing the phenotype and developmental trajectory of patients living with SMA; recognize the influence these therapies are having on the applicability of our existing outcome measures and how this is creating a need for new ways to assess disease trajectory; and review how these emerging new “post treatment” phenotypes influence optimal standards of care. *Thomas O. Crawford, MD</td>
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### Coffee Break

Enjoy free coffee and use break time to network and socialize with your colleagues.

### Plenary 1: The Status of Inherited Muscle Diseases in 2022

Explore the fascinating evolution of the muscular dystrophies from initial clinical descriptions, nomenclature and classifications to the present classification, developments in genetic diagnoses, symptomatic treatments and genetic remedies.

*Note: AANEM’s Annual Business Meeting will be held at the beginning of this session. Fellow, Active, and Research members will have the opportunity to vote and are encouraged to attend.*

*Pushpa Narayanaswami, MD*
Wednesday | September 21

Exhibit Hall

Learn about the products that help you provide quality care for your patients. Stop by the Exhibit Hall and see the latest innovations in our industry.

President’s Reception

The President’s Reception is the official kickoff event of the meeting each year. Socialize with attendees and exhibitors while enjoying appetizers, wine, and refreshments.

AANEM Connect

Take advantage of a valuable member benefit – AANEM Connect! Discuss hot topics in NM and EDX medicine, ask for advice from colleagues, or share your knowledge with fellow AANEM members through this member-only discussion forum.

Join the conversation at aanem.org/Connect.
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<tr>
<td>07:30 AM -</td>
<td><strong>Poster Hall</strong></td>
<td>Take time to stroll through the Poster Hall to view research submitted for the annual</td>
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<tr>
<td>09:00 PM</td>
<td>Social Event</td>
<td>meeting. Poster authors will be available at specified times to discuss their research.</td>
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<tr>
<td>08:00 AM -</td>
<td><strong>2022 Update on ALS: Diagnosis and Research - Part 1</strong></td>
<td>Recognize various presentations of ALS; screen for other mimicking conditions; optimize EDX</td>
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<tr>
<td>09:30 AM</td>
<td>Session</td>
<td>tools and learn to use new and emerging diagnostic tools (e.g. NfL); and explain the</td>
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<td></td>
<td></td>
<td>current understanding on the mechanisms of ALS and development of therapies (basic</td>
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<tr>
<td></td>
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<td>science and clinical research update).</td>
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<tr>
<td></td>
<td>**Iryna Muzyka, MD</td>
<td>Bjorn E. Oskarsson, MD</td>
</tr>
<tr>
<td>08:00 AM -</td>
<td><strong>W23RTA Unusual NCS</strong></td>
<td>Participants will be able to identify less commonly used NCSs and discuss pitfalls</td>
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<tr>
<td>09:30 AM</td>
<td>Workshop</td>
<td>associated with common NCSs.</td>
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<td>Limited to residents, fellows, technologists, and medical students only.</td>
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<td></td>
<td><strong>Jerry Morris, CNCT, MS, R.NCS.T.</strong></td>
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<tr>
<td>08:00 AM -</td>
<td><strong>W91RTA EDX Evaluation of NMJ Transmission Disorder</strong></td>
<td>Discuss the EDX approach to delineate a NMJ disorders using RNS and perform RNS of hand,</td>
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<tr>
<td>09:30 AM</td>
<td>Workshop</td>
<td>shoulder, and facial muscles; and discern patterns of findings suggestive of disease</td>
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<td>versus technical artifact.</td>
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<td>Limited to residents, fellows, and medical students only.</td>
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<td><strong>Ruple S. Laughlin, MD</strong></td>
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<tr>
<td>08:00 AM -</td>
<td><strong>W93RTA Basic MSK and Muscle US</strong></td>
<td>This anatomy intense workshop will cover muscles needed during EMG to assist you with</td>
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<tr>
<td>09:30 AM</td>
<td>Workshop</td>
<td>confirming your current knowledge base and assist with performance of US guided needle</td>
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<td>EMG.</td>
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<td>Limited to residents, fellows, and medical students only.</td>
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<td><strong>Rebecca Dutton, MD</strong></td>
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<tr>
<td>08:00 AM -</td>
<td>**EDX and US Evaluation of Neuropathies Affecting the Foot and</td>
<td>Contrast diagnosing neuropathies affecting the foot and ankle clinically,</td>
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<tr>
<td>09:30 AM</td>
<td>Ankle - Part 1</td>
<td>electrophysiologically, and with US.</td>
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<td>**Michael S. Cartwright, MD</td>
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<tr>
<td>Time</td>
<td>Session</td>
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<tr>
<td>08:00 AM -</td>
<td><strong>EDX Evaluation of CIDP and MMN</strong></td>
<td>Articulate the algorithmic approach for the diagnosis of CIDP and MMN which includes defining the clinical phenotype in the context of the clinical history and exam; identifying the EDX findings of acquired demyelination, and using validated EDX criteria and supportive evidence to determine the diagnosis. The latest EAN/PNS 2021 guidelines for CIDP will be discussed. This is an “Ask the Experts” session. There will be an interactive discussion designed around audience participation. There are no handouts nor a planned presentation and this session will not be included in the Annual Meeting Video Collection.</td>
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<td>09:30 AM</td>
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<tr>
<td>08:00 AM -</td>
<td><strong>EMG Reports</strong></td>
<td>Convey important information about radiculopathies in EMG reports to referring physicians; identify information necessary for inclusion in an EMG report; and implement appropriate degree of clinical and EDX interpretation into a meaningful EMG report. This is an “Ask the Experts” session. There will be an interactive discussion designed around audience participation. There are no handouts nor a planned presentation and this session will not be included in the Annual Meeting Video Collection.</td>
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<tr>
<td>09:30 AM</td>
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<tr>
<td>08:00 AM -</td>
<td><strong>How to Integrate NM Pathology Into Your</strong></td>
<td>Review new treatment approaches to MG; discuss the results of the PROMISE-MG trial; and discuss of novel therapeutic strategies including Complement Inhibition and FcRn antagonists. This session is complemented by the Clinician's Approach to MG Therapies session on Friday, September 23.</td>
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<tr>
<td>09:30 AM</td>
<td><strong>Everyday Practice - Muscle</strong></td>
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<tr>
<td>08:00 AM -</td>
<td><strong>MG Treatments: The PROMISE - MG Study</strong></td>
<td>Review new treatment approaches to MG; discuss the results of the PROMISE-MG trial; and discuss of novel therapeutic strategies including Complement Inhibition and FcRn antagonists. This session is complemented by the Clinician's Approach to MG Therapies session on Friday, September 23.</td>
</tr>
<tr>
<td>09:30 AM</td>
<td><strong>and Novel Therapies</strong></td>
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</table>
Muscular Dystrophies: From Bedside Diagnosis to Genetic Therapy

Recognize the distinct features of each muscular dystrophy subtype, select the appropriate genetic test for each muscular dystrophy subtype, interpret the variant of uncertain significant (VUS) and select the appropriate ancillary tests to further determine its pathogenicity; and identify a subset of muscular dystrophy patients who may benefit from novel therapeutic agents.

This is an “Ask the Experts” session. There will be an interactive discussion designed around audience participation. There are no handouts nor a planned presentation and this session will not be included in the Annual Meeting Video Collection.

Margherita Milone, MD, PhD

Myalgia and Muscle Stiffness: Approach and Management - Part 1

Classify and identify causes of muscle pain and stiffness; diagnose and manage various forms of myotonic disorders; differentiate and treat various forms of metabolic myopathies; identify and manage stiff person syndrome and peripheral nerve hyperexcitability; and evaluate for and treat myofascial pain syndrome and fibromyalgia.

Mohammad K. Salajegheh, MD | Joome Suh, MD

NM Complications of Cancer

Become familiar with common NM complications of cancer and cancer treatment; recognize red-flag situations that require more urgent intervention; and acquire skills for evaluating and managing common cancer-related NM problems.

This is an APP-focused session. Anyone who has interest in this topic is welcome to attend.

This is an “Ask the Experts” session. There will be an interactive discussion designed around audience participation. There are no handouts nor a planned presentation and this session will not be included in the Annual Meeting Video Collection.

Dianna Quan, MD | Margaret Naclerio, PA-C

Planning NCSs

Apply a rationale strategy to select NCSs based on the patient's presenting symptoms.

This is a technologist-focused session. Anyone who has interest in this topic is welcome to attend.

Daniel B. Simmons, MD | Timothy R. Fullam, MD

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Find Your Dream Job Today!

Explore hundreds of opportunities for neurologists, physiatrists, and electrodiagnostic technologists through the AANEM Career Center.

Browse all open positions at aanem.org/Careers/Job-Seekers.
### Thursday | September 22

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>08:00 AM - 09:00 AM</td>
<td><strong>Recent Guidelines on the Treatment of Diabetic and Inflammatory Neuropathies</strong></td>
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<td>Increase awareness of the recent painful diabetic neuropathy, CIDP, and GBS guidelines; review the evidence base for oral, topical, and behavioral interventions for treating painful diabetic neuropathy; and recognize the changes in diagnostic criteria and available treatments of CIDP and GBS.</td>
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<td></td>
<td>This activity has been planned and implemented in accordance with the accreditation requirements and policies of the Accreditation Council for Continuing Medical Education (ACCME) through joint providership of AANEM and the Peripheral Nerve Society. The AANEM is accredited by the ACCME to provide continuing medical education for physicians.</td>
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<td>Brian Callaghan, MD</td>
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<td>09:00 AM - 10:00 AM</td>
<td><strong>Coffee Break</strong></td>
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<td>Enjoy free coffee and use break time to network and socialize with your colleagues.</td>
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<tr>
<td>09:30 AM - 10:30 AM</td>
<td><strong>Silent Auction</strong></td>
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<td>Auction closes at 4:00 pm and winners will be notified.</td>
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<tr>
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<td>All money raised from the Silent Auction goes to the American Neuromuscular Foundation to provide funds for scientific research on NMDs.</td>
</tr>
<tr>
<td>10:00 AM - 11:00 AM</td>
<td><strong>EDX and US Evaluation of Neuropathies Affecting the Foot and Ankle - Part 2</strong></td>
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<td>Contrast diagnosing neuropathies affecting the foot and ankle clinically, electrophysiologically, and with US.</td>
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<td>Michael S. Cartwright, MD</td>
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<tr>
<td>10:00 AM - 11:30 AM</td>
<td><strong>MSK Mimics of Cervical Radiculopathy and Plexopathies/Mononeuropathies</strong></td>
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<td>Identify three MSK mimics of radiculopathy or mononeuropathies in the upper extremity; recognize one way to differentiate between cervical radiculopathy and MSK symptoms; and describe how MSK problems contributed to cervical radiculopathy/mononeuropathy and vice versa.</td>
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<td>Faye C. Tan, MD</td>
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<tr>
<td>10:00 AM - 11:30 AM</td>
<td><strong>Myalgia and Muscle Stiffness: Approach and Management - Part 2</strong></td>
</tr>
<tr>
<td></td>
<td>Classify and identify causes of muscle pain and stiffness; diagnose and manage various forms of myotonic disorders; differentiate and treat various forms of metabolic myopathies; identify and manage stiff person syndrome and peripheral nerve hyperexcitability; and evaluate for and treat myofascial pain syndrome and fibromyalgia.</td>
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<td>Goran Rakocevic, MD</td>
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</table>

### Exhibit Hall
Learn about the products that help you provide quality care for your patients. Stop by the Exhibit Hall and see the latest innovations in our industry.
10:00 AM - 11:30 AM  
**Session**  
**NM Medicine in the Federal Healthcare System**  
Describe the unique challenges of providing NM medical care to overseas service members and military retirees; explain the rationale and impact of the ALS Directive and System of Care in the Veterans Health Administration; and describe the opportunities for advancing NM education of healthcare trainees in the Veterans Health Administration.

Bharathi Swaminathan, MD | Ileana Howard, MD | Matthew E. Miller, MD | Kaye Sedarsky, MD  
1.50 CME/CEU

10:00 AM - 11:30 AM  
**Session**  
**Recent Advances in Nerve Surgery: New Treatments for Brachial Plexopathy and Facial Neuropathy**  
Review new developments in surgical treatment of brachial plexopathy and facial neuropathy.

Heather Baltzer, MD | Lawrence R. Robinson, MD  
1.50 CME/CEU

10:00 AM - 11:30 AM  
**Session**  
**Video NM Cases**  
Improve clinical skills based on watching videos of real cases; update knowledge on the presented topics (diagnosis and management); and become familiar with conducting effective virtual clinical visit.

Aziz Shaibani, MD | Thy P. Nguyen, MD  
1.50 CME/CEU

01:00 PM - 03:00 PM  
**Session**  
**Plenary 2: The Status of Inherited Muscle Diseases in 2022**  
LGMD refers to a group of at least 32 subtypes of genetically heterogenous autosomal muscular dystrophies, which share a phenotype of limb girdle weakness and hyperCKemia. LGMDs are theoretically amenable to a variety of genetic therapies. The diagnosis of LGMD is clinically challenging as their phenotype is nonspecific and can be seen in other acquired and hereditary myopathies. The advent of NGS changed the landscape of LGMD diagnosis allowing for the analysis of several genes simultaneously at a shorter time and lower cost compared to Sanger sequencing.

Attendees will be able to discuss the status of gene therapies (gene replacement, gene editing, or gene knockdown) for LGMDs and the approaches used; identify ongoing programs that have reached or are near clinical trials; and identify and discuss the current classification, diagnostic landscape (including NGS), and the management of LGMD.

Kevin Flanigan, MD | Teerin Liewluck, MD  
2.00 CME/CEU

03:00 PM - 04:00 PM  
**Social Event**  
**Coffee Break**  
Enjoy free coffee and use break time to network and socialize with your colleagues.
<table>
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<th>Time</th>
<th>Session</th>
<th>Description</th>
<th>Speakers</th>
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<tbody>
<tr>
<td>04:00 PM - 05:30 PM</td>
<td><strong>2022 Update on ALS: Treatment - Part 2</strong></td>
<td>Recognize the best practice in delivering bad news (supported by literature, evidence, and with an understanding of prognosticators); and maintain a strong collaborative patient-physician relationship (educating and advocating for interdisciplinary care).</td>
<td>Bjorn E. Oskarsson, MD</td>
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<td>04:00 PM - 05:30 PM</td>
<td><strong>Basic Physiology - Axonal or Anomalies</strong></td>
<td>Explain the basic pathophysiology of axon loss, demyelination, and conduction block; identify the corresponding nerve conduction patterns for axonal and demyelinating processes; recognize the most common anomalous innervations in the upper and lower limbs; and describe the nerve conduction techniques used to confirm the presence of an anomalous innervation. This is a technologist-focused session. Anyone who has interest in this topic is welcome to attend.</td>
<td>Alexis E. Nelson, MD</td>
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<td>04:00 PM - 05:30 PM</td>
<td><strong>Building a Successful EDX/NMUS Practice: A Case-Based Approach</strong></td>
<td>Discuss the fundamental elements of a successful medical practice which meets the needs of your “customers” (patients and referral sources) across academic and employed practice settings; implement strategies to align your EDX practice with the needs of patients, referring providers, and the changing landscape in terms of patient access to the EHR; and describe situations where NMUS can help in growing an EDX practice.</td>
<td>John W. Norbury, MD</td>
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<tr>
<td>04:00 PM - 05:30 PM</td>
<td><strong>History of EDX and NM Diseases</strong></td>
<td>Identify historical/landmark discoveries related to current electrophysiologic techniques; relate current NM disease conditions to their original descriptions; and articulate the historical evolution of our understanding of the etiology and pathology of certain NMDs.</td>
<td>Mohamed Kazamel, MD</td>
</tr>
<tr>
<td>04:00 PM - 05:30 PM</td>
<td><strong>NMUS Evaluation in Polyneuropathies</strong></td>
<td>Discuss the role of NMUS in the evaluation of polyneuropathies in clinical practice.</td>
<td>Craig M. Zaidman, MD</td>
</tr>
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</table>
Thursday | September 22

**Donate to Support NM Research & Education**

The ANF is on a mission to advance NM and EDX medicine and improve the lives of patients with NM disease. Donations make it possible for the foundation to fund educational opportunities and important research into muscle and nerve disorders.

Administrative costs are paid by AANEM, so 100% of donations are used to fund research and educational opportunities, such as development grants, annual research awards, and more.

Donate today at [neuromuscularfoundation.org/donate](http://neuromuscularfoundation.org/donate).

**EMG Talk**

EMG Talk is an interactive, entertaining, lighthearted look at EMG that is sure to provide lots of laughs. Join the fun and camaraderie including complimentary drinks and sweet treats.

William J. Litchy, MD | Lawrence R. Robinson, MD

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**Abstract Award Reception**

Enjoy an evening celebrating research! Socialize with colleagues and abstract authors while enjoying complimentary food, wine, beer and other refreshments. All authors will be available to discuss their research. Be sure to visit the Golseth, Best Abstract and President’s Research award-winning authors.

**EMG Talk**

EMG Talk is an interactive, entertaining, lighthearted look at EMG that is sure to provide lots of laughs. Join the fun and camaraderie including complimentary drinks and sweet treats.

William J. Litchy, MD | Lawrence R. Robinson, MD
### Poster Hall

Take time to stroll through the Poster Hall to view research submitted for the annual meeting. Poster authors will be available at specified times to discuss their research.

### W23RFA Unusual NCS

Participants will be able to identify less commonly used NCSs and discuss pitfalls associated with common NCSs.

- **Limited to residents, fellows, technologists, and medical students only.**
- **Lawrence R. Robinson, MD**

### W33RFA You Make the Call: An Interactive Approach to EMG Waveform Recognition Skills-BASIC

Identify the firing patterns of different types of EMG waveforms; identify the characteristics of a variety of normal and abnormal spontaneous waveforms; recognize normal and abnormal patterns of recruitment of MUAPs; and recognize and understand the significance of the changes in morphology of MUAPs in diseases. Includes audience participation and videos of EMG waveforms.

- **This is a large group workshop open to physicians only.**
- **Devon I. Rubin, MD**

### W83RFA Basic Nerve US

Topics covered will include US devices and equipment, how to incorporate US into a busy EDX laboratory, how to image nerve, and how to assess for the following potential conditions: CTS, ulnar neuropathy at the elbow, ulnar neuropathy at the wrist, and fibular neuropathy at the knee. As time permits, the assessment of other NM conditions will be addressed.

- **Limited to residents, fellows, and medical students only.**
- **Shumaila Sultan, MD | Susan J. Kim, DO**

### W90RFA Pearls and Pitfalls in Performing NCS

This is an interactive workshop in which participants will identify areas of interest in NCSs.

- **Limited to residents, fellows, technologists, and medical students only.**
- **Jerry Morris, CNCT, MS, R.NCS,T. | Candy Dolan, CNCT, R.NCS,T., R.EEG.T. | Kristin L. Dombroski, CNCT**
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<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Speaker(s)</th>
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<tbody>
<tr>
<td>8:00 AM -</td>
<td>**Academic Faculty Development: Pathways to Promote, Demystifying What Goes on in</td>
<td>Faye C. Tan, MD</td>
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<td>09:30 AM</td>
<td>Promotion Committees**</td>
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<td><strong>Ancillary Testing for Diagnosis of Myopathies</strong></td>
<td>Teerin Liewluck, MD</td>
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<td>8:00 AM -</td>
<td><strong>Clinician's Approach to MG Therapies</strong></td>
<td>Nicholas J. Silvestri, MD</td>
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<td>09:30 AM</td>
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<td><strong>EDX NM Challenging Cases - Part 1</strong></td>
<td>Bashar Katarji, MD</td>
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<td><strong>EMG &amp; NCS Approach in ICU</strong></td>
<td>Taylor B. Harrison, MD</td>
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<td>Hot Topics in NM Literature - Part 1</td>
<td>08:00 AM - 09:30 AM</td>
<td>Appraise several impactful findings in NM literature over the past year; recognize the clinical value of these studies and their impact to NM patients (EDX and sonographic methods, hereditary and acquired myopathy evaluation, peripheral neuropathy testing and treatment, motor neuron disease understanding and NMJ disorder advancements); describe hot topics and groundbreaking work in these areas of NM medicine; and integrate emerging knowledge into clinical practice. Ruple S. Laughlin, MD</td>
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<tr>
<td>Infections and Immunizations in NMD</td>
<td>08:00 AM - 09:30 AM</td>
<td>Recognize the effects of infections in people with underlying NMD; describe the risks of infections in people with NMD who are on immunosuppressive or immunomodulatory agents; discuss the effectiveness of immunizations in people with NMD who are on immunosuppressive or immunomodulatory agents; plan screening and prophylaxis of infectious diseases before immunosuppression; identify the neurologic complications associated with COVID-19 infections; review COVID-19 vaccines and their safety and effectiveness; and list current recommendations for immunizations in individuals with NMD, with emphasis on COVID-19. Pushpa Narayanaswami, MD</td>
</tr>
<tr>
<td>How to Integrate NM Pathology Into Your Everyday Practice - Nerve/Skin</td>
<td>08:00 AM - 09:30 AM</td>
<td>Recognize the indications for nerve or skin biopsy in clinical practice and how information obtained from the biopsy could change the management of patients. This is an “Ask the Experts” session. There will be an interactive discussion designed around audience participation. There are no handouts nor a planned presentation and this session will not be included in the Annual Meeting Video Collection. P. James B. Dyck, MD</td>
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<tr>
<td>Peripheral Nerve Conditions in the Running Athlete</td>
<td>08:00 AM - 09:30 AM</td>
<td>Recognize common neurogenic causes of lower extremity pain in the running athlete; discuss the pathophysiology and clinical presentation of various running-related conditions including common and superficial fibular nerve entrapment, lateral plantar neuropathy, and chronic exertional compartment syndrome; describe NCS and US techniques that may be used to facilitate accurate diagnosis of nerve injuries in the running athlete; and understand basic principles of biomechanical and gait analysis to identify risk factors for running-related injury in the clinical setting. Rebecca Dutton, MD</td>
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<td>Time</td>
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<tr>
<td>08:00 AM - 09:30 AM</td>
<td>Session</td>
<td><strong>US Evaluation of Post-Surgical Ulnar Neuropathy of the Elbow</strong>&lt;br&gt;Develop a systematic US approach to evaluating persistent problems following ulnar neuropathy surgery.</td>
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<tr>
<td>09:00 AM - 04:00 PM</td>
<td>Social Event</td>
<td><strong>Exhibit Hall</strong>&lt;br&gt;Learn about the products that help you provide quality care for your patients. Stop by the Exhibit Hall and see the latest innovations in our industry.</td>
</tr>
<tr>
<td>09:30 AM - 10:00 AM</td>
<td>Social Event</td>
<td><strong>Coffee Break</strong>&lt;br&gt;Enjoy free coffee and use break time to network and socialize with your colleagues.</td>
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<tr>
<td>10:00 AM - 11:30 AM</td>
<td>Workshop</td>
<td><strong>W101RFB NCS in the Foot</strong>&lt;br&gt;Review the basics and “tricks of the trade” in recording multiple sensory &amp; motor NCS in the foot, including medial &amp; lateral plantar nerves- both sensory &amp; motor, saphenous nerve, superficial peroneal (fibular) sensory nerve, sural sensory nerve and Baxter’s nerve (ie, 1st branch of lateral plantar nerve) and learn to do a novel motor NCS technique of the deep peroneal nerve w/ recording over EDB (extensor digitorum brevis) that is based on anatomic landmarks and easily reproducible &amp; reliable; recognize the algorithm when doing motor &amp; sensory NCS to evaluate for tarsal tunnel syndrome and/or a tibial branch neuropathy in the foot, and recognize when to utilize different sensory &amp; motor NCS to differentiate TTS from peripheral polyneuropathy.</td>
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<td>10:00 AM - 11:30 AM</td>
<td>Workshop</td>
<td><strong>W21RFB NCS Pitfalls</strong>&lt;br&gt;This workshop identifies common instrumentation, physiologic, and operator errors; alter recording electrode montages and use the instrument's filters to help optimize the recording of motor and sensory potentials; and minimize stimulus artifact interference with waveform recording.</td>
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<td>10:00 AM - 11:30 AM</td>
<td><strong>W33FB You Make the Call: An Interactive Approach to EMG Waveform Recognition Skills-ADVANCED</strong></td>
<td>Identify the characteristics of a variety of uncommon abnormal spontaneous waveforms; recognize normal and abnormal patterns of recruitment of MUAPs; and recognize and understand the significance of subtle or complex changes in morphology of MUAPs in diseases. The workshop includes audience participation and video examples of EMG waveforms. Devon I. Rubin, MD</td>
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<tr>
<td>10:00 AM - 11:30 AM</td>
<td><strong>W92RFB Advanced Nerve US</strong></td>
<td>This workshop is designed for residents and fellows with some experience conducting NMUS. The focus will be on scanning techniques for assessing potential entrapment mononeuropathies, polyneuropathies, motor neuron disease, brachial plexopathies, and myopathies. Hands-on scanning will be emphasized. Limited to residents and fellows only. Michael S. Cartwright, MD</td>
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<tr>
<td>10:00 AM - 11:30 AM</td>
<td><strong>Autoantibodies and the Evolving MG Treatment Landscape</strong></td>
<td>Identify antibodies supportive of the diagnosis of autoimmune MG; describe the clinical presentation of MG based on Ab status; discuss the utility of other confirmatory tests for MG; discuss established therapies for MG; review the definition of refractory MG; describe promising therapies for autoimmune MG; review cautionary drugs in MG; discuss the effectiveness of thymectomy, rituximab and methotrexate; and describe the impact of immune checkpoints inhibitors on MG. Yuebing Li, MD, PhD</td>
</tr>
<tr>
<td>10:00 AM - 11:30 AM</td>
<td><strong>Diagnosing &amp; Treating POTS in the Neurology Clinic</strong></td>
<td>Identify how to make an accurate diagnosis of POTS, an autonomic nervous system disorder commonly associated with small fiber neuropathies; recognize the common co-morbidities to be on the lookout for, how to implement standard non-pharmacological and pharmacological POTS treatment, when to refer to a tertiary center; and learn about current research on glucose control and metabolic dysfunction in POTS. This activity has been planned and implemented in accordance with the accreditation requirements and policies of the Accreditation Council for Continuing Medical Education (ACCME) through joint providership of AANEM and Dysautonomia International. The AANEM is accredited by the ACCME to provide continuing medical education for physicians. Lauren Stiles, JD</td>
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</table>
Friday | September 23

**EDX NM Challenging Cases - Part 2**
Apply and refine the process of diagnostic formulation in NM medicine and clinical EMG and improve patient care. This session relies on attendees to provide challenging cases.

Bashar Katirji, MD

**Hot Topics in NM Literature - Part 2**
Appraise several impactful findings in NM literature over the past year; recognize the clinical value of these studies and their impact to NM patients (EDX and sonographic methods, hereditary and acquired myopathy evaluation, peripheral neuropathy testing and treatment, motor neuron disease understanding, and NMJ disorder advancements); describe hot topics and groundbreaking work in these areas of NM medicine; and integrate emerging knowledge into clinical practice.

Nicholas E. Johnson, MD | Ruple S. Laughlin, MD | Chafic Karam, MD

**MSK US for MSK Conditions Encountered During a NM Evaluation**
Identify common MSK problems that can confound symptoms and NM evaluation with the use of high frequency US; discuss MSK dilemmas facing NM specialists; and describe the techniques for identifying concomitant MSK comorbidities. This will be an interactive session that will include PowerPoint slides, live discussion, and live US demonstrations.

Craig M. Zaidman, MD | Jeffrey A. Strakowski, MD

**Silent Auction Winner Pick-up**
Silent Auction winners, pick up your items at the Registration Booth.

**Plenary 3: The Status of Inherited Muscle Diseases in 2022**
Tremendous progress has been made in the development and approval of dystrophin-targeted therapies and other therapeutic strategies targeting the secondary downstream pathological mechanisms in DMD. Attendees will be able to discuss the current status of gene-based therapeutic strategies including exon skipping and AAV-based gene transfer, and the most up-to-date data from human clinical trials in DMD.

Emma Ciafaloni, MD | Aloysia L. Schwabe, MD

**Coffee Break**
Enjoy free coffee and use break time to network and socialize with your colleagues.

**Antibody Testing and NMDs**
Identify the clinical utility of various antibodies in diagnosing and monitoring related NMDs; recognize possible limitations of various antibodies in the evaluation and management of NMDs; and explain how to order antibody testing judiciously in NM medicine.

Benjamin Claytor, MD | Payam Soltanzadeh, MD | Yuebing Li, MD, PhD
Friday | September 23

04:00 PM - 05:30 PM  
**Session**

**Cutting Edge US and NM Imaging**
Review and discuss the role of magnetic resonance imaging (MRI) in diagnosing and monitoring muscle disease; illustrate the use of high-frequency nerve US in peripheral nerve trauma; and discuss and demonstrate the latest advances in NMUS, along with their impact on clinical practice.

Doris G. Leung, MD, PhD | Jeffrey A. Strakowski, MD | Lisa D. Hobson-Webb, MD

1.50 CME/CEU

04:00 PM - 05:30 PM  
**Session**

**MSK Complications in Patients with NMD**
Recognize common MSK complications in patients with NMDs and learn how to identify them; identify the functional implications of having a MSK complication; and review the basic management of MSK complaints including rehabilitation strategies, pain management, and equipment/P&O needs.

Carolyn Black, MD | Haibl Cai, MD | Nassim Rad, MD

1.50 CME/CEU

04:00 PM - 05:30 PM  
**Session**

**Pearls and Pitfalls: Using Immunosuppressive Medications in NM Medicine**
Describe common side effects, rare adverse reactions, and key monitoring parameters for corticosteroids and steroid-sparing immunosuppressive medications used to treat NM conditions; appraise general principles and guidelines for the use of immunosuppressive medications in NM medicine; analyze case-based approaches for corticosteroid and steroid-sparing drug initiation, dose titration, and taper in MG and inflammatory myopathy; and discuss the implications of the COVID-19 pandemic in the use of these medications.

Kara Stavros, MD | Christyn Edmundson, MD | Christopher Doughty, MD

1.50 CME/CEU

04:00 PM - 05:30 PM  
**Session**

**Peripheral Nerve and Muscle Pathology**
Recognize clinical situations to order nerve and muscle biopsies; correlate nerve and muscle pathology with EMG and imaging abnormalities; and review important nerve and muscle biopsies pathology findings for UCNS board examination.

Michelle L. Mauermann, MD | Aziz Shaibani, MD

1.50 CME/CEU

04:00 PM - 05:30 PM  
**Session**

**When Something Doesn't Look Right: A Case-Based Approach to Technical Anomalies on NCSs**
Recognize and prevent technical anomalies frequently encountered during NCS; recognize pitfalls encountered during NCS including effect of understimulation and overstimulation on CMAPs/SNAPs; effect of limb positioning on ulnar NCS; effect of misplaced electrodes on latency and amplitude calculations; effect of temperature, height, age on responses; frequently encountered electrical artifacts, impact of sweep speed and sensitivity on latency of responses, anomalous innervations; and effect of temperature, limb movement and submaximal stimulation on repetitive nerve stimulation testing.

This is a technologist-focused session. Anyone who has interest in this topic is welcome to attend.

Kelly G. Gwathmey, MD | Qihua Fan, MD | Arun K. Chandok, MD

1.50 CME/CEU

05:30 PM - 06:30 PM  
**Social Event**

**Happy Hour**
Enjoy live music, refreshments, and socializing with friends and colleagues. Attend the last social event of this year’s annual meeting to celebrate another successful meeting, and say farewell until next year!
<table>
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<tr>
<th>Time</th>
<th>Workshop</th>
<th>Description</th>
<th>Speaker</th>
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<tr>
<td>08:00 AM - 09:30 AM</td>
<td><strong>W100AS Late Responses: F Wave Responses and H Reflexes</strong></td>
<td>Discuss the principles and practice eliciting F wave responses and H reflexes; demonstrate anatomical localization of late responses, including Axon reflex; identify clinical utility and indications for testing; and address limitations and technical challenges.</td>
<td>Vita G. Kesner, MD, PhD</td>
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<td><strong>W18AS Basic NMUS</strong></td>
<td>Obtain images with transverse and longitudinal transducer positions; describe how to manipulate basic US instrumentation to include focal depth, Doppler flow, and transducer frequency; describe how muscle, nerve, and tendon appear with US; discuss the principle of anisotropy.</td>
<td>Michael S. Cartwright, MD</td>
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<td><strong>W13AS Entrapment of the Lower Limb</strong></td>
<td>Familiarize participants with techniques needed to evaluate and diagnose entrapments in lower limbs. Acquire skills to perform NCSs for fibular (peroneal), tibial, medial, and lateral plantar nerves; and identify the appropriate muscles for evaluating lower limb nerve entrapments and appropriate needle placement for EMG examination.</td>
<td>Michael T. Andary, MD</td>
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<td><strong>W27AS Repetitive Nerve Stimulation</strong></td>
<td>Perform RNS to shoulder, upper arm, hand, and facial muscles; discuss sequential examination for detecting NM transmission defects, such as artifacts.</td>
<td>Taylor B. Harrison, MD</td>
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<td><strong>W16AS MUP Quantitation</strong></td>
<td>The MUP is a fundamental signal in routine EMG. This workshop will demonstrate the physiologic composition of the MUP with its morphologic analogue (the motor unit), how it is 'interactively' recorded by manipulating the EMG system, and how the MUP signals are altered in NM disorders. An 'objective' quantitative approach permits the physician to assess muscles as if performing an 'electrophysiologic biopsy'.</td>
<td>Paul E. Barkhaus, MD</td>
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<td><strong>W45AS Cervical Radiculopathy/Brachial Plexopathy</strong></td>
<td>Discuss the anatomy of the cervical roots and the brachial plexus; describe the role of the sensory NCS in the initial localization of axon loss processes to preganglionic versus ganglionic/postganglionic; illustrate the role of the sensory NCS in localizing focal lesions to specific regions of the brachial plexus (root, trunk, division, cord, terminal nerve); discuss the role of motor NCS in further localizing the lesion and in defining its severity; describe the role of the needle EMG in confirming the NCS findings and in defining the temporal features of the disorder (slowly progressive, rapidly progressive, acute, subacute, chronic); and demonstrate this information using illustrative cases.</td>
<td>Michael C. Munin, MD</td>
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### Saturday  |  September 24

<table>
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<tr>
<th>Time</th>
<th>Workshop</th>
<th>Description</th>
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| 08:00 AM - 09:30 AM | **W70AS Expert US**                                                      | Demonstrate advanced US practices involving challenging and complicated nerves and measurement techniques of the peripheral nerve in the upper and lower limbs.  
Jeffrey A. Strakowski, MD |
| 09:30 AM - 1:50     | **W85AS Advanced US Lower Limb Nerves**                                  | Obtain images with transverse and longitudinal transducer positions; describe how to manipulate basic US instrumentation to include focal depth, Doppler flow, and transducer frequency; describe how muscle, nerve, and tendon appear with US; discuss the principle of anisotropy.  
Steven J. Shook, MD |
| 08:00 AM - 09:30 AM | **W87AS US of the Posterior Thigh**                                     | Explain optimal transducer frequencies for imaging lower extremity nerves and appropriate choice of transducers; describe echogenicity and methods of demonstrating Morton’s neuroma in the foot; identify and trace the sciatic nerve from the ischiofemoral outlet into the posterior thigh; identify common muscles for EMG and chemodenervation and methods of safe approaches with needle; describe and demonstrate the branching patterns of sciatic, tibial, fibular and sural nerves in the lower extremities; and list expected findings of nerve entrapment as may be seen on US and findings in structures other than nerve that may be significant.  
This workshop will focus on the sciatic nerve at bifurcation, fibular nerve at fibular head and the tibial at ankle.  
Lester S. Duplechan, MD |
| 08:00 AM - 09:30 AM | **Approach to the Rapidly Progressive NMD**                              | Recognize how to form an appropriate differential diagnosis; order adequate laboratory testing; and establish appropriate treatment for the patient presenting with a rapidly progressive neuropathy, myopathy, or NMJ disorder.  
Chafic Karam, MD | Aziz Shaibani, MD | Elle Naddaf, MD |
| 08:00 AM - 09:30 AM | **An Update on MSK Injections and Injectables**                          | Discuss pros and cons in MSK therapeutics, including corticoid injections, local anesthetics, and innovate regenerative medicine therapies (such as platelet rich plasma, bone marrow concentrate).  
William M. Jones, MD | Stephen Schaff, MD | David J. Kennedy, MD | Lauren Porras, MD |
| 08:00 AM - 09:30 AM | **Impact of COVID-19 on NM Care**                                        | Identify incident NMD associated with COVID-19 including COVID-related myopathy, GBS, and other neuropathies; outline current data regarding best practices for vaccination and management of pre-existing NM disorders, with a focus on immune-mediated disorder; describe common symptoms among patients with post-acute sequelae of SARS-CoV-2 infection (PASC, or “Long-COVID”) and identify effective strategies for rehabilitation of such patients; and identify specific examples of tools for clinical care adaptation through telemedicine and innovations in NM education.  
Christopher Doughty, MD | Joome Suh, MD | Farha S. Ikrumudin, MD |
08:00 AM - 09:30 AM
Session

**Inflammatory Myopathies**
Discuss the classification and clinical features of inflammatory myopathies; outline the pathological features and the role of antibodies in inflammatory myopathies; and review therapies of inflammatory myopathies.

Ghazala R. Hayat, MD | Hanl A. Kushlaf, MD | Michael D. Weiss, MD

1.50 CME/CEU

08:00 AM - 09:30 AM
Session

**MUAP Recruitment Analysis Made Simple**
Recognize MUAP firing rates with a high degree of accuracy; formulate recruitment ratios using auditory recognition skills; and assess whether recruitment is normal or abnormal in a variety of examples.

Devon I. Rubin, MD

1.50 CME/CEU

08:00 AM - 09:30 AM
Session

**Neuropathies Associated With Monoclonal Gammapathy**
Identify when monoclonal gammapathy should be sought in patients with neuropathy; recognize how the presence of a monoclonal gammapathy influences the diagnosis and treatment of CIDP; and recognize the clinical scenarios in which monoclonal gammapathies are suggestive of anti-MAG neuropathy and POEMS, and how identification of those disorders influences prognosis and treatment.

Jeffrey A. Allen, MD | Karissa Gable, MD | Amro M. Stino, MD | Michelle L. Mauermann, MD

1.50 CME/CEU

09:30 AM - 10:00 AM
Social Event

**Coffee Break**
Enjoy free coffee and use break time to network and socialize with your colleagues.

10:00 AM - 11:30 AM
Session

**Neurodiagnostic Family Feud: Let Us Get on Your Nerves!**
Identify the upper and lower limb anatomy beginning at the nerve root level and continuing down to the muscle with discussion of commonly seen abnormalities and their presentation on NCS and EMG.

Session is open to technologists only.

Teresa Spiegelberg, CNCT, R.NCS.T., R.EEG.T, BS | Jerry Morris, CNCT, MS, R.NCS.T. | Candy Dolan, CNCT, R.NCS.T., R.EEG.T.

10:00 AM - 11:30 AM
Session

**Plenary 4: The Status of Inherited Muscle Diseases in 2022**
Disability and health services frameworks will be used as a scaffold to demonstrate how systemic factors and epistemic injustice lead to inequity. We will then consider strategies to achieve equity and truly family/patient-centered care.

Molly Fuentes, MD, MS
Meeting Objectives & Policies

Meeting Objectives
The 2022 AANEM Annual Meeting will focus on improving patient care, medical knowledge, interpersonal communication, professionalism, and systems-based practices in the following areas: updates in NM and MSK disorders; status of inherited muscle diseases; genomics and emerging gene therapies; new technologies and treatments; autoimmune disorders; neuropathies, antibody testing, US, EDX, and biopsy skills.

After attending this activity, attendees will:
- Enhance their ability to obtain a comprehensive patient history and examination; improve their ability to develop a differential diagnosis and direct appropriate diagnostic workups; assess rehabilitation potential for patients with NM and MSK disease; treat patients with pain, utilize EMG to precisely assess the severity of nerve injuries, recognize the association of immunization with new onset of NM diseases and how COVID-19 impacts patient care, and recognize how assessment techniques can improve the lives of patients. (Patient care)
- Develop technical skills necessary to perform neurologic, EDX, and rehabilitative procedures; identify and describe important EDX, biopsy, genetic, and US findings; develop awareness of treatments, therapies, and side effects, and discuss the latest literature on NM disorders. (Medical knowledge, Practice-based learning)
- Improve ability to communicate with and educate patients, families, and members of the healthcare team; articulate a confident clinical approach to common questions faced as an inpatient consultant; demonstrate professionalism in clinical, research, and academic practice. (Interpersonal communication skills, Professionalism)
- Develop strategies for working in a multidisciplinary session, awareness of emerging treatments and therapies; identify and access supportive healthcare services and mechanisms that improve patient care and patient quality of life. (Systems-based practice)

Accreditation Statement
The AANEM is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing medical education for physicians.

AMA Credit Designation Statement
The AANEM designates this live activity for a maximum of 22 AMA PRA Category 1 Credits™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

Disclaimer Statement
AANEM will disclose to learners the relevant financial relationships for those in control of CME content prior to the educational activity or disclose that there were no relevant financial relationships. Information will be provided through print and verbal disclosures.

AANEM Annual Meeting Refund Policy
The association dedicates a significant amount of time and expense to deliver a great annual meeting each year. While we hope everyone who registers for the annual meeting will be able to attend, we understand that circumstances may sometimes prevent this from happening. AANEM has established the following policy for those who request a refund.

Refund requests received prior to 60 days from the start of the meeting will be refunded at 100%.

Refund requests received 60 days to 14 days from the start of the meeting will be subject to a $100 cancellation fee and any remaining amount will be refunded.

Refund requests received after 14 days from the start of the meeting will be subject to a $150 cancellation fee and any remaining amount will be credited toward future AANEM purchases (credit expires 2 years after the first day of the annual meeting). Registration fees will not be refunded after the start of late registration.*

AANEM CME Programming
It is the policy of the AANEM to ensure balance, independence, objectivity and scientific rigor in all of its educational activities. This program is for scientific and educational purposes only and will not, directly or indirectly, promote the interests of any commercial interest. All CME sessions that are offered as part of the official AANEM Annual Meeting program are determined solely by the AANEM Annual Meeting planning committees and approved by the AANEM Board. Planning committees identify professional practice gaps, choose topics, identify session chairs for each session, and determine the educational format. Material presented at the sessions cannot contain any advertising, corporate logo, trade name, or product group message. All scientific research referred to, reported, or used in support of justification of a patient care recommendation will conform to generally accepted standards of experimental design, data collection, and analysis. Speakers are requested to provide a balanced view of therapeutic options, using generic names in presentations to contribute to impartiality. If content includes trade name, speakers are instructed to incorporate the trade names from several companies.

Specific disclosure information for all speakers, planning committee members, and course chairs participating in the 2022 AANEM Annual Meeting is provided in the Disclosure Index at the registration desk or online at www.aanem.org/disclosures.

Industry Forums
Industry Forums are commercially supported educational activities held in conjunction with the AANEM Annual Meeting. These sessions are not part of the AANEM’s official annual meeting program and are planned by an outside company or party. These sessions are clearly labeled as Industry Forums to allow participants to be fully aware of any bias in the presentations. Seating at sessions is limited, and food is provided by the AANEM to Industry Forum attendees on a first come, first-served basis.
Abbreviations

**AANEM:** American Association of Neuromuscular & Electrodiagnostic Medicine

**AAV:** Adeno-Associated Virus

**ABEM:** American Board of Electrodiagnostic Medicine

**ABPN:** American Board of Psychiatry and Neurology

**ACEM:** Accreditation Council for Continuing Medical Education

**ACGME:** Accreditation Council for Graduate Medical Education

**ALS:** Amyotrophic Lateral Sclerosis

**AMA PRA Category 1 Credits™:** American Medical Association Physician's Recognition Award Category 1 Credits

**APP:** Advanced Practice Provider

**CEU:** Continued Educational Units

**CIDP:** Chronic Inflammatory Demyelinating Polyradiculoneuropathy

**CMAP:** Compound Muscle Action Potential

**CME:** Continued Medical Education

**CNE:** Concentric Needle Electrodes

**CNS:** Central Nervous System

**CTS:** Carpal Tunnel Syndrome

**DMD:** Duchenne Muscular Dystrophy

**EAN:** European Academy of Neurology

**EDB:** Extensor Digitorum Brevis

**EDX:** Electrodiagnostic

**EHR:** Electronic Health Record

**EMG:** Electromyography

**GBS:** Guillain-Barré Syndrome

**ICU:** Intensive Care Unit

**LAC:** Lateral Antebrachial Cutaneous Nerve

**LGMD:** Limb Girdle Muscular Dystrophy

**MAC:** Medial Antebrachial Cutaneous

**MAG:** Myelin-Associated Glycoprotein

**MG:** Myasthenia Gravis

**MGFA:** Myasthenia Gravis Foundation of America

**MMN:** Multifocal Motor Neuropathy

**MRI:** Magnetic Resonance Imaging

**MSK:** Musculoskeletal

**MUAP:** Motor Unit Action Potential

**MUP:** Motor Unit Potential

**NCS/NCSs:** Nerve Conduction Study/Studies

**NGS:** Next Generation Sequencing

**NM:** Neuromuscular

**NMD/NMDs:** Neuromuscular Disorder(s)

**NMJ:** Neuromuscular Junction

**P&O:** Prosthetic and Orthotic

**PIN:** Posterior Interosseous Nerve

**PM&R:** Physical Medicine & Rehabilitation

**PNS:** Peripheral Nerve Society

**POEMS:** Polyneuropathy, Organomegaly, Endocrinopathy, Monoclonal Gammopathy, and Skin Changes Syndrome

**POTS:** Postural Orthostatic Tachycardia Syndrome

**RNS:** Repetitive Nerve Stimulation

**SFEMG:** Single-Fiber Electromyography

**SMA:** Spinal Muscular Atrophy

**SMN2:** Survival of Motor Neuron 2 Gene

**SNAP:** Sensory Nerve Action Potential

**TPP:** Training Program Partnership

**TTS:** Tarsal Tunnel Syndrome

**UCNS:** United Council for Neurologic Subspecialties

**US:** Ultrasound
The Best Source for NM, MSK, and EDX Training Resources
Enroll Your Department in the AANEM Training Program Partnership (TPP)

Programs in PM&R, neurology, and other specialties can access educational materials on a variety of topics including EMG, NCS, US, and genetics.

**Extensive**
Trainees learn from 42 case reports, 13 journal case reports, 20 case study articles, 21 editor’s choice journal articles, 44 journal reviews, 30 lectures and presentations, 39 monographs, 11 sets of practice questions, 105 course books, 143 podcasts, 9 guideline documents, 6 ethics vignettes, 2 practice self-assessment exams w/answer reviews, an EMG/NCS self-study curriculum, and a suggested reference list.

**Affordable**
For only $253 per department, each academic year, the department can enroll all of its residents and fellows into TPP. There is no limit on the number of enrolled trainees.

**Flexible**
With AANEM’s online TPP portal, program directors and coordinators can manage their TPP account throughout the year, and monitor their trainees’ progress. They also have access to trainer-only materials that can help meet their training objectives, including 9 oral exam cases.

**Additional Benefits**
- Free individual AANEM membership for all enrolled trainees.
- Free Spring Virtual Conference registration for all enrolled trainees.
- In-person AANEM Annual Meeting registration discounts of $265 per trainee and $455 for one program director within the department.
Training Program Partnership Fact Sheet

• TPP is an arrangement between AANEM and your institution’s neurology, PM&R, or other department. After enrolling your department, all physicians-in-training within the department receive full benefits of TPP and an individual AANEM membership.

• AANEM has assembled a large amount of educational materials to support the learning objectives of your department. AANEM provides all of these materials at no cost to TPP participants. As members, physicians-in-training also have access to AANEM’s free and discounted educational resources, the AANEM Career Center, and our member-only forum AANEM Connect.

• Training Program Directors will also find helpful materials including a self-study curriculum addressing the ACGME milestones, a presentation on developing education, AANEM’s Educational Guidelines for Electrodiagnostic Training Programs, and our suggested reference list.

• When a department joins between July 1 and February 28 of the following year, their TPP term will end on June 30 of the current academic year. When a department joins between March 1 and June 30, their TPP term will end on June 30 of the upcoming academic year. All AANEM individual memberships are on a calendar year basis and the free memberships given to TPP participants extend through December 31 of the year in which their department’s TPP term ends.

Visit aanem.org/TPP to begin the enrollment process.
See you in Nashville!