



Penn Medicine

Continuing Medical and
Interprofessional Education

IN-PERSON AND VIRTUAL

PENN NEUROMUSCULAR SYMPOSIUM 2022

CME-ACCREDITED SYMPOSIUM

SATURDAY, JUNE 11, 2022

7:45 AM – 4:15 PM EDT

Arthur H. Rubenstein Auditorium at the
Smilow Center for Translational Research
3400 Civic Center Blvd.
Philadelphia, PA 19104



<https://upenn.cloud-cme.com/neuromuscular2022>



PROGRAM OVERVIEW & TARGET AUDIENCE

In the last few years, there has been dramatic advancement in the diagnostic tools and treatment options available for neuromuscular disorders. While this is a welcome development, it may be challenging for neurologists taking care of patients with neuromuscular disorders to keep up-to-date with all of these advances. The purpose of the *Penn Neuromuscular Symposium* is to provide both a basic approach to patients with these disorders as well as an update on novel therapeutic agents and future directions. The symposium will also explain how to enhance collaboration and knowledge exchange among neurologists and other healthcare professionals taking care of this unique patient population, which will also help facilitate referral to exciting clinical trials here at Penn.



This course has been developed to meet the educational needs of neurologists, other physicians and associated professionals with an interest in neuromuscular medicine.

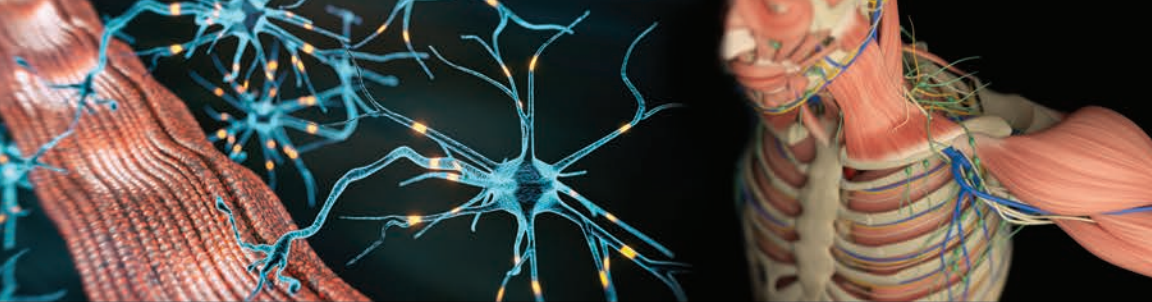
LEARNING OBJECTIVES

Upon conclusion of this educational activity, the participant will be better able to:

- Provide appropriate care to the patient with neuromuscular weakness
- Identify patterns and red flags in peripheral neuropathy
- Describe the difference between axonal and demyelinating neuropathy
- Learn how to perform specialized testing for neuromuscular junction disorders
- Review the electrophysiological appearance of neurogenic vs myopathic units
- Explain the utility of autonomic testing
- Review challenging cases, discuss the differential diagnosis, appropriate testing and treatment
- Review the role of antibody testing in neuromuscular disorders
- Review benefits of genetic testing in patients with neuromuscular disorders
- Review novel therapy for autoimmune neuromuscular disorders
- Explain novel therapy for inherited neuromuscular disorders

HOSTING DEPARTMENT

The *Penn Neuromuscular Symposium 2022* is hosted by the Department of Neurology at Penn Medicine.



ACCREDITATION



JOINTLY ACCREDITED PROVIDER[®]
INTERPROFESSIONAL CONTINUING EDUCATION

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

DESIGNATION OF CREDIT

Physicians: Penn Medicine designates this live activity for a maximum of 6.5 *AMA PRA Category 1 Credits*[™]. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

Physician Assistants: AAPA accepts certificates of participation for educational activities certified for *AMA PRA Category 1 Credit*[™] from organizations accredited by ACCME or a recognized state medical society. PAs may receive a maximum of 6.5 Category 1 credits for completing this activity.

Certificates and Transcripts: After the conference has concluded, all participants will receive a follow-up email with instructions and a link with instructions on how to claim their credit. Once participants submit the request for credit, the earned credits will be available for viewing on your transcript or available for printing at <https://upenn.cloud-cme.com>. Please note that the individual certificate will not be mailed.

LIVE AND VIRTUAL PRESENTATIONS

Penn Neuromuscular Symposium 2022 will be held Saturday, June 11, 2022 by in-person or live-stream (virtual) attendance. The live and virtual presentations will follow the scheduled agenda in real time (EDT).

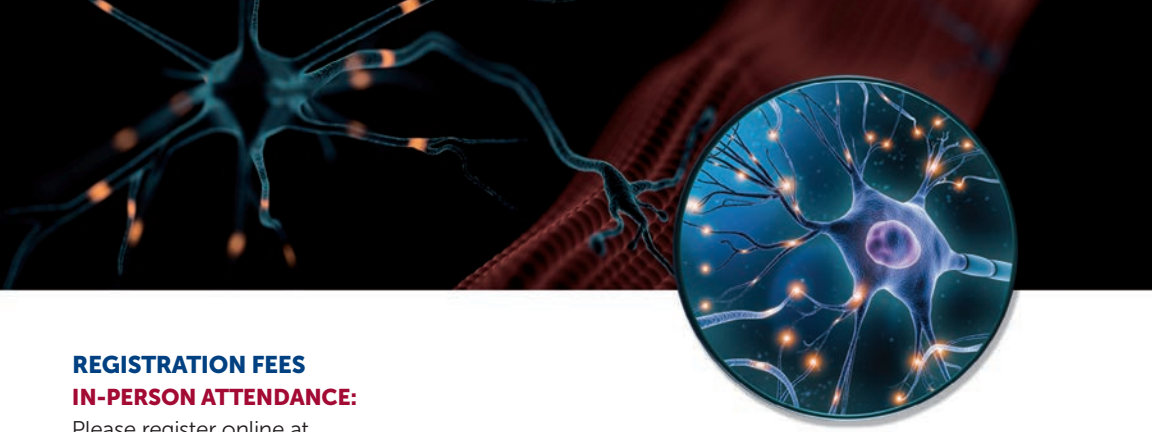
TO ATTEND IN-PERSON:

Meeting Location

Penn Neuromuscular Symposium 2022 will take place in the Arthur H. Rubenstein Auditorium at the Smilow Center for Translational Research, 3400 Civic Center Blvd., Philadelphia, PA 19104

TO ATTEND BY LIVE-STREAM (VIRTUAL):

Attendees who are registered to attend virtually will receive an email including the link to join the symposium 48 hours in advance. All virtual attendees will be required to sign into the meeting using your first name, last name and email address in order to be marked as attended and receive credit.



REGISTRATION FEES

IN-PERSON ATTENDANCE:

Please register online at

<https://upenn.cloud-cme.com/neuromuscular2022>.

The fees to attend in-person are as follows: \$125 for physicians and industry attendees, \$75 for nurse practitioners, physician assistants and other healthcare professionals.

There is no fee for residents, fellows, students and Penn Medicine Neurology employees, faculty and staff to attend.

All pre-registered, in-person attendees will receive access to the conference, attendee booklet, continental breakfast, lunch and breaks. Registration also includes access to view the presentations online for one year. Due to the COVID-19 pandemic, walk-ins are discouraged. Please be sure to register in advance.

LIVE-STREAM (VIRTUAL) ATTENDANCE:

Please register online at

<https://upenn.cloud-cme.com/neuromuscular2022>.

The fees to attend virtually are as follows: \$100 for physicians and industry attendees, \$50 for nurse practitioners, physician assistants and other healthcare professionals.

There is no fee for residents, fellows, students and Penn Medicine Neurology employees, faculty and staff to attend.

All pre-registered virtual attendees will receive an email that includes a link with instructions to sign-in and join the virtual conference 48 hours preceding the symposium, as well as the attendee booklet (downloadable PDF). Registration also includes access to view the presentations online for one year.

Need to Register by Mail? Please note: mailed registrations can take up to 5-10 business days before they are received. We are experiencing longer delays receiving mail due to the COVID-19 pandemic. We encourage all attendees to register online. See the registration form for mailing instructions. All registrations will be confirmed by email as long as your registration is received no later than June 10, 2022.

CANCELLATION POLICY

In order to process refunds for course withdrawals, cancellations must be received in writing by May 27, 2022 (subject to a service charge equivalent to 10% of the registration fee, but no less than \$25.00). No refunds will be issued thereafter.

The University reserves the right to cancel or postpone any course due to unforeseen circumstances. In the event of cancellation or postponement, the University will refund registration fees but is not responsible for related costs or expenses to participants, including cancellation fees assessed by hotels, airlines, and travel agencies.



**Directions to Perelman Center for Advanced Medicine/
Smilow Center for Translational Research:**

The Arthur H. Rubenstein Auditorium at the Smilow Center for Translational Research is located on floor C of the Perelman Center for Academic Research, 3400 Civic Center Blvd., Philadelphia, PA. We strongly recommend you use GPS for exact directions to and from your starting point or if you prefer, take public transportation to and from campus, please visit <http://www.upenn.edu/services/transportation> for options.

Parking: On Saturday's ONLY, the Perelman Center for Advanced Medicine garage, 3400 Civic Center Blvd is open to those attending the conference. Parking is \$20 per day. Parking fees will not be validated or reimbursed.

Overnight Accommodation within Walking Distance:

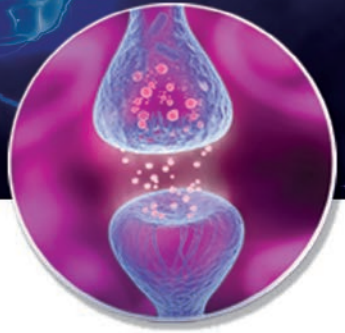
The Study at University City Hotel
20 South 33rd Street
Philadelphia, PA 19104
215-387-1400

There is no room block or discounted rate available and rooms are subject to availability.

SERVICES FOR THE DISABLED If special arrangements are required for an individual with a disability to attend this meeting, please contact the Office of Continuing Medical and Interprofessional Education no later than May 27, 2022, at 215-898-6400.

NONDISCRIMINATION STATEMENT The University of Pennsylvania values diversity and seeks talented students, faculty, and staff from diverse backgrounds. The University of Pennsylvania does not discriminate on the basis of race, sex, sexual orientation, gender identity, religion, color, national or ethnic origin, age, disability, or status as a Vietnam Era Veteran or disabled veteran in the administration of educational policies, programs or activities; admissions policies; scholarship and loan awards; athletic, or other University administered programs or employment. Questions or complaints regarding this policy should be directed to Executive Director, Office of Affirmative Action and Equal Opportunity Programs, 3600 Chestnut Street, Sansom Place East Suite 228, Philadelphia, PA 19104-6106 or 215-898-6993 (Voice) or 215-898-7803 (TDD). www.upenn.edu/affirm-action.

FACULTY



CONFERENCE DIRECTOR

Chafic Karam, MD

Associate Professor of Neurology
Penn Medicine
Philadelphia, PA

GUEST SPEAKER

Vern C. Juel, MD

Professor of Neurology
Division Chief, Neuromuscular Disease
Duke University School of Medicine
Durham, NC

SPEAKERS

Michael Baer, MD

Neuromuscular Medicine Fellow
Penn Medicine
Philadelphia, PA

Shawn J. Bird, MD

Professor of Neurology
Director, Electromyography Laboratory
Penn Medicine
Philadelphia, PA

John F. Brandsema, MD

Assistant Professor of Clinical Neurology
Penn Medicine
Interim Neuromuscular Section Head
Division of Neurology
Children's Hospital of Philadelphia
Philadelphia, PA

Lauren B. Elman, MD

Associate Professor of Neurology
Penn Medicine
Philadelphia, PA

Kelsey Johnson, MS, CGC

Genetic Counselor
University of Pennsylvania
Department of Neurology
Penn Medicine
Philadelphia, PA

Sami Khella, MD

Professor of Clinical Neurology
Penn Medicine
Attending Neurologist
Director, Clinical Electrophysiology
Chief, Department of Neurology
Penn Medicine
Penn Presbyterian Medical Center
Philadelphia, PA

Eric Lancaster, MD, PhD

Assistant Professor of Neurology
Penn Medicine
Philadelphia, PA

Colin Quinn, MD

Assistant Professor of Clinical Neurology
Associate Director, Muscular Dystrophy
Association (MDA) Clinic
Director, CMJC VAMC ALS Clinic
Co-Director, Penn Neuromuscular Center
for Advanced Therapeutics (PNCAT)
Penn Medicine
Philadelphia, PA

Steven S. Scherer, MD, PhD

Ruth Wagner Van Meter and
J. Ray Van Meter Professor of Neurology
Vice Chair for Academic Development
Department of Neurology
Penn Medicine
Philadelphia, PA

DISCLOSURES

Penn Medicine, Office of Continuing Medical and Interprofessional Education, adheres to the *ACCME Standards for Commercial Support*. Faculty disclosure information will be made available in the conference materials and syllabus. Faculty members are also expected to disclose to participants any discussions of off-label and/or investigational uses of pharmaceutical products within their presentations.



AGENDA

- 7:45 AM – 8:20 AM In-Person Registration and Continental Breakfast
8 AM – 8:20 AM Sign into the Virtual Platform (*Virtual Attendees Only*)
8:20 AM – 8:30 AM **Welcome**
Chafic Karam, MD

MORNING SESSION

- 8:30 AM – 9 AM **Approach to Neuromuscular Weakness (Myopathy, NMJ, MND)**
Colin Quinn, MD
- 9 AM – 9:30 AM **Approach to Peripheral Neuropathy**
Chafic Karam, MD
- 9:30 AM – 9:50 AM **Nerve Conduction Studies: Axonal vs Demyelinating Neuropathy**
Shawn Bird, MD
- 9:50 AM – 10:10 AM Break
- 10:10 AM – 10:30 AM **Electromyography Basics**
Shawn Bird, MD
- 10:30 AM – 10:50 AM **Neuromuscular Junction Disorder:
Repetitive Nerve Stimulation and Single Fiber EMG**
Vern C. Juel, MD
- 10:50 AM – 11:05 AM **Autonomic Testing**
Chafic Karam, MD
- 11:05 AM – 11:30 AM **Panel Discussion**
Moderator: Chafic Karam, MD
Panelists: Shawn Bird, MD, Vern C. Juel, MD and Colin Quinn, MD
- 11:30 AM – 12:15 PM Lunch

AFTERNOON SESSION

- 12:15 PM – 1:15 PM **Case Presentations**
Moderator: Chafic Karam, MD
Panelists: Michael Baer, MD, Shawn Bird, MD, Lauren Elman, MD and Steven S. Scherer, MD, PhD
- 1:15 PM – 1:35 PM **Update in Inherited MND Treatment**
Lauren Elman, MD
- 1:35 PM – 1:55 PM **Approach to Genetic Testing in Neuromuscular Disorders**
Kelsey Johnson, MS, CGC
- 1:55 PM – 2:15 PM **Update in Inherited Myopathy Genetic Treatment**
John Brandsema, MD
- 2:15 PM – 2:30 PM Break
- 2:30 PM – 2:50 PM **Update in Autoimmune NMD Treatment**
Sami Khella, MD
- 2:50 PM – 3:10 PM **Antibody Testing in Neuromuscular Disorders**
Eric Lancaster, MD
- 3:10 PM – 3:30 PM **Update in Inherited Neuropathy Treatment**
Steven S. Scherer, MD, PhD
- 3:30 PM – 4:00 PM **Panel Discussion**
Moderator: Chafic Karam, MD
Panelists: Shawn Bird, MD, Vern C. Juel, MD and Colin Quinn, MD
- 4:00 PM – 4:15 PM **Closing Remarks**
Chafic Karam, MD

IN-PERSON AND VIRTUALPENN NEUROMUSCULAR
SYMPOSIUM 2022**SATURDAY, JUNE 11, 2022****7:45 AM – 4:15 PM EDT**

We strongly encourage you to register for this conference online by check or credit card at <https://upenn.cloud-cme.com/neuromuscular2022>

Questions? Contact us at:

penncme@penncme.upenn.edu • Phone: 215-898-6400 or 215-898-8005

Please note we are unable to accept faxed registration forms.

Please print or type

 Name (First)

(Last)

 Academic Degree

 Medical Specialty

 Affiliation (Hospital, Office, or Company)

 Address (Affiliation or Home)

 City

State

Zip

 Phone

Fax

 E-mail
REGISTRATION FEES

(pre-payment is required to be officially registered)

IN-PERSON ATTENDANCE:

- Physicians and industry employees – \$125
- Nurse practitioners, nurses, pharmacists, physician assistants, researchers and other healthcare professionals – \$75
- There is no fee for residents, fellows, students and Penn Medicine Neurology employees, faculty and staff to attend.

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PAYMENT METHOD

- If you are paying by check or credit card, please register online at <https://upenn.cloud-cme.com/neuromuscular2022>
- If you are paying by check, you may mail your completed registration form and check made payable to **The Trustees of the University of Pennsylvania/CME** to:
 - Conference Manager
 - Office of Continuing Medical & Interprofessional Education
 - Academic Programs, Penn Medicine, JMEC, SPE, 6th floor
 - 3400 Civic Center Blvd, Bldg. 421
 - Philadelphia, PA 19104-5162
- Do not include any credit card information on the registration form or share via email.