

AAN

●●●●2021

Virtual Annual Meeting

April 17–April 22



Education Program

**AAN Excellence—
Delivered Unconventionally**

CONNECTING IN SPECTACULAR WAYS

The power of connection is more evident than ever before. The 2021 Annual Meeting will be packed with innovative virtual opportunities for socializing, networking, and entertainment, including an AAN Talent Show and celebrity entertainment!

**Virtual
Group
Lounges**

**Interactive
Experience
Night**

**Fun &
Games
Night**

Stay tuned for more
exciting news at
[**AAN.com/21AM.**](https://aan.com/21AM)

AAN
●●●●●2021
Virtual Annual Meeting

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Prepare for your virtual Annual Meeting experience:

1. Register at AAN.com/21AM
2. Block your calendar for April 17-22 to be sure to participate in the live Q&A sessions
3. Share what you're excited about using [#AANAM](https://twitter.com/AANAM)

Remember: Your registration includes access to sessions for 30 days after the conference.



The information and preliminary program details presented in this booklet are accurate as of January 15, 2021, and subject to change. Schedule is listed in Eastern Time.

Please visit AAN.com/21AM for the most up-to-date information and more programming details.

AAN EXCELLENCE—DELIVERED UNCONVENTIONALLY



The most exciting aspect of the 2021 Annual Meeting going fully virtual is the chance to bring the comprehensive meeting experience you've come to expect straight to you without the worry of travel.

We have top experts poised to deliver an amazing education program covering almost every neurologic topic you can imagine. Furthermore, with the new virtual format, we're able to deliver courses in shorter time frames while preserving your ability to interact with and ask questions of great neurologists from around the world.

You can learn more about the education program and other preliminary offerings on the following pages. I look forward to connecting and seeing my community of neurology friends virtually, and I hope to see you among them this April!

Joseph I. Sirven, MD, FAAN

*Chair, Conference Subcommittee
Vice Chair, Education Committee*

2021 AAN ANNUAL MEETING reimagined

Education Program

The AAN Annual Meeting is **exciting and diverse**, with its seemingly endless choices and learning formats of **top-tier education** in nearly every topic and subspecialty imaginable. Find all the **valuable CME** you'll need for the year in one place.



Visit [AAN.com/2021Program](https://aan.com/2021Program) for the most up-to-date program and to apply filters to your search. You can sort and filter the full program by:

Program Type: See [page 6](#) to learn more about what types of programs are available at the Annual Meeting.

Program Track: Specially curated lineups to help you focus on the sessions that are most relevant and interesting to you based on your profession. The eight program tracks are: Academic Medicine, Advanced

Practice Provider, Business of Neurology, Career Essentials, COVID-19, Futures in Neurological Research, Neurohospitalist, and Spanish-language.

Program Topic: Over 20 topics covering the gamut of neurology subspecialties. The preliminary program in the following pages is organized by topic.

Experiential Learning Areas

Experiential Learning Areas (ELAs) are **short, engaging talks** and presentations designed to **help you advance intellectually, personally, and professionally**. Explore **six areas** that will **spark your imagination**, help you learn in fresh ways, and offer CME for some talks.



HeadTalks

Experience unconventional education platforms.



Pioneering Policy, Practice, and Performance: Staying Ahead of Change

Empowering you to improve your practice and increase revenue through innovation.



Careers in Neurology

Explore, navigate, and advance your career through a variety of talks for multiple career stages.



Academic Neurology

A lineup designed for everyone at every level of academia.



Advancing Leadership in Neurology

Learn about core leadership competencies and equity, diversity, and inclusion topics.



Live Well

Taking care of your patients starts with taking care of you!

REGISTRATION



There are two ways to experience the AAN Annual Meeting.

Virtual Registration

Your Virtual Registration for the Annual Meeting includes access to live streaming and recorded sessions for **30 days after the conference**. This exceptional value includes:



All the CME You Need for the Year

80+ expert-led education courses

2,000+ scientific abstracts presented in multiple formats

7 Plenary Sessions featuring leaders in neurology

Experiential Learning Area Talks

Access to program syllabi and slides



Networking Opportunities

Tailored networking events

Entertainment



Access to AAN and Industry Resources

AAN products and services

Virtual Exhibit Hall

Industry Therapeutic Updates

Virtual Gold Registration



On Demand

Upgrade to Virtual Gold Registration for the best value with extended access and additional courses through **March 31, 2022**, with Annual Meeting

On Demand. In addition to all of the benefits of Virtual Registration, you'll retain access to all meeting syllabi and virtual session recordings, CME, and receive **exclusive access to more than 25 bonus sessions and presentations** to round out this comprehensive digital reference library accessible anytime, anywhere. See [page 59](#) for the list of programs included in Virtual Gold Registration.

Register **now**



Online
AAN.com/21AM



Phone
(800) 676-4226 (US/Canada)
(415) 979-2283 (International)

Deadline

Register by
March 25, 2021,
for the best rates!

Early Registration Rates



Member Type	Virtual	Virtual Gold
Student Member	\$0	\$79
Honorary or Senior Member	\$0	\$239
Junior or Intern Member	\$210	\$289
Non-physician Member*	\$375	\$544
Neurologist or Physician Affiliate Member	\$525	\$764
Nonmember	\$750	\$1,129

**Non-physician member includes Business Administrator, Researcher, and Advanced Practice Provider member types.*

All sales for online programs including virtual conferences are final, nonrefundable, and nontransferable. Registration includes access to programs and materials on demand after the end of the conference.



Become an AAN member today for registration discounts. Visit **AAN.com/membership**.



Protect yourself from fraudulent companies. **Convention Management Resources (CMR)** is the official registration partner of the AAN.

Kenes Group is the official virtual platform provider of the 2021 Annual Meeting.

PROGRAM GLOSSARY

The Annual Meeting offers six days of programming for neurologists and neuroscience professionals at every career stage. Use this glossary to get information at-a-glance to help you quickly find items of interest to you.

Programs All Annual Meeting programs are color-coded. Many programs are indicated by one of the letter codes below, followed by sequential numbers, to help you spot a specific program quickly.

C = Course An education program using one or more teaching methods, including didactic, interactive, and case-based.

N = Neuroscience in the Clinic Session A session featuring a mix of scientists and clinicians actively engaged in lively case discussion to integrate scientific research with clinical application. Scientists will provide background on a case and clinicians will apply the case to a patient. Sessions will feature abstract presentations related to the topic and end with a panel discussion.

S = Scientific Session A group of abstracts covering a similar topic presented in an oral format. Presentations are eight minutes in length with four minutes for question and answer with the author.

ELA = Experiential Learning Area An interactive way of learning that will engage you intellectually, emotionally, and socially and offer you fresh ideas to help you personally and professionally.

Plenary Session A premier session highlighting the latest advances in neuroscience presented by some of the most cutting-edge and well-known thought leaders in the field of neurology.

Symbols & Icons

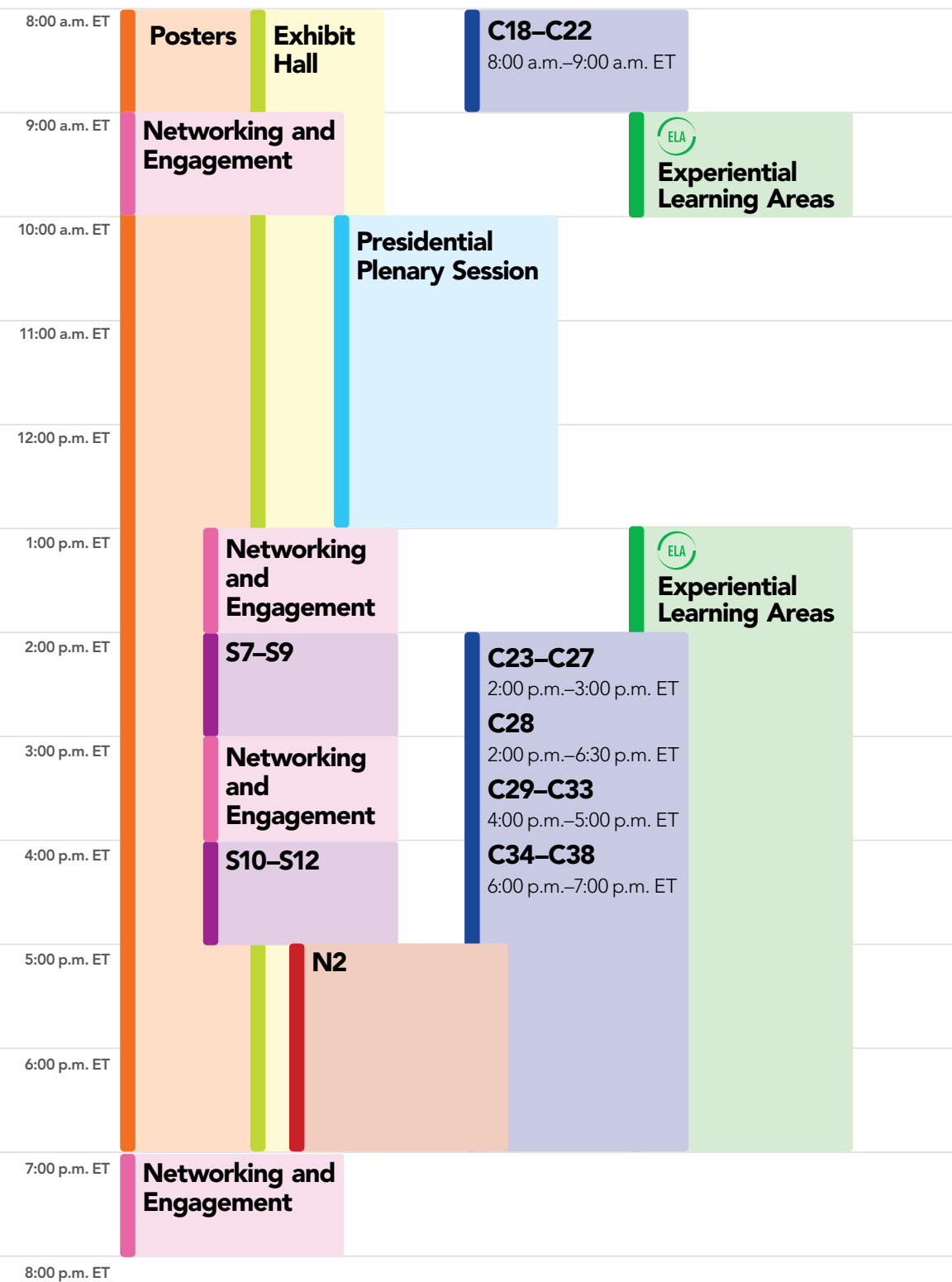
 = New Offering in 2021

 = CME Credits Offered

For the **best Annual Meeting experience**, we highly recommend joining during the scheduled time to participate in Q&As, networking, and other interactive components of the conference. Session recordings will be available for 30 days after the end of the conference should you be unable to attend a session. **Upgrade to Virtual Gold Registration for extended access through March 31, 2022.** Programming schedule is in Eastern Time, which offers the most flexibility for US and international attendees.

MEETING-AT-A-GLANCE

SUN April 18

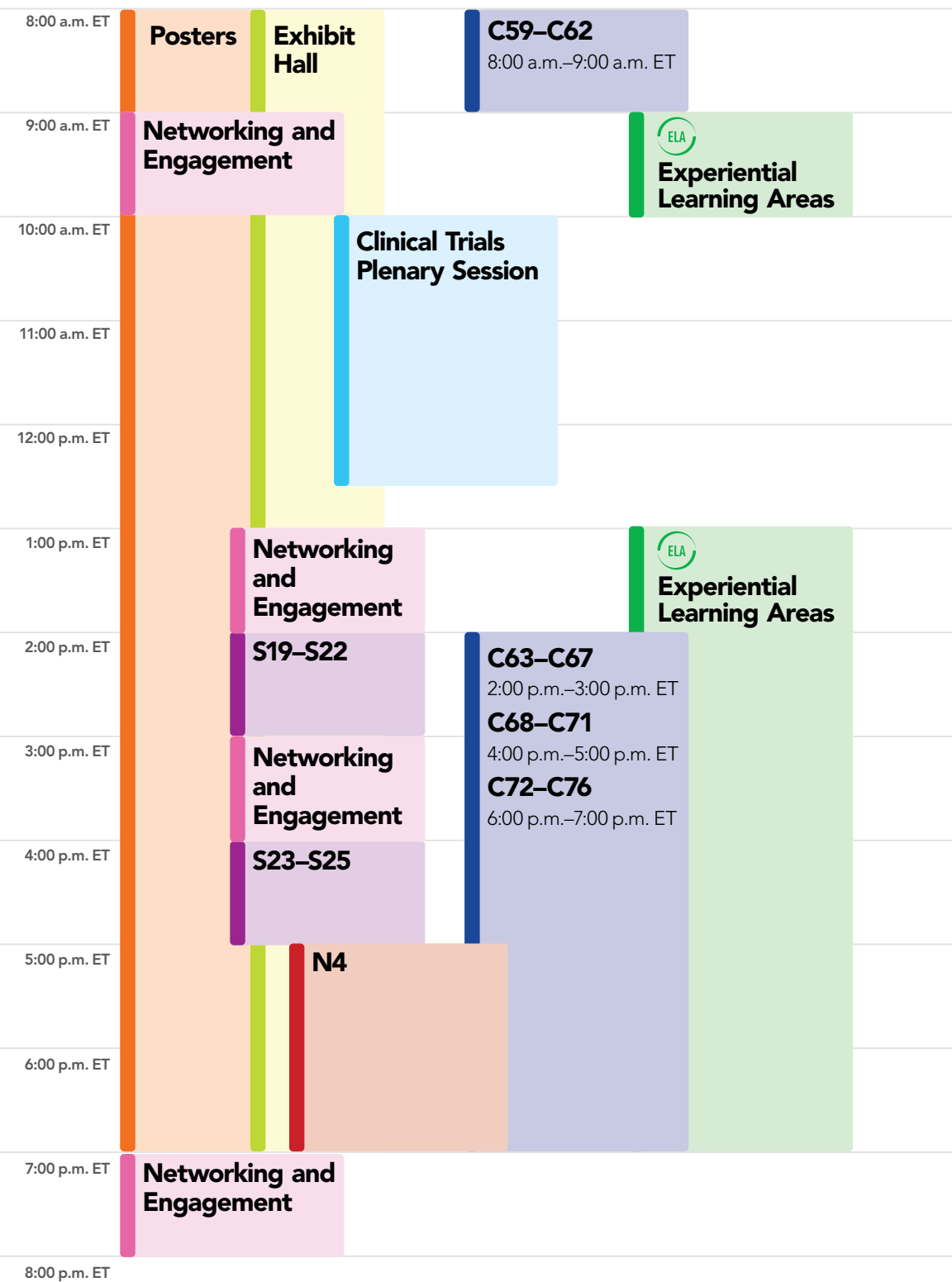


MON April 19

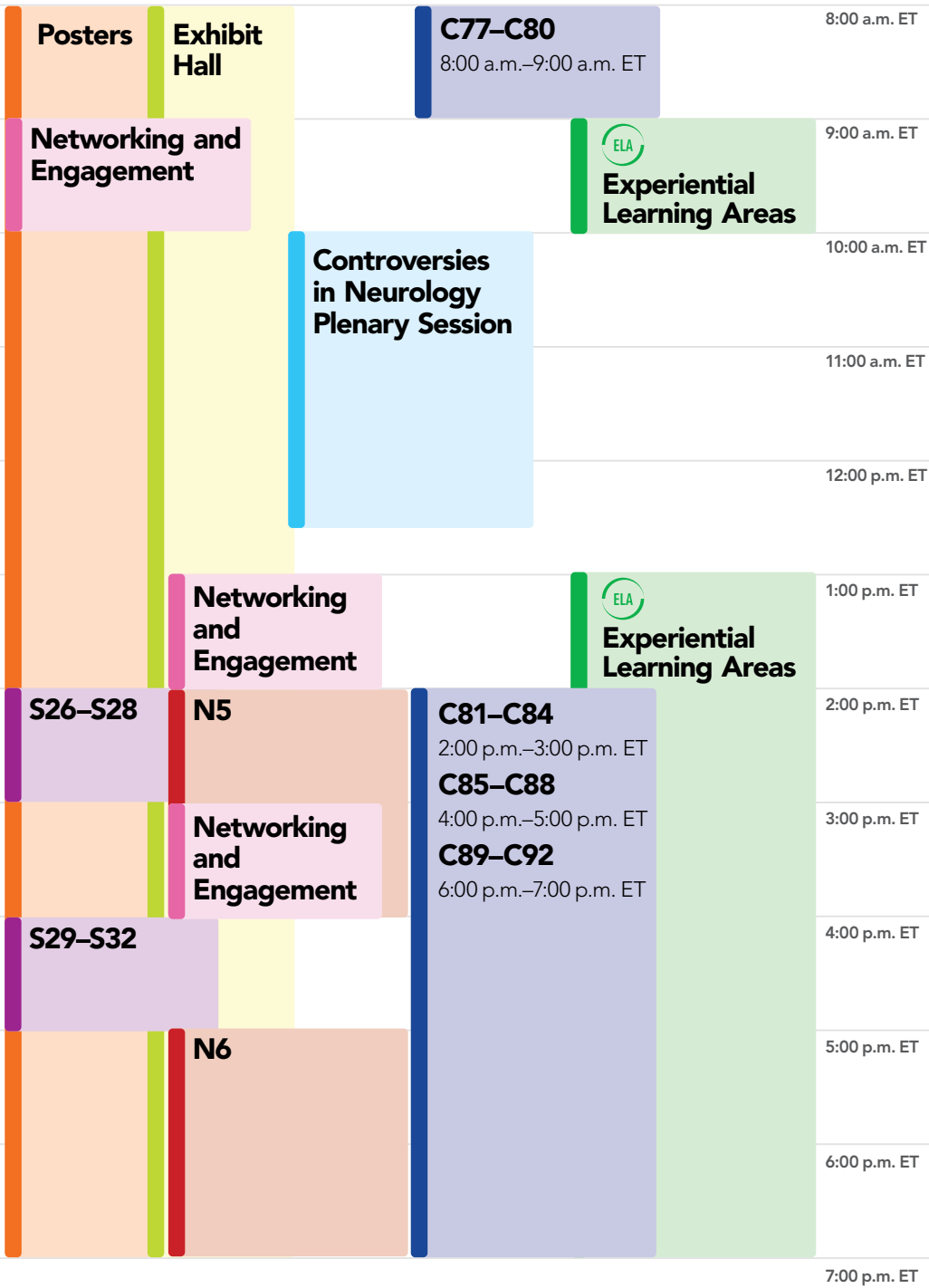


MEETING-AT-A-GLANCE

TUE April 20



WED April 21



MEETING-AT-A-GLANCE

THU April 22

8:00 a.m. ET

9:00 a.m. ET

**Networking and
Engagement**

10:00 a.m. ET

**Neurology
Year in Review
Plenary Session**

11:00 a.m. ET

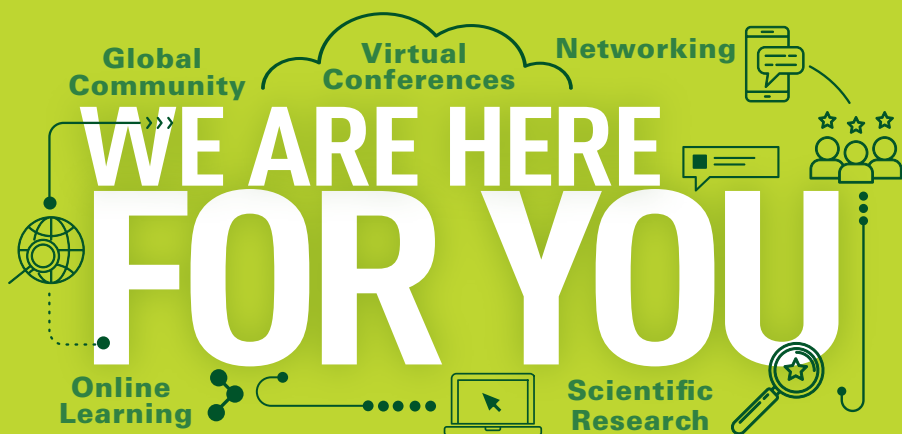
12:00 p.m. ET

1:00 p.m. ET

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2. Block your calendar for April 17-22 to be sure to participate in the live Q&A sessions
3. Share what you're excited about using **#AANAM**

Remember: Your registration includes access to sessions for 30 days after the conference.



Count on the AAN to provide **top-quality education, events, networking, and other programs and opportunities**—in new virtual formats that offer greater flexibility and easy access to your worldwide neurology community. Join or renew today!

[AAN.COM/MEMBERSHIP](https://aan.com/membership)

 AMERICAN ACADEMY OF
NEUROLOGY®

VIRTUAL PROGRAMS BY TOPIC

Your **Virtual Registration** for the Annual Meeting includes access to live streaming and recorded sessions for **30 days after** the conference. Program slides and syllabi will be available until March 31, 2022. Following is more information about the programs available with your registration, organized by topic.

The program is subject to change. Visit [AAN.com/2021Program](https://aan.com/2021Program) for the most up-to-date information and more detail on each program.

Aging, Dementia, Cognitive, and Behavioral Neurology

Saturday, April 17

9:00 a.m.–10:00 a.m. ET



C3: Assessment of Rapidly Progressive Dementias

Director(s): Faculty

Description: Rapidly progressive dementia (RPD) can be challenging to diagnose. The differential diagnosis is broad and includes many potentially reversible conditions. As many RPD are treatable if addressed early, quick diagnosis is important. Through presentation of common and challenging cases, faculty will review the differential diagnosis of RPD, the approach, and management strategies.

Sunday, April 18

2:00 p.m.–3:00 p.m. ET



C23: Frontotemporal Dementias

Director(s): Elizabeth Finger, MD, FAAN

Description: Frontotemporal dementias are a group of disorders featuring progressive decline in behavior or language, with neurodegeneration of the frontal or temporal lobes. Faculty will highlight current diagnostic and management approaches for the most common subtypes of frontotemporal dementia: behavioral variant FTD, nonfluent primary progressive aphasia, and semantic variant primary progressive aphasia. Recent developments in neuropsychology, neuroimaging, genetics, and biomarkers related to FTD will be highlighted.

Monday, April 19

2:00 p.m.–3:00 p.m. ET



S14: Behavioral and Cognitive Neurology

4:00 p.m.–5:00 p.m. ET



C50: Alzheimer's Disease

Director(s): Liana Apostolova, MD, FAAN

Description: In recent years advances in the Alzheimer's biomarker field have greatly impacted the diagnostic criteria for Alzheimer's disease. This program will cover the current knowledge and recommended approaches to diagnose Alzheimer's disease. Both typical and atypical Alzheimer's disease presentations will be covered.

5:00 p.m.–5:20 p.m. ET



Live Well

How Your Social Life Might Be Helping (or Harming) Your Brain

Speaker(s): Joel Armando Salinas, MD

Description: Evidence implicating social and behavioral influences, such as social isolation, with higher risk of stroke, cognitive dysfunction, and accumulation of Alzheimer's disease pathology suggests that healthy cognitive aging may be heavily influenced by social relationships, a largely unexplained modifiable risk factor that represents the combined effect of distinct functional (social support) and structural (social network) elements. We will examine the existing evidence supporting this association and discuss challenges and opportunities in its study.

Tuesday, April 20

2:00 p.m.–3:00 p.m. ET



S19: Aging and Dementia

VIRTUAL PROGRAMS BY TOPIC

6:00 p.m.–7:00 p.m. ET



C72: Lewy Body Dementias

Director(s): Melissa Armstrong, MD, MSc, FAAN

Description: Lewy body dementia—including both dementia with Lewy bodies and Parkinson disease dementia—is the second most common degenerative dementia behind Alzheimer disease. However, dementia with Lewy bodies can be difficult to diagnose and it is estimated that 1 in 3 cases are missed. This course will focus primarily on dementia with Lewy bodies. Faculty will review current diagnostic criteria, including prodromal criteria published in 2020. Faculty will also highlight common prodromal syndromes to aid in recognition. An update on practical management and pharmacological and non-pharmacological strategies will be provided. Recent research on disease progression will also be reviewed.

Wednesday, April 21

3:00 p.m.–3:20 p.m. ET



Live Well

Cognitive Load and Self Compassion

Speaker(s): Amy Grinberg

Description: This talk is designed to engage you intellectually, emotionally, and socially. Programming full of fresh ideas is still being finalized, so check back online for the most up-to-date information.

Autoimmune Neurology

Sunday, April 18

2:00 p.m.–3:00 p.m. ET



S7: Autoimmune Neurology 1

Monday, April 19

6:00 p.m.–7:00 p.m. ET



C55: Autoimmune Neurology

Director(s): Stacey Clardy, MD, PhD, FAAN

Description: The field of autoimmune neurology continues to grow and change rapidly: many new diseases have been discovered, providing possibilities to treat patients previously considered untreatable. Faculty will describe the full range of neural autoantibodies and their relevant clinical disorders (neurological, psychiatric, and oncological). The course will

include clinical pearls aiding the diagnosis of autoimmune and paraneoplastic neurologic disorders, also covering differential diagnosis, investigations, and treatment. Areas of focus will include synaptic antibody syndromes and autoimmune epilepsy.

Wednesday, April 21

4:00 p.m.–5:00 p.m. ET



S29: Autoimmune Neurology 2

Cerebrovascular Disease and Interventional Neurology

Saturday, April 17

12:00 p.m.–1:00 p.m. ET



C6: Management of Hemorrhagic Stroke

Director(s): Pierre Fayad, MD, FAAN, FAHA

Description: This program will update attendees on crucial management questions for intracerebral hemorrhage: minimizing intracranial bleeding and hematoma expansion; management of blood pressure; and appropriate use of prophylactic medications (e.g., seizure medications, chemoprophylaxis for deep venous thrombosis). Emphasis will be on accepted standards of care and new updates.

4:00 p.m.–5:00 p.m. ET



S6: Cerebrovascular Disease and Interventional Neurology 1

Sunday, April 18

4:00 p.m.–5:00 p.m. ET



C29: Management of Ischemic Stroke

Director(s): Joshua Z. Willey, MD

Description: Through case-based presentations and overview of the currently based evidence, faculty will provide the current and emerging applications of treatments and management of ischemic stroke.

6:00 p.m.–7:00 p.m. ET



C36: Neurologic Intensive Care 2

Director(s): Christopher Lawrence Kramer, MD

See complete description on [page 41](#).

Tuesday, April 20

8:00 a.m.–9:00 a.m. ET



C59: Endovascular Therapies for Ischemic and Hemorrhagic Stroke

Director(s): Johanna Therese Fifi, MD, FAAN

Description: Stroke management has substantially changed since the publication of numerous randomized clinical trials proving the efficacy of mechanical thrombectomy (MT) for treatment of acute ischemic stroke cause by large vessel occlusion (LVO). Through presentations and case based discussions, faculty will facilitate discussion of indications for thrombectomy, how neuroimaging may help select patients for AIS therapies, and update the use of endovascular interventions. There will be in-depth discussion on cutting edge neuroimaging and artificial intelligence for stroke, and a focus on the new evidence for a time window for MT for LVO up to 24 hours using advanced neuroimaging. Faculty will also discuss the reorganization of systems of care to achieve timely access to thrombectomy evaluation and care.

2:00 p.m.–3:00 p.m. ET



S22: Cerebrovascular Disease and Interventional Neurology 2

Wednesday, April 21

4:00 p.m.–5:00 p.m. ET



S30: Cerebrovascular Disease and Interventional Neurology 3

5:00 p.m.–7:00 p.m. ET



N6: Neuroscience in the Clinic: Multimodal Tools for Cardiac Arrest Neuroprognostication

Director(s): Holly E. Hinson, MD, MCR, FAAN
 Martinson K. Arnan, MD

Description: The science of prognosticating neurologic outcome following cardiac arrest in the era of targeted temperature management has been fast-moving over the past few years. This session features case vignettes and expert clinical commentary on how best to utilize biomarkers, imaging, and emerging technologies when making outcome predictions.

Top abstracts related to post-cardiac arrest care and prognostication will be presented, with opportunities for panel discussion.

Child Neurology and Developmental Neurology

Saturday, April 17

4:00 p.m.–5:00 p.m. ET



S4: Child Neurology and Developmental Neurology

Sunday, April 18

4:00 p.m.–5:00 p.m. ET



C33: Update in Child Neurology 1

Director(s): Kara Stuart Lewis, MD, FAAN

Description: This talk is designed to engage you intellectually, emotionally, and socially. Programming full of fresh ideas is still being finalized, so check back online for the most up-to-date information. *This program complements Update in Child Neurology 2, but covers independent topics. Update in Child Neurology 2 is only available with Virtual Gold registration and is an Annual Meeting On Demand Exclusive program.*

Tuesday, April 20

8:00 a.m.–9:00 a.m. ET



C60: Child Neurology: A Case-based Approach

Director(s): Rana R. Said, MD, FAAN

Description: The field of child neurology is changing rapidly. Faculty will provide an evidence-based update on recent advances in our understanding of the pathophysiology, diagnostic strategies, and therapies for various neurologic disorders in children, using cases to facilitate discussion. Discussion will focus on neuromuscular disorders, stroke, and epilepsy.

VIRTUAL PROGRAMS BY TOPIC

Epilepsy/Clinical Neurophysiology (EEG)

Saturday, April 17

9:00 a.m.–10:00 a.m. ET



C5: Clinical Epilepsy 1: Basics

Director(s): Amy Z. Crepeau, MD

Description: The diagnosis of epilepsy can be challenging to make in the outpatient clinical setting. When a patient presents with spells, careful consideration needs to be given to the clinical history, semiology, and risk factors to determine the likelihood these represent seizures. When a patient presents with a first time, unprovoked seizure, the most significant questions that arise are the likelihood of seizure recurrence and when antiseizure medications need to be started. This course will address the initial approach to a patient presenting with seizures a spells. Using a case-based, interactive format, we will review how to make the diagnosis of epilepsy, when to start ASMs, and which medications to choose, including specific populations. *This program complements Clinical Epilepsy 2: Advanced, but covers independent topics. Clinical Epilepsy 2: Advanced is only available with Virtual Gold registration and is an Annual Meeting On Demand Exclusive program.*

2:00 p.m.–3:00 p.m. ET



S1: Epilepsy and Clinical Neurophysiology (EEG) 1

Sunday, April 18

2:00 p.m.–3:00 p.m. ET



C24: Update in Epilepsy

Director(s): Joseph I. Sirven, MD, FAAN

Description: According to the CDC, almost 3.7 million individuals are living with epilepsy in the US. Given this record high number, the number of epilepsy therapeutic options continues to multiply at a dizzying pace. There are both new medications and devices available for diagnosis and treatment of both acute and chronic seizures, including a wireless dry scalp electrode EEG recording system, cannabidiol, novel delivery systems for acute repetitive seizures, numerous wearables, and deep brain stimulation to name a few. In the OR, stereo EEG usage has risen exponentially. Moreover, there is a growing

recognition of autoimmune epilepsy and its requisite unique immunomodulatory approach to management distinct from current antiepileptic drugs and surgical options. This course will provide the latest updates in epilepsy and seizure diagnosis and epilepsy therapies. Faculty will use both common and challenging illustrative cases and provide their individual algorithms for selecting medications, surgery, and devices for both acute and chronic epilepsy. The end result is providing both the general neurologist and the epileptologist with an update of what is new in epilepsy and how and when to incorporate these updates into daily practice.

4:00 p.m.–5:00 p.m. ET



S10: Epilepsy and Clinical Neurophysiology (EEG) 2

Monday, April 19

4:00 p.m.–5:00 p.m. ET



C51: Clinical EEG 1

Director(s): Katherine H. Noe, MD, PhD, FAAN

Description: This program will provide an overview of the foundations of interpretation of the normal EEG in adults. The presentation will emphasize aspects that are crucial to reading EEGs in clinical practice. Specific topics will be normal background patterns of wakefulness and sleep, normal variants, common artifacts, and frequently encountered sources of misinterpretation of EEG. *This program complements Clinical EEG 2, but covers independent topics. Clinical EEG 2 is only available with Virtual Gold registration and is an Annual Meeting On Demand Exclusive program.*

Tuesday, April 20

6:00 p.m.–7:00 p.m. ET



C73: Status Epilepticus and Critical Care EEG Monitoring

Director(s): Lawrence J. Hirsch, MD, FAAN

Description: Faculty will first provide an update on continuous EEG monitoring (CEEG) in critically ill patients: who to monitor, for how long, how to manage the findings including equivocal ones, and the utility and pitfalls of CEEG, including quantitative EEG. Next, there will be an update on status epilepticus—convulsive and nonconvulsive—and how to best manage it, from initial treatment to managing prolonged

refractory status epilepticus. Faculty will concentrate on recent advances and information of the greatest utility for practical clinical care in 2021.

General Neurology

Saturday, April 17

7:00 a.m.–6:00 p.m. ET

Poster Session

8:00 a.m.–5:00 p.m. ET



C2: Neurology Continuing Certification Prep Course

Director(s): Joseph E. Safdieh, MD, FAAN

Description: This program is designed to assist neurologists in preparing for the ABPN Continuing Certification exam. The exam is an important part of the 10-year Continuing Certification cycle and is designed to ensure that practicing neurologists possess the core foundational knowledge to care for patients. This prep course will review the core topics covered on the examination, based on the ABPN outline. These topics span the spectrum of clinical neurology. Faculty have been carefully selected to ensure that they have both content expertise as well as a knowledge of the scope of coverage on the examination. Using an audience response system, each speaker will frame the discussion of the assigned topic around examination-style questions with specific coverage of the clinical features, diagnostic methods, and treatment of each of the covered clinical entities. **NOTE: This course will only be available live during the date and time listed above. This course will not be available for any on demand viewing.**

9:00 a.m.–10:00 a.m. ET



C4: Neuroimaging for the General Neurologist: Brain

Director(s): John Leever, MD

Description: Neuroimaging is critical in both the treatment of ischemic stroke and epilepsy. Representative cases will be presented to familiarize the audience with the key imaging features of various stroke producing pathologies such as atherosclerotic vascular disease (including vulnerable plaque features), dissection, moyamoya, carotid web, vasculitis, diffuse anoxic

injury, venous thrombosis, and hypoperfusion injury. In the second portion of the program, we will review the diagnostic imaging features of common epileptogenic lesions such as mesial temporal sclerosis, focal cortical dysplasia and other migrational anomalies, encephaloceles, encephalitis, and common epileptogenic tumors such as DNET and ganglioglioma.

9:00 a.m.–9:30 a.m. ET



Careers in Neurology

So Your Paper Didn't Get Accepted, Now What?

Speaker(s): Roy E. Strowd, III, MD, FAAN

Description: We've all read those words, "We regret to inform you that..." and in the current publication climate manuscript rejection is more the norm than the exception. In this talk, attendees will review common reasons for manuscript rejection, pitfalls and pearls for successful submission or resubmission, and concrete steps to take after receiving a notification of rejection to disseminate your work.

10:00 a.m.–12:00 p.m. ET



Frontiers in Neuroscience Plenary Session

Speaker(s): Ivan Soltesz, PhD
Edward Chang, MD
Antonina Roll-Mecak, PhD
Mark H. Tuszynski, MD, PhD, FAAN
Andy Shih, PhD

Description: This plenary session features basic and translational research related to clinical issues of importance. Five outstanding speakers provide summaries of their recent research findings and describe the clinical implications of the results.

1:00 p.m.–2:00 p.m. ET



HeadTalks

Neuro-Jeopardy: Telencephalon Twisters

Speaker(s): Veronica E. Santini, MD, MA
Laurice T. Yang, MD, MHA

Description: Looking to take a break from the scientific programs? Want to show what you know? Test your neurologic fortitude against top neurologists or simply sit back and watch the action from the comfort of your virtual space with Neuro-Jeopardy: Telencephalon Twisters.

VIRTUAL PROGRAMS BY TOPIC

1:00 p.m.–1:20 p.m. ET



Live Well

Zoom Fatigue

Speaker(s): Belinda A. Savage-Edwards, MD, FAAN

Description: This program will explore the psychological and neuropathophysiology of this increasingly prevalent and completely new fatigue referred to as Zoom fatigue. Research based tips will be offered on making virtual communication less exhaustive, thereby reducing the mental and physical toll that come with it.

1:00 p.m.–1:30 p.m. ET



Careers in Neurology

What Should Applicants Look for in a Program?

Speaker(s): Peter Hannon, MD

Description: This presentation is for medical students and residents to better understand what they should be considering when applying for residency and fellowship. Drawing on years of program director experience in neurology residency and fellowship, the presenters' focus will be on what makes a training program the right fit for an applicant, and not the other way around.

2:00 p.m.–4:00 p.m. ET



N1: Neuroscience in the Clinic: Neurobiological Mediators of Racism on Health Outcomes

Director(s): Jessica Robinson Papp, MD, FAAN
Temitayo Oyegbile, MD, PhD

See complete description on [page 33](#).

2:00 p.m.–2:30 p.m. ET



Academic Neurology

How to Create a Department that Promotes Wellness

Speaker(s): Jennifer Bickel, MD, FAAN

Description: Leaders must make professional well-being an organizational priority. All of us know by now that physician burnout is a rampant problem that negatively impacts our patients' safety and our own right to pursue health and happiness. Too often, well-intended solutions have focused solely on the individual doctor's habits. However, burnout is also the result of

system failures. We will review system-level strategies to reduce burnout, as well as how you, regardless of your role, can influence change.

3:00 p.m.–3:20 p.m. ET



Live Well

Mindfulness-based Stress Reduction

Speaker(s): Ross P. Carne, MD, FRACP

Description: This talk is designed to engage you intellectually, emotionally, and socially. Programming full of fresh ideas is still being finalized, so check back online for the most up-to-date information.

3:00 p.m.–3:30 p.m. ET



Careers in Neurology

#ilooklikeaneuroonc

Speaker(s): Alyx B. Porter, MD, FAAN

Description: Attendees can expect to hear a broad overview regarding a career in neuro-oncology. Dr. Porter will share her personal story regarding how she came to choose this specialty in addition to a brief history of neurology. She will discuss the current landscape of neuro-oncologists in the US and the spectrum of diseases treated. She will also share an intriguing representative case to help stimulate discussion regarding the current state and future of the field.

4:00 p.m.–5:00 p.m. ET



C13: Functional Neurologic Disorders

Director(s): Kathrin LaFaver, MD, FAAN

Description: This session will provide a practical approach to functional neurological disorders, which are commonly encountered in neurological practice. Based on a review of typical case presentations, making the diagnosis, communication with patients, treatment planning, and considerations for follow-up care will be discussed in an interactive format, covering both neurological and neuropsychological perspectives.

4:00 p.m.–4:30 p.m. ET



Academic Neurology

Different Pathways to Becoming a Chair

Speaker(s): Frances E. Jensen, MD, FAAN

Description: It is critical that we have diversity among the country's neurology department

chairs to move the field forward. This panel will discuss essential responsibilities and traits individuals need to address while considering a future as a chair. Topics will include the timing of taking such a leadership position in one's career, advantages of prior leadership roles, and the effect of the position on other individual pursuits such as research or education. We will discuss pathways to success from a variety of prior backgrounds, and draw upon personal experiences of the panelists. The intent is to help those who are considering departmental chair positions to examine how their own narrative can be used to support their success.

5:00 p.m.–7:00 p.m. ET



Hot Topics: Neuro COVID Plenary Session

Description: This session features the latest, cutting-edge translational research related to clinical issues of importance. Four outstanding speakers provide summaries of their recent research findings and describe the clinical implications of the results.

5:00 p.m.–5:35 p.m. ET



HeadTalks

Getting to Know Neurologists Outside of the Office

Speaker(s): Ralph L. Sacco, MD, MS, FAHA, FAAN
 Cynthia L. Comella, MD, FAAN
 Ann H. Tilton, MD, FAAN

Description: Have you ever wanted to learn more about the lifestyles of neurology leaders? This interesting new session will feature homes, hobbies, and interesting talents of a variety of neurologists.

5:00 p.m.–5:20 p.m. ET



Live Well

Wellness Tips for the Busy Neurologist

Speaker(s): Rochelle I. Frank, MD

Description: This talk will emphasize approaches to maintaining wellness that can be accomplished in a brief time and during a busy day. These will include general approaches and specific accessible activities from multiple different areas impacting physical, mental, spiritual, and emotional well-being. The purpose is to immediately apply these tools in everyday practice.

5:00 p.m.–5:30 p.m. ET



Careers in Neurology

Making the Most of Your Fellowship: Setting Yourself Up for Success and Finding Your First Job

Speaker(s): Kathryn S. Nevel, MD

Description: Attendees will learn how to make the most out of fellowship in order to transition smoothly into independent practice as attending physicians. Topics of discussion will include how to develop successful research projects, identifying mentors, practical skills one should focus on during fellowship in order to optimize efficiency as an attending, and searching for your first job out of fellowship—CV writing, interviewing skills, and contract considerations.

6:00 p.m.–6:30 p.m. ET



Academic Neurology

Key Findings from the Neurology Compensation Productivity Survey for Academics

Speaker(s): J. Todd Barnes, MBA

See complete description on [page 45](#).

Sunday, April 18

7:00 a.m.–6:00 p.m. ET

Poster Session

8:00 a.m.–9:00 a.m. ET



C22: Telecommunication and How to Create Effective Virtual Teaching Material

Director(s): Tamara B. Kaplan, MD

See complete description on [page 53](#).

9:00 a.m.–9:20 a.m. ET



Live Well

Family Caring and Parenting

Speaker(s): Amtul Farheen, MD, FAAN

Description: We all know that being physicians and caring for your family can be challenging. Let's open up the talk about unique challenges neurologists face while being parents or caring for families. The discussion attempts to promote healthy personal relationships, wellness for parents, and art of work-life balance through a discussion.

VIRTUAL PROGRAMS BY TOPIC

9:00 a.m.–9:30 a.m. ET



Academic Neurology

Turning “Diversity Tax” into Currency in Neurology

Speaker(s): Roy H. Hamilton, MD, MS, FAAN

Description: Medical trainees and faculty who are persons of color, women, LGBTQI, or hail from other groups that are underrepresented in medicine are often called upon disproportionately to help advance the diversity mission of their academic institutions. This additional obligation, sometimes referred to as the “diversity tax” can take time away from other activities that are considered important for meeting traditional career benchmarks, can have an unintended negative impact on professional development, and can contribute to career dissatisfaction and burnout. The objectives of this talk are to recognize the burden that diversity tax places on certain populations of practicing neurologists and trainees; discuss strategies for finding the right balance between promoting diversity-related activities and dedicating oneself to traditional career goals; and present practical strategies for translating diversity-related efforts into activities that are considered meritorious for career development in neurology.

9:00 a.m.–9:30 a.m. ET



Careers in Neurology

Are You My Mentor?: How to Select a Good Mentor for Your Research Program

Speaker(s): Deborah Hall, MD, PhD, FAAN

Description: Come to this session to learn how to select a good mentor for your research.

10:00 a.m.–1:00 p.m. ET



Presidential Plenary Session

Speaker(s): James C. Stevens, MD, FAAN
Steven Galetta, MD, FAAN
Jerry R. Mendell, MD, FAAN
Caroline Tanner, MD, PhD, FAAN

Description: This session features the AAN's premier lecture awards for clinically relevant research and a presentation by a leading lecturer. Top researchers speak on some of the most significant findings in neurology in 2021.

1:00 p.m.–2:00 p.m. ET



HeadTalks

Neurology Pictionary

Speaker(s): Mark Milstein, MD, FAAN

Description: A picture is worth a thousand words, and that has never been so true as in the neurology version of Pictionary! Compete with peers to guess the most AAN and neurology-themed clues while they are being drawn in front of you! Contestants can compete as a team, or individuals interested in participating can be formed into a new team. Artistic ability not needed—just come with a love of neurology and a passion for fun!

1:00 p.m.–1:20 p.m. ET



Live Well

Neurologic Disease Prevention with Food

Speaker(s): Tamika M. Burrus, MD, FAAN

Description: Learn the interplay between food and neurologic disease.

1:00 p.m.–1:30 p.m. ET



Careers in Neurology

Still Kicking and Crazy After All These Years: How to Remain Relevant and Engaged in Mid- to Late-career

Speaker(s): Heidi B. Schwarz, MD, FAAN

Description: What can be done to prevent burnout as we move into mid- and late-career stages? The panelists will discuss a variety of ways that they and others have managed their careers to continue to feel engaged and relevant.

2:00 p.m.–3:00 p.m. ET



C25: Disparities in Care

Director(s): Jeffrey C. McClean, II, MD, FAAN

Description: A major challenge to US health care is the equitable access to, provision of, and use of care. Disparity of care affects multiple communities within our population and no specialty is immune to this issue, including neurology. Through presentations highlighting neurologic care disparities affecting various communities, participants will be made aware of the current challenges and steps being taken to address neurologic care disparities.

3:00 p.m.—3:35 p.m. ET



HeadTalks

The Salem Witch Trials: How Could That Possibly Happen?

Speaker(s): Ann H. Tilton, MD, FAAN

Description: When one hears tales of the Salem witch trials, it conjures up thoughts of possible demonic possession. Or was it instead even something more menacing? Was it an unexpected neurotoxin? Was it a Puritanical political ploy or perhaps what we still see in contagious hysteria? In the end, you will need to consider the theories and decide what truly happened. But one undeniable fact is that it was a regrettable historical moment that took the lives of innocent people.

4:00 p.m.—5:00 p.m. ET



C31: Neuroimaging for the General Neurologist: Spine

Director(s): Asim Zia Mian, MD

Description: This course is designed to provide neurologists with a comprehensive approach to evaluate spinal pathology. The course will open with a brief overview of normal anatomy and its variants, then review common pathologies, emergencies (e.g., cauda equina, metastases), and uncommon diagnoses. At the end of the course, participants will feel comfortable with reviewing spinal CT and MRI and identifying common pathologies.

4:00 p.m.—4:30 p.m. ET



Academic Neurology

Navigating a Career in Academic Neurology: Accolades and Challenges

Speaker(s): Shilpa Chitnis, MD, PhD, FAAN, FANA

Description: “This academic career is a marathon, not a sprint; to finish the race, one has to pace one’s self.” I received this very astute advice from a senior colleague in my department. Academic medicine has undergone so many changes over the years. There is a lot of emphasis on clinical productivity and meeting RVU metric. Yet there is requirement for research proposals and scholarship. Not to forget there is teaching, training, and mentorship of trainees. This would make anyone’s head spin. How does one navigate the course of an academic career, yet manage to maintain some work-life balance

and do meaningful work that one enjoys? This talk will introduce you to various nuances of finding your niche in academic neurology and sustaining a lifelong commitment that you enjoy.

5:00 p.m.—7:00 p.m. ET



N2: Neuroscience in the Clinic: The Neurology of Obesity

Director(s): Riley Bove, MD
 Deborah Gustafson, MS, PhD

Description: The epidemic of obesity has resulted in a host of physiological changes—vascular, metabolic, immune and reproductive—that influence susceptibility to neurological and neuropsychiatric disease. In this NIC, we will examine the neuroepidemiology of obesity, specifically the role of obesity as a risk factor for neurological diseases; neuropsychiatric and metabolic manifestations of obesity; and shared neural pathways in body weight regulation with neurological disease, as uncovered by genetics. Our invited scientists will review specific endocrine (including adipokines), neural, and other mechanisms of obesity and their relation to neurological diseases. Finally, we will discuss obesity treatments including dietary interventions (e.g., very low energy diets, intermittent fasting), pharmacotherapy (e.g., GLP-1 analogs) and bariatric surgery intermittent fasting, growth hormone treatment). Outcomes that will be discussed include Alzheimer’s Disease and Related Dementias (ADRD), cerebral small vessel disease, depression, schizophrenia, attention deficit hyperactivity disorder (ADHD), autism, multiple sclerosis, and Huntington’s Disease.

VIRTUAL PROGRAMS BY TOPIC

5:00 p.m.–5:35 p.m. ET



HeadTalks

Neuro HeadTalk: Story Slams

Speaker(s): Joseph I. Sirven, MD, FAAN
Na Tosha N. Gatson, MD, PhD, FAAN
Alejandro Vargas, MD
Larry Charleston, IV, MD
Maisha T. Robinson, MD, MS, FAAN

Description: Storytelling is the foundation for human communication and society. Neurologists are blessed with countless stories to share that range from the profane to the profound. This session highlights true tales told by neurologists about lessons learned from their various patients, families, and other individuals they have encountered throughout their careers in neurology. Modeled after the popular NPR series “Moth Radio Hour,” this session will highlight five-minute true stories that are either funny, ironic, and/or sad, told by neurologists without the aid of slides or other accompaniments. A live Q&A will follow the recorded stories so that participants can ask questions of the storytellers they have heard.

5:00 p.m.–5:20 p.m. ET



Live Well

The Ripple Effect of Positive Psychology

Speaker(s): Heidi B. Schwarz, MD, FAAN

Description: In this time of great challenge and change in the field of neurology, positive psychology is more important than ever in providing tools to reframe and reboot our personal approach to what lies ahead. This presentation will cover the basic tenets of positive psychology and examples of how to apply it in your personal and professional life.

5:00 p.m.–5:30 p.m. ET



Careers in Neurology

Ask Me Anything About a Career in Teleneurology

Speaker(s): Eric Anderson, MD, PhD, FAAN

Description: Telemedicine is mainstream, and several neurologists have taken the opportunity to do this work full or part time. This is a panel discussion and we will be fielding questions from the audience for the entire session. Come learn from a panel of practicing teleneurologists who practice full-time and part-time telemedicine.

Learn the pros and cons of a telemedicine career, and what one needs to do to make themselves a desirable candidate for telemedicine work. Hear from neurologists practicing telemedicine in different practice settings as well as private vs. academic.

6:00 p.m.–7:00 p.m. ET



C37: COVID-19 Overview

Director(s): Kenneth L. Tyler, MD, FAAN

See complete description on [page 35](#).

6:00 p.m.–6:30 p.m. ET



Academic Neurology

The Third Leg: The Clinician in Academic Medicine

Speaker(s): Kirk Roberts, MD, FAAN

Description: This session will explore the role of the clinician in academic medicine. Faculty devoted to clinical practice with smaller roles in research and education are a growing part of academic departments. Divisions of General Neurology are expanding. We will look at the opportunities and rewards along with the challenges and trade-offs of working as a clinician in an academic department both from the perspective of the department looking to grow clinical practice and the clinician looking to practice or already practicing in an academic department.

Monday, April 19

7:00 a.m.–6:00 p.m. ET

Poster Session

9:00 a.m.–9:20 p.m. ET



Live Well

Growth Mindset

Speaker(s): Jennifer Rose Molano, MD, FAAN

Description: The growth mindset is the idea that people can learn and grow with practice, perseverance, and effort. In this talk, attendees will learn the differences between a growth and fixed mindset, discover the five circumstances in which mindset can affect outcomes, and discuss ways to develop a growth mindset for personal and professional development.

9:00 a.m.–9:30 a.m. ET



Academic Neurology

Advancing the Educational Mission in Neurology Departments

Speaker(s): David M. Greer, MD, FAAN

Description: This program will be an interactive look at the state of neurology education across the US and worldwide, with an eye to exposing the challenges and finding creative solutions. Issues to be addressed include how to fund the educational mission, how to advance the careers of clinician-educators (including promotion), and how to be an impactful educator. We will also discuss how education in neurology remains truly unique, and provides unique opportunities for innovative techniques, both in the classroom and bedside, as well as through modern technology, such as flipped curricula and social media. We will explore the most effective and novel methods for securing funding, protecting time, and providing educational mentorship.

9:00 a.m.–9:30 a.m. ET



Careers in Neurology

A Career in General Neurology: Knowing Everything About Everything

Speaker(s): Kirk Roberts, MD, FAAN

Description: The practice of general neurology is uniquely challenging, exciting, and rewarding. While maybe not knowing everything about everything, the general neurologist must know a lot about most things: from the back pain a relative asks about to the newest autoimmune antibody. This discussion will focus on the challenges and rewards of general neurology and ask for audience participation on how to succeed in this field and how to maintain trainee interest in general neurology in this era of ever-increasing subspecialization.

10:00 a.m.–12:30 p.m. ET

Contemporary Clinical Issues Plenary Session

Description: This session highlights issues most critical to practicing neurologists, including abstracts related to new therapeutic developments, clinical applications of basic and translational research, and innovative technical developments. Commentary and discussion follow each presentation.

1:00 p.m.–3:00 p.m. ET



C43: Health Care Equity Symposium

Director(s): Jeffrey C. McClean, II, MD, FAAN

Description: The AAN Health Care Equity Symposium will allow attendees to recognize disparities in care and help move towards health equity in neurology. The afternoon will feature a keynote lecture by a nationally known expert, a series of short engaging talks on clinical disease specific disparities, and a panel discussion on success stories on how to mitigate these issues.

1:00 p.m.–1:20 p.m. ET



Live Well

Mindful Eating

Speaker(s): Ara Schlaman Hall, MD

Description: This talk is a brief introduction to the use of mindfulness tools in diet and weight management. Two simple techniques will be introduced and practiced.

1:00 p.m.–1:30 p.m. ET



Careers in Neurology

Grant Writing 101: Getting Started

Speaker(s): Logan D. Schneider, MD

Description: This talk will touch upon the many facets of grant writing, many of which are known, but aspects of which may be overlooked and the subtleties of which often lack formal discussion. In sharing some fundamentals of grant writing, a framework for getting started on the first or next grant can benefit most individuals, but is meant for inexperienced grant writers.

1:00 p.m.–1:35 p.m. ET



HeadTalks

The Joy of Ballroom Dancing

Speaker(s): Elaine Wylie, MD

Description: This talk is designed to engage you intellectually, emotionally, and socially. Programming full of fresh ideas is still being finalized, so check back online for the most up-to-date information.

2:00 p.m.–3:00 p.m. ET



S13: General Neurology

VIRTUAL PROGRAMS BY TOPIC

2:00 p.m.–2:30 p.m. ET



Academic Neurology

Factors that Perpetuate Disparities in Academic Neurology: A Path Forward

Speaker(s): Reena Parada Thomas, MD

See complete description on [page 34](#).

3:00 p.m.–3:35 p.m. ET



HeadTalks

Neuro-oncology Around the World—Global Perspective on Brain Cancer Patient Care

Speaker(s): Maciej M. Mrugala, MD, PhD, MPH, FAAN

See complete description on [page 42](#).

3:00 p.m.–3:20 p.m. ET



Live Well

Magnifying Your Life Through Poetry

Speaker(s): Michael L. Wynn, DO, FAAN

Description: Neurologists have an intimate and unique relationship with language. Poetry is an ideal tool for expressing those frequent moments in a neurologist's life that deserve intellectual and artistic exploration. This presentation will demonstrate how poetry can augment the neurologist's life in and away from the clinic. The anatomy of a successful poem will be presented to give attendees encouragement to begin or enhance their experience of reading and writing poetry.

3:00 p.m.–3:30 p.m. ET



Careers in Neurology

Interviewing Skills for Students and Residents—How to Get into the Program You Want

Speaker(s): Ezgi Tiryaki, MD, FAAN

Description: The interview process is the “end of the production line” and can feel like a very high-stakes process that causes significant stress and anxiety. There are a lot of things an applicant can do to prepare and be fully in the moment. After attending the session, participants should be able to: list effective strategies in preparation for a residency or fellowship interview; practice effective responses to common interview situations;

and maintain a sense of control during the recruitment process.

4:00 p.m.–5:00 p.m. ET



C52: Clinical Neurology for Advanced Practice Providers

Director(s): Jaffar Khan, MD, FAAN

Description: Advanced practice providers (APPs) are integral to the care of patients with neurologic disorders, and the integration of APPs into neurology practice is constantly expanding. This course will focus on reviewing core clinical topics aimed at enhancing the fund of knowledge for the APP clinician.

4:00 p.m.–4:30 p.m. ET



Academic Neurology

Neurohospitalist Models of Care in an Academic Neurology Department

Speaker(s): S. Andrew Josephson, MD, FAAN

Description: With neurohospitalist models of care emerging as a common approach to delivering inpatient neurologic care in academic departments, we will discuss how to set up such a model and the wide range of challenges and opportunities that exist within the traditional university environment.

4:00 p.m.–5:00 p.m. ET



C53: Creating a Roadmap for a Diverse Workforce in Academic Neurology

Director(s): Roy H. Hamilton, MD, MS, FAAN

See complete description on [page 55](#).

5:00 p.m.–5:30 p.m. ET



Careers in Neurology

How to Successfully Incorporate APPs into Your Practice

Speaker(s): Richard E. Ferguson, MD, FAAN

Description: A panel composed of one practicing neurologist and two APPs (advanced practice providers) will give an overview of team-based care and how they have successfully incorporated APPs into their practice.

5:00 p.m.–5:35 p.m. ET



HeadTalks

Ethical Conundrums in Neurology

Speaker(s): Julie Anna Kurek, MD
 Ariane Lewis, MD
 Benjamin David Tolchin, MD
 Katharina M. Busl, MD, MS
 Salvador Cruz-Flores, MD, FAAN

Description: Neurologists are frequently faced with ethical conundrums. In this talk, we will debate two controversial topics: placement of a PEG in a patient with advanced dementia and performance of genetic testing in children with relatives who have Huntington's.

6:00 p.m.–7:00 p.m. ET



C54: CNS Toxicities

Director(s): Neeraj Kumar, MD

Description: New drugs of abuse are emerging at an alarming rate. Many of these drugs (bath salts, spice, molly) are touted as legal, perceived as safe, and in many cases difficult to detect on standard drug screens. Opioid abuse is an ongoing epidemic with neurologic manifestations particularly so with overdose. Newer pharmaceuticals like chimeric antigen receptor T-cell therapy and therapy with immune checkpoint inhibitors have unique neurotoxicities. Commonly used medications are implicated in serotonin syndrome, neuroleptic malignant syndrome, posterior reversible encephalopathy syndrome, and reversible cerebral vasoconstriction syndrome. This course will cover these topics in a case-based format.

6:00 p.m.–7:00 p.m. ET



C57: Health Equity for Neurologists

See complete description on [page 34](#).

6:00 p.m.–6:30 p.m. ET



Academic Neurology

Implications for Promotions and Tenure: Team Science

Speaker(s): Mitchell S. V. Elkind, MD, MS, FAAN

Description: Successful clinical and translational research increasingly rely on teams of investigators to be successful. While this "Team Science" approach leverages the strengths and expertise of scientists trained in

different areas, it may also create challenges for participating faculty when it comes time for promotion or tenure review. The demonstration of independence and individual contribution is often harder when one is part of a team. This discussion will engage the audience in recognizing the difficulties inherent in promotion as a member of a team, and strategies for overcoming these limitations.

Tuesday, April 20

7:00 a.m.–6:00 p.m. ET

Poster Session

9:00 a.m.–9:20 p.m. ET



Live Well

Enhancing Personal and Professional Well-Being Through Appreciative Inquiry

Speaker(s): Jeffrey Dewey, MD

Description: People and organizations tend to be problem oriented by default, which can lead to negativity and contribute to burnout. However, in every situation, no matter how negative, there is something that works. Appreciative Inquiry is a method of identifying the core strengths that give life to an individual or organization. While the very act of doing so increases positivity, further impactful change can come from leveraging these strengths to move toward the individual/group's positive potential. This talk will review the basic principles of Appreciative Inquiry and provide practical strategies for applying this methodology.

VIRTUAL PROGRAMS BY TOPIC

9:00 a.m.–9:30 a.m. ET



Academic Neurology

Academic Neurology: What Is the AAN Doing to Help Academic Neurology

Speaker(s): Ralph L. Sacco, MD, MS, FAHA, FAAN

Description: The AAN strives to be indispensable to all our members and recognizes that the needs and priorities of our constituents are variable. We have launched an academic initiative to help bring together many of the resources, products, and programs that help support academic neurologists across their lifespan, as well as build new ones to meet your needs. Building on our strong foundation of supportive programs for medical students, neurology clerkship directors, residents, residency program directors, fellows, and fellowship directors, we are expanding our reach to new programs for department chairs, division directors, academic clinicians and researchers, APPs, and other members of departments of neurology. Over the last few years, we have launched a Chairs Summit that has also brought our academic business administrators to the table to help us share the best practices needed to raise the bar across the entire academic spectrum. Come hear what the AAN is doing for academic neurology and let us know what else we can do to help you.

9:00 a.m.–9:30 a.m. ET



Careers in Neurology

K Is for Career Development

Speaker(s): Holly E. Hinson, MD, MCR, FAAN

Description: Interested in applying for a K but don't know where to start? This session will cover the different types of Ks, how a K differs from other Career Development Awards, the sections of the application, and hints to get started. Attendees will also learn what happens once the application is submitted and the basics of study section, as well as a typical time table for review. Finding and maximizing appropriate mentorship will be stressed, along with tips and tricks to navigate this key area. The session will end with time for attendee questions.

10:00 a.m.–12:30 p.m. ET



Clinical Trials Plenary Session

Description: This session covers important clinical topics identified from other society meetings that affect patient care. The latest updates within several clinical trials conducted over the course of the last year will be presented.

1:00 p.m.–1:20 p.m. ET



Live Well

Outsmart Stress

Speaker(s): Marie E. Pasinski, MD

Description: Over the past year we have all faced unprecedented levels of stress, which negatively impacts our health and well-being. This talk will review the stress response and the fascinating research on how stress-reducing techniques can alter gene expression, brain activity, and brain morphology. Numerous practical and evidence-based suggestions will be offered on how to turn off the stress response to enhance inner calm, joy, and well-being.

1:00 p.m.–1:30 p.m. ET



Careers in Neurology

Understanding and Negotiating a Physician Employment Contract

Speaker(s): David A. Evans, MBA

Description: As neurologists consider their employment options, they will encounter the daunting process of interviewing and eventually negotiating an employment agreement. This course will guide attendees on what to expect as they navigate their transition from training to practice in an employed physician model. The presenter will provide an overview of key elements to expect in an employment contract and areas of specific focus for the provider to consider, including partnership pathways for private practice settings.

2:00 p.m.–3:00 p.m. ET



C64: Genetic Therapies

Director(s): Robert C. Griggs, MD, FAAN

Description: Neurology has entered a new era of advanced genetic treatments. Many treatments are FDA-approved and many more are in or about to enter clinical trials. This course will provide an overview of genetic treatments, both current and promising. Specific examples

of approved treatments for neuromuscular diseases will be considered: maximizing benefit, establishing durability, and insuring availability to all patients. The discussion period will include commentary from leaders from the FDA, the NIH, and industry.

2:00 p.m.–3:00 p.m. ET



S21: Neuroepidemiology

2:00 p.m.–2:30 p.m. ET



Academic Neurology

The (Neuro) Anatomy of an Impactful and Effective Program Director

Speaker(s): Jaffar Khan, MD, FAAN

Description: This session is open to residency and fellowship PDs, APDs, and PC across all levels of experience with the highest yield for those in early- and mid-career. Through case-based discussions, this session will provide practical strategies to navigate common issues that frequently arise during your time as training program leadership.

3:00 p.m.–3:35 p.m. ET



HeadTalks

Is There a Neurologist on This Flight?

Speaker(s): Joseph I. Sirven, MD, FAAN

Description: Commercial aviation has been decimated by the COVID pandemic as there is a significant safety concern regarding flying from both the flying public and medical professionals. For those of us who must fly not knowing others passengers' COVID status, it is possible that a medical emergency may occur, leaving one concerned about your medical role in such a situation. This session will address through a highly interactive format what are the medical emergencies one might encounter during a flight and outline a neurologist's role during such an emergency. What is on board the jet to help patients and how safe is it to fly while the general public remains largely unvaccinated will be two big issues to be discussed.

3:00 p.m.–3:20 p.m. ET



Live Well

What About Wellness for Residents and Fellows?

Speaker(s): Aimee Aoi Sato, MD

Description: This talk is designed to engage you intellectually, emotionally, and socially. Programming full of fresh ideas is still being finalized, so check back online for the most up-to-date information.

3:00 p.m.–3:30 p.m. ET



Careers in Neurology

Private Practice: Can You Be Successful?

Speaker(s): Brad C. Klein, MD, MBA, FAAN

Description: Not trained to build or run a practice? Do the odds seem against you? This talk will be designed in a more intimate setting, addressing questions you might not have considered, and topics those in academia may not be able to answer. The talk will help explain some of the pros and cons, such as how to review your practice for missing income and excess expenses, how to keep a lot more of the money you earn, and the time needed to be involved on the business side of medicine. Bring your own questions, learn from others' questions, and hear about the successes, the trials, and the tribulations of joining a private practice from one who has done it (and still doing it).

VIRTUAL PROGRAMS BY TOPIC

GENERAL NEUROLOGY

4:00 p.m.–5:00 p.m. ET



C70: *Continuum*® Test Your Knowledge: A Multiple-choice Question Review

Director(s): Ralph F. Jozefowicz, MD, FAAN

Description: This course is designed to help neurologists stay current in clinical practice. The format uses case-based, multiple choice questions and brief didactic presentations exclusively. With the aid of an online polling system, faculty will engage participants in clinical problem solving. The multiple choice questions and supporting materials are derived from recent issues of *Continuum: Lifelong Learning in Neurology*®. Expert faculty will use the question-based format as a springboard for discussion of timely and important topics and developments across the spectrum of neurology. Core topics in neurology and current literature searches are stressed. This program will cover two subjects, each presented by a pre-eminent expert in the field who has also demonstrated superior skills at presenting material of this type to large audiences. **NOTE: Use of the Audience Response System will only be available during the date and time listed.**

4:00 p.m.–5:00 p.m. ET



C71: Health Equity for Neurology Residents

Director(s): Jillian Molli Berkman, MD

See complete description on [page 34](#).

4:00 p.m.–4:30 p.m. ET



Academic Neurology

Best Practices for Neurology Clerkship Directors

Speaker(s): Erin Furr-Stimming, MD

Description: This program is for new and current neurology programs to come together and learn about best practices to serving as a Neurology Clerkship Director.

5:00 p.m.–5:35 p.m. ET



HeadTalks

The Neurology of Wine Tasting

Speaker(s): Jaime R. Lopez, MD

Description: This talk is designed to engage you intellectually, emotionally, and socially. Programming full of fresh ideas is still being finalized, so check back online for the most up-to-date information.

5:00 p.m.–5:20 p.m. ET



Live Well

Exercise and Physical Activity in the Time of COVID-19

Speaker(s): Ann Marie Collier, MD

Description: This course is designed to recognize and address the importance of physician wellness during the current COVID-19 pandemic particularly from a neurologic perspective.

5:00 p.m.–5:30 p.m. ET



Careers in Neurology

Optimizing Communication in Difficult Patient Relationships

Speaker(s): Veronica E. Santini, MD, MA

Description: The patient-physician relationship is the keystone of care and imperative to ease suffering. A number of internal and external factors may threaten that rapport and can lead to difficulties in the relationship. While understanding and managing these difficult patient relationships impacts patient outcomes, provider satisfaction, burnout, and malpractice claims, it is not often taught formally during medical training. This talk seeks to improve comprehension and impart the competencies necessary to optimally manage these challenging encounters.

6:00 p.m.–6:30 p.m. ET



Academic Neurology

How to be an Antiracist Neurology Department

Speaker(s): Ima M. Ebong, MD

Description: We will discuss strategies to overturn existing racist structures and policies in academic neurology departments related to key academic missions: education, clinical care and research. Dr. Ebong and Dr. Mohile will share their experiences as diversity officers and provide guidance on how departmental members and leaders in various roles can develop antiracist identities in their departmental work. We will provide specific examples of successful initiatives to integrate antiracism into departmental strategies and missions.

Wednesday, April 21**7:00 a.m.–6:00 p.m. ET****NEW!****Poster Session****8:00 a.m.–9:00 a.m. ET****CME 1****C79: LGBTQI Health in Neurology****Director(s):** Holly E. Hinson, MD, MCR, FAAN

Description: Faculty will explain key LGBTQI terminology and concepts. Topics covered will include the difference between sexual orientation and gender identity, gender identity versus gender expression, and the concept of minority stress. Specific examples of the intersection of LGBTQI identity and neurologic disease will be covered. The course highlights the importance of collecting sexual orientation and gender identity data in electronic medical records, with practical advice for providers to take back to their home institutions and clinics. The session will finish with case presentations examining how familiarity with sexual and gender minority health has direct influence on neurologic illness.

9:00 a.m.–9:20 a.m. ET**ELA NEW!****Live Well****Your Career Environment****Speaker(s):** Cormac A. O'Donovan, MD

Description: This talk is designed to engage you intellectually, emotionally, and socially. Programming full of fresh ideas is still being finalized, so check back online for the most up-to-date information.

9:00 a.m.–9:30 a.m. ET**ELA NEW!****Academic Neurology****Sharing of Best Practices for Division Chiefs in an Academic Neurology Department****Speaker(s):** Brenda Banwell, MD, FAAN

Description: This program is for new and current Neurology Division Chiefs to learn best practices in an approach where the speakers talk about things that went great and things we would not do again. We will share ideas for divisional leadership, growth, innovation, human resources, and finance.

9:00 a.m.–9:30 a.m. ET**ELA NEW!****Careers in Neurology****How I Tried to Retire from Neurology But Couldn't****Speaker(s):** Thomas R. Swift, MD, FAAN

Description: This talk is designed to engage you intellectually, emotionally, and socially. Programming full of fresh ideas is still being finalized, so check back online for the most up-to-date information.

10:00 a.m.–12:30 p.m. ET**CME 225****Controversies in Neurology Plenary Session**

Description: This session features experts discussing the most current and controversial issues in neuroscience. It is set up as a debate format in which two speakers argue one side of a single topic, followed by a rebuttal.

1:00 p.m.–2:00 p.m. ET**ELA****HeadTalks****Neurology Trivia: Localize the Lesion****Speaker(s):** Luis F. Torres, MD

Description: This is an interactive game show where teams compete against each other attempting to answer questions related to common and uncommon neurologic conditions.

VIRTUAL PROGRAMS BY TOPIC

1:00 p.m.–1:30 p.m. ET



Careers in Neurology

Get Social on Social Media #Networking
101 for Professional Development

Speaker(s): Aarti Sarwal, MD, FAAN

Description: This session will share pearls and pitfalls for using social media for professional development. Attendees will get a brief introduction on choosing the correct platform and get hands on experience going live on social media. They will learn to develop personalized strategies for integrating social media into their work-life balance and using social media to counteract burnout, encourage wellness, and develop engaging connections. Tips on time management strategies and software options will be shared to optimize your time spent on social media. Whether your professional development track is clinical, education, research, or advocacy based, you'll get advice on the use social media for sharing your work, developing collaborations and enhancing your reputation. Lastly, attendees will receive guidance into accepted ways of reporting your social media activities on your resume for promotion.

2:00 p.m.–2:30 p.m. ET



Academic Neurology

Academic Promotion Is a Major Goal for
Associate Professors

Speaker(s): Joseph I. Sirven, MD, FAAN

Description: This session will help to provide important tips and advice for the associate professor to help reach goals in both education and research highlighting real world examples.

3:00 p.m.–3:35 p.m. ET



HeadTalks

Intraoperative Monitoring

Speaker(s): Constantine Moschonas, MD,
FAAN

Description: This highly interactive event will demonstrate how real-time intraoperative monitoring is performed using real-time case(s) to offer a look at how remote intraoperative monitoring takes place and is part of the expanding telemedicine field.

3:00 p.m.–3:30 p.m. ET



Careers in Neurology

How to Put Together an Effective
Research Presentation

Speaker(s): Enrique C. Leira, MD, MS, FAAN

Description: Presenting data efficiently is a skill crucial for academic success, but not every scientist is a natural born communicator. In addition, this skill is not formally taught during most residencies or fellowships. As a result, young presenters are at risk for presentations that are both stressful to deliver and ineffective. This brief review aims to provide useful tips for new presenters by building in the body of knowledge in data delivery, graphics, visual sciences, and personal observations. The content section will address the goals and framework of the presentation. The format section will address font and typeface, color, tables, and graphics. We will end with specific differential tips for the platform and poster formats. Note, this is based on the article from Stroke. 2019;50:e228-e230.

4:00 p.m.–5:00 p.m. ET



C88: Special Issues in Women's
Neurologic Care

Director(s): Naymee J. Velez-Ruiz, MD

Description: Sex differences are increasingly recognized in many areas of medicine, and neurology is no exception. Many common conditions that affect the brain are more complicated to address in women. As knowledge in women's health expands, hormones and reproductive concerns may influence the prevention, diagnosis, and treatment of neurological conditions. Through presentations of challenging cases, faculty will facilitate a discussion with the audience of the most recent advances in the management of headache, epileptic, neurovascular, and neuroimmunological disorders during women's reproductive years and pregnancy. The presentations will provide an evidence-based clinical approach incorporating the most recent research on sex-specific care.

4:00 p.m.–4:30 p.m. ET



Academic Neurology

Philanthropy for Education

Speaker(s): Madhu Soni, MD, FAAN

Description: Philanthropic donations often target clinical programs and research efforts.

Education, an equally important component of an academic medical center's mission, however, is often not included in the philanthropic limelight. Educators are essential to train the future physician workforce, yet there is no widely accepted benchmark for educational value units or protected time in order to teach and engage in educational innovation. Most faculty have not received formalized training in recognizing potential grateful patients or the legacy they may wish to establish. This program will introduce the concept of philanthropic conversations for educational initiatives, and developing the communication skills and comfort to broach the subject should the opportunity arise.

5:00 p.m.—5:35 p.m. ET



HeadTalks

Haiku Cares? Write Creatively, Fight Burnout, and Submit Work to Humanities

Speaker(s): Ludwig Gutmann, MD, FAAN
Lealani Mae Acosta, MD

Description: The editors of the Humanities section in Neurology will give neurologists tools to enhance creative writing. We will review how creative writing can counteract burnout and foster professionalism and empathy in medicine. We will also outline the structure of successful poetry and prose to be an effective expression of creativity.

5:00 p.m.—5:20 p.m. ET



Live Well

Spiritual Health

Speaker(s): Sue E. Ouellette, PhD

Description: This talk is designed to engage you intellectually, emotionally, and socially. Programming full of fresh ideas is still being finalized, so check back online for the most up-to-date information.

6:00 p.m.—6:30 p.m. ET



Academic Neurology

Neurology: We Want YOU!

Speaker(s): Elizabeth Taylor Marshall, NP

Description: It ain't what it used to be! In this interactive talk, we will discuss the marked transformation within the field of neurology over the past 50 years. We have moved from a largely diagnostic expertise to a field of treatments and interventions that are improving outcomes—

from the youngest baby with spinal muscular atrophy, to the oldest adult with ischemic stroke. There truly is something to fit every interest and lifestyle. Come discover the possibilities, where you may fit, and how as neurologists we're working to expand our reach among trainees, patients, and the community.

Thursday, April 22

10:00 a.m.—12:00 p.m. ET



Neurology Year in Review Plenary Session

Description: This session will feature six speakers, each focusing on the latest research that has happened in the last year within a specific subspecialty topic.

Date TBD

Time TBD



Academic Neurology

Top Ten Clinical, Educational, and Leadership Pearls

Speaker(s): Steven Galetta, MD, FAAN

Description: The speaker will present top pearls learned from a clinical and educational perspective, and end with a series of neuro-ophthalmology cases that are important to recognize.

Time TBD



Careers in Neurology

How the Neuroscience of Bias Changed My Career

Speaker(s): Jose H. Posas, MD, FAAN

Description: In this talk, faculty will delve into how they were able to channel anger and outrage at health care disparities they were seeing around them into actionable items on a rising agenda that has helped them help their patients, their community, and their future colleagues. Faculty will discuss some of the things they don't teach in medical school that have a tremendous impact on shaping how a neurologist can shape their career. Faculty will advise budding neurologists and share wisdom from stumbles in their own career path.

VIRTUAL PROGRAMS BY TOPIC

Time TBD



Academic Neurology

A Blueprint for Advanced Practice Providers in an Academic Neurology Department

Speaker(s): Shannon Donovan Anderson, PA

Description: There are a number of areas within academic medicine that can enhance the career satisfaction of an APP but are often not pursued mostly due to not knowing about them. Furthermore, it is not uncommon for APPs to engage in endeavors that make significant contributions to the areas of service, teaching and research without perhaps even knowing it or being acknowledged for their efforts. The keys to success for an APP in an academic neurology department are: work with your supervising physician, your division chair, and department chair on your goals in each of the areas of teaching, research, and service; obtain a career mentor who can identify with your goals - in addition to a physician, consider reaching out to an APP within the AAN APP community for mentorship; and learn how to sell yourself - it is no secret that APPs excel in the area of service. Many say that for this reason, they do not have time for teaching or research endeavors. I would argue that they may be doing much of this without perhaps realizing it. For example, teaching residents or fellows on the wards, identifying or caring for a patient who results in a case report, establishing QI projects that result in best practices, and so on.

Headache

Saturday, April 17

4:00 p.m.–5:00 p.m. ET



S5: Headache 1

Sunday, April 18

8:00 a.m.–9:00 a.m. ET



C19: Comprehensive Migraine Update

Director(s): Rashmi B. Halker Singh, MD, FAAN

Description: Have you ever been in a situation where a patient has asked about a new migraine treatment that you haven't heard about? Have you been unsure about when to use a new migraine treatment for your patients?

This presentation is a case-based interactive discussion that reviews updates in migraine treatment that have occurred over the last three years. We will cover a variety of practical scenarios to enhance your understanding of these options, with the goals of improving your clinical practice and care of patients.

Monday, April 19

2:00 p.m.–3:00 p.m. ET



C47: Actualización en Dolores de Cabeza (Headache Update)

Director(s): Clarimar Borrero-Mejias, MD

Description: This Headache Update, in Spanish, will allow participants to learn and/or review the latest research and advances in therapeutic management modalities for adults and children with headache. Through lecture format and case presentation, participants will learn and/or review topics including cognitive behavioral therapy (CBT), acute medications, preventive medications, "natural" treatments and neuromodulation. Participants will also learn about the latest data regarding the usefulness of health habit modification, exercise and meditation in the management of headache in adults and children.

2:00 p.m.–3:00 p.m. ET



S15: Headache 2

Tuesday, April 20

4:00 p.m.–5:00 p.m. ET



C68: Introduction to Primary Headache Disorders: Trigeminal Autonomic Cephalalgias and Other Primary Headaches, Including New Daily Persistent Headache, Cough, Exercise, and Thunderclap Headaches

Director(s): Teshamae Monteith, MD, FAAN

Description: Diagnosing headache disorders can be challenging given time constraints and the complexity of presentations. Primary headaches can be disabling but are not attributable to an underlying secondary condition, like a subarachnoid hemorrhage. While migraine is the most common primary headache for which patients seek medical attention, there are many other primary headache disorders listed in the International Classification of

Headache Disorders that neurologists should be aware of, as they may encounter them in their clinical practice. This introductory course will focus on non-migraine primary headache syndromes, including their epidemiology, clinical presentations, and treatment, further illustrated with case-based scenarios. Faculty will focus on the trigeminal autonomic cephalalgias and lesser known headache conditions, including new daily persistent headache, cough/exertional headache, and other primary headaches. *This program complements Introduction to Primary Headache Disorders: Migraine and Other Primary Headaches, Including Tension-type Hypnic, Primary Stabbing, Nummular Headache Syndromes, Epicrania Fugax, and Retinal Migraine, but covers independent topics.*

Wednesday, April 21

6:00 p.m.–7:00 p.m. ET



C90: Introduction to Primary Headache Disorders: Migraine and Other Primary Headaches, Including Tension-type, Hypnic, Primary Stabbing, Nummular Headache Syndromes, Epicrania Fugax, and Retinal Migraine

Director(s): Hope O'Brien, MD, FAAN, MBA

Description: Headaches are a common complaint and primary headache disorders are those that are not attributable to an underlying secondary condition. The ability to make an accurate diagnosis can improve treatment and disability outcomes. Attendees will gain updated information on the diagnosis of primary headache disorders based on criteria published in the International Classification of Headache Disorders 3 (ICHD-3). This introductory course will also focus on key components on how to differentiate among the most common primary headache types encountered in clinical practice including migraine, cluster, and tension-type headache. Faculty will also discuss less familiar syndromes including hypnic, primary stabbing, nummular and atypical migraine. *This program complements Introduction to Primary Headache Disorders: Trigeminal Autonomic Cephalalgias and Other Primary Headaches, Including New Daily Persistent Headache, Cough, Exercise, and Thunderclap Headaches, but covers independent topics.*

Health Care Disparities

Saturday, April 17

10:00 a.m.–10:30 a.m. ET



Advancing Leadership in Neurology

How to Address Patient Bias Against Neurologists of Diverse Backgrounds

Description: This talk is designed to engage you intellectually, emotionally, and socially. Programming full of fresh ideas is still being finalized, so check back online for the most up-to-date information.

2:00 p.m.–4:00 p.m. ET



N1: Neuroscience in the Clinic: Neurobiological Mediators of Racism on Health Outcomes

Director(s): Jessica Robinson Papp, MD, FAAN
Temitayo Oyegbile, MD, PhD

Description: Racism can affect health in many ways, including disparities in access to care, poverty and social exclusion. However the direct experience of racism is also a contributor to adverse health outcomes; this is the focus of this session. Faculty will present research on how the experience of racism might affect brain structure and function, and how resultant changes in autonomic nervous system function can effect health outcomes, such as cardiovascular morbidity.

3:00 p.m.–3:30 p.m. ET



Advancing Leadership in Neurology

Neurologic Care of Vulnerable Populations During the Pandemic

Description: This talk is designed to engage you intellectually, emotionally, and socially. Programming full of fresh ideas is still being finalized, so check back online for the most up-to-date information.

VIRTUAL PROGRAMS BY TOPIC

Sunday, April 18

10:00 a.m.–10:30 a.m. ET



Advancing Leadership in Neurology

Reviewing the History of EDI in the Field of Neurology

Description: This talk is designed to engage you intellectually, emotionally, and socially. Programming full of fresh ideas is still being finalized, so check back online for the most up-to-date information.

Monday, April 19

10:00 a.m.–10:30 a.m. ET



Advancing Leadership in Neurology

Implementing EDI Efforts in Medical Schools

Description: This talk is designed to engage you intellectually, emotionally, and socially. Programming full of fresh ideas is still being finalized, so check back online for the most up-to-date information.

2:00 p.m.–2:30 p.m. ET



Academic Neurology

Factors that Perpetuate Disparities in Academic Neurology: A Path Forward

Speaker(s): Reena Parada Thomas, MD

Description: To fully support the diverse emerging physician workforce, we must recognize and address the obstacles that medical trainees and faculty from underrepresented groups may face in their advancement. Our panel discussion will address the following learning objectives: critically analyze emerging data from research to promote workforce equity in neurology; evaluate structural factors in organizational management that may perpetuate hidden biases; and review recommendations for change management consistent with the values of inclusion and cultural diversity.

3:00 p.m.–3:30 p.m. ET



Advancing Leadership in Neurology

EDI in the Private Sector & Small/Solo Practices

Description: This talk is designed to engage you intellectually, emotionally, and socially. Programming full of fresh ideas is still being

finalized, so check back online for the most up-to-date information.

4:00 p.m.–5:00 p.m. ET



S18: Health Care Disparities

6:00 p.m.–7:00 p.m. ET



C57: Health Equity for Neurologists

Description: This talk is designed to engage you intellectually, emotionally, and socially. Programming full of fresh ideas is still being finalized, so check back online for the most up-to-date information.

Tuesday, April 20

10:00 a.m.–10:30 a.m. ET



Advancing Leadership in Neurology

Moving Toward Gender Equity in Graduate Medical Education Leadership

Description: This talk is designed to engage you intellectually, emotionally, and socially. Programming full of fresh ideas is still being finalized, so check back online for the most up-to-date information.

4:00 p.m.–5:00 p.m. ET



C71: Health Equity for Neurology Residents

Director(s): Jillian Molli Berkman, MD

Description: We know that disparities exist within neurology that create inequitable access and outcomes in care. This course focuses on implementing a health equity curriculum for neurology residents as work towards elimination of disparity in neurology. Our goal is to present examples of what has been done in the past and to offer resources and inspiration for other residency programs to try to implement a similar curriculum in the future.

6:00 p.m.–6:30 p.m. ET



Advancing Leadership in Neurology

Health Care Disparities in Populations

Speaker(s): Alejandro Vargas, MD
Sharon Lewis, MD

See complete description on [page 38](#).

Wednesday, April 21

10:00 a.m.–10:30 a.m. ET



Advancing Leadership in Neurology Promoting Equity for International Medical Graduates

Description: This talk is designed to engage you intellectually, emotionally, and socially. Programming full of fresh ideas is still being finalized, so check back online for the most up-to-date information.

3:00 p.m.–3:30 p.m. ET



Advancing Leadership in Neurology Mentoring Black Men in Medicine

Description: This talk is designed to engage you intellectually, emotionally, and socially. Programming full of fresh ideas is still being finalized, so check back online for the most up-to-date information.

4:00 p.m.–5:00 p.m. ET



C88: Special Issues in Women's Neurologic Care

Director(s): Naymee J. Velez-Ruiz, MD

See complete description on [page 30](#).

Date TBD

Time TBD



Careers in Neurology

How the Neuroscience of Bias Changed My Career

Speaker(s): Jose H. Posas, MD, FAAN

See complete description on [page 31](#).

Infectious Disease

Sunday, April 18

2:00 p.m.–3:00 p.m. ET



C27: Manifestaciones Neurológicas de la infección por Covid-19 (Neurological Manifestations of COVID-19)

Director(s): Alejandro Tobon, MD

Description: This program is designed to engage you intellectually, emotionally, and socially. Programming full of fresh ideas is still being finalized, so continue to check back online for the most up-to-date information.

4:00 p.m.–5:00 p.m. ET



C30: Panel de Debate: Neurología y COVID en el Mundo Hispanohablante (COVID-19 Panel Discussion: Neurology and COVID in the Spanish-speaking World)

Director(s): Susana M. Bowling, MD

Description: This talk is designed to engage you intellectually, emotionally, and socially. Programming full of fresh ideas is still being finalized, so check back online for the most up-to-date information.

6:00 p.m.–7:00 p.m. ET



C37: COVID-19 Overview

Director(s): Kenneth L. Tyler, MD, FAAN

Description: The purpose of this one hour Course is to summarize the state of the art as it relates to the acute and chronic neurological complications of COVID-19. We will update knowledge on the pathophysiology as known, the incidence/frequency of various syndromes and groups at risk, their diagnosis, and current treatment approaches.

Monday, April 19

2:00 p.m.–4:00 p.m. ET



N3: Neuroscience in the Clinic: Emerging Neuroscience in Neurologic Complications of COVID-19

Director(s): Kiran Thakur, MD
Shibani Sharon Mukerji, MD

VIRTUAL PROGRAMS BY TOPIC

INFECTIOUS DISEASE

6:00 p.m.–7:00 p.m. ET



C56: New Therapeutic Options for CNS Infections

Director(s): Allen J. Aksamit, Jr., MD, FAAN

Description: New therapeutics are evolving for viral infections of the brain, historically a challenging set of diseases to treat. New therapies for progressive multifocal leukoencephalopathy with immune mediated approach have been shown to have promise, but wider clinical experience, and challenges to delivering these therapies in a routine clinical fashion from a practical and cost perspective create barriers. Presentation will examine the issues of PML and explore potential solutions. Herpes simplex encephalitis has traditionally been treatable with antiviral drugs, but controversy remains whether autoimmune mechanisms induced by the virus play a role in worsening morbidity. Trials are underway targeting the immune mechanisms. Also autoimmune response against the NMDA receptor can lead to a delayed encephalitis following herpes treatable with autoimmune therapy. Other new therapeutics are being designed for other causes of viral encephalitis. Finally new molecular diagnosis with deep sequencing has allowed for new therapeutic considerations of previously undiagnosable forms of encephalitis.

Tuesday, April 20

8:00 a.m.–9:00 a.m. ET



C61: Infections of the Nervous System

Director(s): Kiran Thakur, MD

Description: This program will provide an overview of the laboratory and imaging studies available for timely and accurate diagnosis of a range of infections of the nervous system. Faculty will provide updates on the appropriate use of currently available tests, including sensitivity and specificity, as well as comment on emerging diagnostic modalities such as metagenomics and antibody profiling in the diagnosis of unknown encephalitis.

Wednesday, April 21

4:00 p.m.–5:00 p.m. ET



S31: Infectious Disease

6:00 p.m.–7:00 p.m. ET



C92: Neurologic Manifestations and the Impact of COVID-19

Director(s): Nizar Souayah, MD, FAAN

Description: COVID-19 has the potential to cause nervous system damage in up to 84% of cases with the likelihood of severely affected patients developing neurological symptoms. Through presentation of their own data review of recent literature, faculty will discuss the association of neurological manifestations with specific non-neurological complications as a function of race and health disparities, including differences in prognoses for Black and White people; management of neurological complications with emphasis on managing neuro-respiratory complications with newly available approaches to limit need for invasive airway tubes; and the presentation of machine learning and artificial intelligence applications to prognosis and outcomes of COVID infection as a function of the presence of neurological and non-neurological complications.

Leadership

Saturday, April 17

4:00 p.m.–4:30 p.m. ET



Advancing Leadership in Neurology

Leadership in Crisis—Rising to the Occasion

Speaker(s): Renee M. Pazdan, MD, FAAN

Description: This talk is designed to engage you intellectually, emotionally, and socially. Programming full of fresh ideas is still being finalized, so check back online for the most up-to-date information.

6:00 p.m.–6:45 p.m. ET



Advancing Leadership in Neurology

Blind Spots: The Impact of Conscious and Unconscious Biases

Speaker(s): Laraine Kaminsky

Jeffrey C. McClean, II, MD, FAAN

Janis Miyasaki, MD, FAAN

Charles C. Flippen, II, MD, FAAN

Description: In a neurologic exam, you don't expect your patient to find their own blind spot, so why do we assume we can diagnosis our own? During this highly interactive presentation

about the conscious and unconscious bias we all have, the panel will discuss the impact of those biases and also make some recommendations on how to mitigate our biases. NOTE: To get the most out of this program we highly encourage you to take the Project Implicit Test at <https://implicit.harvard.edu/implicit/takeatest.html> prior to the program.

Sunday, April 18

2:00 p.m.–2:30 p.m. ET



Advancing Leadership in Neurology

How to Get from Diversity to Inclusion: The Difference of Being Invited to a Dance vs. Being Asked to Dance

Speaker(s): Ezgi Tiryaki, MD, FAAN
Kevin Brown, DO, MBA

Description: We often focus our efforts on creating representative diversity. This is an essential, yet insufficient, first step. While recruiting for diversity is important, it is critical to develop a culture of inclusion. Only an inclusive and equitable culture will allow us to reap the benefits of a diverse workforce and help retain the talent that we bring in. This talk will highlight individual and institutional leadership principles and practices that can help avoid pitfalls and promote inclusiveness.

4:00 p.m.–4:30 p.m. ET



Advancing Leadership in Neurology

Emotional Intelligence and Leadership

Speaker(s): Joanne Smikle, PhD

Description: Emotional intelligence (EI) is the ability to “motivate oneself and persist in the face of frustrations, to control impulse and delay gratification, to regulate one’s moods and keep distress from swamping the ability to think, to empathize and to hope.” It is the factor that can make or break your career as a leader. Attendees will learn about the four components of EI and why it is important.

6:00 p.m.–6:30 p.m. ET



Advancing Leadership in Neurology

COVID and Leadership: Case Studies

Speaker(s): Maisha T. Robinson, MD, MS, FAAN
Mona Bahouth, MD

Description: This session will offer brief examples of innovative approaches to leading during the COVID-19 pandemic. The speakers

will provide relevant strategies to navigate the unexpected challenges that occurred during the pandemic with a focus on improving clinical efficiency, patient care, team morale, and staff support. The case studies will highlight concepts in crisis management and approaches used within the health care system.

Monday, April 19

4:00 p.m.–4:30 p.m. ET



Advancing Leadership in Neurology

Microaggressions: How to Effectively Address Discrimination and Unprofessional Behavior

Speaker(s): Lauren R. Moo, MD
Ezgi Tiryaki, MD, FAAN

Description: The presenters will provide a succinct overview of how pervasive this problem is in health care, explain why it is crucial to address this issue at all levels of an organization, and share simple strategies and tools that one can use to disrupt the dynamic.

6:00 p.m.–6:30 p.m. ET



Advancing Leadership in Neurology

Negotiation Techniques and Tools

Speaker(s): Selena Rezvani

Description: This talk is designed to engage you intellectually, emotionally, and socially. Programming full of fresh ideas is still being finalized, so check back online for the most up-to-date information.

Tuesday, April 20

2:00 p.m.–2:30 p.m. ET



Advancing Leadership in Neurology

How to Delegate

Speaker(s): Ralph L. Sacco, MD, MS, FAHA, FAAN

Description: The program will use examples of ways effective leaders can emphasize team work and enhance efficiency through delegation and “distributed leadership.”

VIRTUAL PROGRAMS BY TOPIC

4:00 p.m.–4:30 p.m. ET



Advancing Leadership in Neurology Leadership Communication in a Virtual World

Speaker(s): Mona Bahouth, MD

Description: This talk is designed to engage you intellectually, emotionally, and socially. Programming full of fresh ideas is still being finalized, so check back online for the most up-to-date information.

6:00 p.m.–6:30 p.m. ET



Advancing Leadership in Neurology Health Care Disparities in Populations

Speaker(s): Alejandro Vargas, MD
Sharon Lewis, MD

Description: This talk will highlight issues concerning health care disparities related to neurology. We will also provide an open forum for discussion on tackling this obstacle and constructive ways to promote awareness.

Wednesday, April 21

4:00 p.m.–4:30 p.m. ET



Advancing Leadership in Neurology EDI 101 for Neurology Leaders: The Benefit of Diversity on Your Team

Speaker(s): Lynn Gordon, MD, PhD
Victoria S. Pelak, MD, FAAN

Description: The benefits of diversity include delivering better patient care, creating innovations in research, improving team-building, and enhancing the working and learning environments. In this session we will use a short presentation of the business case for diversity followed by a case-based discussion to identify pearls and pitfalls in achieving a diverse workforce in neurology.

6:00 p.m.–6:30 p.m. ET



Advancing Leadership in Neurology Do I Need A Coach, Sponsor, or Mentor? Do I Know the Difference?

Speaker(s): Robert C. Griggs, MD, FAAN
Gabriele C. De Luca, MD, PhD, FAAN
Petra Kaufmann, MD, FAAN

Description: This program will consider ways in which neurologists in various career stages can

get advice, mentoring, and help in making career choices or changes. The faculty include leaders who have benefited from the help of other mentors and who have had careers working with students, trainees, faculty, and practitioners to help them make well-reasoned decisions about “what’s next” in their professional lives.

Date TBD

Time TBD



Advancing Leadership in Neurology Managing Neurologic Disorders in Transgender and Gender Diverse Patients

Speaker(s): Eric Kaiser, MD, PhD

Description: This presentation will review approaches to management of neurologic conditions in transgender and gender diverse patients with a specific focus on headache, stroke, and epilepsy. We will specifically discuss clinical presentation, epidemiology including influences of comorbid disorders, potential effects of gender-affirming hormone therapy, and approach to treatment of these neurologic disorders in this population.

Time TBD



Advancing Leadership in Neurology Navigating Conflict in a Virtual World

Speaker(s): Barbara L. Hoese

Description: This talk is designed to engage you intellectually, emotionally, and socially. Programming full of fresh ideas is still being finalized, so check back online for the most up-to-date information.

Movement Disorders

Saturday, April 17

12:00 p.m.–1:00 p.m. ET



C7: The Dystonias: Diagnosis, Treatment, and Update on Etiologies

Director(s): Marta San Luciano, MD

Description: Dystonia is a frequent but often misdiagnosed disorder. Using both a didactic format and video, faculty will address the clinical spectrum and classification of the dystonias, discuss methods of diagnostic evaluation, present genetic etiologies of dystonia and discuss genetic testing, and review medical, surgical, and other treatment strategies.

2:00 p.m.–3:00 p.m. ET



S3: Movement Disorders 1

4:00 p.m.–5:00 p.m. ET



C15: Update in Movement Disorders 1

Director(s): Deborah Hall, MD, PhD, FAAN

Description: This program will provide participants with the latest news on movement disorders. Speakers will focus on Parkinson's disease, dystonia, tremor, and chorea and will briefly discuss the most important news in other movement disorders. The program will guide the attendees through four domains: update on phenomenology and genetics, on neuropathology, on neuroimaging and new treatments. *This program complements Update in Movement Disorders 2 and Update in Movement Disorders 3, but covers independent topics.*

Sunday, April 18

2:00 p.m.–3:00 p.m. ET



S8: Movement Disorders 2

6:00 p.m.–7:00 p.m. ET



C35: Update in Movement Disorders 2

Description: This talk is designed to engage you intellectually, emotionally, and socially. Programming full of fresh ideas is still being finalized, so check back online for the most up-to-date information. *This program complements Update in Movement Disorders 1 and Update in Movement Disorders 3, but covers independent topics.*

Monday, April 19

8:00 a.m.–9:00 a.m. ET



C41: Update in Movement Disorders 3

Director(s): Tanya Simuni, MD, FAAN

Description: This program will provide participants with the latest news on movement disorders. Speakers will focus on update on clinical trials in parkinson's disease and related disorders (PSP, MSA), as well as an update on clinical trials in Huntington's disease. *This program complements Update in Movement Disorders 1 and Update in Movement Disorders 2, but covers independent topics.*

Tuesday, April 20

2:00 p.m.–3:00 p.m. ET



C65: Diagnosis and Treatment of Functional Movement Disorders

Director(s): Alberto J. Espay, MD, FAAN

Description: Functional movement disorders are common problems, but they can be difficult to diagnose and treat. This program will first consider the clinical features that help make the diagnosis based on positive elements and not rely only on ruling out organic disorders. Selected movement phenotypes can have laboratory-supported diagnosis using clinical neurophysiology. Treatment begins with communicating the patient's diagnosis clearly and compassionately and includes physical therapy, psychotherapy, and multidisciplinary treatments.

Wednesday, April 21

2:00 p.m.–3:00 p.m. ET



S27: Movement Disorders 3

4:00 p.m.–5:00 p.m. ET



C86: Atypical Parkinsonisms

Director(s): Irene Litvan, MD, FAAN

Description: Nonmotor and atypical features of Parkinson's disease (PD) remain prominent in the disease, occurring in prodromal PD, to early in the disease course, to advanced stages. Nonmotor symptoms affect quality of life, and our understanding of their pathophysiology and management has increased. Faculty will cover selected topics of nonmotor features in these two sessions, providing current information on clinical symptoms, pathophysiology, and management. Topics will include cognition, behavior and mood, sleep and fatigue, autonomic dysfunction, and sensory changes affecting olfaction and vision.

VIRTUAL PROGRAMS BY TOPIC

MS and CNS Inflammatory Disease

Saturday, April 17

2:00 p.m.–3:00 p.m. ET



C10: Multiple Sclerosis Overview

Director(s): Lilyana M. Amezcua, MD, FAAN

Description: Diagnosis and treatment of multiple sclerosis and related disorders are getting more complex. Through a case-based approach, including common and uncommon scenarios, we will discuss issues related to diagnosis and treatment choices, including starting, monitoring, switching, and stopping disease-modifying therapies.

2:00 p.m.–3:00 p.m. ET



S2: MS and CNS Inflammatory Disease 1

Sunday, April 18

4:00 p.m.–5:00 p.m. ET



S11: MS and CNS Inflammatory Disease 2

Monday, April 19

8:00 a.m.–9:00 a.m. ET



C39: Multiple Sclerosis Therapy: Disease-modifying Treatment

Director(s): Jacqueline Bernard, MD, FAAN

Description: The use of disease-modifying treatments (DMTs) in MS is one of the most rapidly evolving therapeutic areas in neurology, and several new DMTs have been FDA-approved since this course was given last year. As new and more effective treatments have become available, and due to COVID-19, decision-making regarding MS DMTs has become more complex for both neurologists and people with MS. This course will review the mechanisms of action and the risk-benefit ratios of the DMTs and delve into different treatment paradigms, risk mitigation strategies, sequencing considerations, and shared decision-making.

Tuesday, April 20

4:00 p.m.–5:00 p.m. ET



S25: MS and CNS Inflammatory Disease 3

Wednesday, April 21

2:00 p.m.–3:00 p.m. ET



S28: MS and CNS Inflammatory Disease 4

4:00 p.m.–5:00 p.m. ET



C85: Multiple Sclerosis Therapy: Symptom Management

Director(s): Carrie Michelle Hersh, DO, MSc, FAAN

Description: Symptom management in multiple sclerosis (MS) remains a crucial determinant of quality of life, function, and safety in persons with MS, amidst the rapidly growing number of disease-modifying therapies. Symptoms of MS may be under-recognized and there are knowledge gaps among neurology health care providers regarding management of these common and frequent symptoms. Faculty will review the management of common MS symptoms including fatigue, spasticity, neuropathic pain, heat sensitivity, gait impairment, bladder and bowel dysfunction, and sexual dysfunction. The program will conclude with a Q&A session regarding management of these and other commonly encountered symptoms in persons with MS.

Neuro Trauma, Critical Care, and Sports Neurology

Saturday, April 17

2:00 p.m.–3:00 p.m. ET



C11: Neurologic Intensive Care 1

Director(s): Katharina M. Busl, MD, MS

Description: This program provides the essential foundation for the diagnosis and management of seizures/status epilepticus in the neuroICU and other ICUs and an approach to catastrophic brain injury and brain death. The speakers will utilize patient cases that emphasize the latest clinical tools and evidence-based approaches to improve patient outcomes. Attendees will be able to incorporate their knowledge and skills to provide high-quality neurocritical care in their own practice. *This program complements Neurologic Intensive Care 2, but covers independent topics.*

Sunday, April 18

6:00 p.m.–7:00 p.m. ET



C36: Neurologic Intensive Care 2

Director(s): Christopher Lawrence Kramer, MD

Description: This talk is designed to engage you intellectually, emotionally, and socially. Programming full of fresh ideas is still being finalized, so check back online for the most up-to-date information. *This program complements Neurologic Intensive Care 1, but covers independent topics.*

Tuesday, April 20

2:00 p.m.–3:00 p.m. ET



C63: Diagnosis and Management of Concussion

Director(s): Vernon B. Williams, MD, FAAN

Description: Faculty will explore more topics in acute concussion diagnostics and management, including a discussion on concussion clinic models and how to create a multidisciplinary concussion program; a critical review of concussion diagnostic tools such as SCAT, BESS, and King-Devick and how these may be best applied to the management of concussed athletes; and an advanced imaging tutorial which covers the techniques of modalities such as DTI, fMRI, and PET and how these may be applied to concussion diagnostics and prognosis.

Wednesday, April 21

2:00 p.m.–3:00 p.m. ET



S26: Neurocritical Care

Neuromuscular and Clinical Neurophysiology (EMG)

Saturday, April 17

12:00 p.m.–1:00 p.m. ET



C8: Neuromuscular Junction Disorders

Director(s): Mamatha Pasnoor, MD, FAAN

Description: Faculty will review the clinical presentation of autoimmune myasthenia gravis, discuss the differential diagnosis, antibody and electrodiagnostic testing of autoimmune MG. Faculty will also review the evidence behind current standard of autoimmune MG

care, discuss promising therapies in MG and developing treatment algorithms integrating conventional and emerging therapies.

Sunday, April 18

8:00 a.m.–9:00 a.m. ET



C21: Evaluation and Management of Autonomic Disorders

Director(s): Paola Sandroni, MD, PhD, FAAN

Description: This course will focus on an updated practical approach to central and peripheral autonomic disorders, focusing on diagnosis and management, and discussing new therapies now available.

4:00 p.m.–5:00 p.m. ET



S12: Neuromuscular Disease/Clinical Neurophysiology (EMG) 1

Monday, April 19

2:00 p.m.–3:00 p.m. ET



C44: Clinical Approach to Muscle Disease

Director(s): Margherita Milone, MD, FAAN

Description: Advances in genetics and immunology have significantly changed the approach to muscle diseases. Clinical history and recognition of specific clinical findings remain, however, crucial tools for the assessment of muscle diseases, especially in the adult patient population. In addition, the role of muscle pathology, while remaining fundamental for the diagnosis of acquired myopathies, has emerged as complementary instrument to genetics, not only in guiding molecular testing but also in assessing pathogenicity of genetic variants of unknown significance. Through presentation of common and challenging cases, faculty will elucidate the state-of-the-art approach to muscle diseases. Each case will be followed by an update on the topic.

Tuesday, April 20

2:00 p.m.–3:00 p.m. ET



S20: Neuromuscular/Clinical Neurophysiology (EMG) 2

VIRTUAL PROGRAMS BY TOPIC

4:00 p.m.–5:00 p.m. ET



C69: Motor Neuron Disease

Director(s): Eva Feldman, MD, PhD, FAAN

Description: Environmental exposures and the immune system are two amyotrophic lateral sclerosis (ALS) hot topics. There is growing appreciation on the environment's role for increasing ALS risk and the immune system's role as a therapeutic target in ALS. This session will provide the audience with an update of these exciting new areas of research in ALS.

Wednesday, April 21

8:00 a.m.–9:00 a.m. ET



C78: Peripheral Neuropathies

Director(s): A. Gordon Smith, MD, FAAN

Description: Peripheral neuropathies are common and affect almost eight percent of the population over age 55. New diagnostic and management options make rational therapies for PN increasingly possible. The high cost of certain diagnostic tests and therapies, along with the complexities involved in choosing which tests and treatments to initiate, complicate the management of patients with PN. Faculty will provide an approach to sensory neuropathies, including small and large fiber neuropathies and sensory neuronopathies; an overview of the clinical features, evaluation and management of suspected vasculitic neuropathy; and neuropathies associated with monoclonal gammopathies.

4:00 p.m.–5:00 p.m. ET



S32: Neuromuscular/Clinical Neurophysiology (EMG) 3

Neuro-oncology

Monday, April 19

3:00 p.m.–3:35 p.m. ET



HeadTalks

Neuro-oncology Around the World—Global Perspective on Brain Cancer Patient Care

Speaker(s): Maciej M. Mrugala, MD, PhD, MPH, FAAN

Description: During this panel discussion, speakers will introduce neuro-oncology as a

specialty, discuss the field and how it developed over the years, and then end with a question and answer session. The faculty will share how the specialty of neuro-oncology is practiced in their countries, what the training is like, and what patients face after the diagnosis. They will also discuss what support systems are available, what main barriers and difficulties are, what the insurance reimbursement is, and how neuro-oncologists are trained.

4:00 p.m.–5:00 p.m. ET



S16: Neuro-oncology

Tuesday, April 20

5:00 p.m.–7:00 p.m. ET



N4: Neuroscience in the Clinic: CAR-T Cell Therapy: Neurologic Applications and Neurotoxicity

Director(s): Holly E. Hinson, MD, MCR, FAAN
Antonio M. P. Omuro, MD

6:00 p.m.–7:00 p.m. ET



C76: Actualización en la Neuro-inmunología de Cáncer (Neuroimmunology of Cancer Update)

Director(s): Yazmin Odia, MD, FAAN, MS

Description: This talk is designed to engage you intellectually, emotionally, and socially. Programming full of fresh ideas is still being finalized, so check back online for the most up-to-date information.

Wednesday, April 21

2:00 p.m.–3:00 p.m. ET



C82: Core Principles of Brain Tumors

Director(s): Nimish A. Mohile, MD, FAAN

Description: Diagnosis, classification, treatment, and neurologic management of brain tumors is increasingly complex and in this course, we aim to simplify and demystify the core principles of managing brain tumors. Faculty will provide updates on classification, molecular alterations and evidence-based treatment of gliomas with a focus on what the practicing neurologist needs to know. Faculty will also discuss principles of neurologic, medical, and supportive care for the patient with a primary brain tumor. Any neurologist, in any setting, who

interacts with primary brain tumor patients will benefit from this comprehensive and practical overview.

Neuro-ophthalmology/ Neuro-otology

Saturday, April 17

4:00 p.m.–5:00 p.m. ET



C14: Neuro-ophthalmology 1

Director(s): Nancy J. Newman, MD, FAAN

Description: This is part 1 of a two part review of clinical neuro-ophthalmology designed to be a stand-alone course, however attendees are strongly encouraged to attend both parts. Case presentations will be followed by related short reviews. Topics specifically addressed in part 1 and 2 include the differential diagnosis of visual loss, the examination of the ocular fundus, optic neuropathies and papilledema, and diplopia with cases addressing a large number of clinical problems. Practical clinical and management issues will be emphasized. This course is designed to enhance interaction between participants and faculty. *This program complements Neuro-ophthalmology 2, but covers independent topics.*

Sunday, April 18

8:00 a.m.–9:00 a.m. ET



C20: Neuro-ophthalmology 2

Director(s): Valerie Biousse, MD

Description: This is part 2 of a two-part review of clinical neuro-ophthalmology designed to be a stand-alone course, however attendees are strongly encouraged to attend both parts. Case presentations will be followed by related short reviews. Topics specifically addressed in part 1 and 2 include the differential diagnosis of visual loss, the examination of the ocular fundus, optic neuropathies and papilledema, and diplopia with cases addressing a large number of clinical problems. Practical clinical and management issues will be emphasized. This course is designed to enhance interaction between participants and faculty. *This program complements Neuro-ophthalmology 1, but covers independent topics.*

Monday, April 19

2:00 p.m.–3:00 p.m. ET



C45: Neuro-otology

Director(s): Terry D. Fife, MD, FAAN

Description: This is an abbreviated course focusing on defining the clinical features of dizziness with particular attention given to two common forms of recurrent episodic and chronic dizziness, vestibular migraine and persistent postural perceptual dizziness (PPPD). The discussion will include how to diagnose and distinguish each condition and when to suspect they co-occur and how to manage each. Acute onset of vertigo can be an indication of acute benign paroxysmal positional vertigo, vestibular neuritis, or stroke. The course also addresses how to distinguish these from one another, which is particularly important in the acute care setting.

Neuro-rehabilitation

Monday, April 19

2:00 p.m.–3:00 p.m. ET



C46: Neck Pain, Cervical Spinal Stenosis, Cervical Radiculopathy, and Cervical Spondylotic Myelopathy

Director(s): J. D. Bartleson, MD, FAAN

Description: Neck and Back pain are the second most common symptoms for which patients seek the care of neurologists. As a result, neurologists need to become experts in the diagnosis and care of patients with common spine disorders. However, care of these patients continues to be predominantly learned “on the fly” rather than subjected to the same didactic educational rigor applied to classic neurologic diseases. The cost to society, in both dollars and lost productivity, is enormous. Essential components in the care of these patients, including the ability to integrate the neurologic examination with important radiologic findings on cervical spine imaging, depends on neurologic expertise. This program is designed to improve the competence of neurology care providers in the management of common cervical spine disorders, skills not commonly taught to neurology residents or fellows during training.

VIRTUAL PROGRAMS BY TOPIC

Wednesday, April 21

6:00 p.m.–7:00 p.m. ET



C91: Neuro-rehabilitation Update

Director(s): Carolin Dohle, MD

Description: Neurorehabilitation is an important part of the continuum of care of neurological patients. The role of neurorehabilitation has changed in recent years to care for more acutely ill patients. Several new technologies exist to enhance the spectrum of therapeutic modalities. We will discuss how neurorehabilitation ties into the continuum of patient care, how neurorehabilitation can help improve the overall quality of care, and describe novel technologies available today in the neurorehabilitation setting.

Pain and Palliative Care

Monday, April 19

2:00 p.m.–3:00 p.m. ET



C46: Neck Pain, Cervical Spinal Stenosis, Cervical Radiculopathy, and Cervical Spondylotic Myelopathy

Director(s): J. D. Bartleson, MD, FAAN

See complete description on [page 43](#).

Tuesday, April 20

4:00 p.m.–5:00 p.m. ET



S24: Pain and Palliative Care

Wednesday, April 21

2:00 p.m.–3:00 p.m. ET



C84: Core Concepts in Pain Management

Director(s): Gil I. Wolfe, MD, FAAN

Description: Principles and challenges behind the management of neuropathic pain related to peripheral nervous system disorders will first be discussed. Then pharmacological and other approaches in managing these challenging patient issues will be covered in greater detail.

Practice, Policy, and Ethics

Saturday, April 17

9:00 a.m.–9:20 a.m. ET



Pioneering Policy, Practice, and Performance: Staying Ahead of Change

Talks for Trainees: How to Negotiate Your Employment Contract

Speaker(s): David A. Evans, MBA
Eva K. Ritzl, MD, FAAN

Description: The course is designed to teach the basics of negotiation and how to apply them to salary negotiations.

2:00 p.m.–3:00 p.m. ET



Pioneering Policy, Practice, and Performance: Staying Ahead of Change

The Neurology of Video Games

Speaker(s): Pearce Korb, MD, FAAN
Daniel Joseph Ackerman, MD
Jose H. Posas, MD, FAAN
Eric Anderson, MD, PhD, FAAN

Description: This talk is designed to engage you intellectually, emotionally, and socially. Programming full of fresh ideas is still being finalized, so check back online for the most up-to-date information.

3:00 p.m.–3:20 p.m. ET



Pioneering Policy, Practice, and Performance: Staying Ahead of Change

Different Practice Models for Success

Speaker(s): Andrew M. Wilson, MD, MBA

Description: Innovative care and payment models have spawned during the shift from fee-for-service to pay-for-performance programs. This presentation will explore neurologic care models beyond the typical fee-for-service, in-person practice. The speakers will discuss pros and cons of the care model, how the care model supports value-based care, and how these models may be impacted by the COVID-19 pandemic. Examples come from case studies derived from AAN members and may include telemedicine, concierge medicine, accountable care organizations, fully capitated models, and more.

4:00 p.m.–4:20 p.m. ET

**Pioneering Policy, Practice, and Performance: Staying Ahead of Change****FMLA, Disability, Legal Questions, and Other Paperwork****Speaker(s):** Joseph V. Fritz, PhD

Description: The Family and Medical Leave Act has protected millions of American jobs over the last 28 years, since its enactment in 1993. Many who are suffering illness or celebrating new life have been afforded critical job security as a result of this act. There have been only two significant modifications to FMLA—one for military caregivers and the second during the COVID-19 pandemic. This discussion will provide best practices to manage your obligation under this sometimes complex, but most commonly used leave in the country. You will leave feeling more in control of your practice operations while maintaining your employees' rights AND your managers' sanity.

5:00 p.m.–5:20 p.m. ET

**Pioneering Policy, Practice, and Performance: Staying Ahead of Change****What If? Digital Assessments Transforming Neurology Practice****Speaker(s):** Allen L. Gee, MD, PhD, FAAN

Description: As the shortage of neurologists heightens and digital technologies continue to expand, we must consider ways which we can harness the power of digital technologies to code the neurologist brain and deliver better accessibility and care to everyone. Digital technologies can assess the external features of a body, characterize functional neurologic characteristics, and define the omics of the internal milieu. These assessments include external 3D imaging, vision analytics, speech analytics, gait and cognitive analytics, and digitized imaging. Developing machine learning and AI algorithms organize and contextualize this information to create knowledge. Further combining these background assessments with clinical care guidelines we can facilitate and enhance a neurologist insight regarding the patient and improve the efficiencies and accessibility of neurology care. There are developing revenue streams associated with these assessments, making this a cost effective and appropriate expansion of a clinical practice.

6:00 p.m.–6:30 p.m. ET

**Pioneering Policy, Practice, and Performance: Staying Ahead of Change****The Neurologist's Guide to Drug Pricing and Lowering Drug Prices for Your Patients****Speaker(s):** Nicholas Elwood Johnson, MD, FAAN
Kavita Nair, PhD

Description: As newer precision therapies enter the marketplace, neurologists are tasked with the responsibility of evaluating the cost of drugs in relation to their benefits for patients. An understanding of the drug distribution system allows neurologists to affect the pricing pressures that reduce patient access. This session will introduce attendees to the various drug pricing terms (e.g., AWP/AMP, WAC, ASP) used during the drug distribution process. It will provide an overview of the drug distribution system. Starting from manufacturers to wholesalers who distribute medications to retail and specialty pharmacies respectively. The flow of medications continues along the drug distribution chain where they are dispensed to patients. However, access to patients including formulary coverage and out-of-pocket are determined through pharmacy benefit managers and health plan insurers. A brief description of how rebates and other pricing approaches are generally implemented will also be discussed. Drug pricing models for different payers (federal, state, and commercial) will also be broadly highlighted. We will also provide an overview of advocacy activities neurologists can participate in to affect change. Attendees should gain a better understanding of the pricing pressures in the drug distribution system and how to consider these pressures in the practice of neurology.

6:00 p.m.–6:30 p.m. ET

**Academic Neurology****Key Findings from the Neurology Compensation Productivity Survey for Academics****Speaker(s):** J. Todd Barnes, MBA

Description: The Neurology Compensation and Productivity Survey is the largest survey dedicated to neurology and its subspecialties. Come explore valuable metrics such as salary, wRVUs, and on-call duties, and learn how to utilize this important data in the academic setting.

VIRTUAL PROGRAMS BY TOPIC

Sunday, April 18

9:00 a.m.–9:20 a.m. ET



Pioneering Policy, Practice, and Performance: Staying Ahead of Change

The Economics of APPs

Speaker(s): Neil A. Busis, MD, FAAN
Ashlea Lucas, PA

Description: Medicine is a team sport. Physicians and other qualified health care professionals, such as advanced practice providers, collaborate on the care of neurology patients in inpatient and outpatient settings. This program will explore the economics of this collaboration such as split/shared visits, incident-to visits, especially in view of the new outpatient evaluation and management coding rules for 2021 and various types of transitional care and chronic care management.

9:00 a.m.–9:30 a.m. ET



Academic Neurology

Turning “Diversity Tax” into Currency in Neurology

Speaker(s): Roy H. Hamilton, MD, MS, FAAN
See complete description on [page 20](#).

3:00 p.m.–3:20 p.m. ET



Pioneering Policy, Practice, and Performance: Staying Ahead of Change

Office Practice Mechanisms to Provide Services for the New CPT Codes

Speaker(s): Bruce H. Cohen, MD, FAAN

Description: In the last few years CPT has developed and implemented new codes for outpatient E/M coding (CPT Codes 99202-99215) as well as codes that allow providers to be paid for non-face-to-face medical care. These non-face-to-face codes include but are not limited to the Telemedicine Codes as well as Transitional Care, Complex Care Coordination, and for the time and effort that may be required immediately before or after the day of service. Although not all of these codes are currently being covered by many payers, as more patient care evolves away from fee-for-service and into capitated models, these codes effectively account for provider work effort.

4:00 p.m.–4:20 p.m. ET



Pioneering Policy, Practice, and Performance: Staying Ahead of Change

Telemedicine Fails: Limitations and Legal Liability

Speaker(s): Jaime Hatcher-Martin, MD, PhD
Eric Anderson, MD, PhD, FAAN

Description: Telemedicine is mainstream, but there are nuances that still differ in many ways from traditional practice. Come join us as we highlight critical errors that have occurred in telemedicine practice on case review and discussion basis and how to avoid them.

5:00 p.m.–6:00 p.m. ET



Pioneering Policy, Practice, and Performance: Staying Ahead of Change

Innovation and AI in Patient Care Panel

Speaker(s): Bill Simpson, PhD
Rishikesan Kamaleswaran
Ann H. Tilton, MD, FAAN

Description: This program will allow participants to understand recent artificial intelligence methods applied to neurologic case studies, including machine-learning-based methods for predicting the onset of Alzheimer’s disease.

6:00 p.m.–7:00 p.m. ET



Pioneering Policy, Practice, and Performance: Staying Ahead of Change

Meet Your Practice Support Network:
Ask Us Anything About Managing Your Practice

Speaker(s): Michael E. Markowski, DO, FAAN
Gurdes Bedi, MD, FAAN
Marcia Dover, MD

Description: This talk is designed to engage you intellectually, emotionally, and socially. Programming full of fresh ideas is still being finalized, so check back online for the most up-to-date information.

Monday, April 19

8:00 a.m.–9:00 a.m. ET



C42: How to Run a Practice: Business Strategies for Neurology Private Practices and the Future

Director(s): David A. Evans, MBA

Description: Neurology practices struggle with shrinking reimbursements and payer policies that add to practice costs and are a leading factor in provider burnout. Increasingly, providers are being measured for quality, utilization and cost, and their value questioned when payer data analytics indicate poor performance as compared to peers. This course will help neurologists improve documentation and an ability to produce compelling analytics that demonstrate their value in the eye of the payer and improve the ability to negotiate in a fee-for-service environment. Benefits may be an improved fee schedule, reduced prior authorization burden, network inclusion, and maintaining referral patterns from primary care physicians that increasingly must pay attention to the value of referred services.

9:00 a.m.–9:20 a.m. ET



Pioneering Policy, Practice, and Performance: Staying Ahead of Change

Non-epileptic Seizures—A Multidisciplinary Clinic Model, What Would Freud Say

Speaker(s): Laura A. Strom, MD

Description: This will be a presentation of a large-scale treatment model for non-epileptic seizures. We will discuss integrating multidisciplinary team embedded psychiatric care in neuro clinic. We will focus on methods of care delivery. Attendees will learn about leveraging online resources like online seizure diaries and questionnaires for standard of care assessments. We demonstrate a patient-facing progress report and clinician-based score sheet to track headway with treatment. We will show how metrics are connected to a secure site database. We also demonstrate a shared drive, allowing patients to upload video examples of their seizures. Our care delivery model is designed to automate scheduling, reminders, and data collection for best practices.

2:00 p.m.–3:00 p.m. ET



Pioneering Policy, Practice, and Performance: Staying Ahead of Change

Neurology Networking & Advocacy Through Social Media

Speaker(s): Kara Stavros, MD

Justine Ker

Jeff Kraakevik, MD

Aarti Sarwal, MD, FAAN

Kathrin LaFaver, MD, FAAN

Ima M. Ebong, MD

Description: Social media utilization for networking, advocacy, and education in neurology has notably increased over the years. This will be a panelist-based discussion and Q&A on how social media can be used to foster community and increase visibility for neurology-centered topics, as well as motivate current and inspire future neurologists.

4:00 p.m.–4:20 p.m. ET



Pioneering Policy, Practice, and Performance: Staying Ahead of Change

BusinessBytes: Why Should I Be Using Data from the Neurology Compensation and Productivity Survey in My Practice?

Speaker(s): David A. Evans, MBA

Description: The Neurology Compensation and Productivity Survey is the largest survey dedicated to neurology and its subspecialties. Come explore valuable metrics such as salary, wRVUs, and on-call duties, and learn how to utilize this important data.

5:00 p.m.–5:20 p.m. ET



Pioneering Policy, Practice, and Performance: Staying Ahead of Change

Using Cybersecurity in Your Practice

Speaker(s): Leeann Garms

Description: This talk is designed to engage you intellectually, emotionally, and socially. Programming full of fresh ideas is still being finalized, so check back online for the most up-to-date information.

VIRTUAL PROGRAMS BY TOPIC

6:00 p.m.–6:20 p.m. ET



Pioneering Policy, Practice, and Performance: Staying Ahead of Change

The Midas Touchscreen: Turn Your App Idea into Gold

Speaker(s): Zachary N. London, MD, FAAN

Description: It seems like everybody and their dog has an idea for a medical app that would be wildly popular with health care professionals or patients, if only they knew how to get started. Bring those ideas (and your dog, if it's allowed) to this session, and we'll take the first step. First, we will explore how to tell a great app idea from a great idea that would be better executed on a different platform. We will then go over the nitty-gritty of amateur medical app development, from designing a mock-up, finding help with coding and graphic design, navigating copyrights, getting your app into the app store, and all the mysterious things that happen after that.

6:00 p.m.–7:00 p.m. ET



C58: Negotiating Like a Boss: Narrowing the Gender Gap

Director(s): Louise D. McCullough, MD, PhD

See complete description on [page 55](#).

Tuesday, April 20

9:00 a.m.–10:00 a.m. ET



Pioneering Policy, Practice, and Performance: Staying Ahead of Change

Talks for Trainees: Understanding Patients as Consumers

Speaker(s): Allison L. Weathers, MD, FAAN
Marsha Smith, MD, FAAN
Michael Anthony Leander Johnson, MD

Description: This talk is designed to engage you intellectually, emotionally, and socially. Programming full of fresh ideas is still being finalized, so check back online for the most up-to-date information.

2:00 p.m.–3:00 p.m. ET



Pioneering Policy, Practice, and Performance: Staying Ahead of Change

Gamified Coding Talk

Speaker(s): Brian T. Cabaniss, MD
Meghan Ashley Ward, MD

Description: This talk is designed to engage you intellectually, emotionally, and socially. Programming full of fresh ideas is still being finalized, so check back online for the most up-to-date information.

3:00 p.m.–4:00 p.m. ET



Pioneering Policy, Practice, and Performance: Staying Ahead of Change

Expanding the Neurology Care Team

Speaker(s): Robert M. Kropp, MD, FAAN
Calli Leighann Cook, DNP, FNP-C, FAANP
Herschel Francis Jacquay

Description: Challenges with medication adherence, medication errors, treatment failures, and adverse drug events contribute to avoidable morbidity and mortality. Medication management consultations by pharmacists have been shown to address and improve these challenges, but few practices can afford to hire their own pharmacist. This program will describe a model that offers the services of a tele-pharmacist to the patients of ANY size practice at no cost to the neurologist.

4:00 p.m.–4:20 p.m. ET



Pioneering Policy, Practice, and Performance: Staying Ahead of Change

The Daily Coding Struggle: How to Make It Work

Speaker(s): Korwyn Williams, MD, PhD, FAAN

Description: This talk is designed to engage you intellectually, emotionally, and socially. Programming full of fresh ideas is still being finalized, so check back online for the most up-to-date information.

6:00 p.m.–7:00 p.m. ET



C74: Access in Academic Neurology: Strategies to Improve Access and Improve Ambulatory Clinic Workflow

Director(s): Faculty

See complete description on [page 56](#).

6:00 p.m.–6:20 p.m. ET



Pioneering Policy, Practice, and Performance: Staying Ahead of Change

Shared Medical Appointments in the Memory Clinic

Speaker(s): Elizabeth Joe, MD
Soo Borson, MD

Description: Caring for patients with cognitive disorders is time intensive and requires attention to caregiver as well as patient needs. Shared medical appointments (SMAs, also known as group medical visits), offer an alternative to routine follow-up care by combining ongoing education and medication management with psychosocial support for both patients and caregivers. In this session, we will discuss our experiences leading memory-focused SMAs and provide practical guidance on how to implement this care model in your own practice, including addressing privacy concerns, billing, and administrative challenges.

Wednesday, April 21

9:00 a.m.–9:20 a.m. ET



Pioneering Policy, Practice, and Performance: Staying Ahead of Change

Talks for Trainees: Why Should I Care About Coding?

Speaker(s): Kavita Shah, MD

Description: This talk is designed to engage you intellectually, emotionally, and socially. Programming full of fresh ideas is still being finalized, so check back online for the most up-to-date information.

9:00 a.m.–9:20 a.m. ET



Live Well

Your Career Environment

Speaker(s): Cormac A. O'Donovan, MD

See complete description on [page 29](#).

2:00 p.m.–3:00 p.m. ET



C83: Coding 101: E&M, Basic Procedures, Non-face-to-face, and New Codes

Director(s): Korwyn Williams, MD, PhD, FAAN

Description: This course is designed for neurologists and advanced practice providers as an introduction to Current Procedural Terminology (CPT) coding. There have been major changes in both procedural coding (EEG) and E/M coding that will affect every neurologist caring for patients. The process of how these codes are developed, are approved, and then assigned a value will be discussed briefly. Most patients' visits with their physician are classified as Evaluation and Management (E/M) services. In the last several years, non-face-to-face codes have been developed that could be used in the care of patients with neurological disease and will be part of the program.

2:00 p.m.–3:00 p.m. ET



Pioneering Policy, Practice, and Performance: Staying Ahead of Change

The Nerve: A Talk Show for Our Neurology Community About What Makes Us Nervous and What Gets on Our Nerves

Speaker(s): David A. Evans, MBA
Anup D. Patel, MD, FAAN
Daniel Joseph Ackerman, MD
Na Tosha N. Gatson, MD, PhD, FAAN

Description: This session is an edgy open forum to discuss topics in neurology (clinical practice, research, education) that complicate our careers or drives us to GET INVOLVED to make changes. We will discuss issues in: politics, trainee AND clinical education, and practice. Politically, we have failed to utilize the COVID crisis to properly identify the most vulnerable health groups as part of the plan to minimize disease. Trainee education has been limited for required rotations. Educators need social justice training. Clinical practice and fighting for RVU-neurologist value and utilizing APPs in our clinics!

VIRTUAL PROGRAMS BY TOPIC

3:00 p.m.–3:20 p.m. ET



Pioneering Policy, Practice, and Performance: Staying Ahead of Change

Project ECHO and Neurology: Demand Shaping and Bridging Knowledge Gaps

Speaker(s): Aiesha Ahmed, MD

Description: Project Extension for Community Healthcare Outcomes (Project ECHO) is a telemedicine based hub-and-spoke knowledge-sharing model designed to improve patient care by developing and supporting the competence of primary-care providers (PCPs). The structure of this educational model offers case-based format that includes discussion with specialists and other network PCPs. ECHO is designed to develop network clinicians' skills so that they can deliver high-quality care with less need for specialist assistance. This model enables PCPs to acquire specialized knowledge, and benefit from the shared experience of experts and peers to more effectively diagnose and care for patients in their local communities. ECHO provides an ongoing collaborative learning opportunity that can bridge the knowledge gap not addressed by traditional CME delivery methods. The experience of Neurology ECHO can provide proof-of-concept that this model of learning can be replicated in many locations to expand capacity to deliver best practice neurologic care.

4:00 p.m.–4:20 p.m. ET



Pioneering Policy, Practice, and Performance: Staying Ahead of Change

What Your Practice Administrator Wants You to Know

Speaker(s): Leeann Garms
Melissa Yu, MD, FAAN

Description: This talk is designed to engage you intellectually, emotionally, and socially. Programming full of fresh ideas is still being finalized, so check back online for the most up-to-date information.

5:00 p.m.–5:20 p.m. ET



Pioneering Policy, Practice, and Performance: Staying Ahead of Change

Lessons from the California Parkinson's Disease Registry and What's Next?

Speaker(s): Allan Ding Wu, MD, FAAN
Anup D. Patel, MD, FAAN

Description: We will discuss the current state of the mandatory population-wide California Parkinson's Disease Registry (CPDR). The goal of the CPDR is to determine incidence and prevalence of PD, assess disparities in PD risk, and facilitate epidemiologic research in PD. We highlight advantages, limitations, and current efforts to ascertain completeness, reliability, and validity of data submitted. Given the expanding interest in neurologic registries in other states, the CDC, and the AAN, we aim to show how lessons being learned can inform a future where health information technologies can leverage registries into key components of a true learning health care system for patients affected by PD.

Date TBD

Time TBD



Pioneering Policy, Practice, and Performance: Staying Ahead of Change

Talks for Trainees: Thinking About Practice Models in My Future Career

Speaker(s): Daniel Joseph Ackerman, MD

Description: This talk is designed to engage you intellectually, emotionally, and socially. Programming full of fresh ideas is still being finalized, so check back online for the most up-to-date information.

Time TBD



Pioneering Policy, Practice, and Performance: Staying Ahead of Change

ALSUntangled: 2019 Brainstorm Competition Winner

Speaker(s): Richard S. Bedlack, MD, PhD, FAAN

Description: Patients with ALS and other disabling, life-shortening neurologic diseases often self-experiment with alternative and off-label treatments (AOTs) they find on the internet. Internet information about AOTs can be incomplete or even inaccurate. Here we describe the evolution of ALSUntangled (www.alsuntangled.org).

alsuntangled.org), a program that systematically reviews internet AOTs to help patients make more informed decisions. Topics are suggested and voted on by patients and families. A large multi-national team of ALS clinicians and scientists use standard operating protocols to objectively review each topic, crowd source the draft, and ultimately publish each review via open access in a peer-reviewed journal and via podcast format.

Time TBD



Pioneering Policy, Practice, and Performance: Staying Ahead of Change

What Is Value?

Speaker(s): Robert M. Kropp, MD, FAAN

Description: Medicare and other payers are moving to value-based compensation, but exactly how does all that work? Moreover, all the terms associated with value-based compensation sound alike and are confusing. This program will offer a concise heuristic for understanding how payers pay and providers get paid in value-based compensation systems. Understanding and categorizing the basic terms of value-based compensation is the first step to successfully navigating these new compensation models.

Time TBD



Pioneering Policy, Practice, and Performance: Staying Ahead of Change

Moving the Needle Forward Together: An Opportunity to Dialogue with Physician Leaders from Epic and Cerner

Speaker(s): Allison L. Weathers, MD, FAAN

Description: This unique program in the form of a moderated panel will provide an opportunity to hear directly from the physician leaders of the two major electronic health record vendors used by the majority of neurologists. Participants will be able to learn about the extensive development that has occurred over the last several years to better tailor these systems for neurologists and neurology patients and will also learn about planned future optimizations. Most importantly, participants will be able to voice their ideas for optimizations and improvements.

Time TBD



Pioneering Policy, Practice, and Performance: Staying Ahead of Change

The How and Why of eConsults in Neurology

Speaker(s): Allan Ding Wu, MD, FAAN
 Zachary Grinspan, MD
 Susan T. Herman, MD, FAAN
 Lori Davis Noorollah, MD

Description: This talk is designed to engage you intellectually, emotionally, and socially. Programming full of fresh ideas is still being finalized, so check back online for the most up-to-date information.

Time TBD



Pioneering Policy, Practice, and Performance: Staying Ahead of Change

Using Axon Registry to Ease Your Data-collection Burden

Speaker(s): Laurice T. Yang, MD, MHA

Description: With more practice guidelines and quality-based incentives available, monitoring clinical improvement has become a part of normal daily practice. Through this talk, you will learn how the Axon Registry can help decrease your data collection burden while allowing you to focus on improving the quality of care for your patients.

VIRTUAL PROGRAMS BY TOPIC

Research Methodology, Education, and History

Saturday, April 17

8:00 a.m.–2:00 p.m. ET



C1: Clerkship and Program Directors Conference

Director(s): Rachel Marie E. Salas, MD, FAAN

Description: Clerkship and Program Directors are charged with developing and maintaining comprehensive, yet engaging, neurology curricula for learners, often in a tightly-packed time frame. Directors are often encouraged to develop innovative curricular opportunities to meet new local and national requirements and to inspire the pipeline, all with limited resources, time, and experience. Stepping outside the field of neurology allows directors to see and experience what other educators are doing and to learn new techniques and insights in education. Attendees will learn from non-neurologist educators on how to bring new activities around inclusion, implicit bias, mindfulness, wellness and art into your program.

2:00 p.m.–5:00 p.m. ET



C12: Resident Basic Science 1: Neuropharmacology

Director(s): Raymond Price, MD, FAAN

Description: Neurology now has an “embarrassment of riches” when it comes to pharmacological treatment. As our understanding of the basic neurobiology of disease progresses, this pharmacopeia continues to expand and to involve novel agents. Faculty will review how new treatments are integrated into the existing treatments with an emphasis on clinical applications for the treatment of epilepsy, neuromuscular disorders, neuro-ophthalmology, neuroimmunology, headache, and movement disorders. Presentations will include discussion of evidence-based drug selection including both efficacy and cost through illustrative cases. *This program complements Resident Basic Science 2: Neuroanatomy: All the Lesions and Resident Basic Science 3: Neuropathology, but covers independent topics.*

2:00 p.m.–3:00 p.m. ET



C9: Mid-career Faculty Development Course

Director(s): Deborah Hall, MD, PhD, FAAN

Description: Neurologists who have or are looking to secure their first faculty position may not have developed the skill set needed to understand clinical requirements, how to negotiate with their chair, or how to maintain funding. This course seeks to fill this gap in programming and increase the likelihood of success for neurologists at this level of their career. This program will focus on faculty finances, negotiation skills, and advice on how to sustain an academic career, with time for questions at the end. Speakers will be senior neurologists and chairs who have special skill sets in these areas.

2:00 p.m.–3:30 p.m. ET

Futures in Neurological Research Boot Camp

Director(s): Deborah Hall, MD, PhD, FAAN

Description: This program will provide resources to medical students, residents, and fellows on successful research strategies and outcomes.

4:00 p.m.–5:00 p.m. ET



C16: Vital Roles of Clerkship Administrators and LCME Standards

Director(s): Celia Linton Walker, MHA
Lorie M. Wolfanger, BS

Description: The clerkship coordinator role is frequently over-generalized as being an administrative one, wherein reality coordinators are expected to function at a higher level by managing people, budgets, and processing confidential information. Our aim is to present a cohesive job description for clerkship coordinators that will acknowledge coordinators' roles as part of the educational team. Additionally, the LCME segment allows participants to become more knowledgeable on how important their role is in meeting the required LCME standards for accreditation. This is designed for new and experienced clerkship coordinators/administrators.

4:00 p.m.–5:00 p.m. ET



C17: Funds Flow Models: What Works? What Doesn't Work?

Director(s): S. Andrew Josephson, MD, FAAN

Description: Funds flow models have become common in academic medicine. These arrangements between the School, Health System and Departments are complex and variable between institutions. In this session we will present a number of models of such arrangements, focusing on their impact specifically on neurology departments, giving the attendee tools and perspectives that can be used during funds flow design and negotiations.

Sunday, April 18

8:00 a.m.–9:00 a.m. ET



C22: Telecommunication and How to Create Effective Virtual Teaching Material

Director(s): Tamara B. Kaplan, MD

Description: COVID-19 rapidly upended the delivery of medical education, as social distancing requirements and lockdowns required a shift to virtual learning. These changes present challenges for educators of neurology who may traditionally rely on lecture, manipulation of cadaveric specimens, and hands-on examination training. Virtual learning offers its own strengths, however, so gaining experience with innovative virtual teaching methods can offer opportunities to augment neurologic education even after the pandemic has subsided. We will share best practices for optimizing the online learning environment, offer curricular modifications to successfully teach neurology and neuroanatomy virtually, and model teaching strategies for encouraging student engagement over virtual platforms.

8:00 a.m.–9:00 a.m. ET



C18: Shared Services

Director(s): Geoff White

Description: Departments in AMCs often have to consider novel solutions for business needs, especially for functions that they are having to fund without underwriting for their respective Dean's offices or health systems. Using examples of successful and not-so-successful shared service agreements we will explore options

that Neurology departments may employ to obtain the best solutions for their needs while mitigating risk to the greatest extent.

2:00 p.m.–6:30 p.m. ET



C28: Resident Basic Science 2: Neuroanatomy: All the Lesions

Director(s): Zachary N. London, MD, FAAN

Description: This course will present an organized and succinct overview of neuroanatomy. The course will employ a lesion-based approach to functional anatomy of the central and peripheral nervous system, reflecting the importance of neuroanatomic localization as the foundation of clinical neurology. *This program complements Resident Basic Science 1: Neuropharmacology and Resident Basic Science 3: Neuropathology, but covers independent topics.*

2:00 p.m.–3:00 p.m. ET



C26: Service Line Models: Successes and Challenges

Director(s): Barbara G. Vickrey, MD, MPH, FAAN

Description: Service lines are an increasingly common strategy being deployed by health care delivery systems, often initiated at the enterprise level. Neuroscience services lines may vary considerably in scope and how they are introduced and managed, and in the extent to which the organizational and financial structure affects the research and education missions of Departments of Neurology. Through case studies, faculty will present findings from a range of institutions and models of neuroscience service lines, and will facilitate discussion of lessons learned regarding how to optimally engage in service line implementation from an academic neurology department perspective.

VIRTUAL PROGRAMS BY TOPIC

4:00 p.m.–5:00 p.m. ET



C32: Complex Scheduling in an Academic Neurology Department

Director(s): Matthew Stowe, JD

Description: Academic medical centers struggle to manage the complex schedule of neurology faculty and providers whose effort supports multiple missions across numerous specialties and locations. Speakers will discuss the broad impact of scheduling issues, present two successful case studies, and engage the audience in a discussion about creating a system that effectively allocates faculty effort to activities while balancing missions, meeting productivity and revenue goals, and avoiding provider burnout.

6:00 p.m.–7:00 p.m. ET



C34: How to Design Meaningful Clinical Trials

Director(s): Laurie Gutmann, MD, FAAN

Description: Clinical research design methodology is important not only to the development of a clinical trial but also in understanding the results of a reported clinical trial. Major flaws in trial design include: designing a phase 2 trial that does not lead to a stronger phase 3 trial, choosing outcome or endpoint measures that either do not answer the question being raised by the trial or do not inform the next step in the study, or designing the phase 2 trial as an underpowered phase 3 trial. This program will review trial design for early phase trials and review examples motivated from experience gained as part of the NINDS-funded clinical trials methods training course that aim to avoid these pitfalls.

6:00 p.m.–7:00 p.m. ET



C38: Faculty Compensation Plans

Description: This talk is designed to engage you intellectually, emotionally, and socially. Programming full of fresh ideas is still being finalized, so check back online for the most up-to-date information.

Monday, April 19

8:00 a.m.–9:00 a.m. ET



C40: Digital Technology for Neurology Education: Creation, Curation, Collaboration

Director(s): Alexandra E. Hovaguimian, MD

Description: The global pandemic has drastically changed the way that neurologists interact with patients: while telecommunication has been a lifeline for patient care and advocacy, it has nonetheless unwittingly created a chasm between clinicians and patients, who may struggle to connect and communicate in the new digital realm. Now is the time to develop the know-how and skills to close that gap and improve patient communication, engagement, and education while also developing essential and effective tele-advocacy skills. This course provides learners with a digital toolkit for creating, finding and disseminating online resources for patients at low or no cost, including blogs, videos, podcasts, animation, and the appropriate use of social media to help bridge the gap between the neurophobic patient, the technophobic doctor, and improve care for all populations.

2:00 p.m.–6:00 p.m. ET



C48: Research Career Symposium

Director(s): Amy W. Amara, MD PhD

Description: This program will provide information to early-stage neurologists (senior residents, fellows, instructors, and junior faculty) who are embarking on an academic career in neurologic research (clinical, basic, or translational) with a focus on acquiring a career development award. Didactic and small group sessions will focus on preparing for NIH grants, other funding opportunities, critical insights on work/life balance, mentor-mentee relationships, and academic career development. Attendees will also have the opportunity to network with prior American Brain Foundation grant recipients to learn about science and successful research paths.

2:00 p.m.–6:30 p.m. ET



C49: Resident Basic Science 3: Neuropathology

Director(s): Suzanne Powell, MD

Description: Neuropathology is a rapidly and continuously evolving discipline encompassing basic, translational, and clinical neuroscience. A thorough understanding of the basics of neuropathology allows a deeper insight into the mechanisms and manifestations of neurologic disease and provides a basis for more complete understanding of neuroimaging and laboratory studies. A fast-paced, visually oriented review of central nervous system neuropathology including tumors (and molecular signatures), demyelinating disease, infections, cerebrovascular disease, toxic/metabolic disorders, neurotrauma, and neurodegenerative diseases will be provided. *This program complements Resident Basic Science 1: Neuropharmacology and Resident Basic Science 2: Neuroanatomy: All the Lesions, but covers independent topics.*

4:00 p.m.–5:00 p.m. ET



S17: History of Neurology

4:00 p.m.–5:00 p.m. ET



C53: Creating a Roadmap for a Diverse Workforce in Academic Neurology

Director(s): Roy H. Hamilton, MD, MS, FAAN

Description: Neurology departments throughout the United States face innumerable challenges when it comes to increasing diversity, creating equity, and fostering inclusion. The purpose of this program is to bring together constituents in academic neurology departments to begin creating a roadmap for a diverse workforce in the field of neurology. The program is intended for diversity officers, department members, and department leaders with an interest in creating more diverse, equitable, and inclusive environments within their departments. We will be focusing on three topics: gender equity, strengthening the pipeline for under-represented minorities, and building a more inclusive culture. The program will consist of small group breakout sessions that will discuss each of these topics with the goal of identifying specific strategies to help move each issue forward in their departments as well as specific strategies the AAN can adapt. This two-hour session is part of the AAN Academic Initiative

and is designed for diversity officers in academic departments, students and trainees interested in diversity, department leadership, and any faculty or staff members interested in improving diversity within academic neurology.

6:00 p.m.–7:00 p.m. ET



C58: Negotiating Like a Boss: Narrowing the Gender Gap

Director(s): Louise D. McCullough, MD, PhD

Description: Women face unique challenges when it comes to negotiating. Many feel that they will be viewed as “unlikable” or less of a “team player” when they do it. Women worry that pushing for more money will damage their image. When women advocate for themselves, they are negotiating more than just a higher salary, they are showcasing their worth, which may make women uncomfortable. Assertiveness is an essential quality for successful negotiation, and a trait that needs to be encouraged and developed. Negotiating is difficult, and it is important that you are prepared. This session will discuss some of the specific barriers that women face when negotiating, will provide skills for negotiation (preparing talking points, developing milestones and structure for future raises, and expectations), and will help you highlight the benefits to the institution or corporation for recognizing your work. Several illustrative examples of unsuccessful and successful negotiations with audience feedback will be highlighted.

Tuesday, April 20

1:30 p.m.–5:45 p.m. ET

NIH Day

Description: Join our partners from the NIH regarding their programs, strategic focus, and funding priorities.

VIRTUAL PROGRAMS BY TOPIC

2:00 p.m.–3:00 p.m. ET



C67: Education Research Methodology Course

Director(s): Andrew Mebane Southerland, MD

Description: For the many neurologists who are clinician educators, the prospect of conducting independent research may be daunting. However, education research offers the opportunity to answer important scientific questions in neurology education while generating academic productivity from one's role as an educator. Faculty will provide an overview of education research methods that will help formulate good ideas and education research questions into tangible project proposals. We hope that this session will serve as a springboard for attendees to take their project ideas and turn them into future grant proposals and publications, while serving as a source for ongoing mentorship in education research methodology.

2:00 p.m.–3:00 p.m. ET



C66: Teleneurology for Residents

Director(s): Raghav Govindarajan, MD, FAAN

Description: This talk is designed to engage you intellectually, emotionally, and socially. Programming full of fresh ideas is still being finalized, so check back online for the most up-to-date information.

4:00 p.m.–5:00 p.m. ET



S23: Research Methodology and Education

6:00 p.m.–7:00 p.m. ET



C74: Access in Academic Neurology: Strategies to Improve Access and Improve Ambulatory Clinic Workflow

Director(s): Faculty

Description: Faculty will discuss opportunities to improve access through optimal utilization of templates and leveraging of abilities of advanced practice providers. Faculty will also review methodology to develop a staffing model for ambulatory neurology clinics at academic centers, as well as strategies to improve clinic workflow.

6:00 p.m.–7:00 p.m. ET



C75: Managing Education in a Virtual World

Director(s): Christine R. Berry, BS
Peggy Noltz

Description: This talk is designed to engage you intellectually, emotionally, and socially. Programming full of fresh ideas is still being finalized, so check back online for the most up-to-date information.

Wednesday, April 21

8:00 a.m.–9:00 a.m. ET



C80: History of Neurology: The Development of Neurologic Subspecialties

Director(s): Elizabeth A. Coon, MD

Description: By the middle of the 20th century, neurology had emerged as an established specialty. Subsequent advancements in neuroscience, technology, treatments, and an increasing complexity of clinical neurologic care led to the emergence of subspecialty care in neurology. This course will focus on the people and events which contributed to selected subspecialties. Faculty will provide an historical overview of subspecialty development including highlighting important figures central to their individual subspecialty, as well as the role of new technologies, the description of disease entities and their treatments, as well as the formation of subspecialty societies and their journals, and board certification.

8:00 a.m.–9:00 a.m. ET



C77: Psychiatry for Neurology Residents

Director(s): Sheldon Benjamin, MD, FAAN

Description: Neurology residents are required by the ACGME to have at least one month FTE of training in psychiatry during residency. The only specific directive for this experience is that it include cognition and behavior. The medical knowledge competencies to be achieved during residency, though not necessarily during the rotation, include principles of psychopathology, psychiatric diagnosis, and therapy, and the indications for and complications of drugs used in psychiatry. Programs differ as to the type of psychiatric experience provided and the year of training in which it occurs. We will discuss the potential benefits and compromises inherent in

C = Course **N** = Neuroscience in the Clinic Session

ELA = Experiential Learning Area

NEW! = New in 2021

S = Scientific Session

CME = CME Credits Offered

the various rotation options and suggest some relevant topics and methods to include.

2:00 p.m.–3:00 p.m. ET

CME
1

NEW!

C81: Surviving Virtual Recruitment

Director(s): Rebecca Bernstein
Tristram Dammin

Description: This talk is designed to engage you intellectually, emotionally, and socially. Programming full of fresh ideas is still being finalized, so check back online for the most up-to-date information.

4:00 p.m.–5:00 p.m. ET

CME
1

NEW!

C87: Child Neurology for Adult Neurology Residents

Director(s): Megan A. Waldrop, MD
Jennifer Anne Vermilion, MD

Description: This course will feature two discussions on subspecialty cases and treatments for childhood neurologic conditions you may encounter as an adult neurology resident.

6:00 p.m.–7:00 p.m. ET

CME
1

C89: Faculty Development: Enhancing Your Role in Student and Resident Training

Director(s): Vicki Shanker, MD, FAAN

Description: In the past year faculty have had the daunting task of addressing two main challenges in the medical curriculum- identifying and addressing wellness issues in our learners and adapting to the new tele-platforms for education, both for lectures and for patient care. Faculty will highlight: (1) the etiology of trainee burnout, highlighting COVID-19 challenges (2) successful approaches to addressing trainee burnout. Faculty will also review up-to-date literature relevant to teaching faculty using tele-platform and provide specific pearls for (1) teaching in the inpatient/outpatient setting, (2) running a small group session, (3) lecturing remotely.

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THE SAME WITHOUT YOU.**

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April 21, 2021

Join us virtually to celebrate the resilience and hard work of the outstanding researchers and advocates fighting against brain diseases and disorders. This engaging virtual event will include a live musical performance, craft cocktail demo, touching patient stories and more!

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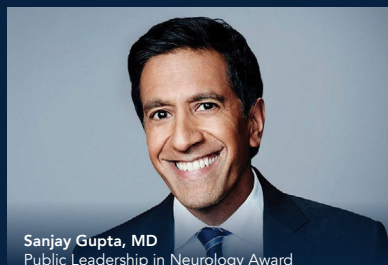
AMERICAN BRAIN FOUNDATION



Jim Cramer
Master of Ceremonies



Cindy McCain
Commitment to Cures Award



Sanjay Gupta, MD
Public Leadership in Neurology Award

VIRTUAL PROGRAMS BY TOPIC

Sleep

Sunday, April 18

2:00 p.m.–3:00 p.m. ET



S9: Sleep

3:00 p.m.–3:20 p.m. ET



Live Well

The Sleep Mythbuster! Illuminating the Facts and Fiction Toward Achieving the Sleep Healthy Neurologist

Speaker(s): Logan D. Schneider, MD

Description: This session will focus on exploring the sleep habits and misconceptions of the audience to provide insight on their personal sleep behaviors, attitudes, and knowledge in order to provide evidence-based support for or debunk myths surrounding those views and perceptions. He will also provide the latest recommendations on how to promote sleep health in your own personal life.

Tuesday, April 20

8:00 a.m.–9:00 a.m. ET



C62: Approaching the Management of Common Sleep Disorders

Director(s): Logan D. Schneider, MD

Description: Sleep disorders are highly prevalent in the neurologic patient population. While many neurologic disorders can result in sleep disorders, the presence of an untreated sleep disorder often portends worsened outcomes for neurologic patients. Despite these justifications for treating sleep disorders, most neurologists are untrained in the recognition of even common disturbances of sleep and wake that may affect their patient's quality of life and neurologic condition. Faculty will address how to not only recognize but also think about, triage, and treat sleep disorders in your patients, using the skills, diagnostics, and prescriptions you are already familiar with.

Wednesday, April 21

1:00 p.m.–1:20 p.m. ET



Live Well

Insomnia

Speaker(s): Andrew James Westwood, MD, FAAN

Description: This talk is designed to engage you intellectually, emotionally, and socially. Programming full of fresh ideas is still being finalized, so check back online for the most up-to-date information.

2:00 p.m.–4:00 p.m. ET



N5: Neuroscience in the Clinic: Melatonin and Disrupted Sleep in Neurologic Disorders

Director(s): Temitayo Oyegbile, MD, PhD
Aleksandar Videnovic, MD, MSc, FAAN

Description: Adults and children with neurologic disorders such as Epilepsy, Migraine, Autism, Parkinson's, Stroke, and Concussion often experience significantly disrupted sleep. There is accumulating evidence suggesting that melatonin may play a role in this interaction between neurologic disorders and sleep disruption. This program will address what is known about the role of melatonin in brain activity, and how this may pertain to fluctuations in neurologic function and sleep abnormalities. The program will draw on examples from multiple sclerosis, Parkinson's, autism, headache, epilepsy, cerebrovascular disease, and other neurologic conditions. The program will also emphasize potential approaches to modulating the effect of melatonin to optimize sleep and treatment of neurologic disorders.

EXCLUSIVE VIRTUAL GOLD PROGRAMS BY TOPIC

Upgrade to Virtual Gold Registration for the best value with Annual Meeting On Demand. You'll get exclusive extended access through **March 31, 2022**, to all programming available through standard registration, the ability to claim additional CME, plus access to the below bonus sessions.

The program is subject to change. Visit [AAN.com/2021Program](https://aan.com/2021Program) for the most up-to-date information and more detail on each program.

Member Type	Upgrade Cost	Best Value
Student / Junior / Intern	\$79	
APP / Business Administrator / Researcher	\$169	
Neurologist / Physician Affiliate / Senior / Honorary	\$239	
Nonmember	\$379	

Aging, Dementia, Cognitive, and Behavioral Neurology

Behavioral Neurology



Director(s): Dylan P. Wint, MD

Description: Identification of structure-function relationships in the brain has been an important goal of behavioral neurology. Many new methodologies, studying both healthy controls and neurologically impaired individuals, have recently provided new insights into the networks of brain regions that underlie specific tasks or functions. Faculty will illustrate the contributions of a variety of modalities toward understanding the neural correlates of behavior and language functions. A cognitive neuroscience perspective will inform discussion of the component processes and brain systems subserving these behaviors. An efficient approach to the evaluation of patients with cognitive and behavioral disorders, including dementia and stroke, will be reviewed.

Autoimmune Neurology

Neuro-rheumatology: Neurologic Manifestations of Systemic Inflammatory and Autoimmune Disease



Director(s): Amanda Lee Piquet, MD

Description: An interdisciplinary faculty of neurologists and rheumatologists will provide an update on neuro-rheumatology - the neurologic manifestations of systemic inflammatory and autoimmune syndromes. This course will cover updates in rheumatological diagnosis, physical examination techniques, and interpretation of laboratory studies; discuss neurologic manifestations and treatment of systemic lupus erythematosus, Sjogren's syndrome, mixed connective tissue disease, rheumatoid arthritis, and antiphospholipid antibody syndrome; and review peripheral nervous system manifestations of rheumatological diseases.

EXCLUSIVE VIRTUAL GOLD PROGRAMS BY TOPIC

Cerebrovascular Disease and Interventional Neurology

Cerebrovascular Disease Prevention



Director(s): Kara A. Sands, MD

Description: Faculty will cover specific, rotating topics related to the prevention of a first or recurrent stroke, including changing epidemiology and lifestyle modifications, stroke prevention in women, and resuming anticoagulation after brain hemorrhage. There will be ample time for discussion and questions.

Telestroke



Director(s): Eric Anderson, MD, PhD, FAAN

Description: The use of telemedicine for acute stroke, commonly referred to as telestroke, is mainstream and its use is increasing. Telestroke is a widely accepted for its ability to bring neurologist expertise to the bedside rapidly and treat the time-sensitive nature of acute stroke. While the regulations that govern the use of telestroke lag behind the technology and practice, current regulatory changes and proposals are poised to make telestroke more accessible nationwide to patients and practitioners. Furthermore, advances in technology, networks, and metrics help to facilitate and improve good quality and expedient care through the use of this technology. With advances in endovascular treatment for stroke, telestrokeologists are increasingly involved in the selection of appropriate patients for thrombectomy as well as for thrombolysis.

Child Neurology and Developmental Neurology

Update in Child Neurology 2



Director(s): Elaine C. Wirrell, MD, FAAN

Description: This program will use illustrative cases to demonstrate how identification of epilepsy syndrome and etiology assist in choosing optimal therapies and limiting comorbidities in children with epilepsy and to demonstrate advances in the diagnosis and management of neonates with neurological problems. *This program complements Update in Child Neurology 1, but covers independent topics.*

Epilepsy/Clinical Neurophysiology (EEG)

Clinical Epilepsy 2: Advanced



Director(s): Carol M. Ulloa, MD, FAES

Description: Epilepsy surgery is the gold standard for treating drug-resistant epilepsy. A successful surgery is often defined as complete postoperative seizure-freedom. Patient goals are, however, more complex and require a more comprehensive approach at outcomes assessment. This talk will review the strengths and limitations of available outcome classification measures and propose a broader future vision. Additionally, the surgical discussion is often an overwhelming topic for patients due to inaccurate and heightened perception of risk. Minimally invasive epilepsy surgery options can make surgical evaluation more palatable to patients, which in turn can make epilepsy surgery counseling more successful. This talk examines how patients overestimate epilepsy surgery risk and discusses potential mitigation of those misperceptions with available minimally invasive options. *This program complements Clinical Epilepsy 1: Basics, but covers independent topics.*

Clinical EEG 2



Director(s): Alison M. Pack, MD, FAAN

Description: Faculty will provide an overview of the principles underlying the practice of clinical EEG. The presentations will emphasize aspects that are crucial to reading EEGs in clinical practice. Specific topics will be common normal patterns, normal variants that are commonly overinterpreted, artifacts, and guidance on how to generate meaningful EEG reports. *This program complements Clinical EEG 1, but covers independent topics.*

General Neurology

Neurogenetics



Director(s): Jacinda B. Sampson, MD, PhD

Description: Advances in molecular genetics and decreases in costs have expanded genetic testing options for clinicians. Through presentations of common and more challenging cases, faculty will discuss options for testing from individual gene, to panels, whole exome

and whole genome testing. We will discuss limitations of testing methodologies, and the challenges of variant interpretation. The practicalities of informed consent, insurance authorization, direct-to-consumer testing, vulnerable populations, and ethical principles will be covered. We will cover resources for genetic counseling, finding genetic tests and laboratories, and researching genetic testing results. Each case will be followed by an overview and update on the topic.

Neurologic Complications of Medical Disease



Director(s): Jose Biller, MD, FAAN, FACP, FAHA

Description: Neurology is closer to internal medicine than any other subspecialty. Brain and systemic diseases are linked by several pathogenetic mechanisms. Modern clinical medicine calls for versatility and multidisciplinary collaborative efforts to optimize the needs of individual patients. With the busy practitioner in mind, the aim of this program is to provide clinicians with a concise framework of the core neurologic manifestations and complications of a wide range of medical conditions, spanning all or most areas of medicine.

Mitochondrial Disorders in Neurology



Director(s): Michio Hirano, MD, FAAN

Description: Mitochondrial dysfunction accounts for an ever-increasing number of neurologic disorders (mitochondrial encephalomyopathies). Faculty will discuss basic concepts of mitochondrial biogenesis and the dual (and often overlapping) roles of mitochondrial DNA (mtDNA) and nuclear DNA (nDNA) in causing these frustratingly heterogeneous clinical disorders. The increasing application of new-generation exome sequencing is revealing novel pathogenic mechanisms and revising traditional classifications of mitochondrial diseases. In practical terms, faculty will cover the impact of new scientific knowledge on the diagnostic approach to mitochondrial diseases and to emerging experimental therapeutic options.

Good Neurology in Challenging Conditions: Lessons from Military Neurology



Director(s): Michele A. Gatheridge, MD

Description: Military neurologists deal with neurologic disease in unique settings including resource-limited combat theatres and humanitarian missions while treating patients faced with extreme physical demands. The 2017 National Defense Authorization Act encourages military health care providers to build cooperative partnerships with civilian systems to maintain military readiness, increasing opportunities for collaboration. Speakers for this course, including neurologists currently serving or who have served in the United States military, will provide updates on important topics identified in a large and unique population of active duty soldiers. The course will focus on chemical warfare and sleep-related trauma disorders.

Clinical Pearls: Learning from Complex Cases: Simple Lessons that Apply to Everyday Problems



Director(s): S. Andrew Josephson, MD, FAAN

Description: The successful busy clinical practice of neurology is dependent upon insightful and efficient bedside diagnostic clinical skills. Faculty will share their clinical experiences and observations in an interactive format to enhance and enrich the neurologist's ability to make effective and correct diagnoses with a goal on improving patient outcomes.

Headache

Hot Topics in Headaches and Related Disorders



Director(s): David W. Dodick, MD, FAAN

Description: This program will address a range of issues relevant to clinical practice that are developing or emerged in recent years. Faculty will cover important updates in the understanding of and management of headache in children and adolescents (with a particular focus on migraine), unusual primary headache disorders (with particular focus on the trigeminal autonomic cephalalgias), and concussion. The newest therapeutic advances will be covered to prepare physicians for what is to come in terms of novel treatments.

EXCLUSIVE VIRTUAL GOLD PROGRAMS BY TOPIC

Infectious Disease

Emerging Infectious Diseases of the Nervous System



Director(s): Christina Marra, MD, FAAN

Description: Rapid globalization and changes in climate have resulted in emergence, and in some cases reemergence, and spread of new pathogens and vectors that carry them. Many of these cause encephalitis, myelitis, fetal malformations, and unusual neurological complications. Neurologists need to have a good working knowledge of these diseases, since rapid diagnosis and intervention is key to treat the patient and to prevent the spread of the infection. Novel diagnostic techniques are also being rapidly developed that allow us to identify new pathogens in patients that were previously undiagnosed. This program will cover the evolving epidemiology of these pathogens, their neurological manifestations, disease pathogenesis, provide information on how to access novel diagnostic techniques, and discuss reporting requirements and management of these patients. Information will also be provided on how to access federal programs for these purposes.

Movement Disorders

Deep Brain Stimulation



Director(s): Joohi Jimenez Shahed, MD

Description: Deep brain stimulation (DBS) therapy is widely used to treat medically refractory movement disorders, including essential tremor, Parkinson's disease, and dystonia. Neurologists and neurology APPs may interact with DBS candidates and DBS patients at various stages, requiring a working knowledge base about a range of DBS topics. This session will provide clinicians a broad yet practical overview of such issues, including counseling patients who are considering DBS, identifying suitable candidates, establishing collaborative relationships with the specialty care team, understanding medication management and acute care dynamics across the spectrum of active DBS therapy, recognizing DBS-related hardware complications, and long-term outcomes.

Tourette Syndrome: Assessment and Management



Director(s): Tamara M. Pringsheim, MD, FAAN

Description: Tic disorders are a common reason for outpatient consultation for both child and adult neurologists. The assessment and management of people with tic disorders can be complex, due to the frequent presence of comorbid psychiatric disorders, and the availability of behavioral therapies and pharmacological treatments as potential therapies. Based upon the recently published AAN guidelines on the treatment to tics, faculty will guide attendees on the comprehensive evaluation of people with tics, the evidence to support the use of behavioral therapies and pharmacological treatments, and how to prescribe these interventions in clinical practice.

MS and CNS Inflammatory Disease

Treatment of Pediatric Multiple Sclerosis in the Current Era



Director(s): Brenda Banwell, MD, FAAN

Description: This program will provide a comprehensive view of the landscape of therapy for children and teens living with multiple sclerosis, MOG-related demyelination, and NMOSD. Presentations will include review of the available literature, update on status and outcome of ongoing clinical trials, and expert views of treatment strategies. Attendees will gain a practical, as well as in-depth, approach to management of their patients.

Neuromyelitis Optica Spectrum Disorders



Director(s): Dean M. Wingerchuk, MD, FAAN

Description: Neuromyelitis optica spectrum disorders (NMOSD) are a collection of clinical syndromes and neuroradiological accompaniments unified by their association with an autoantibody specific for the astrocytic water channel aquaporin-4 (AQP4). Recently revised diagnostic criteria for NMOSD, which include the classic transverse myelitis and optic neuritis attacks but also define additional brain, diencephalic, and brain stem syndromes, stratify the diagnosis based on whether AQP-IgG is detected or not. Faculty will present a state-

of-the-art review of NMOSD pathogenesis, diagnosis, AQP4-IgG assay interpretation, and the role of emerging autoantibodies associated with NMOSD clinical phenotypes (such as MOG-IgG) and summarize a practical approach to treatment and prevention of attacks.

Neuro Trauma, Critical Care, and Sports Neurology

Emergency Neurology: Evaluation of Coma, Meningitis, and Viral Encephalitis in the Emergency Room



Director(s): Anna Marisa Cervantes-Arslanian, MD

Description: Disorders of consciousness and possible CNS infections are common reasons for neurologic consultation from the emergency room. In the first half of the program, faculty will present an overview of the approach to evaluating a patient in coma, including identifying key diagnoses amenable to treatment. The second half will highlight evaluation and early management of patients with meningitis and encephalitis.

Neuromuscular and Clinical Neurophysiology (EMG)

Clinical EMG



Director(s): Devon I. Rubin, MD, FAAN

Description: Electrodiagnostic testing with nerve conduction studies, needle EMG, and neuromuscular ultrasound remains an important component of the evaluation of neuromuscular disorders. A variety of techniques may be used to establish a diagnosis and provide important information about the disease; in some cases, advanced or uncommon techniques are necessary. This course will review important, practical aspects related to techniques and interpretations of studies in common and uncommon neuromuscular disorders. Through several case vignettes, new advances and practical electrodiagnostic findings in several focal and diffuse neuromuscular disorders will be highlighted.

Small Fiber Neuropathies



Director(s): Julie Ann Khoury, MD

Description: Small fiber and autonomic neuropathies are common but often unrecognized conditions that affect the peripheral, somatic, and autonomic nervous systems. Through the presentation of didactic material and cases of varying complexity, faculty will facilitate a discussion of the pathophysiology, differential diagnosis, diagnostic evaluation, and therapy of these conditions.

Neuro-oncology

Neurologic Consultations in Cancer Patients



Director(s): Jaishri Blakeley, MD

Description: Faculty present high-yield concepts critical for the management of people with medical complications in the setting of primary brain tumor diagnoses and general neurology complications in the setting of systemic cancers. Primary concepts include neurologic diagnoses that mimic neoplasms, neurologic complications in the setting of cancer including the diagnosis and management of cancer and treatment associated stroke, neuropathy, seizure and delirium and common neurological and medical complications occurring in the setting of primary brain tumors.

Neuro-ophthalmology/ Neuro-otology

Now You See It, Now You Know It: Pathognomonic Neuro-ophthalmology Examination Findings



Director(s): Eric R. Eggenberger, DO, FAAN

Description: Faculty will present images and videos of specific or pathognomonic neuro-ophthalmology examination features (i.e., opsoclonus, blepharospasm, Kayser-Fleischer rings) as an unknown and, using the audience interaction, attendees will arrive at the correct diagnosis. One or two slides of additional information and further examples of the condition will follow. The format is designed to show the pathognomonic feature of a large number of different diseases so participants can quickly and accurately make the correct diagnosis.

EXCLUSIVE VIRTUAL GOLD PROGRAMS BY TOPIC

Ophthalmic Imaging for Neurologists: OCT and Funduscopy in the 21st Century



Director(s): Marc Dinkin, MD

Description: The optic nerve and retina can now be imaged quickly and accurately with widely available optical coherence tomography (OCT), handheld non-mydratric cameras, and iPhone attachments. A wealth of information is now available to provide diagnostic (papilledema in headache, macular edema with S1P modulators) and prognostic information and to monitor the effects of treatment (acetazolamide in idiopathic intracranial hypertension, axonal loss in MS). Faculty will provide an overview of currently available clinical ophthalmic imaging techniques, highlight their use in neurology practice, present relevant cases, and discuss future applications in clinical neurology.

Neuro-rehabilitation

Spinal Cord Rehabilitation



Director(s): Neeta Garg, MD

Description: The patients with spinal cord disorders often have permanent neurological dysfunction and functional impairment requiring intensive rehabilitation to improve or preserve strength and mobility, relieve pain, and manage bladder and bowel dysfunction. This course will provide an update on symptom management and rehabilitative strategies including novel neural repair and regenerative therapies and neuromodulation to improve function in patients with acute and chronic spinal cord syndromes. The format will encompass didactic lectures, case presentations, and interactive discussion.

Pain and Palliative Care

Maximizing Quality of Life and How to Deliver Bad News



Director(s): Maisha T. Robinson, MD, MS, FAAN

Description: Neurologists face difficult conversations on a regular basis regardless of subspecialty or practice setting. Communications strategies apply to interactions with all neurology patients across all neurologic conditions - giving a young patient a new diagnosis of MS, discussing treatment options with the spouse of a middle-aged patient with a

large intra-cranial hemorrhage, and responding to the emotions of adult children wrestling with the decision of whether or not to place a feeding tube in their mother with dementia. This session will strengthen neurologists' skills in breaking bad news and responding to emotion.

Practice, Policy, and Ethics

Burnout and Resilience: Strategies and Evidence for Enhancing Well-being



Director(s): Jennifer Rose Molano, MD, FAAN

Description: Clinician burnout is a crisis in neurology. Skills to identify and combat this problem are essential for the neurology practitioner. Graduates of the AAN Live Well, Lead Well Leadership Program will provide practical tools for participants to recognize and address the effects of burnout and promote resilience in themselves and others.

Sleep

Sleep for the Practicing Neurologist: Disordered Sleep in Common Neurologic Diseases



Description: Patients with neurologic diseases frequently experience disrupted sleep, excessive daytime sleepiness, and sleep disorders. Because of this, neurologists should be familiar with assessing, diagnosing, and managing these sleep symptoms and sleep disorders in their patients. Faculty will provide a clinically relevant, up-to-date review on the relationship between sleep, sleep disorders, and three neurologic diseases.

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Health Care Equity Symposium

Quality Health Care for All



Monday, April 19, 2021, 1:00 p.m.–3:00 p.m. ET

In today's world, the reality is that access to quality health care varies greatly depending on race, gender, socioeconomic status, and sexual identity. Join us at the Health Care Equity Symposium as we explore ways we can eliminate the disparity gap.

This symposium will include the Cheryl Jay Keynote Lecture, presented by Joseph R. Betancourt, MD, MPH, followed by a panel discussion and live Q&A session.

Learn more: [AAN.com/21AM](https://www.aan.com/21AM)



JOSEPH R. BETANCOURT, MD, MPH

Vice President, Chief Equity and Inclusion
Officer, Massachusetts General Hospital

Founder, Senior Advisor and Faculty,
The Disparities Solutions Center

Faculty, The Mongan Institute

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